OWNER'S MANUAL 2011

400 EXC Factory Edition EU 400 EXC Factory Edition EU 450 EXC Factory Edition EU 450 EXC Factory Edition EU 450 EXC SIX DAYS EU 450 XC-W SIX DAYS USA 530 EXC Factory Edition EU 530 EXC Factory Edition EU 530 EXC SIX DAYS EU

Art. no. 3211690en



DEAR KTM CUSTOMER

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

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

Enter the serial numbers of your vehicle below.

Chassis number (* p. 10)	Dealer's stamp
Engine number (🕶 p. 10)	
Key number (All EXC models) (🕶 p. 10)	

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

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KTM-Sportmotorcycle AG 5230 Mattighofen, Austria

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MEANS OF REPRESENTATION

Symbols used

	The symbols used are explained in the following.	
	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 your own safety, 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		

Proprietary name	Denotes a proprietary name.
Name®	Denotes a protected name.
Brand™	Denotes a brand available on the open market.

IMPORTANT INFORMATION

Use definition (All EXC models)

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 is authorized for use on public roads in the homologated (reduced) version only. In the derestricted version, the motorcycle must be used only on closed off properties remote from public road traffic. The motorcycle is designed for off-road sport endurance competition (Enduro) and not for the predominant motocross use.

Use definition (XC-W SIX DAYS)

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

• Info

The motorcycle may only be used in closed off areas remote from public road traffic. The motorcycle is designed for off-road sport endurance competition (Enduro) and not for the predominant motocross use.

Service

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

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

Pay careful attention to the prescribed running-in period and 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 by an authorized KTM workshop only and confirmed in the customer's service record and in the **KTM dealer.net**; otherwise, all warranty claims will be void. No warranty claim can be honored for damage resulting from manipulation and/or other changes 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. Some spare parts and accessories are specified in brackets in the respective descriptions. Your KTM dealer will be happy to advise you.

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

Work rules

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

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

If thread lock (e.g. Loctite[®]) is used for screw connections, be sure to comply with the manufacturer's specific instructions on its usage.

Parts that you want to reuse following repairs and servicing should be cleaned and checked for damage and wear. Change damaged or worn parts.

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

IMPORTANT INFORMATION

Transport

Note

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

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

Note

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

- Do not park the vehicle near flammable or explosive substances. Do not place objects on the vehicle while it is still warm from being run. Always let the vehicle cool first.
- Switch off engine.
- Turn handle of the fuel tap to the OFF position. (Figure 500137-10 P. 22)
- Use straps or other suitable devices to secure the motorcycle against accidents or falling over.

Environment

Motorcycling is a wonderful sport and we naturally hope that you can enjoy it to the full. 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 you use your motorcycle legally, display environmental consciousness, and respect the rights of others.

Notes/warnings

Pay close attention to the notes/warnings.

lnfo

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

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



Warning

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



Caution

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

Note

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



A Warning

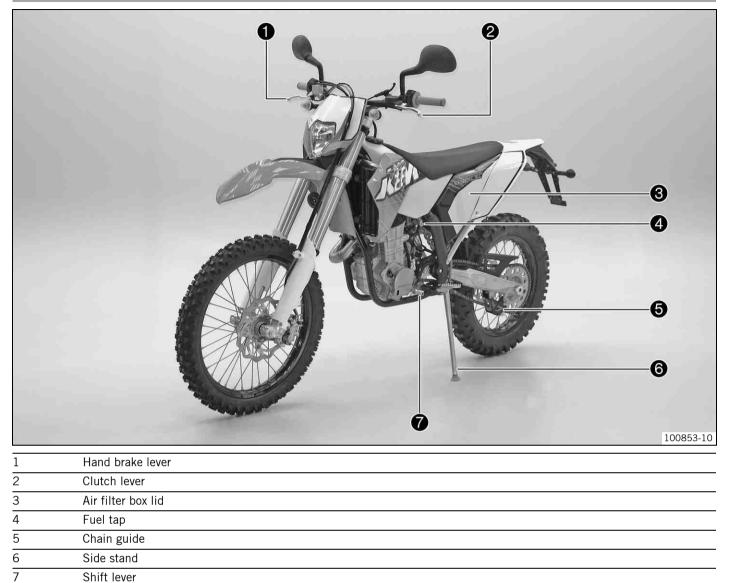
Identifies a danger that will lead to environmental damage if the appropriate measures are not taken.

Owner's manual

- It is important that you read this owner's manual carefully and completely before making your first trip. It contains information and tips to help you operate and handle your motorcycle. Only then will you learn how to best adjust the motorcycle for your own use and how to protect yourself from injury. The owner's manual also contains important information on servicing the motorcycle.
- The owner's manual is an important component of the motorcycle and should be handed over to the new owner if the vehicle is sold.

Shift lever

View of the vehicle from the left front (example)



View of the vehicle from the right rear (example)



12 Kick starter

SERIAL NUMBERS

Chassis number



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

Type label



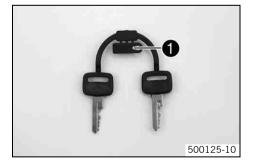
The type label **1** is fixed to the front of the steering head.

Engine number



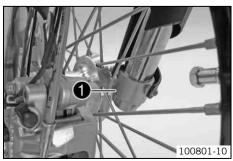
The engine number \bullet is stamped on the left side of the engine under the engine sprocket.

Key number (All EXC models)



The key number **1** for the steering lock is stamped onto the key connector.

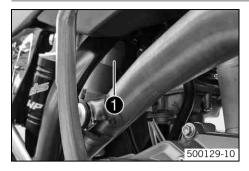
Fork part number



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

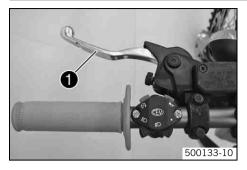
SERIAL NUMBERS

Shock absorber part number



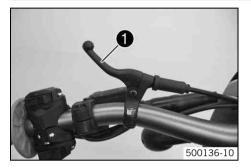
The shock absorber part number ${\bf 0}$ is stamped on the top of the shock absorber above the adjusting ring on the engine side.

Clutch lever



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

Choke (EXC EU, EXC Factory Edition, EXC SIX DAYS)



The choke lever ① is fitted on the left side of the handlebar. 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.

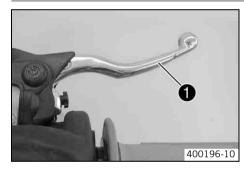
Info

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

Possible states

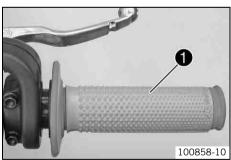
- Choke function activated The choke lever is pulled to the stop.
- Choke function deactivated The choke lever is pushed back to the stop.

Hand brake lever



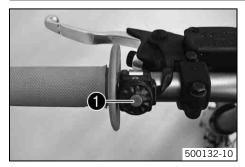
Hand brake lever \bullet is located on the right side of the handlebar. The hand brake lever is used to activate the front brake.

Throttle grip



The throttle grip \bullet is fitted on the right side of the handlebar.

Short circuit button (XC-W SIX DAYS)

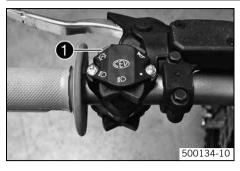


The short circuit button **1** is fitted on the left side of the handlebar.

Possible states

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

Short circuit button (All EXC models)

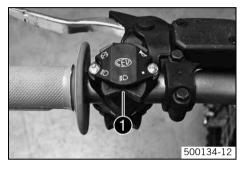


The short circuit button **1** is fitted on the left side of the handlebar.

Possible states

- Short circuit button \otimes in basic position In this position, the ignition circuit is . closed, and the engine can be started.
- Short circuit button \otimes pressed In this position, the ignition circuit is interrupted, • a running engine stops, and a non-running engine will not start.

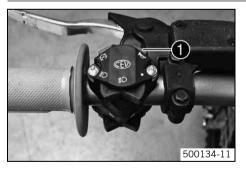
Light switch (All EXC models)



Turn signal switch (All EXC models)



Horn button (All EXC models)



Emergency OFF switch (EXC AUS)



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

Possible states	
•	Light off – Light switch is turned to the right. In this position, the light is switched off.
≣D	Low beam on – Light switch is in the central position. In this position, the low beam and tail light are switched on.
≣D	High beam on – Light switch is turned to the left. In this position, the high beam and the tail light are switched on.

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

Possible states

	Turn signal light off – Turn signal switch is in the central position.
+	Turn signal light, left, on – Turn signal switch turned to the left.
	Turn signal light, right, on – Turn signal switch turned to the right.

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

Possible states

- Horn button ₩ in neutral position .
- Horn button \bowtie pressed The horn is operated in this position. •

The emergency OFF switch **①** is fitted on the right side of the handlebar. Possible states

\bigotimes	Ignition off – In this position, the ignition circuit is interrupted, a run- ning engine stops, and a non-running engine will not start.
\bigcirc	Ignition on – In this position, the ignition circuit is closed, and the engine can be started.

Electric starter button (EXC AUS)



The electric starter button ${\ensuremath{\textcircled{}}}$ is fitted on the right side of the handlebar.

Possible states

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

Electric starter button (EXC EU, EXC Factory Edition, EXC SIX DAYS, XC-W SIX DAYS)

0

400198-10



Possible states

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

Light switch (XC-W SIX DAYS)



The light switch **1** is on the right of the speedometer.

Possible states

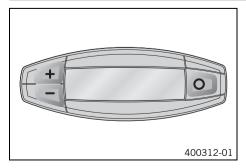
- Light off Light switch is pressed in up to the stop. In this position, the light is switched off.
- Light on Light switch is pulled out to the stop. In this position, the low beam and tail light are switched on.

Overview of indicator lamps (All EXC models)



Possible states	
	High beam indicator lamp lights up blue – High beam is switched on.
	Turn signal indicator lamp flashes green – Turn signal light is switched on.

Speedometer



Press the key O to change the display mode or change to one of the Setup menus.

- Press the key \pm to control different functions.
- Press the key to control different functions.

Info

When the vehicle is delivered, only the **SPEED/H** and **SPEED/0D0** display modes are activated.

Speedometer activation and test



400313-01

Activating the speedometer

The speedometer is activated when one of the keys is pressed or an impulse comes from the wheel speed sensor.

Display test

For the function test of the display, all display segments light up briefly.

WS (wheel size)

After the display function test, the wheel size **WS** is displayed briefly.



Info

The number 2205 mm equals the circumference of the 21" front wheel with a series production tire.

The display then changes to the last selected mode.

400314-01

Tripmaster switch

(Option: Tripmaster switch)

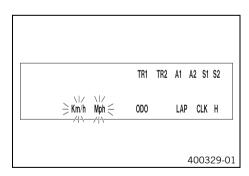
You can use the trip master switch to control the functions of the speedometer from the handlebar.

Info The trip master is an optional accessory.

Setting kilometers or miles

Info

If you change the unit of measure, the **ODO** value is retained and converted accordingly. The values TR1, TR2, A1, A2 and S1 are cleared when the unit of measure is changed.



Condition

The motorcycle is stationary.

- Press the button O briefly and repeatedly until **H** appears at the bottom right of the _ display.
- Press the button \bigcirc for 3 5 seconds. _
 - The Setup menu is displayed and the active functions are shown.
 - Press the button **O** repeatedly until the **Km/h/Mph** display flashes.

Adjusting Km/h

Press the button +.

Adjusting Mph

- Press the button -.
- Press the button O for 3 5 seconds.
 - ✓ The settings are stored and the Setup menu is closed.

Info

If no button is pressed for 20 seconds, or if no impulse comes from the wheel speed sensor, the settings are automatically saved and the Setup menu is closed.

Setting the clock



Condition

The motorcycle is stationary.

- Press the button O briefly and repeatedly until CLK appears at the bottom right of the display.
- Press the button **O** for 3 5 seconds.
 - The hour display flashes.
- Press the button O briefly.
 - ✓ The next segment of the display flashes and can be set.

Info

The seconds can only be set to zero.

Press the button O for 3 - 5 seconds.

The settings are stored and the Setup menu is closed.

Info

If no button is pressed for 20 seconds, or if a pulse arrives from the wheel speed sensor, the settings are stored automatically and the Setup menu is closed.

Adjusting the speedometer functions

Info

When the vehicle is delivered, only the SPEED/H and SPEED/ODO display modes are activated.

	$= \mathbf{TR1} \in \mathbf{TR2}$	A1 A2 S1 S2
Km/h Mph	ODO	LAP CLK H
		400318-01

Condition

The motorcycle is stationary.

- Press the button O briefly and repeatedly until H appears at the bottom right of the display.
- Press the button O for 3 5 seconds.
 - ✓ The Setup menu is displayed and the activated functions are shown.
- Change to the desired function by pressing the button **O** briefly.
- The selected function flashes.

Activating a function

- Press the button +.
 - $\checkmark\,$ The symbol remains on the screen and the display changes to the next function.

Deactivating the function

- Press the button —.
 - The symbol on the screen goes out and the display changes to the next function.
- All desired functions are activated or deactivated accordingly.
- Press the button O for 3 5 seconds.
 - \checkmark The settings are stored and the Setup menu is closed.

lnfo

If no button is pressed for 20 seconds, or if a pulse arrives from the wheel speed sensor, the settings are stored automatically and the Setup menu is closed.

Querying the lap time

• Info This

This function can be called only if lap times are measured.

LAP I DO: 08: 39 LAP 400321-01	 Condition The motorcycle is stationary. Press the button ○ briefly and repeatedly until LAP appears at the bottom right of the display. Press the button ○ briefly. ✓ LAP 1 appears on the left side of the display. Laps 1-10 can be displayed by pressing the button ➡. The ➡ button has no function Press the button ○ briefly. ✓ Next display mode Info If an impulse is received from the wheel speed sensor, the left side of the display changes back to the SPEED mode.
Display mode SPEED (speed)	
SPEED 54 000538 Km/h 000 400317-02	 Press the button O briefly and repeatedly until SPEED appears on the left side of the display. The current speed is displayed in the SPEED display mode. The current speed can be displayed in Km/h or Mph. Info Making the setting according to the country. When an impulse comes from the front wheel, the left side of the speedometer display changes to the SPEED mode and the current speed is shown.
Display mode SPEED/H (service hours	s)
SPEED Km/h 00 08.3	 Condition The motorcycle is stationary. Press the button O briefly and repeatedly until H appears at the bottom right of the display. In display mode H, the service hours of the engine are displayed. The service hour counter stores the total traveling time.

400316-01

Info

The service hour counter is necessary for ensuring that maintenance work is carried out at the right intervals.

If the speedometer is in ${\bf H}$ display mode at the start of the journey, it automatically changes to the ${\bf ODO}$ display mode.

The ${\bf H}$ display mode is suppressed during the journey.

Press the button \pm .	No function
Press the button –.	No function
Press the button O for 3 - 5 seconds.	The display changes to the Setup menu of the speedometer functions.
Press the button O briefly.	Next display mode

Display mode SPEED/CLK (clock)



Press the button \Box briefly and repeatedly until **CLK** appears at the bottom right of the display.

The time is displayed in **CLK** display mode.

Press the button \pm .	No function
Press the button	No function
Press the button O for 3 - 5 seconds.	The display changes to the Setup menu of the clock.
Press the button O briefly.	Next display mode

Display mode SPEED/LAP (lap time)



 Press the button O briefly and repeatedly until LAP appears at the bottom right of the display.

In the LAP display mode, up to 10 lap times can be timed with the stop watch.



_

If the lap time continues after you press the button –, 9 memory locations are already occupied.

Lap 10 must be timed with the button \pm .

Press the button \pm .	Starts or stops the clock.
Press the button .	Stops the current lap time and saves it, and the stop watch starts the next lap.
Press the button O for 3 - 5 seconds.	The stop watch and the lap time are reset.
Press the button O briefly.	Next display mode

Display mode SPEED/ODO (odometer)

SPEED	S Km/h	<i>00 63 8</i>
SPEED	Km/h	I ODO

 Press the button I briefly and repeatedly until ODO appears at the bottom right of the display.

The total distance traveled is displayed in the **ODO** display mode.

Press the button \pm .	No function
Press the button –.	No function
Press the button O for 3 - 5 seconds.	-
Press the button O briefly.	Next display mode

Display mode SPEED/TR1 (trip master 1)

SPEED	85	TR1 <i>1 29.3</i>
	Km/h	400323-01

Press the button O briefly and repeatedly until TR1 appears at the top right of the display.

TR1 (trip master 1) runs constantly and counts to 999.9.

You can use it to measure trips or the distance between refueling stops.

TR1 is coupled with **A1** (average speed 1) and **S1** (stop watch 1).

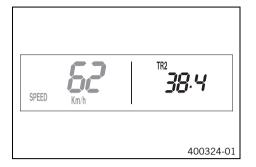


If 999.9 is exceeded, the values of **TR1**, **A1** and **S1** are automatically reset to 0.0.

Press the button \pm .	No function
Press the button	No function
Press the button O for 3 - 5 seconds.	The TR1 , A1 and S1 displays are reset to 0.0.

Press the button O Next display mode briefly.

Display mode SPEED/TR2 (trip master 2)



Press the button \Box briefly and repeatedly until **TR2** appears at the top right of the display.

TR2 (trip master 2) runs constantly and counts up to 999.9.

The displayed value can be set manually with the button \pm and the button \equiv . This is a very practical function when riding using the road book.

Info

The **TR2** value can also be corrected manually during the journey with the button \blacksquare and the button \blacksquare .

If 999.9 is exceeded, the value of TR2 is automatically reset to 0.0.

Press the button \pm .	Increases value of TR2.
Press the button	Reduces value of TR2.
Press the button O for 3 - 5 seconds.	Deletes value of TR2 .
Press the button O briefly.	Next display mode

Display mode SPEED/A1 (average speed 1)



 Press the button O briefly and repeatedly until A1 appears at the top right of the display.

A1 (average speed 1) shows the average speed calculated on the basis of TR1 (trip master 1) and S1 (stop watch 1).

The calculation of this value is activated by the first impulse of the wheel speed sensor and ends 3 seconds after the last impulse.

Press the button \pm .	No function
Press the button	No function
Press the button O for 3 - 5 seconds.	The TR1 , A1 and S1 displays are reset to 0.0.
Press the button O briefly.	Next display mode

Display mode SPEED/A2 (average speed 2)



Press the button O briefly and repeatedly until A2 appears at the top right of the display.

A2 (average speed 2) shows the average speed on the basis of the current speed if the stop watch **S2** (stop watch 2) is running.

lnfo

The displayed value can differ from the actual average speed if **S2** was not timed after the ride.

Press the button \pm .	No function
Press the button	No function
Press the button O for 3 - 5 seconds.	-
Press the button O briefly.	Next display mode

Display mode SPEED/S1 (stop watch 1)

00: 18:52 SPEED Km/h

400327-01

_

Press the button **O** briefly and repeatedly until **S1** appears at the top right of the display.

S1 (stop watch 1) displays the journey time on the basis of **TR1** and continues when an impulse is received from the wheel speed sensor.

The calculation of this value starts with the first impulse of the wheel speed sensor and ends 3 seconds after the last impulse.

Press the button \pm .	No function
Press the button	No function
Press the button O for 3 - 5 seconds.	Displays of TR1, A1 and S1 are reset to 0.0.
Press the button O briefly.	Next display mode

Display mode SPEED/S2 (stop watch 2)

	25	<i>00:06: 1</i> 7
SPEED	Km/h	
		400328-01

Press the button
 briefly and repeatedly until S2 appears at the top right of the display.

S2 (stop watch 2) is a manual stop watch.

If $\boldsymbol{S2}$ is running in the background, the $\boldsymbol{S2}$ display flashes in the speedometer display.

Press the button \pm .	Starts or stops S2.
Press the button	No function
Press the button O for 3 - 5 seconds.	Displays of S2 and A2 are reset to 0.0.
Press the button O briefly.	Next display mode

Table of functions Display	Press the button +.	Press the button —.	Press the	button 🖸 for 3 -	Pres	s the button O
Dispidy			5 seconds		brief	
Display mode SPEED/H (service hours)	No function	No function	the Setur	ay changes to o menu of the eter functions.	Nex	t display mode
Display mode SPEED/CLK (clock)	No function	No function		ay changes to o menu of the	Nex	t display mode
Display mode SPEED/LAP (lap time)	Starts or stops the clock.	Stops the current lap time and saves it, and the stop watch starts the next lap.		watch and the are reset.	Nex	t display mode
Display mode SPEED/0D0 (odometer)	No function	No function	-		Nex	t display mode
Display mode SPEED/TR1 (trip master 1)	No function	No function		A1 and S1 dis- reset to 0.0.	Nex	t display mode
Display mode SPEED/TR2 (trip master 2)	Increases value of TR2.	Reduces value of TR2 .	Deletes v	alue of TR2 .	Nex	t display mode
Display mode SPEED/A1 (average speed 1)	No function	No function		A1 and S1 dis- reset to 0.0.	Nex	t display mode
Display mode SPEED/A2 (average speed 2)	No function	No function	-		Nex	t display mode
Display mode SPEED/S1 (stop watch 1)	No function	No function		of TR1 , A1 and set to 0.0.	Nex	t display mode
Display mode SPEED/S2 (stop watch 2)	Starts or stops S2 .	No function	Displays are reset	of S2 and A2 to 0.0.	Nex	t display mode
Table of conditions and me	nu activation					
Display				The motorcycle stationary.	is	Menu can be acti- vated
Display mode SPEED/H (se	ervice hours)			•		

Display	The motorcycle is stationary.	Menu can be acti- vated
Display mode SPEED/CLK (clock)		•
Display mode SPEED/LAP (lap time)		•
Display mode SPEED/TR1 (trip master 1)		•
Display mode SPEED/TR2 (trip master 2)		•
Display mode SPEED/A1 (average speed 1)		•
Display mode SPEED/A2 (average speed 2)		•
Display mode SPEED/S1 (stop watch 1)		•
Display mode SPEED/S2 (stop watch 2)		•

Opening filler cap



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.

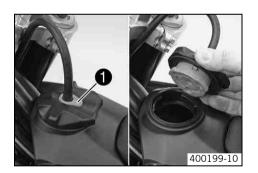
Avoid contact between fuel and skin, eyes and clothing. Do not inhale fuel vapors. If fuel gets into your eyes, rinse immediately with water and contact a doctor. Wash affected skin areas immediately with soap and water. If fuel is swallowed, contact a doctor immediately. Change clothing that has come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



Warning

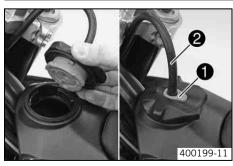
Environmental hazard Improper handling of fuel is a danger to the environment.

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



Press release button **1**, turn filler cap counterclockwise and lift it upwards and remove.

Closing filler cap

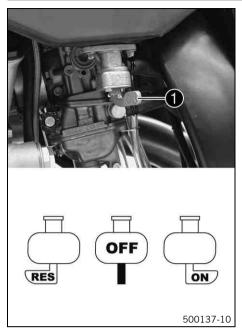


Replace the filler cap and turn clockwise until the release button **1** locks in place.

Info

Route the fuel tank breather hose 2 without kinking.

Fuel tap



The fuel tap is on the left of the fuel tank.

With tap handle \bullet on the fuel tap, you can open or close the supply of fuel to the carburetor.

Possible states

- Fuel supply closed **OFF** No fuel flows from the tank to the carburetor.
- Fuel supply open **ON** Fuel flows from the tank to the carburetor. The fuel tank empties down to the reserve.
- Reserve fuel supply open **RES** Fuel flows from the tank to the carburetor. The fuel tank empties completely.

Choke (EXC AUS, XC-W SIX DAYS)



Choke ● 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.

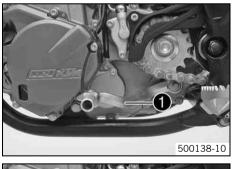
• Info

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

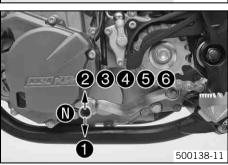
Possible states

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

Shift lever

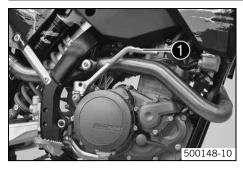


Shift lever **1** is mounted on the left side of the engine.



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

Kick starter

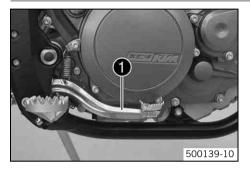


The kick starter ① is fitted on the right of the engine. The engine can be started with either the kick starter or the electric starter. The upper part of the kick starter can be swung out.

Info

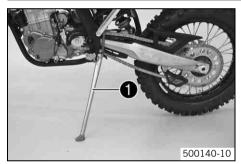
Before riding, swing the upper part of the kick starter inwards towards the engine.

Foot brake lever

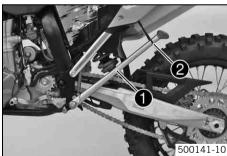


Foot brake lever **1** is located in front of the right footrest. The foot brake lever is used to activate the rear brake.

Side stand



The side stand **1** is on the left side of the vehicle.



The side stand is used to park the motorcycle.

- Info

Steering lock (All EXC models)

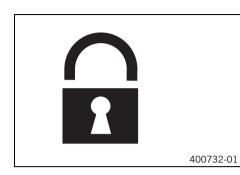


Steering lock **1** is fitted on the left side of the steering head. The steering lock is used to lock the steering. Steering, and therefore riding, is no longer possible.

Locking the steering (All EXC models)

Note

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



Park the vehicle.

_

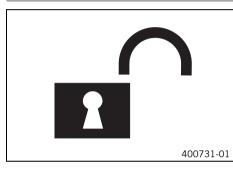
_

- Turn the handlebar as far as possible to the right.
 - Insert the key in the steering lock, turn it to the left, press it in and turn it to the right. Remove the key.
 - ✓ Steering is no longer possible.



Never leave the key in the steering lock.

Unlocking the steering (All EXC models)



- Insert the key in the steering lock, turn it to the left, pull it out and turn it to the right. Remove the key.
 - ✓ You can now steer the bike again.



Never leave the key in the steering lock.

Advice on first use



Danger Danger

- **Danger of accidents** Danger arising from the rider's judgement being impaired.
- Do not operate the vehicle while under the influence of alcohol, drugs and certain medications or physically or mentally impaired.



Warning

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

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

Warning

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

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

Warning

Danger of accidents Critical riding behavior due to inappropriate riding.

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



Warning

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

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



Danger of accidents Failure of brake system.

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



Warning

Danger of accidents Unstable riding behavior.

- Do not exceed the maximum permissible weight and axle loads.



Warning

Risk of misappropriation Usage by unauthorized persons.

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

Info

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

- Make sure that the pre-delivery inspection work has been carried out by an authorized KTM workshop.
- ✓ You receive a delivery certificate and the service record at vehicle handover.
- Before your first trip, read the entire operating instructions carefully.
- Get to know the controls.
- Adjust the basic position of the clutch lever. (* p. 62)

(XC-W SIX DAYS)

(All EXC models)

- Adjust the free travel of the hand brake lever. (* p. 64)
- Adjust the basic position of the foot brake lever. 🔌 (🕶 p. 68)
- Adjust the basic position of the shift lever.

 (* p. 90)
- Get used to handling the motorcycle on a suitable piece of land before making a longer trip.

Info

Off-road, you should be accompanied by another person on another machine so that you can help each other.

- Try also to ride as slowly as possible and in a standing position to get a better feeling for the vehicle.

Do not make any off-road trips that over-stress your ability and experience.

- Hold the handlebar firmly with both hands and keep your feet on the footrests when riding.
- If you carry any baggage, make sure it is fixed firmly as close as possible to the center of the vehicle and ensure even weight distribution between the front and rear wheels.



Motorcycles react sensitively to any changes of weight distribution.

Do not exceed the overall maximum permitted weight and the axle loads.

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

Run-in the engine.

Running-in the engine

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

Maximum engine speed		
During the first operating hour	7,000 rpm	
Maximum engine performance		
During the first 3 service hours	≤ 75 %	

Avoid fully opening the throttle!

Preparing vehicle for arduous riding conditions

Using a motorcycle in arduous conditions can lead to excessive wear of components such as the power train or brakes. For this reason, it may be necessary to service or replace worn parts before the limit specified in the service schedule is reached.

Arduous riding conditions are:

- Riding on dry sand. (* p. 26)
- Riding on wet sand. (* p. 27)
- Rides on wet and muddy surfaces. (* p. 28)
- Rides at high temperature and slow speed. (p. 29)
- Rides at low temperatures or in snow. (* p. 29)

Preparations for riding on dry sand



Check the radiator cap.

Value on the radiator cap	1.8 bar (26 psi)
value on the faulator cap	1.0 bai (20 psi)

If the displayed value does not equal the setpoint value:



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.
- Change the radiator cap.
- Seal the air filter box. 🔌

Tip

Seal the air filter box at the edges to prevent dirt from entering.

Clean the air filter and air filter box. 🔌 (🕶 p. 54)

Info

Check the air filter approx. every 30 minutes.





600868-01

Preparations for riding on wet sand



- Mount the dust cover for the air filter.

Dust protection device for air filter (59006019000)

• Info

Read the **KTM PowerParts** installation instructions.

Mount the dust cover for the air filter for sand.

Sand protection device for air filter	(59006022000)
---------------------------------------	---------------



Read the KTM PowerParts installation instructions.

- Adjust the carburetor jetting and setting.



Info

Recommendations on the carburetor setting are available from your authorized KTM workshop.

Clean the chain.

Chain cleaner (* p. 115)

Mount the steel sprocket.



Do not grease the chain.

- Clean the radiator fins.
- Carefully align bent radiator fins.
- Check the radiator cap.

	١	Value on the radiator cap	1.8 bar (26 psi)
--	---	---------------------------	------------------

» If the displayed value does not equal the setpoint value:



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.
- Change the radiator cap.
- Seal the air filter box. 🔌



Seal the air filter box at the edges to prevent dirt from entering.

– Clean the air filter and air filter box. 🔌 (🕶 p. 54)

Info

Check the air filter approx. every 30 minutes.

	 Mount the rain cover for the air filter. Waterproofing device for air filter (59006021000)
ACCENT	Read the KTM PowerParts installation instructions.
	 Adjust the carburetor jetting and setting.
600870-01	Info Recommendations on the carburetor setting are available from your autho- rized KTM workshop.
	_ Clean the chain.
	Chain cleaner (* p. 115)
	 Mount the steel sprocket.
	Tip Do not grease the chain.
600868-01	 Clean the radiator fins. Carefully align bent radiator fins.
Preparing for rides on wet and mudd	lv surfaces
	- Seal the air filter box. 🔌
	Tia
	Tip Seal the air filter box along the edges to prevent the ingress of dirt.
	Seal the air filter box along the edges to prevent the ingress of dirt.
	 Seal the air filter box along the edges to prevent the ingress of dirt. Clean the air filter and air filter box. (* p. 54) Info
	 Seal the air filter box along the edges to prevent the ingress of dirt. Clean the air filter and air filter box. (* p. 54) Info Check the air filter approx. every 30 minutes.
	 Seal the air filter box along the edges to prevent the ingress of dirt. Clean the air filter and air filter box. (* p. 54) Info Check the air filter approx. every 30 minutes. Fit a waterproofing device on the air filter.
	 Seal the air filter box along the edges to prevent the ingress of dirt. Clean the air filter and air filter box. (• p. 54) Info Check the air filter approx. every 30 minutes. Fit a waterproofing device on the air filter. Waterproofing device for air filter (59006021000) Info
60870-01	 Seal the air filter box along the edges to prevent the ingress of dirt. Clean the air filter and air filter box. (• p. 54) Info Check the air filter approx. every 30 minutes. Fit a waterproofing device on the air filter. Waterproofing device for air filter (59006021000) Info See the KTM PowerParts fitting instructions. Adjust the carburetor jetting and settings. Info

28



- Clean the motorcycle. (* p. 97)
- Straighten bent radiator fins carefully.

Preparing for rides at high temperature and slow speed



ISOWN IS	Value o	n radiator cap	1.8 bar (26 psi)
State Contraction	» If the	e displayed value does	not correspond to the nominal value:
		Marning Danger of scaldin very hot and is u	g During motorcycle operation, the coolant gets nder pressure.
600872-10		 Do not remo system com and cooling 	we the radiator cap, radiator hoses or other cooling ponents when the engine is hot. Allow the engine system to cool down. In case of scalding, rinse with lukewarm water.
		hange the radiator cap	·.
	- Seal the	air filter box. 🔌	
		ip eal the air filter box or	the edges against dirt.
	- Clean the	e air filter and air filte	box. 🔌 (🕶 p. 54)
		ifo heck the air filter appr	ox. every 30 minutes.
	– Adjust th	e secondary drive to t	ne road conditions.
	Т	l fo he engine oil quickly g ue to an excessively hi	ets hot if the clutch has to be operated very often gh secondary drive.
	- Clean the	e chain.	
	Chain c	leaner (🕶 p. 115)	
600868-01	– Clean rad	diator fins.	
000808-01	– Straighte	en bent radiator fins ca	
	 Check th 	e coolant level. (🕶 p.	84)
Preparing for rides at low temperatu	res or in snow		
	- Seal the	air filter box. 🔌	
	T S	-	the edges against dirt.
	- Clean the	e air filter and air filte	box. 🛁 (🖛 p. 54)
	• Ir	ifo heck the air filter appr	i
	– Fitawat	erproofing device on t	e air filter.
	Waterpr	oofing device for air fi	ter (59006021000)
AND	• Ir	ifo	

Check the radiator cap.

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- See the KTM PowerParts fitting instructions.
- Adjust the carburetor jetting and settings.

Info

Your authorized KTM workshop has the recommended carburetor tuning settings.



Checks and maintenance before putting into operation

Info

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

- Check the engine oil level. (* p. 91)
- Check the electrical system.
- Check the brake fluid level of the front brake. (* p. 65)
- Check the front brake linings. (***** p. 66)
- Check the rear brake linings. (* p. 70)
- Check the brake system function.

- Check the chain, rear sprocket, engine sprocket and chain guide. (* p. 59)
- Check the chain tension. (* p. 58)
- Check the tire air pressure. (* p. 76)

- 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 reserves.

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.

lnfo

If the motorcycle is unwilling to start, the cause may 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.

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

Motorcycle has been out of use for more than 1 week

– Empty the carburetor float chamber. 🔌 (🕶 p. 89)

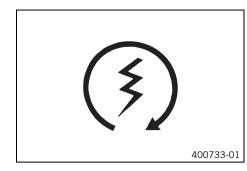
- Turn handle **0** of the fuel tap to the **ON** position. (Figure 500137-10 P. 22)
 - ✓ Fuel can flow from the fuel tank to the carburetor.
- Raise the motorcycle off of the stand and secure the stand with rubber band 1.
- Shift transmission to neutral.
 - Turn the emergency OFF switch to the position \bigcirc .

The engine is cold

- (EXC AUS, XC-W SIX DAYS)
 - Pull choke lever out as far as possible.



100842-10



(EXC EU, EXC Factory Edition, EXC SIX DAYS)

- Pull the choke lever to the stop.
- Press the electric starter button or press the kickstarter robustly through its full range.

Info

Do not rev up.

Starting up

Info

i

If your bike has lights, switch them on before riding. You will then be seen earlier by other motorists. When you are riding, the side stand must be folded up and secured with the rubber band.

- 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.

Info

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

- When conditions allow (incline, road situation, etc.), you 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. This barely reduces vehicle speed but lowers fuel consumption considerably.
- Always open the throttle only as much as the engine can handle abrupt throttle opening 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.
- Switch off the engine if you expect to be stationary for a long time.

Guideline

- ≥ 2 min
- Avoid frequent and prolonged slipping of the clutch. This causes heat build-up in the engine oil, the engine and the cooling system.
- Ride at lower engine speeds instead of high revs and a slipping clutch.

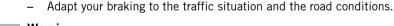
Braking



Warning



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



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.

RIDING INSTRUCTIONS

- On sandy, wet or slippery surfaces, use the rear brake.
- Braking should always be completed before you go into a bend. Change down to a lower gear appropriate to your road speed.
- On long downhill stretches, use the braking effect of the engine. Change down one or two gears, but do not overstress the engine.
 In this way, you have to brake far less and the brakes do not overheat.

Stopping, parking

Warning

Risk of misappropriation Usage by unauthorized persons.

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

Warning

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

 Do not touch hot components such as exhaust system, radiator, engine, shock absorber and 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 transmission to neutral.

(XC-W SIX DAYS)

- Press and hold the short circuit button 🛛 while the engine is idling until the engine stops.

(All EXC models)

- Press and hold the short circuit button \otimes while the engine is idling until the engine stops.
- Turn handle **1** of the fuel tap to the **OFF** position. (Figure 500137-10 ***** p. 22)
- 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

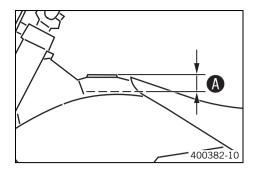
Danger of poisoning Fuel is poisonous and a health hazard.

 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 engine.



– Fill the fuel tank with fuel up to measurement $\boldsymbol{\Theta}$.

Guideline

dalaoinio				
Measurement of 🚯		35 mm (1.38 in)		
Total fuel tank capacity, approx. (All EXC models)	9.5 (2.51 US gal)	Super unleaded (ROZ 95 / RON 95 / PON 91) (p. 114)		
Total fuel tank capacity, approx. (XC-W SIX DAYS)	9.2 I (2.43 US gal)	Super unleaded (ROZ 95 / RON 95 / PON 91) (p. 114)		

- Close the filler cap. (* p. 21)

SERVICE SCHEDULE

Service schedule

	S1N	S15A	S30A
Check the functioning of the electrical equipment.	•	•	•
Check and charge the battery. 🔺		•	•
Change the engine oil and oil filter and clean the engine oil screen. 🔦 (* p. 91)		•	•
Change the gear oil and clean the gear oil screen. 🔌 (🕶 p. 94)		•	•
Check the front brake linings. (* p. 66)		•	•
Check the rear brake linings. (* p. 70)		•	•
Check the brake discs. (p. 65)		•	•
Check the brake lines for damage and leakage.		•	•
Check the rear brake fluid level. (p. 69)		•	•
Check the free travel of the foot brake lever. (p. 68)		•	•
Check the frame and swingarm. 🔌		•	•
Check the swingarm bearing. 🔌			•
Check the heim joints at the top and bottom of the shock absorber. 🔧		•	•
Check the tire condition. (* p. 75)		•	•
Check the tire air pressure. (* p. 76)		•	•
Check the wheel bearings for play. 🔌		•	•
Check the wheel hubs. 🔦		•	•
Check rim run-out. 🔧		•	•
Check the spoke tension. (•	•
Check the chain, rear sprocket, engine sprocket and chain guide. (* p. 59)		•	•
Check the chain tension. (* p. 58)		•	•
Grease all moving parts (e.g. side stand, hand lever, chain,) and check for smooth operation.		•	•
Check the fluid level of the hydraulic clutch. (* p. 62)		•	•
Check the brake fluid level of the front brake. (* p. 65)		•	•
Check the free travel of the hand brake lever. (p. 64)		•	•
Check the steering head bearing play. (* p. 50)		•	•
Check the valve clearance.		•	•
Check the clutch. 🔌			•
Check all hoses (e.g. fuel, cooling, bleeder, drainage, etc.) and sleeves for cracking, leaks and correct routing.		•	•
Check the anti-freeze and coolant level. (* p. 84)		•	•
Check the cables for damage and routing without sharp bends. 🔌		•	•
Check that the cables are undamaged, routed without sharp bends and set correctly.		•	•
Clean the air filter and air filter box.		•	•
Change the glass fiber yarn filling of the main silencer. 🔌 (🕶 p. 55)			•
Check the screws and nuts for tightness.		•	•
Check the headlight adjustment. (* p. 82)		•	•
Check idle.		•	•
Check that the radiator fan is functioning properly. 🔌 (EXC SIX DAYS, XC-W SIX DAYS)		•	•
Final check: Check the vehicle for roadworthiness and take a test ride.		•	•
Make the service entry in KTM DEALER.NET and in the service record.		•	•

S1N: Once after one operating hour

S15A: Every 15 operating hours

S30A: Every 30 operating hours/after every race

SERVICE SCHEDULE

Service work (as additional order)

	\$15N	S45A	S90A	J1A
Change the front brake fluid. 🔧				•
Change the rear brake fluid. 🔌				•
Change the foot brake cylinder seals. 🔧				•
Change the hydraulic clutch fluid. 🔌 (🕶 p. 62)				•
Grease the steering head bearing. 🔌 (🕶 p. 51)				•
Clean the spark arrestor. 🔌 (XC-W SIX DAYS)				•
Check/set the carburetor components. 🔧			•	•
Perform a fork service. 🔺	•	٠	•	
Service the shock absorber. 🔧		•	•	
Change the spark plug and spark plug connector. 🔧		٠	•	
Change the piston. 🔺			•	
Check/measure the cylinder. 🔧			•	
Check the cylinder head. 🔧			•	
Check the valves, valve springs and valve spring seats. 🔌			•	
Check the camshaft and rocker arm. 🔌			•	
Change the connecting rod, conrod bearing and crank pin. 🔧			•	
Check the transmission and shift mechanism. 🔧			•	
Check the oil pressure regulator valve. 🔧			•	
Check the oil pumps and lubrication system. 🔧			•	
Check the timing assembly. 🔌			•	
Change all engine bearings. 🔧			•	

S15N: Once after 15 operating hours

S45A: Every 45 operating hours

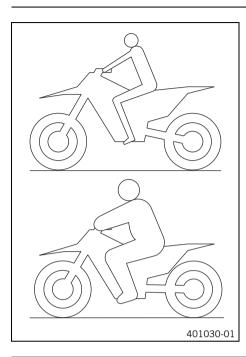
S90A: Every 90 operating hours/every 45 operating hours after sporting use

J1A: Annually

Checking the basic suspension setting against the rider's weight

Info

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



- For optimal motorcycle riding characteristics and to avoid damage to forks, shock absorbers, swingarm and frame, the basic settings of the suspension components must match the rider's weight.
- As delivered, KTM offroad motorcycles are adjusted for a standard rider weight (with full protective clothing).

Guideline

Standard rider weight	75 85 kg (165 187 lb.)
	/ 0111 00 Ng (100111 10/ 101)

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

Compression damping of shock absorber

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

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

The high-speed setting, for example, has an effect on the landing after a jump: the rear wheel suspension compresses more quickly. The low-speed setting, for example, has an effect when riding over long ground swells: the rear wheel suspension compresses more slowly.

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

Adjusting high-speed compression damping of the shock absorber

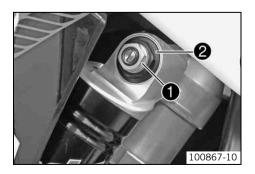
Caution

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.)

Info

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



•	Info

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

Guideline

Comfort	2 turns
Standard	1.5 turns
Sport	1.25 turns

Info

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

Adjusting the low-speed compression damping of the shock absorber

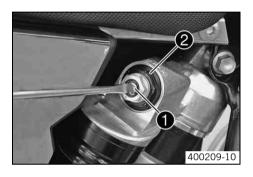
Caution

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.)

Info

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



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



Do not loosen nut **2**!

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

Guideline

Compression damping, low-speed	
Comfort	22 clicks
Standard	20 clicks
Sport	15 clicks

Info

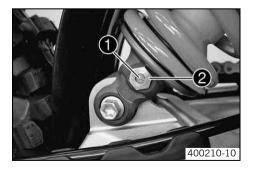
Turn clockwise to increase damping; turn counterclockwise to reduce damping.

Adjusting rebound damping of the shock absorber

Caution

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

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



Turn adjusting screw **1** clockwise up to the last perceptible click.



Do not loosen nut **2**!

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

Guideline

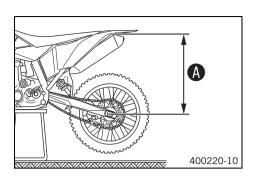
Rebound damping

Comfort	26 clicks	
Standard	24 clicks	
Sport	22 clicks	

Info

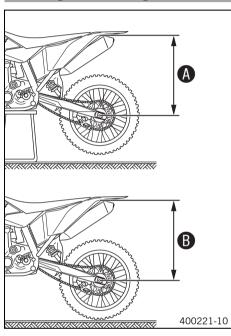
Turn clockwise to increase damping; turn counterclockwise to reduce damping.

Measuring rear wheel sag unloaded



- Raise the motorcycle with the lift stand. (* p. 43)
 - Measure the distance as vertically as possible between the rear axle and a fixed point, such as a mark on the side cover.
- Make note of the value as measurement .
- Remove the motorcycle from the lift stand. (* p. 43)

Checking the static sag of the shock absorber



- Measure distance 🚯 of rear wheel unloaded. (🕶 p. 38)
- Hold the motorcycle upright with the aid of an assistant.
- Measure the distance between the rear axle and the fixed point again.
- Note down the value as dimension **(B**).

• Info

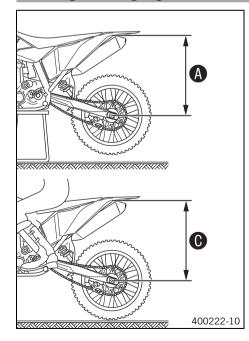
The static sag is the difference between measurements () and ().

- Check the static sag.

Static sag	35 mm (1.38 in)

- If the static sag is less or more than the specified value:
 - Adjust the spring preload of the shock absorber. A (* p. 39)

Checking the riding sag of the shock absorber



- Measure distance () of rear wheel unloaded. (* p. 38)
- With another person holding the motorcycle, the rider, wearing full protective clothing, sits on the seat in a normal sitting position (feet on footrests) and bounces up and down a few times.
 - ✓ The rear wheel suspension levels out.
- Another person now measures the distance between the rear axle and a fixed point.
- Note down the value as dimension $oldsymbol{\Theta}$.

Info

Rid

The riding sag is the difference between measurements $\boldsymbol{0}$ and $\boldsymbol{0}$.

Check the riding sag.

ing sag	105 mm (4.13 in)

- If the riding sag differs from the specified measurement:
 - Adjust the riding sag. 🔌 (🕶 p. 39)

Adjusting the spring preload of the shock absorber 🔺

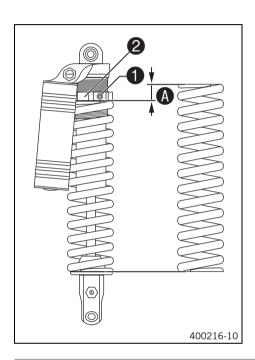
Caution

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.)

Info

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



– Remove shock absorber. 🛁 (🕶 p. 52)

- After removing the shock absorber, clean it thoroughly.

Loosen screw 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 measurement 3. Guideline

	Spring preload	9 mm (0.35 in)
--	----------------	----------------

lnfo

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

Tighten screw 1.

Guideline

Screw, shock absorber adjusting ring	M6	5 Nm (3.7 lbf ft)

Install the shock absorber. A (* p. 52)

Adjusting the riding sag 🔌

MMMMMMM	
	B00292-10

- − Remove shock absorber. ◀ (♥ p. 52)
- After removing the shock absorber, clean it thoroughly.
- Choose and mount a suitable spring.

Guideline	
Spring rate	
Weight of rider: 65 75 kg (143 165 lb.)	69 N/mm (394 lb/in)
Weight of rider: 75 85 kg (165 187 lb.)	72 N/mm (411 lb/in)
Weight of rider: 85 95 kg (187 209 lb.)	76 N/mm (434 lb/in)

lnfo

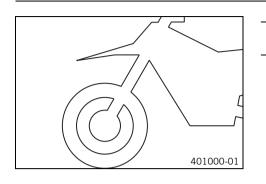
The spring rate is shown on the outside of the spring. Smaller weight differences can be compensated by changing the spring preload.

- − Install the shock absorber. ◀ (♥ p. 52)

Checking basic setting of fork

• Info

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

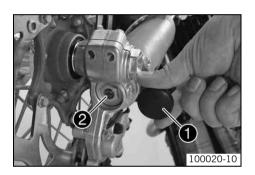


- As with the shock absorber, smaller differences in the rider's weight can be compensated by the spring preload.
- However, if the fork is often overloaded (hard end stop on compression), harder springs must be fit to avoid damage to the fork and frame.

Adjusting the compression damping of the fork

• Info

The hydraulic compression damping determines the fork suspension behavior.



- Remove protection caps ①.
- Turn adjusting screws 2 clockwise all the way.



The adjusting screws **2** are located at the bottom end of the fork legs. Make the same adjustment on both fork legs.

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

Compression damping	
Comfort	26 clicks
Standard	22 clicks
Sport	18 clicks

• Info

(

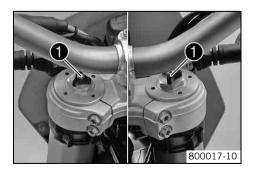
Turn clockwise to increase damping, turn counterclockwise to reduce suspension damping.

Mount protection covers ①.

Adjusting the rebound damping of the fork

• Info

The hydraulic rebound damping determines the fork suspension behavior.



- Turn adjusting screws ① clockwise until they stop.

lnfo

Adjusting screws **1** are located at the top end of the fork legs. Make the same adjustment on both fork legs.

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

Rebound damping	
Comfort	24 clicks
Standard	20 clicks
Sport	20 clicks

Info

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

Adjusting spring preload of the fork



Turn the adjusting screws counterclockwise until they stop.

Info

Make the same adjustment on both fork legs.

Turn back clockwise the number of turns corresponding to the fork type.

Guideline

Spring preload - Preload Adjuster	
Comfort	0 turn
Standard	2 turns
Sport	4 turns

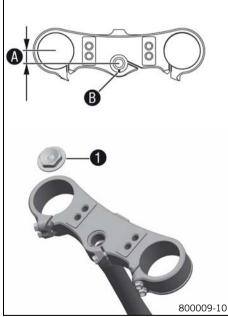
Info

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

Adjusting the spring preload has no influence on the absorption setting of the rebound damping.

Basically, however, you should set the rebound damping higher with a higher spring preload.

Fork offset (XC-W SIX DAYS)



You can see the currently set offset if you remove screw $\mathbf{0}$.

The fork offset **()** has an impact on the handling of the vehicle. It is calculated from the center of the fork leg to the center of the steering head bearing. The fork offset can optionally be adjusted.

Marking **B** to the front gives greater stability on fast racetracks.

Fork offset

Front marking	18 mm (0.71 in)
---------------	-----------------

Marking ⁽³⁾ to the rear (condition at delivery) gives better handling in bends.

20 mm (0.79 in)

Fork offset

Rear marking



Setting the fork offset 🔌 (XC-W SIX DAYS)



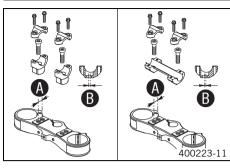
- Remove the lower triple clamp. \checkmark (* p. 46)
- Remove screw **1**. Remove the steering stem. _
- Clean the parts and check for damage.
- Rotate the steering stem 180° and insert into the triple clamp. Mount and tighten screw 0.

Guideline

Screw, bottom steering head	M20x1.5	60 Nm (44.3 lbf ft)	Loctite [®] 243™
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Install the lower triple clamp. \checkmark (* p. 46)

Handlebar position



On the upper triple clamp, there are 2 holes at a distance of $oldsymbol{0}$ to each other.			
Distance I between holes 15 mm (0.59 in)			
The holes on the handlebar support are placed at a distance of $oldsymbol{0}$ from the center.			
Distance 6 between holes 3.5 mm (0.138 in)			
The handlebar supports can be mounted in 4 different positions.			

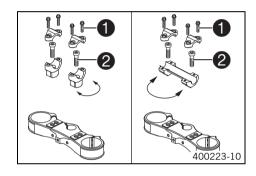
Adjusting handlebar position 🔌

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 clamps. Remove the handlebar and lay it to one side.

Info

Protect the motorcycle and its attachments against 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. Fit and tighten the two screws _ 0.

Guideline

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

Position the left and right handlebar supports evenly.

Position the handlebars.

Info Ĕ

Make sure cables and wiring are positioned correctly.

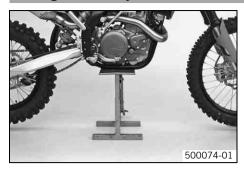
Position the handlebar clamps. Fit and evenly tighten the four screws **①**. _

Guideline

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

Make sure the gap width is even.

Raising the motorcycle with 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.
- Raise the motorcycle at the frame underneath the engine.
 - Lift stand (54829055000)
 - The wheels should no longer touch the ground.
- Secure the motorcycle against falling over.

Removing the motorcycle from the lift stand

Note

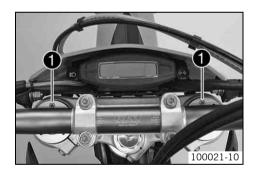
Danger of damage The parked vehicle may roll away or fall over.

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



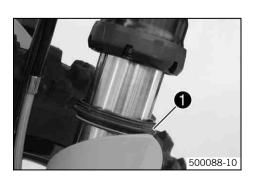
- Remove the motorcycle from the lift stand.
- Remove the lift stand.
- To park the motorcycle, press the side stand \bullet to the ground with your foot and lean the motorcycle on it.
 - When you are riding, the side stand must be folded up and secured with the rubber band.

Bleeding fork legs



- Remove bleeder screws **1** briefly.
 - \checkmark Any excess pressure escapes from the interior of the fork.
- Mount and tighten bleeder screws.
- Remove the motorcycle from the lift stand. (* p. 43)

Cleaning the dust boots of the fork legs



- Raise the motorcycle with the lift stand. (\checkmark p. 43)
- Loosen the fork protector. (* p. 44)
- Push dust boots **1** of both fork legs downwards.

Info

The dust boots should remove dust and coarse dirt particles from the fork tubes. Over time, there is an ingress of dirt inside the boots. If this dirt is not removed, it may cause the oil seals to leak.



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. 116)

- Press the dust boots back into their normal position.
- Remove excess oil.
- Position the fork protector. (* p. 44)

Loosening the fork protector



Remove screws ① and remove the clamp.

- Remove screws **2** on the left fork leg. Push the fork protector downwards.
- Remove the screws on the right fork leg. Push the fork protector downwards.

Positioning the fork protector



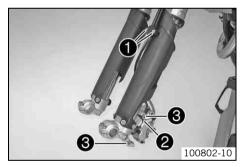
Removing the fork legs 🔌

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

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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- Position the brake line and wiring harness. Put the clamp on, and mount and tighten screws ②.
- Position the fork protector on the right fork leg. Mount and tighten the screws.
 Guideline

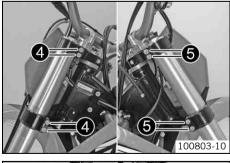
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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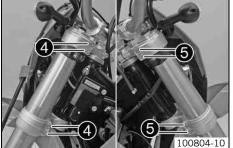


- − Remove front wheel. ◄ (♥ p. 73)
- Remove screws ① and remove the clamp.
- Remove cable clip ❷, remove screw ❸ and remove the brake caliper.
- Allow the brake caliper and brake line to hang tension-free to the side.

(EXC Factory Edition, EXC SIX DAYS, XC-W SIX DAYS)

- Unscrew screws 4. Take out the left fork leg.
- Unscrew screws **6**. Take out the right fork leg.

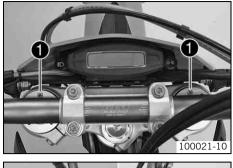


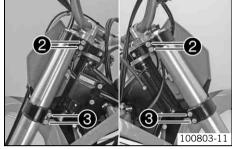


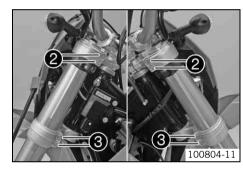
(EXC EU/AUS)

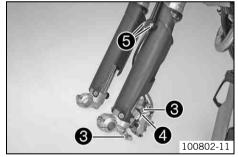
- Unscrew screws 4. Take out the left fork leg.
- Unscrew screws **6**. Take out the right fork leg.

Installing fork legs 🔌

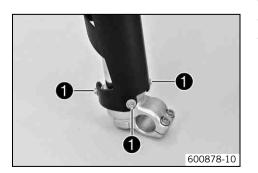








Removing the fork protector 🔌



Position the fork legs.

Info

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- The topmost milled groove in the fork leg must be flush to the upper edge of the upper triple clamp.
 - Position bleeder screws 1 toward the front.

(EXC Factory Edition, EXC SIX DAYS, XC-W SIX DAYS)

– Fully tighten screw **2**.

Screw, top triple clamp	M8	17 Nm (12.5 lbf ft)
ighten screws 3 .		
auideline		
	M8	12 Nm

(EXC

Fully tighten screw 2. Guideline Μ8 20 Nm Screw, top triple clamp (14.8 lbf ft)

Tighten screws 8. _

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

Position brake caliper, mount and tighten screws **③**.

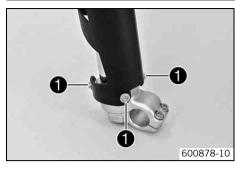
Guideline

_

Screw, front brake caliper	M8	25 Nm	Loctite [®] 243™
		(18.4 lbf ft)	

- Mount cable clip 4.
- Position the brake line and wiring harness. Put the clamp on, mount and tighten _ screws 6.
- Install the front wheel. 🔌 (🕶 p. 73)
- Remove the fork legs. 🔌 (🕶 p. 44) _
- Remove screws **1** on the left fork leg. Remove the fork protector upwards. _
- Remove the screws on the right fork leg. Remove the fork protector upwards. _

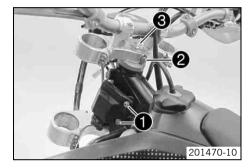
Installing the fork protector 🔌

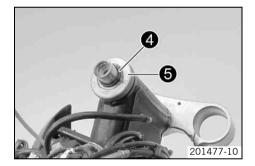


-	Position the fork protection on the left fork leg. Mount and tighten screws $oldsymbol{0}$.				
Guideline					
	Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)		
-	 Position the fork protection on the right fork leg. Mount and tighten the screws. Guideline 				
	10 Nm (7.4 lbf ft)				
_	Install the fork legs. 🔌 (🕶 p. 45)				

Removing the lower triple clamp 🔌 (EXC Factory Edition, EXC SIX DAYS, XC-W SIX DAYS)

- Remove the fork legs. 🔌 (🕶 p. 44)
- Remove the front fender. (* p. 52)
- Remove screws **1** and hang the CDI control unit to the side.





Info

Do not unplug the CDI control unit.

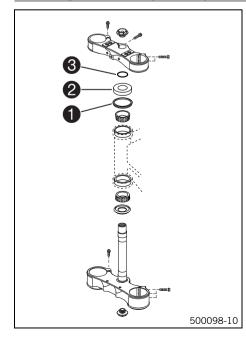
- Remove screw **2**. Remove screw **3**, take off the top triple clamp with the handlebar, and place it on one side.



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

- Remove O-ring **4**. Remove protective ring **6**.
- Take out the lower triple clamp with the steering stem.
- Take out the upper steering head bearing.

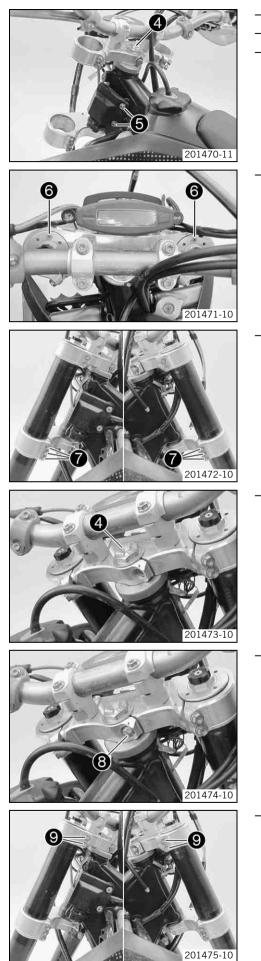
Installing the lower triple clamp 🔌 (EXC Factory Edition, EXC SIX DAYS, XC-W SIX DAYS)



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

High viscosity grease (🕶 p. 115)

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



- Position the upper triple clamp with the steering.
- Mount screw ④ but do not tighten yet.
- Position the clutch line, wiring harness, and CDI control unit. Mount and tighten screws ⁶.

Guideline

Remaining screws, chassis M	V16	10 Nm (7.4 lbf ft)
-----------------------------	-----	--------------------

Position the fork legs.



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

Position bleeder screws ⁽⁶⁾ toward the front.

Tighten screws 🕖.

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

Tighten screw 🕘.

Guideline		
Screw, top steering head	M20x1.5	10 Nm (7.4 lbf ft)

Mount and tighten screw **1**.

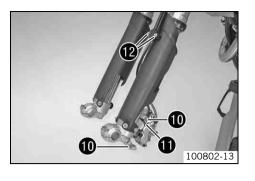
Guideline

	-		
Screw, top steering stem	M8	17 Nm	Loctite [®] 243™
		(12.5 lbf ft)	

Tighten screws 🕑.

Guideline

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



Position the brake caliper. Mount and tighten screws **(0**.

Screw, front brake caliper	M8	25 Nm (18.4 lbf ft)	Loctite [®] 243™
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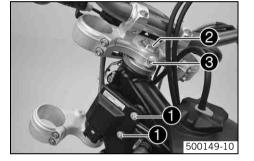
Mount cable binder **①**.

Guideline

- Position the brake line, wiring harness, and clamp. Mount and tighten screws **@**.
- Install the front fender. (* p. 52) _
- Refit the headlight mask with the headlight. (* p. 81) _
- Install the front wheel. 🔌 (🕶 p. 73)
- Check that the wiring harness, cables, and brake and clutch lines can move freely and are routed correctly.
- Check the steering head bearing play. (* p. 50) _

Removing the lower triple clamp \checkmark (EXC EU/AUS)

- _ Remove the headlight mask with the headlight. (* p. 80)
- Remove the fork legs. 🔌 (🕶 p. 44) _
- Remove the front fender. (***** p. 52) _
 - Remove screws **1** and hang the CDI control unit to the side.



500150-10

Info Do not unplug the CDI control unit.

Remove screw **2**. Loosen screw **3**. Take off the top triple clamp with the handlebar and set it aside.



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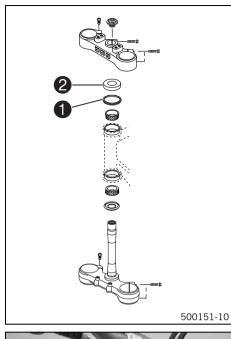
Info

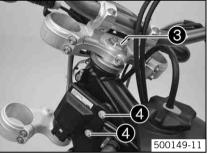
Protect the motorcycle and its attachments against damage by covering them. Do not bend the cables and lines.

- Remove protector ring **4**.
- Take out the lower triple clamp with the steering stem. _
- Take out the upper steering head bearing. _

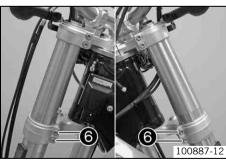
48

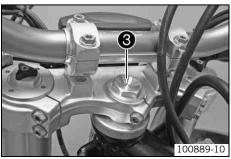
Installing the lower triple clamp 🔌 (EXC EU/AUS)











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

High viscosity grease (***** p. 115)

- Insert the lower triple clamp with the steering stem. Mount the upper steering head _ bearing.
- Check whether the top steering head seal **1** is correctly positioned. _
- Push on protective ring 2.

- Position the upper triple clamp with the steering. _
- Mount screw ⁽³⁾ but do not tighten yet.
- Position the clutch line, wiring harness, and CDI control unit. Mount and tighten screws 4. Guideline

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

Position the fork legs.

Info

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

Position bleeder screws **9** toward the front.

Fully tighten screws 6.

Guideline

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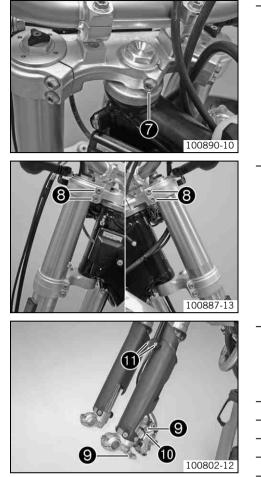
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Screw, bottom triple clamp	M8	15 Nm
		(11.1 lbf ft)

Tighten screw **3**.

Guideline

	Screw, top steering head	M20x1.5	10 Nm (7.4 lbf ft)
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Tighten screw 🛛.

Guideline

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

Fully tighten screws **③**.

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

- Position the brake caliper. Mount and tighten screws **9**.

Guideline

Screw, front brake caliper	M8	25 Nm (18.4 lbf ft)	Loctite [®] 243™
----------------------------	----	------------------------	---------------------------

- Mount cable binder [®].
- Position the brake line, wiring harness, and clamp. Mount and tighten screws ①.
 Install the front fender. (p. 52)
- Refit the headlight mask with the headlight. (***** p. 81)
- Install the front wheel. 🔌 (🖛 p. 73)
- Check that the wiring harness, cables, and brake and clutch lines can move freely and are routed correctly.
- Check the steering head bearing play. (* p. 50)

Checking the steering head bearing play



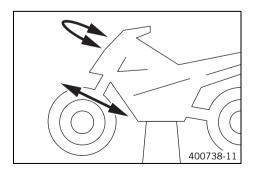
Warning

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.)

Info

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.



- Raise the motorcycle with the lift stand. (* p. 43)
- 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:

(EXC EU/AUS)

- Adjust play of the steering head bearing. A (* p. 51)
- 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:

(EXC Factory Edition, EXC SIX DAYS, XC-W SIX DAYS)

– Adjust play of the steering head bearing. 🔌 (🕿 p. 51)

(EXC EU/AUS)

- Adjust play of the steering head bearing. A (* p. 51)
- Check the steering head bearing and replace if required.

Adjusting play of steering head bearing 🔌 (EXC Factory Edition, EXC SIX DAYS, XC-W SIX DAYS)

- Raise the motorcycle with the lift stand. (***** p. 43)
- Loosen screw **1**. Remove screw **2**.
- Loosen and retighten screw **3**.

Guideline

Screw,	top steering	head		M20x1.5	10 Nm	n (7.4	bf ft)

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

Fully tighten screw **①**. Guideline

M8	17 Nm (12.5 lbf ft)
	M8

Mount and tighten screw 2.

Guideline

Screw, top steering stem M8 17 Nm (12.5 lbf ft) Loctite [®] 243 [™]

- Check the steering head bearing play. (* p. 50)

Adjusting play of steering head bearing 🔌 (EXC EU/AUS)

- Raise the motorcycle with the lift stand. (* p. 43)
- Loosen screws **1** and **2**.
- Loosen and retighten screw **③**.

Guideline		
Screw, top steering head	M20x1.5	10 Nm (7.4 lbf ft)

- Using a plastic hammer, tap lightly on the upper triple clamp to avoid strains.
- Fully tighten screw ①.

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

- Tighten screw 🛛.

Guideline

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

Check the steering head bearing play. (* p. 50)

Greasing the steering head bearing $\boldsymbol{\triangleleft}$

(EXC Factory Edition, EXC SIX DAYS, XC-W SIX DAYS)

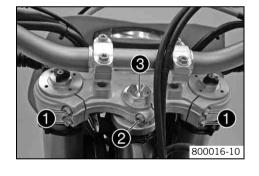
- Remove the lower triple clamp.

 (* p. 46)
- Install the lower triple clamp. ◀ (♥ p. 46)

(EXC EU/AUS)

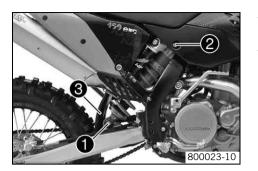
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- Remove the lower triple clamp. A (* p. 48)
- Install the lower triple clamp. 🔌 (🕶 p. 49)

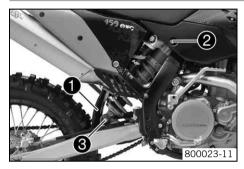


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	Y
	76-10

Removing the shock absorber 🔌



Installing the shock absorber 🔌



- Raise the motorcycle with the lift stand. (p. 43)
 - Remove screw **①** and lower the rear wheel with the swing arm as far as possible without blocking the rear wheel. Fix the rear wheel in this position.
- Remove screw **2**, push splash protector **3** to the side, and remove the shock absorber.

Push splash protector \bullet to the side and position the shock absorber. Mount and tighten screw @.

Guideline

Screw, top shock absorber	M12	80 Nm (59 lbf ft)	Loctite [®] 2701
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- Mount and tighten screw **6**.

Guideline

Screw, bottom shock M12 absorber	80 Nm (59 lbf ft)	Loctite [®] 2701
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• Info

The heim joint for the shock absorber at the swing arm is Teflon coated. It must not be greased with grease or with other lubricants. Lubricants dissolve the Teflon coating, thereby drastically reducing the service life.

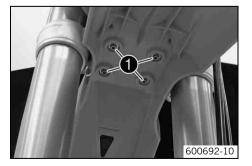
Remove the motorcycle from the lift stand. (* p. 43)

Removing the front fender



- Remove screws **①**. Remove the front fender.
- Make sure the spacers remain in place.

Installing the front fender



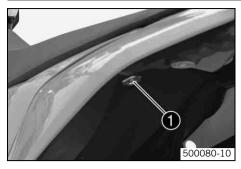
- Ensure that the spacers are mounted in the fender.
- Position the front fender. Mount and tighten screws ①.
 Guideline

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

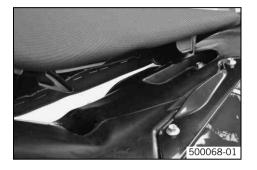
Info

Make sure the holding lugs engage in the start number plate or headlight mask.

Removing the seat



Mounting the seat



Remove screw 1.

_

Lift up the seat at the rear, pull it back and then remove it from above.

- Hook in the front of the seat at the collar sleeve of the fuel tank, lower it at the rear and simultaneously push it forward.
- Make sure that the seat is correctly locked in.
- Mount and tighten the screw of the seat fixing.
 Guideline

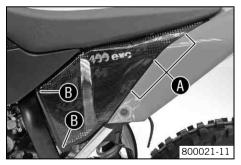
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)

Removing the air filter box lid



- Pull off the air filter box lid in area () to the side and remove to the front.





Insert the air filter box lid into the rear area $oldsymbol{0}$ and clip it into the front area $oldsymbol{0}$.

Removing the air filter \boldsymbol{A}

Note

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

_

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



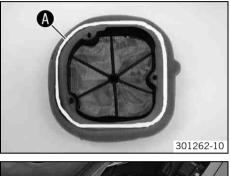
Environmental hazard Hazardous substances cause environmental damage.

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



- Detach air filter holder \bullet at the bottom and swing it to one side. Remove the air filter with the air filter support.
- Remove the air filter from the air filter support.

Installing the air filter 🔧





- Mount the clean air filter onto the air filter support.

Long-life grease (🕶 p. 115)

- \bullet Put in both parts together, position them and fix them with air filter holder $oldsymbol{0}$.
 - Info
 - If the air filter is not correctly mounted, dust and dirt can penetrate into the engine and can cause damage.
- Install the air filter box lid. (🕶 p. 53)

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.

•

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



- Remove the air filter. A (* p. 53)
- Wash the air filter thoroughly in special cleaning liquid and allow it to dry properly.

Air filter cleaner (* p. 115)

Info

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

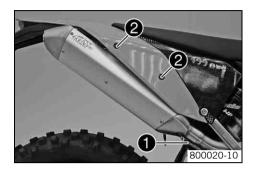
Oil the dry air filter with a high quality filter oil.

Oil for foam air filter (* p. 115)

- Clean the air filter box.
- Check the carburetor connection boot for damage and firm seating.
- Install the air filter. 🔌 (🕶 p. 54)

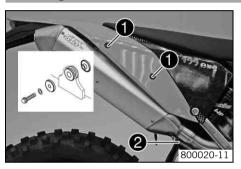
Removing main silencer

- 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.



- Disconnect spring **1**.
- Remove screws 2 and take off main silencer.

Installing the main silencer



_	Mount the main silencer. Mount and tight	en screws 1 .	
	Guideline		
	Remaining screws, chassis	M6	10 Nm

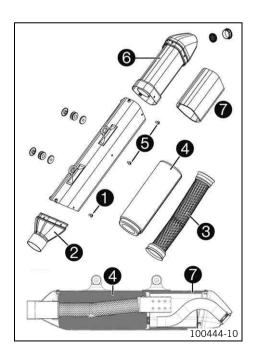
Reconnect spring 2.

Changing the glass fiber yarn filling of the main silencer 🔧

Warning

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

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



Remove the main silencer. (* p. 55)

(All EXC models)

Remove screws 1 of connecting cap 2.

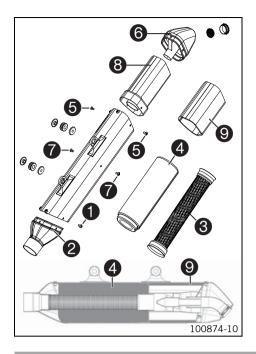
- Remove screws **3** and take off silencer cap **6** with stuffing yarn **7**.
- Mount the new stuffing yarn **1** on silencer cap **3** and fix it with adhesive tape.
- Position the end cap. Mount and tighten the screws.
- Insert the perforated piping and mount the new glass fiber yarn filling using a blunt tool.

Tip

To aid you in mounting the glass fiber yarn filling, you can create a wooden or metal cone piece that is inserted into the perforated piping.

- Position the connection cap. Mount and tighten the screws.

(7.4 lbf ft)



(XC-W SIX DAYS)

- Remove screws ① of connecting cap ②.
- Remove screws **6** and end cap **6**.
- Remove screws **1** and take off spark arrestor **3** with stuffing yarn **9**.
- Mount the new stuffing yarn on spark arrestor **3** and fix it with adhesive tape.
- Position the spark arrestor. Mount and tighten the screws.
- Position the end cap. Mount and tighten the screws.
- Insert the perforated piping and mount the new glass fiber yarn filling using a blunt tool.



To aid you in mounting the glass fiber yarn filling, you can create a wooden or metal cone piece that is inserted into the perforated piping.

- Position the connection cap. Mount and tighten the screws.
- Install the main silencer. (* p. 55)

Removing the fuel tank 🔌



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.

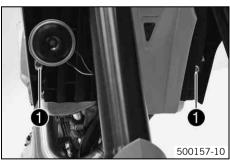


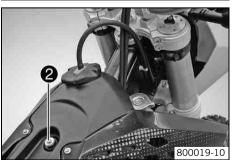
Warning

Danger

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.





- Turn handle **1** of the fuel tap to the **OFF** position. (Figure 500137-10 ***** p. 22)
- Pull off the fuel hose.

e Info

Remaining fuel may flow out of the fuel hose.

Remove screws **1** with the collar sleeve.

(All EXC models)

- Hang the horn and horn bracket to one side.
- Remove screw 2 with the collar sleeve.
- Remove the tube from the fuel tank vent line.



Pull both spoilers to the side of the radiator bracket ③ and take the fuel tank away upward.

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.

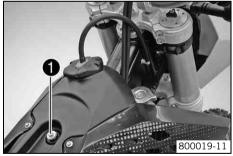


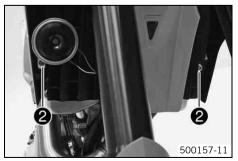
Warning

Danger of poisoning Fuel is poisonous and a health hazard.

Avoid contact 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.







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

- Mount the fuel tank vent hose.
- Mount and tighten screw
 with the collar sleeve.
 Guideline

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

(All EXC models)

- Position the horn with the horn bracket.

Mount and tighten screws ② with the collar sleeve.

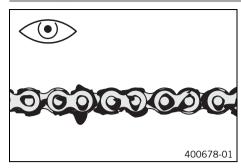
Guideline

Remaining screws, chassis Mi6 10 Nm (7.4 lbi lt)	Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
--------------------------------------------------	---------------------------	----	--------------------

Connect the fuel hose.

Mount the seat. (🕶 p. 53)

Checking for chain dirt accumulation



- Check the chain for coarse dirt accumulation.
 - » If the chain is very dirty:
 - Clean the chain. (* p. 58)

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.



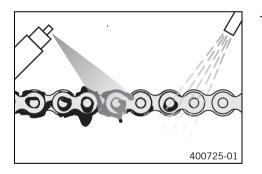
Warning

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. 115) Off-road chain spray (p. 115)

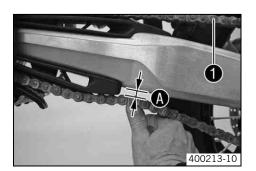
Checking the chain tension



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.



- - Push the chain up at the rear edge of the chain guide to measure the chain tension \boldsymbol{Q} .



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

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

Chain tension	8 10 mm (0.31 0.39 in)

- » If the chain tension does not meet specifications:
 - Adjust the chain tension. (* p. 59)
- Remove the motorcycle from the lift stand. (* p. 43)

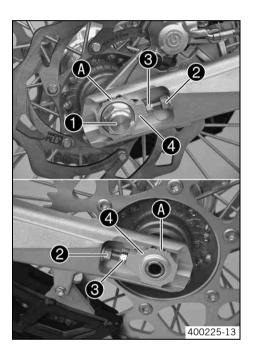
Adjusting the chain tension



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.



- Check the chain tension. (* p. 58)
- Loosen nut 1.
- Loosen nuts 2.
- Adjust the chain tension by turning the adjusting screws ⁽³⁾ left and right. Guideline

Chain tension	8 10 mm (0.31 0.39 in)	
Turn adjusting screws ③ on the left and right so that the markings on the left and right chain adjusters are in the same position relative to reference marks ④. The rear wheel is then correctly aligned.		

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

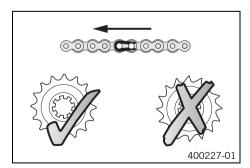
Guideline

Nut, rear wheel spindleM20x1.580 Nm (59 lbf ft)

• Info

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

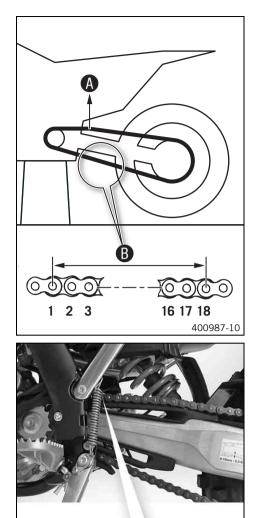
Checking the chain, rear sprocket, engine sprocket and chain guide

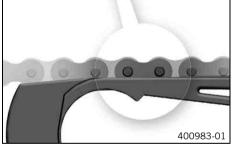


- - Shift gear to neutral.
- Check the rear sprocket and engine sprocket for wear.
 - » If the rear sprocket or engine sprocket is worn:
 - Change the rear sprocket or engine sprocket. 🔌



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







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

- Measure the distance **3** of 18 chain links in the lower chain section.

lnfo

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

chain section	
---------------	--

- » If the distance $\ensuremath{\mathfrak{G}}$ is greater than the specified measurement:
- Change the chain. 🔌



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

New chains wear out faster on old, worn sprockets.

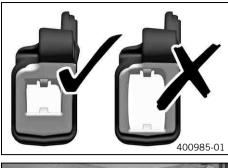
- Check the chain sliding guard for wear.
 - » If the bottom edge of the chain bolt is in line with or below the chain sliding guard:
 - Change the chain sliding guard. 🔌
- Check that the chain sliding guard is firmly seated.
 - » If the chain sliding guard is loose:
 - Tighten the chain sliding guard.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

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

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

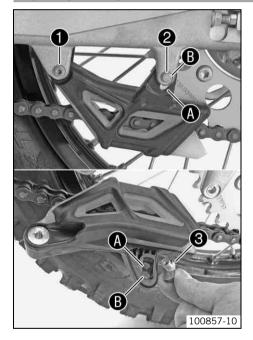
Guideline

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





Adjusting chain guide 🔌



Check the chain guide for wear.

lnfo

Wear is visible on the front of the chain guide.

- » If the light part of the chain guide is worn:
 - Change the chain guide. 🔌
- Check that the chain guide is firmly seated.
 - » If the chain guide is loose:
 - Tighten the chain guide.

Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
Remaining nuts, chassis	M6	15 Nm (11.1 lbf ft)

- Remove the motorcycle from the lift stand. (* p. 43)
- Remove the nut of screw ①.
- Remove screws 1 and 2. Take off the chain guide.

Condition

Number of teeth: \leq 44 teeth

- Insert nut **③** in hole **④**. Position the chain guide.
- Mount and tighten screws ① and ②.
 Guideline

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

Mount the nut on screw $oldsymbol{0}$ and tighten.

Remaining nuts, chassis	M6	15 Nm
_		(11.1 lbf ft)

Condition

_

Number of teeth: \geq 45 teeth

Guideline

- Insert nut **③** in hole **⑤**. Position the chain guide.
- Mount and tighten screws and ②.
 Guideline
 Remaining screws, chassis
 M6
- Mount the nut on screw ① and tighten it.

Guideline		
Remaining nuts, chassis	M6	15 Nm (11.1 lbf ft)

10 Nm

(7.4 lbf ft)

Checking the throttle cable routing

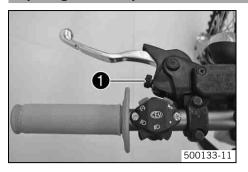


- Remove the fuel tank. A (* p. 56)
- Check the throttle cable routing.

Both throttle cables must be routed to the carburetor side by side behind the handlebars and above the tank bearing.

- » If the throttle cable is not routed as specified:
 - Correct the throttle cable routing.
- 🗉 Install the fuel tank. 🔌 (🕶 p. 57)

Adjusting the basic position of the clutch lever



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

• 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

A

Warning

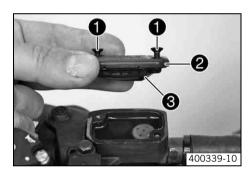
Skin irritation Brake fluid can cause skin irritation on contact.

- 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.

e Info

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

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



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

Fluid level 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.

Brake fluid DOT 4 / DOT 5.1 (* p. 113)

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

Info

Clean up overflowed or spilt fluid immediately with water.

Changing the hydraulic clutch fluid 🔌

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.



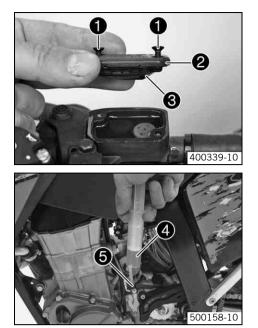
Environmental hazard Hazardous substances cause environmental damage.

- 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.

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



- Move the clutch fluid reservoir mounted on the handlebar to a horizontal position.
- Remove screws 0.
- Remove cover **2** with membrane **3**.
- Fill bleeding syringe **4** with the appropriate hydraulic fluid.

Bleed syringe (50329050000)
Brake fluid DOT 4 / DOT 5.1 (* p. 113)

- On the slave cylinder, remove bleeder screw **③** and mount bleeding syringe **④**.
- Inject the liquid into the system until it escapes from bore 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 membrane. Mount and tighten the screws.

• Info Clea

400340-10

Clean up overflowed or spilt fluid immediately with water.

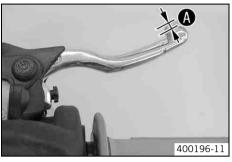
Checking free travel of hand brake lever



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.





(XC-W SIX DAYS)

- Push the hand brake lever forwards and check free travel ().

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

- » If the free travel does not meet specifications:
 - Adjust the basic position of the hand brake lever. (* p. 64)

(All EXC models)

- Push the hand brake to the handlebar and check free travel ().

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

» If the free travel does not meet specifications:

Adjusting the basic position of the hand brake lever (XC-W SIX DAYS)

_

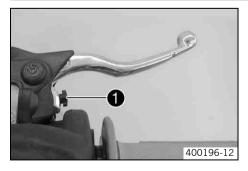


Check the free travel of the hand brake lever. (♥ p. 64) Adjust the basic setting of the hand brake lever to your hand size by turning adjusting screw ●.

lnfo

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!

Adjusting free travel of hand brake lever (All EXC models)



- Check the free travel of the hand brake lever. (* p. 64)
- Adjust the free travel of the hand brake lever with adjusting screw $oldsymbol{0}$.

Info

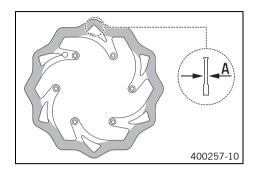
-	lino
	Turn the adjustment screw clockwise to reduce free travel. The pressure
	point moves away from the handlebar.
	Turn the adjustment screw counterclockwise to increase free travel. The pressure point moves towards the handlebar.
	The range of adjustment is limited.
	Turn the adjusting screw by hand only, and do not apply any force. Do not make any adjustments while riding!

Checking the brake discs

Warning

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

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



Check the thickness of the front and rear brake discs at several places on the disk to see if it conforms to measurement **(3**).

Info

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

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

- » If the brake disc thickness is less than the specified value:
 - Change the brake disc.

- Check the front and rear brake discs for damage, cracking and deformation.

- If the brake disc shows signs of damage, cracking or deformation:
 - Change the brake disc.

Checking the brake fluid level of the front brake

Warning

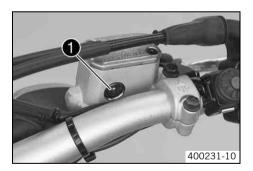
Danger of accidents Failure of the brake system.

- 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.)



- Move the brake fluid reservoir mounted on the handlebar to a horizontal position.
- Check the brake fluid level in viewer $oldsymbol{0}$.
 - » If the brake fluid is below the MIN mark:
 - Add front brake fluid. 🔌 (🕶 p. 65)

Adding front brake fluid 🔌

Warning Danger of

Danger of accidents Failure of the brake system.

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

Warning

Skin irritation Brake fluid can cause skin irritation on contact.

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



Warning

Danger of accidents Reduced braking 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

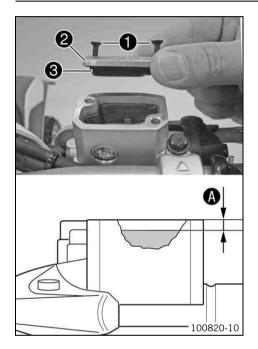
Environmental hazard Hazardous substances cause environmental damage.

- 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**.
- Add brake fluid to level 🚯.

Guideline	
Dimension () (brake fluid level below top edge of container)	5 mm (0.2 in)

Brake fluid DOT 4 / DOT 5.1 (* p. 113)

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

• Info

Clean up overflowed or spilt brake fluid immediately with water.

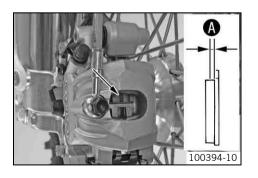
Checking the front brake linings



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.)



Minimum thickness 🚯	≥ 1 mm (≥ 0.04 in)
» If the minimum thickness is less than specified:	
– Change the front brake linings. 🔌 (🕶 p. 67)	
Check the brake linings for damage and cracking.	

- » If damage or cracking is visible:
 - Change the front brake linings. 🔌 (🕶 p. 67)

Changing the front brake linings 🔌

- Danger of accident Brake system failure.
- Maintenance work and repairs must be carried out professionally. (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.

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

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.

Warning

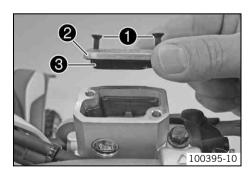
Environmental hazard Hazardous substances cause environmental damage.

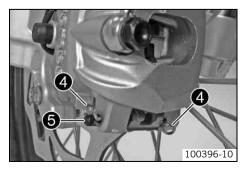
- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.

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.



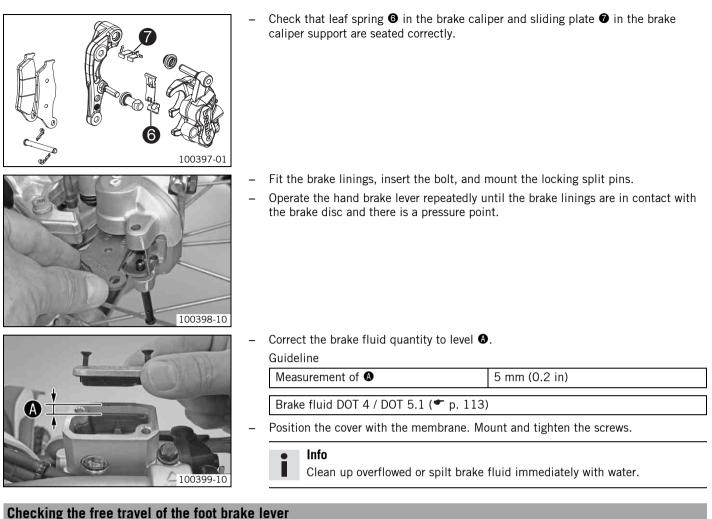


- Move the brake fluid reservoir mounted on the handlebar to a horizontal position.
- Remove screws ①
- Remove cover 2 with membrane 3.
- Press the brake caliper by hand on to the brake disc in order to press back the brake pistons. Ensure that brake fluid does not overflow from the brake fluid reservoir, using suction to remove it if it does.

Info

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

- Remove locking split pins 4, withdraw bolt 5, and take out the brake linings.
- Clean the brake caliper and brake caliper support.

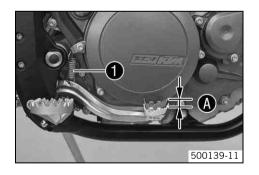


checking the nee travel of the foot brake i

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 backwards and forwards between the end stop and the foot brake cylinder piston bracket and check free travel \mathbf{Q} .

Guideline

Free travel at foot brake lever	3 5 mm (0.12 0.2 in)
» If the free travel does not meet specifications:	

- Adjust the basic position of the foot brake lever. 🔌 (🕶 p. 68)
- Reconnect spring ①.

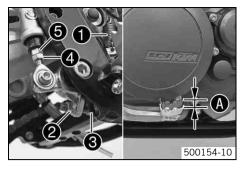
Adjusting the basic position of the foot brake lever 🔧



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.



- Disconnect spring ①.
- Loosen nut ④ and, with push rod ⑤, turn it back until you have maximum free travel.
- To adjust the basic position of the foot brake lever individually, loosen nut 2 and turn screw 3 accordingly.

Info

The range of adjustment is limited.

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

Guideline

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

- Hold screw 3 and tighten nut 2.

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

- Hold push rod 🛛 and tighten nut 🕘.

Guideline

Remaining nuts, chassis	M6	15 Nm	
-		(11.1 lbf ft)	

Reconnect spring ①.

Checking rear brake fluid level



Warning

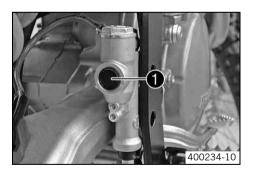
Danger of accidents Failure of the brake system.

 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.)



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 sight glass **①**.
 - If there is an air bubble in the sight glass **1** visible:
 - Add brake fluid to the rear brake circuit. 🔌 (🕶 p. 69)

Adding brake fluid to the rear brake circuit 🔌



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.)



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

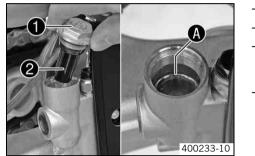
Environmental hazard Hazardous substances cause environmental damage.

- 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.



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

Brake fluid DOT 4 / DOT 5.1 (* p. 113)

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

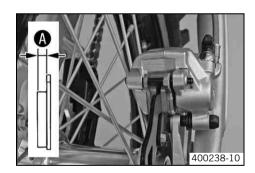


Checking rear brake linings

Warning

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

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



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

- Change the rear brake linings. ◄ (♥ p. 70)
- Check the brake linings for damage and cracking.
- » If damage or cracking is visible:
 - Change the rear brake linings. 🔌 (🕶 p. 70)

Changing the 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.)



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.)

BRAKES



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.



Warning

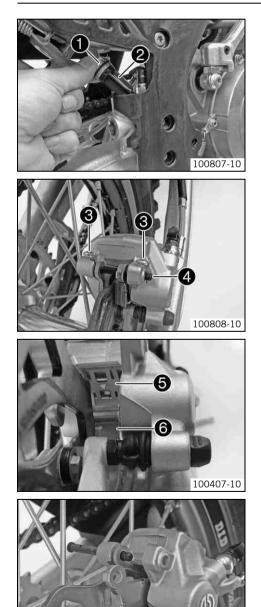
Environmental hazard Hazardous substances cause environmental damage.

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

e 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.



100408-01

- Stand the vehicle upright.
- Push the brake piston back to its basic position and ensure that brake fluid does not flow out of the brake fluid reservoir, sucking it away if it does.

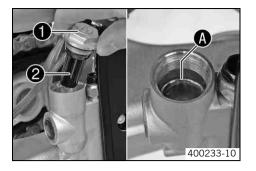
• Info

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

- Remove locking split pins (3), withdraw bolt (4), and take out the brake linings.
- Clean the brake caliper and brake caliper support.

Check that leaf spring **③** in the brake caliper and sliding plate **③** in the brake caliper support are seated correctly.

- Fit the brake linings, insert the bolt, and mount the locking split pins.
- Operate the foot brake lever repeatedly until the brake linings are in contact with the brake disc and there is a pressure point.



- Correct the brake fluid reservoir level to the marking ().
 - Brake fluid DOT 4 / DOT 5.1 (* p. 113)
 - Mount the screw cap \bullet with the membrane \bullet and the O-ring.

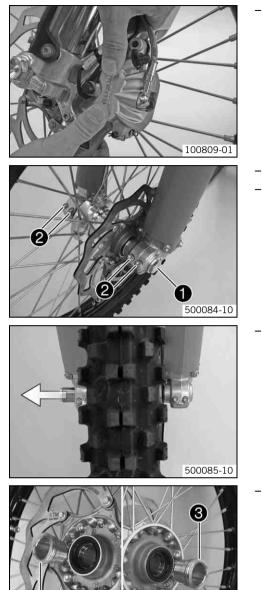
Info

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Clean up overflowed or spilt brake fluid immediately with water.

Removing front wheel 🔌



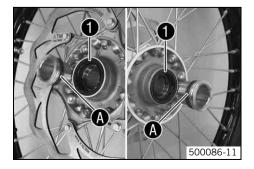
Installing the front wheel 🔌

Warning

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

500086-10

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



• Info

Raise the motorcycle with the lift stand. (***** p. 43)

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

Press the brake caliper by hand on to the brake disc in order to press back the

Remove screw **1**

brake pistons.

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Loosen screw 2.

- Holding the front wheel, withdraw the wheel spindle. Take the front wheel out of the fork.

Info

Do not operate 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.

Remove spacers ³.

- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is damaged or worn:
 - Change the wheel bearing. 🔌

Long-life grease (🕶 p. 115)

Insert the spacers.

73



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

Guideline

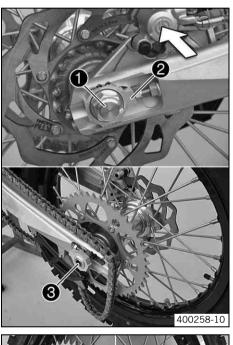
Screw, front wheel spindle	M24x1.5	45 Nm (33.2 lbf ft)					

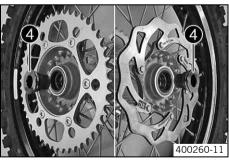
- Activate the hand brake lever multiple times until the brake linings are in contact with the brake disc.
- Remove the motorcycle from the lift stand. (* p. 43)
- Pull the front wheel brake and push down hard on the fork several times to align the fork legs.
- Fully tighten screw ³.

Guideline

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

Removing the rear wheel 🔌





- - Press the brake caliper by hand on to the brake disc in order to press back the brake piston.



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

Remove nut 1.

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

Remove spacers 4.

Installing the rear wheel 🔌

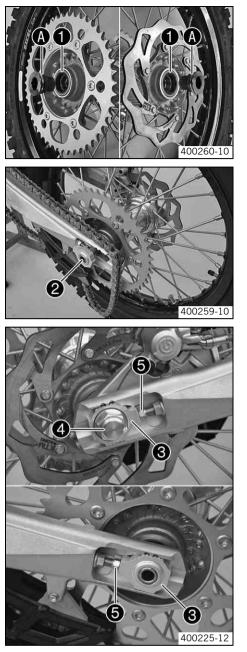


Warning

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

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

WHEELS, TIRES



- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is damaged or worn:
 - Change the wheel bearing. 🔌
- Clean and grease shaft seal rings $oldsymbol{0}$ and bearing surface $oldsymbol{0}$ of the spacers.

Long-life grease (* p. 115)

- Insert the spacers.
- Lift the rear wheel into the swing arm, position it, and insert the wheel spindle 2.
 Put the chain on.

- Position chain adjuster **③**. Mount nut **④** but do not tighten it yet.
- Make sure that chain adjusters ③ are fitted correctly on adjusting screws ⑤.
- Check the chain tension. (* p. 58)
- Tighten nut 🕘.

Guideline

Nut, rear wheel spindle M20x1.5	80 Nm (59 lbf ft)
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Info

The wide adjustment range of the chain adjusters (32 mm (1.18 in)) enables different secondary ratios with the same chain length. Chain adjusters ③ can be turned by 180°.

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

Checking the tire condition

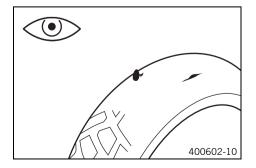
lnfo

Only mount tires 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 handling characteristics, especially on wet surfaces.



- Check the front and rear tires for cuts, run-in objects and other damage.
 - » If you find cuts, foreign bodies or other damage on a tire:
 - Change the tire.
- Check the depth of the tread.

Info

Note local national regulations concerning the minimum tread depth.

Minimum	n tre	ad o	dept	th			≥ 2	2 mn	n (≥	≥ 0.0)8 i	n)			
16.11															

» If the tread depth is less than the minimum allowable depth:

- Change the tire.
- Check the tire age.

Info

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

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

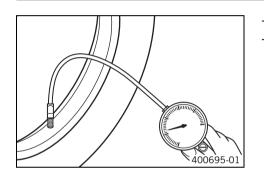
- » If the tire is older than five years:
 - Change the tire.

Checking tire air pressure

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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.



- Check tire air pressure when tires are cold.

Tire air pressure off road					
Front	1.0 bar (15 psi)				
Rear	1.0 bar (15 psi)				
Road tire pressure (All EXC models)					
Front	1.5 bar (22 psi)				
Rear	2.0 bar (29 psi)				

- If the tire pressure does not meet specifications:
- Correct the tire air pressure.
- Fit the dust cap.

Checking spoke tension

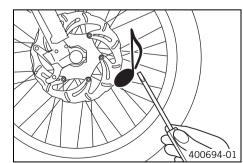
Warning

Danger of accidents Instable handling due to incorrect spoke tension.

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

Info

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



- Tap each spoke with a screwdriver.

lnfo

The sound frequency depends on the length and thickness of the spoke. If there are different sound frequencies in spokes with the same length and thickness, this indicates different spoke tensions.

You should hear a high note.

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

Guideline

dulucific		
Spoke nipple, front wheel	M4.5	5 6 Nm (3.7 4.4 lbf ft)
Spoke nipple, rear wheel	M5	5 6 Nm (3.7 4.4 lbf ft)

Torque wrench with various accessories in set (58429094000)

Removing the battery 🔌

Warning



- Risk of injury Battery acid and battery gases cause serious cauterization.
- Keep batteries out of the reach of children.
- Wear suitable protective clothing and goggles.
- Avoid contact with battery acid and battery gases.

500069-10

- Keep the battery away from sparks or open fire. Charge only in well ventilated rooms.
- Flush with copious amounts of water in case of skin contact. If battery acid comes into contact with the eyes, flush the
 eyes with water for at least 15 minutes and consult a physician.



- Disconnect the negative (minus) cable **1** of the battery.
- Pull back the positive terminal cover ② and disconnect the positive (plus) cable of the battery.
- Detach rubber band 3 at the bottom.
- Lift the battery up and out.

Installing the battery 🔌



Place the battery in the battery holder.

Battery (YTX5L-BS) (🕶 p. 108)

- Reconnect the rubber band **1**.
- Attach the plus cable and replace the plus pole cover 2.
- Attach the minus cable 6.

Recharging the battery



Warning

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

- Keep batteries out of the reach of children.
- Wear suitable protective clothing and goggles.
- Avoid contact with battery acid and battery gases.
- Keep the battery away from sparks or open fire. Charge only in well ventilated rooms.
- Flush with copious amounts of water in case of skin contact. If battery acid comes into contact with the eyes, flush the
 eyes with water for at least 15 minutes and consult a physician.

Warning

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

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

Warning

Environmental hazard Hazardous substances cause environmental damage.

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

Info

Even when there is no load on the battery, it still loses power steadily.

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

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

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

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

If the battery is left in a discharged state for an extended period, it will become over-discharged and sulfate, destroying the battery.

The battery is maintenance-free, which means that the acid level does not need to be checked.



Switch off all power consumers and switch off the engine.

- Disconnect the negative cable of the battery to avoid damage to the onboard electronics.
- Connect the battery charger to the battery. Switch on the battery charger.

Battery charger (58429074000)

You can also use the battery charger to test the open-circuit voltage and starting voltage of the battery, and to test the alternator. With this device, you cannot over-charge the battery.

Info

Never remove lid •.

Charge the battery with a maximum of 10% of the capacity specified on battery housing 2.

- Switch off the battery charger after charging. Disconnect the battery.

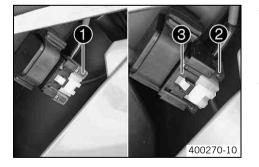
Guideline

The charge current, charge voltage and charge time must not be exceeded.Charge the battery regularly when the
motorcycle is not in use3 months

– Mount the seat. (🕶 p. 53)

Removing the main fuse

- Switch off all consumers and the engine.
- Remove the air filter box lid. (* p. 53)
- Remove protective cover ①.



lnfo

The main fuse 2 is located in starter relay 3 under the filter box cover.

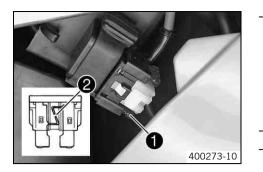
Remove main fuse 2.

Installing the main fuse

Warning

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

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



Insert the main fuse.

Fuse (58011109110) (* p. 108)

Info

A reserve fuse **●** is located in the starter relay. Replace a faulty fuse **②** by an equivalent fuse only.

Replace the protection cover.
Install the air filter box lid. (* p. 53)

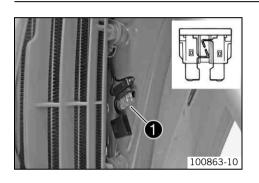
Changing the fuse of the radiator fan (EXC SIX DAYS, XC-W SIX DAYS)

Warning

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

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

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Take off the protection cap.



The radiator fan fuse $\mathbf{0}$ is in the area of the right-hand radiator.

- Remove the faulty fuse.
- Insert a new fuse.

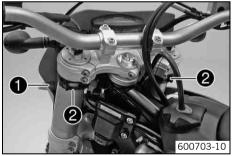
Fuse (58011109105) (🕶 p. 108)

Info

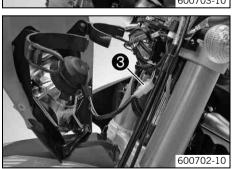
Replace a faulty fuse by an equivalent fuse only.

- Mount the protection cap.

Removing headlight mask with headlight

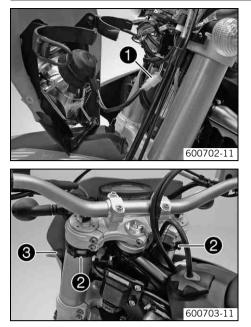


- Switch off all electrical equipment.
- Remove screw ① and take off clamp.
- Loosen the rubber band **2**. Push up the headlight mask and swing it forwards.



Pull out the electric plug connector ③ and remove the headlight mask with the headlight.

Refitting the headlight mask with the headlight



Connect the electric plug connector ①.

- Position the headlight mask and fix it with the rubber band $\boldsymbol{2}$.

lnfo

Ensure that the retaining lugs engage in the fender.

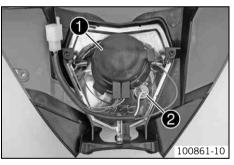
- Position the brake line and wiring harness. Put the clamp on, mount and tighten screw **③**.

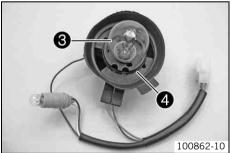
Changing the headlight bulb

Note

Damage to reflector Reduced luminance.

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





- Remove the headlight mask with the headlight. (* p. 80)
- Turn rubber cap together with the underlying lamp socket counterclockwise all the way and remove it.
- Pull lamp socket ② of the parking light out of the reflector.
- Press headlight bulb
 into the lamp socket lightly, turn it counterclockwise all the
 way and pull it out.
- Insert a new headlight bulb.

Headlight (S2 / socket BA20d) (* p. 109)

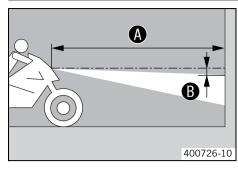
 Insert the rubber cap together with the lamp socket into the reflector and turn it clockwise all the way.



Ensure that the O-ring 4 is seated properly.

- Insert the lamp socket of the parking light into the reflector.
- Refit the headlight mask with the headlight. (• p. 81)

Checking the headlight adjustment



- Stand the vehicle upright on a horizontal surface in front of a light wall and make a mark at the height of the center of the low beam headlight.
- Make another mark at a distance **B** under the first mark.

Guideline

Distar	nce 🛚			5 cm (2 in)

Position the vehicle vertically at a distance
in front of the wall.
Guideline
Distance
in (16 ft)

Distance

_

- The rider now sits down on the motorcycle.
- Switch on the low beam.
- Check the headlight adjustment.

The border between light and dark must be exactly at the lower mark when the motorcycle is operational and complete with rider.

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

Adjust the headlight range of the headlight by moving it up or down.

Check the headlight adjustment. (* p. 82)

Adjusting the headlight range



• Info

Guideline

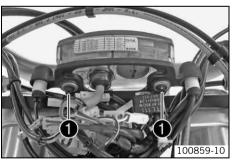
Loosen screw **1**.

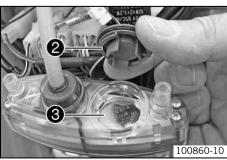
A change in weight on the vehicle may require a correction of the headlight range.

The boundary between light and dark must be exactly on the lower mark for a motorcycle with a rider (mark is applied under: Checking the headlight setting).

Tighten screw ①.

Changing the speedometer battery





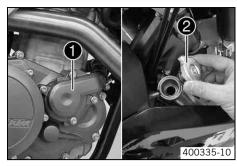
- Remove the headlight mask with the headlight. (* p. 80)
- Remove screws 1.
- Pull the speedometer out of the bracket from above.

- Using a coin, turn locking cap 2 counterclockwise all the way and remove it.
- Remove speedometer battery **3**.
- Insert the new battery with the label facing upward.
- Check that the O-ring of the locking cap is seated properly.



- Position locking cap 2 and, using a coin, turn it clockwise all the way.
- Press any button on the speedometer.
 - \checkmark The speedometer is activated.
- Position the speedometer in the bracket.
- Mount and tighten the screws with washers.
- Refit the headlight mask with the headlight. (\P p. 81)

Cooling system



Water pump **1** in the engine circulates the coolant.

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

(EXC SIX DAYS, XC-W SIX DAYS)

The radiator fan provides extra cooling. It is controlled by a thermoswitch.

Checking the anti-freeze and coolant level

Warning

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

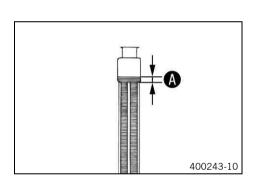
- Do not remove the radiator cap, radiator hoses or other cooling system components when the engine is hot. Allow the engine and cooling system to cool down. In case of scalding, rinse immediately with lukewarm water.



Warning

Danger of poisoning Coolant is poisonous and a health hazard.

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



Condition

Engine is cold.

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

	-25	-45	°C	(-	13	-49	°F)
--	-----	-----	----	----	----	-----	-----

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

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

Alternative 1

	Coolant	(🖛	p.	113)
--	---------	-----	----	------

Alternative 2

Coolant (mixed ready to use) (* p. 113)

- Refit the radiator cap.

Checking the coolant level





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.

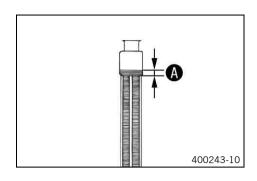


Warning

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.

COOLING SYSTEM



Condition

The engine is cold.

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

Coolant level above the radiator fins.	10 mm (0.39 in)
» If the coolant level does not meet spec	cifications:
- Correct the coolant level.	
Alternative 1	

Coolant (* p. 113)

Alternative 2

Coolant (mixed ready to use) (* p. 113)

Mount the radiator cap.

Draining coolant 🔧

Warning

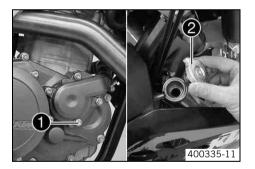
Danger of scalding During motorcycle operation, the coolant gets very hot and is under pressure.

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

Warning

Danger of poisoning Coolant is poisonous and a health hazard.

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



Condition Engine is cold.

Stand the motorcycle upright.

- Place a suitable container under the water pump cover.
- Remove screw **1**. Remove the radiator cap **2**.
- Completely drain the coolant.

Guideline

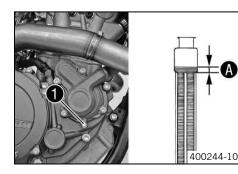
Screw, water pump cover	M6x25	10 Nm (7.4 lbf ft)
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Refilling coolant 🔦

Warning

Danger of poisoning Coolant is poisonous and a health hazard.

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



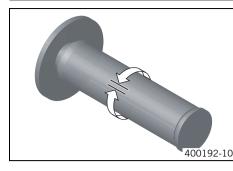
_	Make	sure	that	the	screw	O	is tightened.
---	------	------	------	-----	-------	---	---------------

- Stand the vehicle upright.
- Pour coolant in up to measurement () above the radiator fins.
 - Guideline

10 mm (0.39 in)		
Coolant	0.95 (1 qt.)	Coolant (🕶 p. 113)
		Coolant (mixed ready to use) (

- Refit the radiator cap.
- Make a short test ride.
- Check the coolant level. (* p. 84)

Checking the play in the throttle cable



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

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

- » If the throttle cable play does not meet specifications:
 - Adjust the play in the throttle cable. 🔌 (🕶 p. 87)



Danger

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

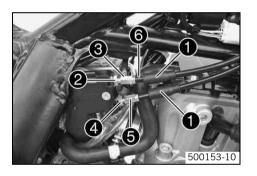
- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.
- Start the engine and let it run idle. Move the handlebar to and fro over the entire steering range.

The idle speed must not change.

» If the idle speed changes:

Adjust the play in the throttle cable. 4 (* p. 87)

Adjusting the play in the throttle cable 🔺



- Remove the fuel tank.

 (* p. 56)
- Move the handlebar to the straight-ahead position.
- Push back sleeves ①.
- Loosen nut 2. Turn adjusting screw 3 in as far as possible.
- Loosen nut ④. Turn adjusting screw ⑤ so that there is play in the throttle cable at the throttle grip.

Guideline

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

- Tighten nut 🕘.
- Press and hold the throttle grip in the closed setting. Turn adjusting screw
 out until there is no play in the throttle cable

 .
- Tighten nut 🛛.
- Push sleeves **1** on. Check the throttle grip for smooth operation.
- Install the fuel tank. 🔌 (🕶 p. 57)
- Check the play in the throttle cable. (* p. 87)

Carburetor - idle



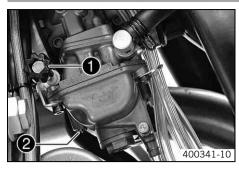
The idle setting of the carburetor has a big influence on the starting behavior, stable idling and the response to throttle opening. That means that an engine with a correctly set idle speed is easier to start than if the idle is set wrongly.

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

Carburetor - adjusting the idle speed 🔌



- Screw in idle adjusting screw $\ensuremath{2}$ all the way and then turn it to the prescribed basic setting.
 - Guideline

_

Idle mixture adjusting screw (All 400 models)		
Open	0.75 turn	
Idle mixture adjusting screw (All 530 EXC models)		
Open	1.5 turns	
Idle mixture adjusting screw (All 450 models)		
Open 1.75 turns		
Idle mixture adjusting screw (530 XC-W SIX DAYS USA)		
Open	2.0 turns	
Adjustment tool for mixture control screw (77329034000)		

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 adjusting screw ①.

Guideline

Choke function deactivated – The choke (EXC AUS, XC-W SIX DAYS) (* p. 22)	lever is pushed in to the stop.	
Choke function deactivated – The choke lever is pushed back to the stop. (EXC EU, EXC Factory Edition, EXC SIX DAYS) (
Idle speed 1,550 1,650 rpm		

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

Info

If there is a large engine speed rise, reduce the idle speed to a normal level and repeat the above steps. The extreme sport motorcyclist will set the mixture about ¹/₄ of a turn back

from this ideal value (leaner, in a clockwise direction) since the engine becomes hotter in sporting use.

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

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

The idle adjusting screw must not be opened more than two turns. If more than two turns are necessary (rich mixture), use a larger idling jet. After changing the idling jet, repeat the adjusting steps from the beginning.

Adjust the idle speed with adjusting screw ①.

Guideline

Choke function deactivated – The choke lever is pushed in to the stop. (EXC AUS, XC-W SIX DAYS) (p. 22)		
Choke function deactivated – The choke lever is pushed back to the stop. (EXC EU, EXC Factory Edition, EXC SIX DAYS) (p. 12)		
Idle speed 1,550 1,650 rpm		

Info

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.

Info

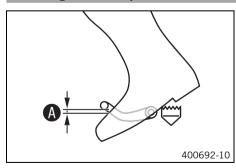
the float chamber. Tighten screw **1**.

Info

Carry out this work with a cold engine.

0 500256-10

Checking the basic position of the shift lever



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

Turn handle **1** of the fuel tap to the **OFF** position. (Figure 500137-10 **•** p. 22)

Undo the screw **1** (turn it counterclockwise) a few turns and drain the fuel from

Gap between the shift lever and the top of the boot	10 20 mm (0.39 0.79 in)
-----------------------------------------------------	-------------------------

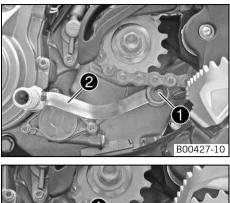
If the distance does not meet the specifications:

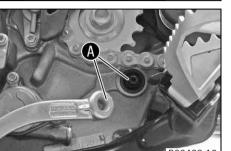
✓ No more fuel flows from the tank to the carburetor. Direct the hose of the float chamber into a suitable container.

Water in the float chamber results in malfunctioning.

– Adjust the basic position of the shift lever. Վ (🕶 p. 90)

Adjusting the basic position of the shift lever 🔌





B00428-10

Remove screw $\mathbf{0}$ and take off shift lever $\mathbf{2}$.

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

Info

_

The range of adjustment is limited. The shift lever must not come into contact with any other vehicle components during the shift procedure.

- Mount and tighten screw.

Guideline

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

Checking engine oil level

• Info

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



- Stand the motorcycle upright on a horizontal surface.

Condition Engine is cold.

Check the engine oil level.

The engine oil must be between the halfway mark and the top of the oil level viewer ${\bf \bullet}.$

- > If the engine oil level is below the specified level:
 - Add engine oil. (* p. 93)

Changing engine oil and oil filter, cleaning engine oil screen 🔧

_

- 301489-10
- Drain the engine oil and clean the engine oil screen. 🔌 (🕶 p. 91)
- Remove the oil filter. 🔌 (🕶 p. 92)
- − Install the oil filter. ◀ (♥ p. 92)
- Fill up with engine oil. 🔌 (🕶 p. 93)

Draining engine oil, cleaning engine oil screen 🔌

Warning

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.

Environmental hazard Hazardous substances cause environmental damage.

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

• Info

Drain the engine oil only when the engine is warm.



- Stand the motorcycle on its side stand on a horizontal surface.
- Place a suitable container under the engine.
- Remove engine oil plug screen ①.
- Completely drain the engine oil.
- Thoroughly clean the plug and engine oil screen.
- Clean the sealing surface on the engine.
- Mount and tighten the engine oil screen drain plug ①.
 Guideline

Plug, engine oil screen	M17x1.5	20 Nm
		(14.8 lbf ft)

Removing the oil filter 🔌

Warning Danger of sca

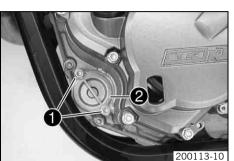
- **Danger of scalding** Engine oil and gear oil get very hot when the motorcycle is ridden.
- Wear appropriate protective clothing and safety gloves. In case of burns, rinse immediately with lukewarm water.

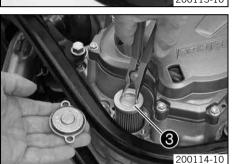


Warning

Environmental hazard Hazardous substances cause environmental damage.

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





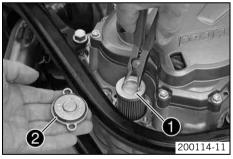
- Place a suitable container under the engine.
 - Remove screws 1. Remove oil filter cover 2 with the O-ring.

- Pull the oil filter insert 3 out of the oil filter casing.

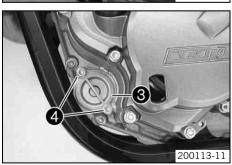
Circlip pliers reverse (51012011000)

- Completely drain the engine oil.
- Thoroughly clean parts and sealing surface.

Installing the oil filter 🔌



- Lay the motorcycle on its side and fill the oil filter housing to about 1/3 full with engine oil.
- Fill the oil filter
 with engine oil and place it in the oil filter container.
- Lubricate the O/ring 2 of the oil filter cover.



- Refit the oil filter cover ⁽³⁾
- Mount and tighten screws ④.
 Guideline

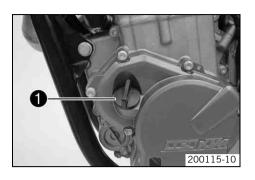
Screw, oil filter cover M6 10 Nm ('.4 lbf ft)
------------------------------------	-------------

- Stand the motorcycle upright.

Filling up with engine oil 🔌

Info

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



Remove the screw cap $ullet$ on the alternator cover and fill up with engine oil.				
Engine oil (1st partial quantity approx.)	0.35 I (0.37 qt.)	Engine oil (SAE 10W/50) (🕈 p. 113)		

.

Mount and tighten the screw connection on the alternator cover.



Danger

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

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.
- Start the engine and let it run idle for 30 seconds.
- Stop the engine and check that it is oil-tight.
- Stand the motorcycle upright on a horizontal surface. _
- Remove the screw connection on the alternator cover.
- Fill in engine oil to the upper half of level viewer **2**.

Engine oil (total	0.60 l (0.63 qt.)	Engine oil (SAE 10W/50) (🕶 p. 113)
filling capacity		
approx.)		

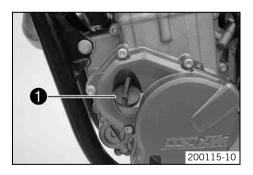
Mount and tighten the screw connection on the alternator cover.

Adding engine oil

Info

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

301454-10



Remove the screw cap **1** on the alternator cover and fill up with engine oil.

Engine oil (SAE 10W/50) (* p. 113)

Mount and tighten screw cap 1.

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 engine oil level. (* p. 91)

Checking the gear oil level

• Info

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



- Stand the motorcycle upright on a horizontal surface.

Condition Engine is cold.

- Remove gear oil level check screw **①**. Stand the motorcycle upright.

Μ6

- Check the gear oil level.

A small amount of gear oil should flow out.

» If no gear oil flows out:

Screw, gear oil level check

- Add gear oil. 🔌 (🕶 p. 95)
- Mount and tighten the gear oil level check screw.
 Guideline

8 Nm (5.9 lbf ft)

Changing gear oil, cleaning gear oil screen 🔌



- Drain the gear oil and clean the gear oil screen. 🔌 (🕶 p. 94)
 - Fill up with gear oil. 🔌 (🕶 p. 95)

Draining gear oil, cleaning gear oil screen 🔌

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

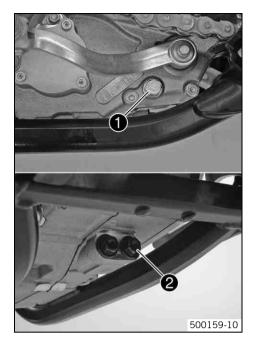
Environmental hazard Hazardous substances cause environmental damage.

- 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.



- Place a suitable container under the engine.
- Remove the gear oil drain plug 1.
- Remove the gear oil screen plug 2. _
- Completely drain the gear oil.
- Thoroughly clean the gear oil drain plug with a magnet.
- Thoroughly clean the drain plug and gear oil screen with a magnet.
- Clean the sealing surface on the engine.
- Refit gear oil drain plug **1** with seal ring and tighten it. _ Guideline

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

Mount and tighten the gear oil screen drain plug 2. Guideline

Plug, gear oil screen	M16x1.5	20 Nm (14.8 lbf ft)
-----------------------	---------	------------------------

Filling up with gear oil 🔧

Info

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



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

	Gear oil	0.90 l (0.95 qt.)	Engine oil (SAE 10W/50) (🕶 p. 113)
--	----------	-------------------	------------------------------------

Mount and tighten screw cap **1**.



Danger

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

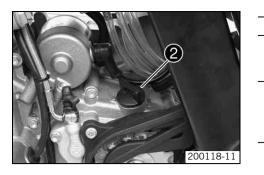
- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.
- Start the engine and check that it is oil-tight.
- Check the gear oil level. (p. 94)

Adding gear oil 🔧

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



Remove gear oil level check screw 1.



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

Engine oil (SAE 10W/50) (* p. 113)

Mount and tighten the gear oil level check screw. Guideline

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

Mount and tighten screw cap 2.



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.

CLEANING, CARE

Cleaning the motorcycle

Note

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

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

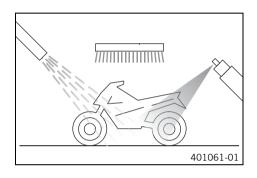
Warning

Environmental hazard Hazardous substances cause environmental damage.

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

Info

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



Close off the exhaust system to prevent water from entering.

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

Motorcycle cleaner (* p. 115)



Γ

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. 89)



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

- Clean or dry dirty or wet brakes by riding and braking gently.
- After cleaning, ride a short distance until the engine reaches operating temperature.

Info

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

- Push back the protection covers of the handlebar grips to allow any water that has penetrated to evaporate.
- After the motorcycle has cooled off, lubricate all moving parts and bearings.
- Clean the chain. (* p. 58)
- 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. 115)

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

Paint cleaner and polish for high-gloss and matte finishes, bare metal and plastic surfaces (\P p. 116)

(All EXC models)

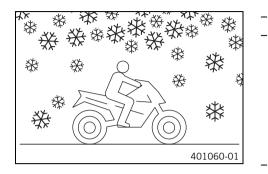
Lubricate the steering lock.

Universal oil spray (* p. 116)

Protection for winter operation

lnfo

- If you use the motorcycle in the winter, you can expect to encounter salt on the roads. Precautions need to be taken against road salt corrosion.
 - If the vehicle has been used on salted roads, clean it with cold water. Warm water intensifies the effects of salt.



- Clean the motorcycle. (* p. 97)
- Treat the engine, swingarm and all other bare or galvanized parts (except the brake discs) with a wax-based anticorrosive.



Avoid getting anticorrosive on the brake discs: this would badly affect the

braking. After use on salted roads, clean the motorcycle thoroughly with cold water and dry it properly.

Clean the chain. (🕶 p. 58)

STORAGE

Storage

▲ Warning

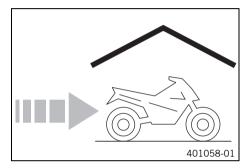


Danger of poisoning Fuel is poisonous and a health hazard.

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

Info

If you want to 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. 97)
- Change the engine oil and oil filter and clean the engine oil screen. 🔌 (🕶 p. 91)
- Change the gear oil and clean the gear oil screen. 🔌 (🕶 p. 94)
- Check the anti-freeze and coolant level. (* p. 84)
- Drain the fuel from the tanks into a suitable container.
- Empty the carburetor float chamber. 🔌 (🖛 p. 89)
- Check the tire air pressure. (* p. 76)
- Remove the battery. 🔌 (🕶 p. 78)
- Recharge the battery. 🔌 (🕶 p. 78)

Guideline

Storage temperature of battery (not	0 35 °C (32 95 °F)
placed in direct sunshine)	

Place the vehicle on a dry storage place that is not subject to large temperature variations.

• Info

KTM recommends raising the motorcycle.

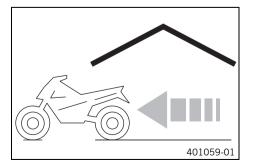
- Raise the motorcycle with the lift stand. (* p. 43)
- Cover the vehicle with an air-permeable cover or blanket.

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 parts of the engine and exhaust system to rust.

Putting into operation after storage



- Remove the motorcycle from the lift stand. (* p. 43)
- − Install the battery. ◀ (♥ p. 78)
 - Refuel. (* p. 32)
- Perform checks and maintenance steps before putting into operation. (p. 30)
- Take a test ride.

Faults	Possible cause		Action	
The engine cannot be cranked (elec- tric starter).	Operating error		to through the steps of starting the engine.	
	Battery discharged	– R	echarge the battery. 🔌 (🕶 p. 78)	
		– C	heck the charging voltage. 🔌	
		– C	heck the closed current. 🔌	
			Iternator - check the light and battery wind-	
	Main fuse blown	– R	emove the main fuse. (🕶 p. 79)	
		– Ir	nstall the main fuse. (🕶 p. 79)	
	Starter relay defective	- C	heck the starter relay. 🔧	
	Starter motor defective	- C	heck the starter motor. 🔌	
Engine turns but does not start	Operating error		to through the steps of starting the engine.	
	Motorcycle was out of use for a long time and there is old fuel in the float chamber		mpty the carburetor float chamber. 🔌 🕈 p. 89)	
	Fuel supply interrupted	- C	heck the fuel tank breather.	
		– C	lean the fuel tap.	
		- C	heck/adjust the carburetor components. 🔌	
	Spark plug oily or wet		lean and dry the spark plug or replace if nec- ssary.	
	Electrode distance (plug gap) of spark	– A	djust the plug gap.	
	plug too wide		uideline	
			park plug electrode gap .9 mm (0.035 in)	
	Ignition system defective	- C	heck the ignition system. 🔌	
	Short-circuit cable in wiring harness frayed, short-circuit button or emer- gency OFF switch defective		heck the wiring harness. (visual check) heck the electrical system.	
	Plug connector of CDI control device, pulse generator or ignition coil oxi- dized.		lean the plug connector and treat it with con- act spray.	
	Water in carburetor or jets blocked	- C	heck/adjust the carburetor components. 🔌	
Engine has no idle	Idling jet blocked	- C	heck/adjust the carburetor components. 🔌	
	Adjusting screws on carburetor dis- torted		arburetor - adjust the idle speed. 🔌	
	Spark plug defective	- C	hange spark plug.	
	Ignition system defective	- C	heck the ignition system. 🔌	
Engine does not speed up	Carburetor running over because float needle dirty or worn	- C	heck/adjust the carburetor components. 🔌	
	Loose carburetor jets	- C	heck/adjust the carburetor components. 🔌	
	Ignition system defective	- C	heck the ignition system. 🔌	
Engine has a lack of power	Fuel supply interrupted	- C	heck the fuel tank breather.	
		– C	lean the fuel tap.	
		– C	heck/adjust the carburetor components. 🔌 🛛	
	Air filter heavily contaminated		lean the air filter and air filter box. 🔌 🗢 p. 54)	
	Exhaust system leaky, deformed or	- C	heck exhaust system for damage.	
	too little glass fiber yarn filling in main silencer		hange the glass fiber yarn filling of the main ilencer. \clubsuit (\clubsuit p. 55)	
	Valve clearance too little	– A	djust the valve clearance. 🔌	
	Ignition system defective		heck the ignition system. 🖌	
Engine stalls or pops back into the carburetor	Lack of fuel	– T	urn handle ① of the fuel tap to the ON posion. (Figure 500137-10 * p. 22)	
			efuel. (* p. 32)	

TROUBLESHOOTING

Faults	Possible cause	Action	
Engine stalls or pops back into the carburetor	The intake system has an air leak	 Check rubber sleeves and carburetor for tight- ness. 	
Engine overheats	Coolant level low in cooling system	 Check the cooling system for leaks. 	
		 Check the coolant level. (
	Insufficient airflow	– Switch off engine when stationary.	
	Radiator fins very dirty	– Clean radiator fins.	
	Foam formation in cooling system	– Drain the coolant. 🔌 (🕶 p. 85)	
		– Refill the coolant. 🔌 (🕶 p. 85)	
	Bent radiator hose	– Change the radiator hose. 🔧	
	Thermostat defective	– Check the thermostat. 🔌	
		Guideline Opening temperature: 70 °C (158 °F)	
	Defect in radiator fan system	- Check the radiator fan fuse.	
	(EXC SIX DAYS, XC-W SIX DAYS)	 Check the radiator fan. 	
		 Check the thermostat. 	
High oil consumption	Engine vent hose bent	 Route the vent hose without bends or replace it if necessary. 	
	Engine oil level too high	– Check the engine oil level. (* p. 91)	
	Engine oil too thin (low viscosity)	 Change the engine oil and oil filter and clean the engine oil screen. ▲ (♥ p. 91) 	
	Piston and/or cylinder worn	 Piston/cylinder - determine the mounting clear- ance 	
Battery discharged	Battery is not charged by alternator	– Check the charging voltage. 🔧	
		 Alternator - check the light and battery wind- ing. 	
	Undesired power consumer	– Check the closed current. 🔧	
Speedometer values deleted (time, stop watch, lap times)	The battery in the speedometer is discharged	- Change the speedometer battery. (

Design	1-cylinder 4-stroke engine, water-cooled
Displacement (All 400 models)	393.4 cm ³ (24.007 cu in)
Displacement (All 450 models)	449.3 cm ³ (27.418 cu in)
Displacement (All 530 models)	510.4 cm ³ (31.147 cu in)
Stroke (All 400 models)	55.5 mm (2.185 in)
Stroke (All 450 models)	63.4 mm (2.496 in)
Stroke (All 530 models)	72 mm (2.83 in)
Bore	95 mm (3.74 in)
Compression ratio (All 400 models)	11.1:1
Compression ratio (All 450/530 models)	11.9:1
Idle speed	1,550 1,650 rpm
Control	OHC, 4 valves controlled via rocker arm, drive via tooth/wheel chain
Valve diameter, intake	39.5 mm (1.555 in)
Valve diameter, exhaust	31.7 mm (1.248 in)
Valve clearance	
Exhaust at: 20 °C (68 °F)	0.12 0.17 mm (0.0047 0.0067 in)
Intake at: 20 °C (68 °F)	0.10 0.15 mm (0.0039 0.0059 in)
Crankshaft bearing	2 grooved ball bearings
Conrod bearing	Needle bearing
Piston pin bearing	No bearing bushes - DLC-plated piston pins
Pistons	Forged light alloy
Piston rings	1 compression ring, 1 oil scraper ring
Engine lubrication	Pressure circulation lubrication with 2 rotor pumps (engine) / 1 rotor pump (transmission)
Primary transmission	33:76
Clutch	Multidisc clutch in oil bath / hydraulically activated
Transmission ratio	
1st gear	14:36
2nd gear	17:32
3rd gear	19:28
4th gear	22:26
5th gear	24:23
6th gear	26:21
Alternator	12 V, 150 W
Ignition	Contactless controlled fully electronic ignition with digital igni- tion adjustment, type Kokusan
Spark plug	NGK LKAR 8AI - 9
Spark plug electrode gap	0.9 mm (0.035 in)
Cooling	Water, permanent circulation of coolant by water pump
Starter	Electric starter/kick starter

Capacity - engine oil

Engine oil	0.60 l (0.63 qt.)	Engine oil (SAE 10W/50) (🕶 p. 113)

TECHNICAL DATA - ENGINE

Capacity - transmission oil			
Gear oil	0.90 l (0.95 qt.)	Engine oil (SAE 10W/50) (🕶 p. 113)	
Capacity - coolant	t		
Coolant	0.95 l (1 qt.)	Coolant (* p. 113)	
		Coolant (mixed ready to use) (* p. 113)	

TECHNICAL DATA - ENGINE TIGHTENING TORQUES

Screw, cable holder in alternator cover	M4	4 Nm (3 lbf ft)	Loctite [®] 243™
Locking screw for bearing	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Oil jet, piston cooling	M5	2 Nm (1.5 lbf ft)	Loctite [®] 243™
Oil jet, rocker arm lubrication	M5	2 Nm (1.5 lbf ft)	Loctite [®] 243™
Screw, ignition pulse generator	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Screw, locking lever	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Screw, oil pump cover	M5	6 Nm (4.4 lbf ft)	Loctite [®] 222
Bleeding connection, transmission	M6	4 Nm (3 lbf ft)	Loctite [®] 243™
Nut, water pump impeller	M6	8 Nm (5.9 lbf ft)	Loctite [®] 243™
Plug, vacuum connection	M6	5 Nm (3.7 lbf ft)	Loctite [®] 243™
Screw, alternator cover	M6x25	10 Nm (7.4 lbf ft)	-
Screw, alternator cover	M6x40	10 Nm (7.4 lbf ft)	_
Screw, camshaft bearing support	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, clutch cover	M6x25	10 Nm (7.4 lbf ft)	_
Screw, clutch cover	M6x30	10 Nm (7.4 lbf ft)	-
Screw, clutch spring	M6	10 Nm (7.4 lbf ft)	-
Screw, cylinder head	M6	10 Nm (7.4 lbf ft)	-
Screw, engine case	M6x60	10 Nm (7.4 lbf ft)	-
Screw, engine case	M6x75	10 Nm (7.4 lbf ft)	-
Screw, exhaust flange	M6	10 Nm (7.4 lbf ft)	-
Screw, gear oil level check	M6	8 Nm (5.9 lbf ft)	-
Screw, idler	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, kickstarter spring hanger	M6	10 Nm (7.4 lbf ft)	-
Screw, kickstarter stop	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, oil filter cover	M6	10 Nm (7.4 lbf ft)	-
Screw, shift drum locating	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, shift lever	M6	14 Nm (10.3 lbf ft)	Loctite [®] 243™
Screw, starter motor	M6	10 Nm (7.4 lbf ft)	-
Screw, stator bracket	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, timing chain guide rail	M6	8 Nm (5.9 lbf ft)	Loctite [®] 243™
Screw, timing chain securing guide	M6	8 Nm (5.9 lbf ft)	Loctite [®] 243™
Screw, timing chain tensioning rail	M6	8 Nm (5.9 lbf ft)	Loctite [®] 243™
Screw, torque governor	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, valve cover	M6	10 Nm (7.4 lbf ft)	-
Screw, water pump cover	M6x25	10 Nm (7.4 lbf ft)	-
Screw, water pump cover	M6x55	10 Nm (7.4 lbf ft)	-
Oil jet, conrod lubrication	M6x0.75	4 Nm (3 lbf ft)	-
Plug, oil channel	M7	9 Nm (6.6 lbf ft)	Loctite [®] 243™
Screw, rocker arm bearing	M7x1	15 Nm (11.1 lbf ft)	-
Plug, crankshaft location	M8	10 Nm (7.4 lbf ft)	-
Screw, kickstarter	M8	25 Nm (18.4 lbf ft)	Loctite [®] 243™
Plug, oil drilling	M10	15 Nm (11.1 lbf ft)	Loctite [®] 243™
Screw, engine sprocket	M10	60 Nm (44.3 lbf ft)	Loctite [®] 243™
Balancer shaft nut	M10x1	40 Nm (29.5 lbf ft)	-
Screw, unlocking of timing chain ten- sioner	M10x1	10 Nm (7.4 lbf ft)	-

TECHNICAL DATA - ENGINE TIGHTENING TORQUES

Screw, cylinder head	M10x1.25	Tightening sequence:	Lubricated with engine oil
, ,		Tighten diagonally, begin-	5
		ning with the rear screw on	
		the chain shaft.	
		Step 1	
		10 Nm (7.4 lbf ft)	
		Step 2	
		30 Nm (22.1 lbf ft)	
		Step 3	
		50 Nm (36.9 lbf ft)	
Nut, rotor	M12x1	60 Nm (44.3 lbf ft)	-
Spark plug	M12x1.25	15 20 Nm (11.1	-
		14.8 lbf ft)	
Gear oil drain plug with magnet	M12x1.5	20 Nm (14.8 lbf ft)	-
Oil pressure control valve plug	M12x1.5	20 Nm (14.8 lbf ft)	-
Plug, SLS	M12x1.5	20 Nm (14.8 lbf ft)	-
Plug, rocker arm	M14x1.25	20 Nm (14.8 lbf ft)	-
Plug, gear oil screen	M16x1.5	20 Nm (14.8 lbf ft)	-
Plug, engine oil screen	M17x1.5	20 Nm (14.8 lbf ft)	-
Nut, inner clutch hub	M18x1.5	80 Nm (59 lbf ft)	-
Nut, primary gear	M20LHx1.5	100 Nm (73.8 lbf ft)	Loctite [®] 243™
Plug, timing chain tensioner	M24x1.5	30 Nm (22.1 lbf ft)	-

TECHNICAL DATA - CARBURETOR

All 400 models		
Carburetor type	KEIHIN FCR-MX 39	
Carburetor identification number	3900N	
Needle position	5th position from top	
Idle mixture adjusting screw	· · · ·	
Open	0.75 turn	
Pump diaphragm stop	2.15 mm (0.0846 in)	
Main jet	180	
Jet needle	OBDYU (OBDTQ)	
Idling jet	42	
Idle air jet	100	
Cold start jet	65 (85)	
Spill jet	40	
Slide stop	present	

450 EXC EU/AUS, 450 EXC SIX DAYS, 450 EXC Factory Edition EU

Carburetor type	KEIHIN FCR-MX 39
Carburetor identification number	39001
Needle position	4th position from top
Idle mixture adjusting screw	
Open	1.75 turns
Pump diaphragm stop	2.15 mm (0.0846 in)
Main jet	180
Jet needle	OBDYU (OBDTQ)
Idling jet	40
Idle air jet	100
Cold start jet	65 (85)
Spill jet	40
Slide stop	present

450 XC-W SIX DAYS USA

Carburetor type	KEIHIN FCR-MX 39	
Carburetor identification number	3900L	
Needle position	1st position from top	
Idle mixture adjusting screw		
Open	1.75 turns	
Pump membrane stop	2.15 mm (0.0846 in)	
Main jet	180	
Jet needle	OBDTQ	
Idling jet	40	
Idle air jet	100	
Cold start jet	85	
Spill jet	40	

TECHNICAL DATA - CARBURETOR

All 530 EXC models

Carburetor type	KEIHIN FCR-MX 39	
Carburetor identification number	3900J	
Needle position	5th position from top	
Idle mixture adjusting screw	· · ·	
Open	1.5 turns	
Pump membrane stop	2.15 mm (0.0846 in)	
Main jet	180	
Jet needle	OBDZT (OBDTR)	
Idling jet	40	
Idle air jet	100	
Cold start jet	65 (85)	
Spill jet	40	
Slide stop	present	

530 XC-W SIX DAYS USA

Carburetor type	KEIHIN FCR-MX 39
Carburetor identification number	3900M
Needle position	1st position from top
Idle mixture adjusting screw	
Open	2.0 turns
Pump membrane stop	2.15 mm (0.0846 in)
Main jet	180
Jet needle	OBDTR
Idling jet	40
Idle air jet	100
Cold start jet	85
Spill jet	40

Frame		Central tube frame	made of chrome molybdenum steel tubing		
Fork		WP Suspension Up S	Side Down 4860 MXMA PA		
Suspension travel					
Front		300 mm (11.81 in)	300 mm (11.81 in)		
Rear		335 mm (13.19 in)			
Fork offset (EXC EU/AUS)		20 mm (0.79 in)			
Fork offset (EXC Factory Edition, EXC	SIX DAYS)	19 mm (0.75 in)			
Fork offset (XC-W SIX DAYS)					
Front marking		18 mm (0.71 in)			
Rear marking		20 mm (0.79 in)			
Shock absorber		WP Suspension PDS	DS 5018 DCC		
Brake system		Disc brakes, brake	calipers on floating bearings		
Brake discs - diameter					
Front		260 mm (10.24 in))		
Rear		220 mm (8.66 in)			
Brake discs - wear limit					
Front		2.5 mm (0.098 in)			
Rear		3.5 mm (0.138 in)			
Tire air pressure off road					
Front		1.0 bar (15 psi)	1.0 bar (15 psi)		
Rear			1.0 bar (15 psi)		
Road tire pressure (All EXC models)					
Front	·		1.5 bar (22 psi)		
Rear	Rear		2.0 bar (29 psi)		
Final drive (All 400/450 EXC models)		15:45 (13:52)			
Final drive (450 XC-W SIX DAYS USA)		13:52			
Final drive (530 XC-W SIX DAYS USA)	13:50			
Final drive (All 530 EXC models)		15:45 (13:50)			
Chain		5/8 x 1/4"			
Rear sprockets available		38, 40, 42, 45, 48, 49, 50, 51, 52			
Steering head angle		63.5°			
Wheelbase		1,475±10 mm (58	1,475±10 mm (58.07±0.39 in)		
Seat height unloaded			985 mm (38.78 in)		
Ground clearance unloaded		380 mm (14.96 in)	380 mm (14.96 in)		
Weight without fuel, approx. (All EXC	models)	113.9 kg (251.1 lb	113.9 kg (251.1 lb.)		
Weight without fuel, approx. (XC-W SI	Weight without fuel, approx. (XC-W SIX DAYS)		112.2 kg (247.4 lb.)		
Maximum permissible front axle load			145 kg (320 lb.)		
Maximum permissible rear axle load			190 kg (419 lb.)		
Maximum permissible overall weight		335 kg (739 lb.)			
Battery	YTX5L-BS		Battery voltage: 12 V Nominal capacity: 4 Ah Maintenance-free		
Fuse	58011109105		5 A		
Fuse	58011109110		10 A		
	1		л		

TECHNICAL DATA - CHASSIS

Lighting equipment

Headlight	S2 / socket BA20d	12 V 35/35 W
Parking light	W5W / socket W2.1x9.5d	12 V 5 W
Indicator lights (All EXC models)	W2.3W / socket W2x4.6d	12 V 2.3 W
Turn signal (All EXC models)	R10W / socket BA15s	12 V 10 W
Brake / tail light	LED	· · ·
License plate lamp (All EXC models)	W5W / socket W2.1x9.5d	12 V 5 W

Tires

Validity	Front tire	Rear tire
(All EXC models)	90/90 - 21 M/C 54M M+S TT Metzeler MCE 6 DAYS EXTREME	140/80 - 18 M/C 70M M+S TT Metzeler MCE 6 DAYS EXTREME
(XC-W SIX DAYS)	80/100 - 21 51M TT Bridgestone M59	110/100 - 18 64M TT Bridgestone M402
Additional information is availa http://www.ktm.com	ble in the Service section under:	

Capacity - fuel

Total fuel tank capacity, approx. (All EXC models)	9.5 (2.51 US gal)	Super unleaded (ROZ 95 / RON 95 / PON 91) (* p. 114)
Total fuel tank capacity, approx. (XC-W SIX DAYS)	9.2 I (2.43 US gal)	Super unleaded (ROZ 95 / RON 95 / PON 91) (P. 114)
Fuel reserve, approx.		2 (2 qt.)

Fork part number		14.18.7J.06	
Fork		WP Suspension Up Side Down 4860 MXMA PA	
Compression damping		· ·	
Comfort		26 clicks	
Standard		22 clicks	
Sport		18 clicks	
Rebound damping			
Comfort		24 clicks	
Standard		20 clicks	
Sport		20 clicks	
Spring length with preload space	cer(s)	510 mm (20.08 in)	
Spring rate			
Weight of rider: 65 75 kg	g (143 165 lb.)	4.4 N/mm (25.1 lb/in)	
Weight of rider: 75 85 kg (165 187 lb.)		4.6 N/mm (26.3 lb/in)	
Weight of rider: 85 95 kg (187 209 lb.)		4.8 N/mm (27.4 lb/in)	
Air chamber length		110^{+20}_{-30} mm (4.33 $^{+0.79}_{-1.18}$ in)	
Spring preload - Preload Adjuste	er	· ·	
Comfort		0 turn	
Standard		2 turns	
Sport		4 turns	
Fork length		940 mm (37.01 in)	
Fork oil per fork leg	626 ml (21.17 fl. oz.)	Fork oil (SAE 5) (P. 113)	

TECHNICAL DATA - SHOCK ABSORBER

Shock absorber part number	12.18.7J.06
Shock absorber	WP Suspension PDS 5018 DCC
Compression damping, low-speed	
Comfort	22 clicks
Standard	20 clicks
Sport	15 clicks
Compression damping, high-speed	
Comfort	2 turns
Standard	1.5 turns
Sport	1.25 turns
Rebound damping	
Comfort	26 clicks
Standard	24 clicks
Sport	22 clicks
Spring preload	9 mm (0.35 in)
Spring rate	
Weight of rider: 65 75 kg (143 165 lb.)	69 N/mm (394 lb/in)
Weight of rider: 75 85 kg (165 187 lb.)	72 N/mm (411 lb/in)
Weight of rider: 85 95 kg (187 209 lb.)	76 N/mm (434 lb/in)
Spring length	250 mm (9.84 in)
Gas pressure	10 bar (145 psi)
Static sag	35 mm (1.38 in)
Riding sag	105 mm (4.13 in)
Fitted length	411 mm (16.18 in)
Damper oil	Shock absorber oil (SAE 2,5) (50180342S1) (* p. 113)

TECHNICAL DATA - TIGHTENING TORQUES FOR CHASSIS

Spoke nipple, front wheel	M4.5	5 6 Nm (3.7 4.4 lbf ft)	-
Screw, spoiler on fuel tank (XC-W SIX DAYS)	M5x12	1.5 Nm (1.11 lbf ft)	-
Spoke nipple, rear wheel	M5	5 6 Nm (3.7 4.4 lbf ft)	-
Remaining nuts, chassis	M6	15 Nm (11.1 lbf ft)	-
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)	-
Screw, ball joint of push rod on foot brake cylinder	M6	10 Nm (7.4 lbf ft)	-
Screw, chain sliding guard	M6	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Screw, front brake disc	M6	14 Nm (10.3 lbf ft)	Loctite [®] 243™
Screw, rear brake disc	M6	14 Nm (10.3 lbf ft)	Loctite [®] 243™
Screw, shock absorber adjusting ring	M6	5 Nm (3.7 lbf ft)	-
Nut, rear sprocket screw	M8	35 Nm (25.8 lbf ft)	Loctite [®] 2701
Nut, rim lock	M8	10 Nm (7.4 lbf ft)	_
Remaining nuts, chassis	M8	30 Nm (22.1 lbf ft)	_
Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)	-
Screw, bottom triple clamp (EXC Factory Edition, EXC SIX DAYS, XC-W SIX DAYS)	M8	12 Nm (8.9 lbf ft)	-
Screw, bottom triple clamp (EXC EU/AUS)	M8	15 Nm (11.1 lbf ft)	-
Screw, chain sliding piece	M8	15 Nm (11.1 lbf ft)	-
Screw, engine brace	M8	33 Nm (24.3 lbf ft)	-
Screw, fork stub	M8	15 Nm (11.1 lbf ft)	-
Screw, front brake caliper	M8	25 Nm (18.4 lbf ft)	Loctite [®] 243™
Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)	-
Screw, side stand fixing	M8	40 Nm (29.5 lbf ft)	Loctite [®] 2701
Screw, subframe	M8	35 Nm (25.8 lbf ft)	Loctite [®] 2701
Screw, top steering stem (EXC Factory Edition, EXC SIX DAYS, XC-W SIX DAYS)	M8	17 Nm (12.5 lbf ft)	Loctite [®] 243™
Screw, top steering stem (EXC EU/AUS)	M8	20 Nm (14.8 lbf ft)	-
Screw, top triple clamp (EXC Factory Edition, EXC SIX DAYS, XC-W SIX DAYS)	M8	17 Nm (12.5 lbf ft)	-
Screw, top triple clamp (EXC EU/AUS)	M8	20 Nm (14.8 lbf ft)	-
Engine attachment bolt	M10	60 Nm (44.3 lbf ft)	-
Remaining nuts, chassis	M10	50 Nm (36.9 lbf ft)	-
Remaining screws, chassis	M10	45 Nm (33.2 lbf ft)	-
Screw, handlebar support	M10	40 Nm (29.5 lbf ft)	Loctite [®] 243™
Screw, bottom shock absorber	M12	80 Nm (59 lbf ft)	Loctite [®] 2701
Screw, top shock absorber	M12	80 Nm (59 lbf ft)	Loctite [®] 2701
Nut, seat fixing	M12x1	20 Nm (14.8 lbf ft)	-
Nut, swingarm pivot	M16x1.5	100 Nm (73.8 lbf ft)	-
Nut, rear wheel spindle	M20x1.5	80 Nm (59 lbf ft)	-
Screw, bottom steering head (XC-W SIX DAYS)	M20x1.5	60 Nm (44.3 lbf ft)	Loctite [®] 243™
Screw, top steering head	M20x1.5	10 Nm (7.4 lbf ft)	-
Screw-in nozzles, cooling system	M20x1.5	12 Nm (8.9 lbf ft)	Loctite [®] 243™
Screw, front wheel spindle	M24x1.5	45 Nm (33.2 lbf ft)	_

Brake fluid DOT 4 / DOT 5.1

According to

– DOT

Guideline

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

Supplier Castrol

– RESPONSE BRAKE FLUID SUPER DOT 4

Motorex®

Brake Fluid DOT 5.1

Coolant Guideline

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

Mixture ratio

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

Coolant (mixed ready to use)

ntifreeze	-40 °C (-40 °F)

Supplier

Motorex®

Anti Freeze

Engine oil (SAE 10W/50)

According to

- JASO T903 MA (* p. 117)
- SAE (🕶 p. 117) (SAE 10W/50)

Guideline

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

Synthetic engine oil

Supplier

Motorex®

Cross Power 4T

Fork oil (SAE 5)

According to

– SAE (🕶 p. 117) (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

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

According to - SAE (* p. 117) (SAE 2,5)

Guideline

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

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

According to

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

AUXILIARY SUBSTANCES

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 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

Paint cleaner and polish for high-gloss and matte finishes, bare metal and plastic surfaces

Guideline

- KTM recommends **Motorex®** products.

Supplier

Motorex®

- Clean & Polish

Universal oil spray

Guideline

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

Supplier

Motorex®

- Joker 440 Synthetic

JASO T903 MA

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

SAE

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

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