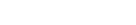
OWNER'S MANUAL 2008









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 great pleasure riding the vehicle!

Enter the serial numbers of your vehicle below.

Chassis number (P. 8)	Dealer's stamp
Engine number (P. 8)	
Key number (EXC-R EU, EXC-R AUS/UK, EXC-R USA) (▼ P. 8)	

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.

All specifications are not binding. KTM Sportmotorcycle AG in particular reserves the right to modify or delete technical specifications, prices, colors, forms, materials, services, designs, equipment, etc., without prior notice and without specifying reasons, to adapt these to local conditions, as well as to stop prudction of a particular model without prior notice. KTM accepts no liability for delivery options, deviations from illustrations and descriptions, as well as printing and other errors. The models portrayed partly contain special equipment that does not belong to the regular scope of delivery.

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ISO 9001(12 100 6061)

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

Issued by: TÜV Management Service

KTM-Sportmotorcycle AG 5230 Mattighofen, Austria

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Symbols used

The symbols used are explained in the following.



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



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



All work marked with this symbol requires specialist knowledge and technical understanding. In the interest of your own safety, have these jobs done in an authorized KTM workshop! There, your motorcycle will be serviced optimally by specially trained experts using the specialist tools required.



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

Formats used

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

Specific name Identifies a specific name.

Name® Identifies a protected name.

Brand™ Identifies a brand in merchandise traffic.

Use definition (Every EXC-R 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.



Info

The motorcycle is authorized for public road traffic in the homologous (reduced) version only. In the derestricted version, the motorcycle must be used only on secluded property 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 (Every XCR-W 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.



Info

The motorcycle must be used only on secluded property remote from public road traffic.

The motorcycle is designed for off-road sport endurance competition (Enduro) and not for the predominant motocross use.

Maintenance

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

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

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

Warranty

The maintenance work prescribed in the greasing and service table must be carried out in an authorized KTM workshop and confirmed in the customer's service record, since otherwise no warranty claims will be recognized. No warranty claims can be considered for damage resulting from manipulations and alterations to the motorcycle.

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, use only spare parts and accessories approved by KTM. KTM accepts no liability for other products and any resulting damage or loss.

Transport

Note

Danger of damage Danger of damage by the vehicle running away or falling over.

Always place the vehicle on a firm and even surface.

Note

Fire hazard Some components (engine, radiator and exhaust system) get very hot when the engine is running.

- Do not place the vehicle where there are flammable or explosive substances.
- switch off engine.
- Turn the handle **①** of the fuel tap to the **OFF** position. (Figure 500137-10 ***** P. 20)
- Use straps or other suitable devices to secure the motorcycle against accidents or falling over.

Environment

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

Warning notes

In your own interest, read the specified warning notes.



Info

Various warning labels are attached to your vehicle. Do not remove any warning labels. If they are missing, you or others may not recognize dangers and may therefore be injured.

Grades of risks



Danger

Danger that leads immediately and certainly to severe and permanent injury or death.



Warning

Danger that will probably lead to severe and permanent injury or death.

Note

Danger of serious damage to machine or material.



Warning

Risk of environmental damage.

OWNER'S MANUAL

- Read this owner's manual carefully and completely before making your first trip. It contains a lot of information and tips to help
 you operate and handle your motorcycle. Only then will you find out how to customize the motorcycle ideally for your own use and
 how you can 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.

Chassis number



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

Type label



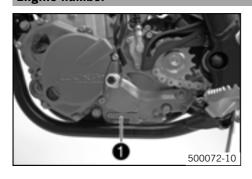
The type label • is fixed to the front of the steering head.

Key number (EXC-R EU, EXC-R AUS/UK, EXC-R USA)



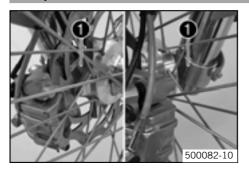
The key number • is stamped on the key strap.

Engine number



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

Fork part number



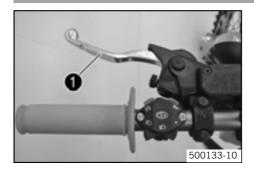
The fork part number • is stamped on the inner side of the fork stub.

Shock absorber part number



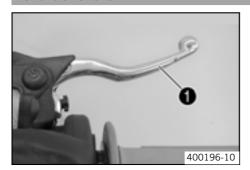
The shock absorber part number lacktriangle is stamped on the top of the shock absorber above the adjusting ring on the engine side.

Clutch lever



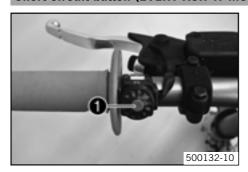
The clutch lever **1** is fitted on the left side of the handlebar. The clutch is hydraulically operated and self-adjusting.

Hand brake lever



The hand brake lever • is located on the right side of the handlebar and operates the front wheel brake.

Short circuit button (EVERY XCR-W MODELS)



The short circuit button **1** is mounted 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 (EXC-R EU, EXC-R AUS/UK, EXC-R 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.

Emergency OFF switch (EXC-R AUS/UK)



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

Possible states



Ignition off – In this position, the ignition circuit is interrupted, a running engine stops, and a non-running engine will not start.



Ignition on – In this position, the ignition circuit is closed, and the engine can be started.

Emergency OFF switch (EXC-R USA)



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

Possible states



Ignition off – In this position, the ignition circuit is interrupted, a running engine stops, and a non-running engine will not start.



Ignition on $-\mbox{\,In}$ this position, the ignition circuit is closed, and the engine can be started.

Ignition switch (EXC-R USA)



The ignition switch • is on the right behind the headlight mask.

Possible states



Ignition off – In this position, the ignition circuit is interrupted, a running engine stops, and a non-running engine will not start.



Ignition on – In this position, the ignition circuit is closed, and the engine can be started.

Electric starter button (EXC-R EU, EXC-R SIX DAYS, EXC-R USA, XCR-W)



The electric starter button **1** 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-R AUS/UK)



The electric starter button • 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.

Light switch (EXC-R EU, EXC-R AUS/UK, EXC-R SIX DAYS)



The light switch • 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.



Low beam on – Light switch is in the central position. In this position, the low beam and tail light are switched on.



High beam on – Light switch is turned to the left. In this position, the high beam and the tail light are switched on.

Light switch (EVERY XCR-W MODELS)



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

Possible states

(XCR-W ZA)

- 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.

(XCR-W USA)

 The light switch has no function when delivered. – It can be used if lighting is fitted later

Light switch (EXC-R USA)



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

Possible states



Low beam on – Light switch is turned downwards. In this position, the low beam and tail light are switched on.



High beam on – Light switch is turned upwards. In this position, the high beam and the tail light are switched on.

Headlight flasher switch (EXC-R USA)



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

Possible states

- Headlight flasher switch in neutral position
- Headlight flasher switch pressed In this position, the headlight flasher (high beam) is actuated.

Horn (EXC-R EU, EXC-R AUS/UK, EXC-R SIX DAYS)



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

Possible states

- Horn button
 in neutral position
- Horn button

 pressed The horn is operated in this position.

Horn (EXC-R USA)



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

Possible states

- Horn button
 in neutral position
- Horn button ► pressed The horn is operated in this position.

Flasher switch (EXC-R EU, EXC-R AUS/UK)



The flasher switch • is fitted on the left side of the handlebar.

Possible states



Flasher light off – Flasher switch is in the central position. Flasher light, left, on – Flasher switch turned to the left.



Flasher light, right, on – Flasher switch turned to the right.

Flasher switch (EXC-R USA)



The flasher switch • is fitted on the left side of the handlebar.

Possible states



Flasher light off

Flasher light, left, on – Flasher switch pressed to the right. The flasher switch returns automatically to the central position after use.



Flasher light, right, on – Flasher switch pressed to the right. The flasher switch returns automatically to the central position after use.

To switch off the flasher light, press the flasher switch towards the switch case.

Overview of indicator lamps (EXC-R EU, EXC-R AUS/UK, EXC-R USA)



Possible states



High beam indicator lamp lights up blue – High beam is switched on.



Flasher indicator lamp flashes green - Flasher light is switched on.

Overview of indicator lamps (EXC-R SIX DAYS)

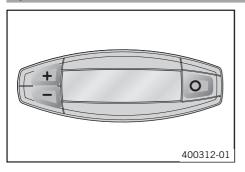


Possible states



High beam indicator lamp lights up blue - High beam is switched on.

Speedometer



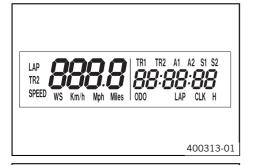
- Press the key O to change the display mode or change to one of the setup menus.
- Press the key "+" to control different functions.
- Press the key "-" to control different functions.



Info

In its condition at delivery, the disply mode **SPEED/H** and **SPEED/0D0** is activated.

Speedometer activation and test



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



Info

2205 mm corresponds to the size of the 21 front wheel with a series production tire.

The display then changes to the last selected mode.

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

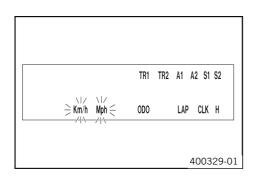


Info

If you change the unit, the **ODO** value is retained and converted accordingly.

The values TR1, TR2, A1, A2 and S1 are deleted at the changeover.

400314-01



Condition

The motorcycle is standing.

- 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 opens and the active functions are displayed.
- Press the button O repeatedly until the Km/h / Mphdisplay flashes.

Setting Km/h

- Press the button "+".

Setting Mph

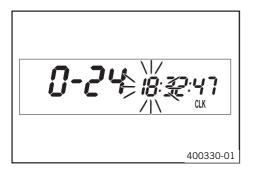
- Press the button "-".
- Press the button O for 3 5 seconds.
 - ✓ The settings are saved and the Setup menu closed.



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 closed.

Setting the clock



Condition

The motorcycle is standing.

- 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.
- Set the hour display with the button "+" and/or button "-".
- Press the button O briefly.
 - ✓ The next segment of the display flashes and can be set.
- You can set the following segments in the same way as the hours by pressing the button "+" and the button "-".



Info

The seconds can only be set to zero.

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



Info

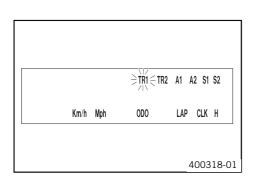
If no button is pressed for 20 seconds, or if no impulse comes from the wheel speed sensor, the settings are automatically saved and the Setup menu closed.

Adjusting speedometer functions



Info

In the condition at delivery, only the SPEED / H display mode and SPEED / ODO are active.



Condition

The motorcycle is standing.

- 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 opens and the active functions are displayed.
- Switch to the function you require by briefly pressing the button O.
 - ✓ The selected function flashes.

Activating a function

- Press the button "+".
 - The icon remains in the display and the display changes to the next function.

Deactivating a function

- Press the button "-".
 - The icon disappears from the display and the display changes to the next function
- Activate or deactivate all functions accordingly.
- Press the button O for 3 5 seconds.
 - ✓ The settings are saved and the Setup menu 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 closed.

Querying lap time



Info

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

400321-01

LAP

Condition

The motorcycle is standing.

- Press the button O briefly and repeatedly until LAP appears at the bottom right of the display.
- Press the button O briefly.
 - ✓ The LAP 1 is displayed on the left of the display.
- Laps 1-10 can be displayed by pressing the button "+".
- button "-" no function
- Press the button O briefly.
 - next display mode



Info

If an impulse is received from the wheel speed sensor, the left side of the display changes back to **SPEED** mode.

Display mode SPEED



 Press the button O briefly and repeatedly until SPEED appears on the left of the display.

In the **SPEED** display mode, the current speed is displayed.

The current speed can be displayed in Km/h or in 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)



Condition

The motorcycle is standing

 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.



Info

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

If the speedometer is in **H** display mode at the start of the journey, it automatically changes to the **0D0** display mode.

The **H** display mode is suppressed during the journey.

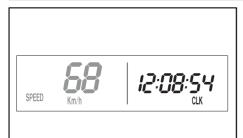
Press the button "+". No function

Press the button "-". No function

Press the button O The display changes to the Setup menu of the speedometer for 3 - 5 seconds. functions.

Press the button O Next display mode

Display mode SPEED / CLK (time)



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

Press the button "+". no function Press the button "-". no function

Press the button O The display changes to the Setup menu of the clock.

for 3 - 5 seconds.

Press the button O next display mode

briefly.

400319-01

Display mode SPEED/LAP (lap time)



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

Press the button O briefly and repeatedly until **CLK** appears at the bottom right of

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



Info

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

Lap 10 must be timed with the button "+".

Press the button "+". 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 The stop watch and the lap time are reset.

for 3 - 5 seconds.

Press the button O Next display mode

briefly.

Display mode SPEED/ODO (odometer)



Press the button O briefly and repeatedly until **000** appears at the bottom right of the display.

In **0D0** display mode, the total number of kilometers ridden is displayed.

Press the button "+". No function

Press the button "-". No function

Press the button O

for 3 - 5 seconds.

Press the button O Next display mode

briefly.

Display mode SPEED/TR1 (trip master 1)



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

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

It can be used to measure the distance covered during trips or between two refueling

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



400323-01

Info

If 999.9 is exceeded, the values of TR1, A1 and S1 are automaticallt reset to

Press the button "+". No function Press the button "-". No function

Press the button O Displays of TR1, A1 and S1 are reset to 0,0.

for 3 - 5 seconds.

Press the button O Next display mode

Display mode SPEED/TR2 (trip master 2)



 Press the button O 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 "+" and the button "-". A very practical function for rides by the road book.



Info

The **TR2** value can also be corrected manually during the journey with the button "+" and the button "-".

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

Press the button "+". Increases value of TR2.

Press the button "-". Reduces value of TR2.

Press the button O Deletes value of **TR2**.

for 3 - 5 seconds.

Press the button O Next display mode

briefly.

Disply 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 using **TR1** (trip master 1) and **S1** (stop watch 1).

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

Press the button "+". No function

Press the button "-". No function

Press the button O Displays of **TR1**, **A1** and **S1** are reset to 0,0.

for 3 - 5 seconds.

Press the button O Next display mode

briefly.

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.



Info

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

Press the button "+". No function

Press the button "-". No function

Press the button O -

for 3 - 5 seconds.

Press the button O Next display mode

Display mode SPEED/S1 (stop watch 1)



 Press the button O briefly and repeatedly until \$1 appears at the top right of the display.

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

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

Press the button "+". No function Press the button "-". No function

Press the button O Displays of TR1, A1 and S1 are reset to 0,0.

for 3 - 5 seconds.

Press the button O Next display mode

briefly.

400327-01

Display mode SPEED/S2 (stop watch 2)



 Press the button O briefly and repeatedly until \$2 appears at the top right of the display.

\$2 (stop watch 2) is a manual stop watch.

If **S2** is running in the background, the **S2** display flashes in the speedometer display.

Press the button "+". Starts or stops **\$2**.

Press the button "-". No function

Press the button O Displays of **S2** and **A2** are reset to 0.0.

for 3 - 5 seconds.

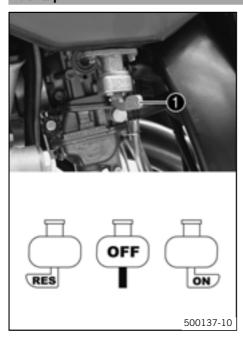
Press the button O Next display mode

Overview of speedomer functions						
Display	Display Press the button "+". Press the button "-". Press the button \circ for		Press the button ○ for 3 - 5 seconds.	Press the button ○ briefly.		
Display mode SPEED/H (service hours)	No function	No function	The display changes to the Setup menu of the speedometer functions.	Next display mode		
Display mode SPEED / CLK (time)	no function	no function	The display changes to the Setup menu of the clock.	next 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.	The stop watch and the lap time are reset.	Next display mode		
Display mode SPEED/ODO (odometer)	No function	No function	-	Next display mode		
Display mode SPEED/TR1 (trip master 1)	No function	No function	Displays of TR1 , A1 and S1 are reset to 0,0.	Next display mode		
Display mode SPEED/TR2 (trip master 2)	Increases value of TR2.	Reduces value of TR2.	Deletes value of TR2.	Next display mode		
Disply mode SPEED/A1 (average speed 1)	No function	No function	Displays of TR1, A1 and S1 are reset to 0,0.	Next display mode		
Display mode SPEED/A2 (average speed 2)	No function	No function	-	Next display mode		
Display mode SPEED/S1 (stop watch 1)	No function	No function	Displays of TR1, A1 and S1 are reset to 0,0.	Next display mode		
Display mode SPEED/S2 (stop watch 2)	Starts or stops \$2 .	No function	Displays of \$2 and A2 are reset to 0.0.	Next display mode		

Overview of conditions and ability to be enabled		
Display	The motorcycle is standing	Menu can be en- abled
Display mode SPEED		
Display mode SPEED/H (service hours)	•	
Display mode SPEED / CLK (time)		•

Overview of conditions and ability to be enabled		
Display	The motorcycle is standing	Menu can be en- abled
Display mode SPEED/LAP (lap time)		•
Display mode SPEED/0D0 (odometer)		
Display mode SPEED/TR1 (trip master 1)		•
Display mode SPEED/TR2 (trip master 2)		•
Disply 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)		•

Fuel tap



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

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

Possible states

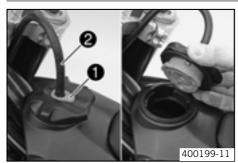
- Fuel supply closed **OFF** No fuel can flow from the tank to the carburetor.
- Fuel supply open **ON** Fuel can flow from the tank to the carburetor. The fuel tank empties down to the reserve.
- Reserve fuel supply open **RES** Fuel can flow from the tank to the carburetor. The fuel tank empties completely.

Opening filler cap



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

Closing filler cap



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



Info

Run the fuel tank breather hose 2 without kinks.

Choke (EXC-R AUS/UK, EXC-R SIX DAYS, EXC-R USA, XCR-W)



The choke **1** is fitted on the left side of the carburetor.

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



Info

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

Possible states

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

Choke (EXC-R EU)



The flasher switch • 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.



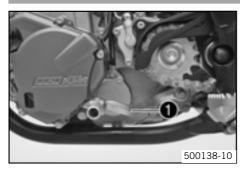
Info

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

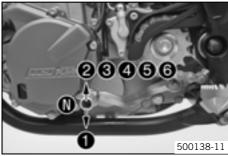
Possible states

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

Shift lever



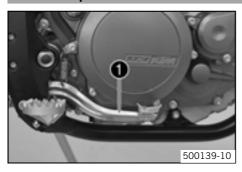
The shift lever • is mounted on the left side of the engine.



The gear positions can be seen in the photograph.

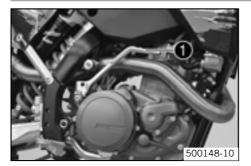
The neutral or idle position is between the first and second gears.

Foot brake pedal



The foot brake pedal **1** is located in front of the right footrest and operates the rear wheel brake.

Kickstarter



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

The engine can be started with either the kickstarter or the electric starter.

The upper part of the kickstarter can be swung out.



Info

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

Side stand



Note

Danger of damage Danger of damage by the vehicle running away or falling over.

Always place the vehicle on a firm and even surface.

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.

To park the motorcycle, press the side stand • with your foot to the ground and lean the motorcycle on it.

When you are riding, the side stand • must be folded up and secured with the rubber band •.



Steering lock (EXC-R EU, EXC-R AUS/UK, EXC-R USA)



The steering lock **1** is fitted on the left of the steering head.

The steering lock is used to lock the steering. Steering, and therefore riding, is no longer possible.

Locking the steering (EXC-R EU, EXC-R AUS/UK, EXC-R USA)

Note

Danger of damage Danger of damage by the vehicle running away or falling over.

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



Info

Never leave the key in the steering lock.

Unlocking the steering (EXC-R EU, EXC-R AUS/UK, EXC-R USA)

- 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.



Info

Never leave the key in the steering lock.

Advice on first use



Danger

Danger of accidents Danger from inadequate traffic experience.

Do not use the vehicle if you are inexperienced or if you have consumed alcohol or drugs.



Warning

Risk of injury Risk of injury by missing/inadequate protective clothing.

- Wear protective clothing (helmet, boots, gloves, pants and jacket with protectors) every time you ride the vehicle.



Warning

Danger of crashing Impairment of riding behavior 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.



Warning

Danger of accidents Brake system failure.

If the foot brake pedal is not released, the brake linings drag permanently. The rear brake can fail due to overheating. Take
your foot off the foot brake pedal if you do not want to brake.



Warning

Danger of accidents Unstable riding behavior.

Do not exceed the maximum permitted 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 operating elements.
- adjust the basic position of clutch lever. (P. 75)

(Every XCR-W models)

adjust the basic position of handbrake lever. (* P. 56)

(Every EXC-R models)

- Adjust the free travel of the handbrake lever. (* P. 56)
- Adjust the basic position of the footbrake lever. (P. 60)
- Get used to handling the motorcycle on a suitable piece of land before making a longer trip.



Infa

Offroad, 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 offroad trips that over-stress your ability and experience.
- Hold the handlebar firmly with both hands and keep your feet on the footrests when riding.
- Do not make any changes to the motorcycle, and use only KTM approved parts.

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.



Info

Motorcycles react sensitively to any changes of weight distribution.

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

Specification

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 the engine in.

Running in the engine

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

Specification

Maximum engine speed	
During the first 3 service hours	7000 rpm
Maximum engine performance during the running-in period	
During the first 3 service hours	≤ 50 %
During the next 12 service hours	≤ 75 %

Avoid fully opening the throttle!

Checks before putting into operation



Info

Make sure that the motorcycle is in a perfect technical condition before use.



nfo

In the interests of riding safety, make a habit of making a general check before you ride.

- Check the engine oil level. (* P. 79)
- Check the chain tension. (P. 51)
- Check the chain dirt accumulation. (* P. 50)
- Check the tire condition. (* P. 66)
- Checking the tire air pressure. (* P. 66)
- Check the front brake fluid level. (* P. 56)
- Check the rear brake fluid level. (* P. 60)
- Check the front brake linings. (* P. 57)
- Check the rear brake linings. (* P. 61)
- Check brake system function.
- Check the coolant level. (* P. 72)
- Check that all operating elements are correctly adjusted and free to move.
- Check the functioning of the electrical equipment.

Starting



Danger

Danger of poisoning Exhaust gases are poisonous and can 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 a closed space.

Note

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

- Always warm up the engine at low engine speeds.



Info

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

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

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

Conditions

Motorcycle standing still: ≥ 1 week

- Empty the carburetor float chamber. (* P. 78)
- Turn the handle of the fuel tap to the ON position. (Figure 500137-10 ♥ P. 20)
 - ✓ Fuel can flow from the tank to the carburetor.
- Remove the motorcycle from the stand.
- Shift gear to neutral.

(EXC-R USA)

- Turn the key in the ignition switch to the position ○.
- Turn the emergency OFF switch to the position ○.

(EXC-R AUS/UK)

Turn the emergency OFF switch to the position ○.

Conditions

Engine cold

(EXC-R AUS/UK, EXC-R SIX DAYS, EXC-R USA, XCR-W)

- Pull choke lever out as far as possible.

(EXC-R EU)

Pull the choke lever to the stop.

Press the electric starter button or press the kickstarter robustly through its full range.



Info

Don't open the throttle.

Conditions

Engine hot and running

Push back the hot start lever to the stop with the engine running.

Starting up



Info

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 block.



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; the speed hardly drops, but the fuel consumption falls considerably.
- Always open the throttle only as much as the engine can handle abrupt throttle opening increases fuel consumption.
- To shift down, brake if necessary 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 standing for a long time.

Specification

≥ 2 min

- Avoid frequent and longer slipping of the clutch. This heats the engine oil, the engine and the cooling system.
- Ride with a lower engine speed instead of with a high engine speed and a slipping clutch.

Braking



Warning

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

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



Warning

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

Have the brake system checked in an authorized KTM workshop, and do not ride any further.



Warning

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

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

Danger of burns Some vehicle components get very hot when the machine is driven.

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 Danger of damage by the vehicle running away or falling over.

Always place the vehicle on a firm and even surface.

Note

Fire hazard Some components (engine, radiator and exhaust system) get very hot when the engine is running.

- Do not place the vehicle where there are flammable or explosive substances.
- Brake the motorcycle.
- Shift gear to neutral.

(Every XCR-W models)

(EXC-R EU, EXC-R AUS/UK, EXC-R SIX DAYS)

- Press the short circuit button ∅ at engine idling speed until the engine stops.

(EXC-R USA)

- Push the emergency off switch at engine indling speed to the position \boxtimes .
- Turn the handle of the fuel tap to the OFF position. (Figure 500137-10 ▼ P. 20)
- Stand the motorcycle on a hard surface.

Refueling



Danger

Fire hazard Fuel can easily catch fire.

- Never fill up 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 specifications on filling up with fuel.



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

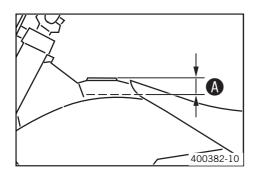
Avoid contact between fuel and skin, eyes and clothing. Do not inhale fuel vapors. If fuel gets into your eyes, rinse immediately with water and contact a doctor. Wash affected skin areas immediately with soap and water. If fuel is swallowed, contact a doctor immediately. Change clothing that has come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



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.



- Open the filler cap. (* P. 20)
- Fill the fuel tank with fuel up to measurement **4**.

Specification

Measurement of A		35 mm (1.38 in)
Tank capacity (EXC-R EU, EXC-R AUS/UK, EXC-R SIX DAYS, XCR-W ZA)		Super unleaded (ROZ 95 / RON 95 / PON 91) (P. 114)
Tank capacity (EXC-R USA, XCR- W USA)	9.2 l (2.43 US gal)	Super unleaded (ROZ 95 / RON 95 / PON 91) (P. 114)

Close the filler cap. (P. 20)

Important maintenance work to be carried out by an authorized KTM workshop.

		S3N	\$15A	\$30A
Engine	Change the engine oil and oil filter and clean the engine oil screen. (* P. 79)	•	•	•
	Change the gear oil and clean the gear oil screen. (P. 82)	•	•	•
	Replace spark plug.			•
	Check and adjust valve clearance.	•	•	•
	Check engine mounting screws for tightness.	•	•	•
	Clean spark plug connectors and check for tightness.	•	•	•
	Check that the screws in the shift lever and the kickstarter are tight.	•	•	•
Carburetor	Check carburetor connection boots for cracks and leakage.		•	•
	Check vent hoses for damage and routing without sharp bends.	•	•	•
	Check idle.	•	•	•
Attachments	Check the cooling system for leakage.	•	•	•
	Check the antifreeze and coolant level. (* P. 71)	•	•	•
	Check the exhaust system for leakage and looseness.		•	•
	Check Bowden cables for damage, smooth operation and routing without sharp	•		_
	bends.		•	
	Check the fluid level of the hydraulic clutch. (P. 75)	•	•	•
	Clean the air filter. (* P. 75)	•	•	•
	Check cables for damage and routing without sharp bends.		•	•
	Check that the electrical equipment is functioning properly.	•	•	•
	Check the headlamp setting.		•	•
Brakes	Check the front brake linings. (* P. 57)	•	•	•
	Check the rear brake linings. (P. 61)	•	•	•
	Check the brake discs. (* P. 55)	•	•	•
	Check the front brake fluid level. (P. 56)	•	•	•
	Check the rear brake fluid level. (* P. 60)	•	•	•
	Check brake lines for damage and leakage.	•	•	•
	Check the free play of the hand brake lever. (P. 55)	•	•	•
	Check the free play of the foot brake lever. (* P. 59)	•	•	•
	Check brake system function.	•	•	•
	Check screws and guide bolts of brake system for tightness.	•	•	•
Chassis	Check shock absorber and fork for leakage and functioning.	•	•	•
	Clean dust boots of fork legs. (* P. 39)		•	•
	Bleed fork legs. (♥ P. 38)		•	•
	Check swingarm bearing.		•	•
	Check play of steering head bearing. (P. 39)	•	•	•
	Check all screws to see if they are tight.	•	•	•
Wheels	Check the spoke tension. (P. 67)	•	•	•
	Check rim run-out.	•	•	•
	Check the tire condition. (P. 66)	•	•	•
	Checking the tire air pressure. (P. 66)	•	•	•
	Check the chain wear. (P. 52)	•	•	•
	Check the chain tension. (P. 51)	•	•	•
	Clean the chain. (* P. 50)	•	•	•
	Check wheel bearing for play.	•	•	•
	Clean and grease adjusting screws of chain adjuster.	•	•	•

S3N: After 3 service hours

\$15A: Every 15 service hours / after every race

\$30A: Every 30 service hours

Important maintenance work to be carried out by an authorized KTM workshop. (as additional order)

	Competition use				Hobby use)	J1A	J2A
	S15A	S30A	S45A	S30A	S60A	S90A	1	
Carry out a complete fork service.							•	•
Carry out a complete shock absorber service.								•
Grease the steering head bearing. (P. 46)							•	•
Clean and adjust carburetor.							•	•
Treat electric contacts with contact spray.							•	•
Change hydraulic clutch fluid. (P. 76)							•	•
Change the front brake fluid.							•	•
Change the rear brake fluid.							•	•
Clean spark arrestor. (EXC-R USA, XCR-W USA)							•	•
Check wear of clutch discs.	•	•	•	•	•	•		
Check the clutch.		•			•			
Check/measure the cylinder.			•			•		
Change the piston.			•			•		
Check the camshaft.			•			•		
Change the camshaft bearing.			•			•		
Check the lower valve spring retainer.			•			•		
Check the cylinder head.			•			•		
Check the valves.			•			•		
Check the valve springs.			•			•		
Check the radial clearance of the rocker arm rollers.			•			•		
Check the timing chain tensioner function.			•			•		
Check the balancer shaft.			•			•		
Check the crankshaft run-out on the bearing pin.			•			•		
Change conrod bearing.			•			•		
Change the crankshaft main bearing.			•			•		
Check the transmission.			•			•		
Check the shift mechanism.			•			•		
Check the spring length of the oil pressure regulator valve.			•			•		
Change glass fiber yarn filling of main silencer.		•			•			
Replace foot brake cylinder seals.		•			•			
Check the carburetor components.		•			•			

\$15A: Every 15 service hours / after every race

\$30A: Every 30 service hours **\$45A:** Every 45 service hours **\$60A:** Every 60 service hours **\$90A:** Every 90 service hours

J1A: annually J2A: every 2 years

Important checks and maintenance work to be carried out by the rider.

	NB1A
Check the engine oil level. (* P. 79)	•
Check the front brake fluid level. (* P. 56)	•
Check the rear brake fluid level. (P. 60)	•
Check the front brake linings. (* P. 57)	•
Check the rear brake linings. (* P. 61)	•
Check and adjust Bowden cables.	•
Bleed fork legs. (* P. 38)	•
Clean dust boots of fork legs. (* P. 39)	•

	NB1A
Clean the chain. (* P. 50)	•
Check the chain tension. (* P. 51)	•
Check the chain wear. (* P. 52)	•
Check the rear sprocket / engine sprocket for wear. (* P. 52)	•
Clean the air filter. (* P. 75)	•
Checking the tire air pressure. (P. 66)	•
Check the tire condition. (* P. 66)	•
Check the coolant level. (* P. 72)	•
Empty the carburetor float chamber. (* P. 78)	•
Check that all operating elements for smooth operation.	•
Check braking.	•
Check all screws, nuts and hose clamps regularly for tightness.	•

NB1A: Depending on conditions of use according to requirements.

Jacking up the motorcycle



Note

Danger of damage Danger of damage by the vehicle running away or falling over.

- Always place the vehicle on a firm and even surface.
- Jack up the motorcycle underneath the engine. The wheels must no longer touch the ground.

Work stand (54829055000)

Secure the motorcycle against falling over.

Removing the motorcycle from the work stand

Note

Danger of damage Danger of damage by the vehicle running away or falling over.

- Always place the vehicle on a firm and even surface.
- Remove the motorcycle from the work stand.
- Remove the work stand.

Checking the basic chassis setting with the rider's weight



Info

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

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

Standard rider weight

75... 85 kg (165... 187 lb.)

- If your weight is above or below the standard range, you have to adjust the basic setting of the suspension components 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 shock absorber can regulate compression damping in low- and high-speed range separately (Dual Compression Control).

The term low and high speed refers to the movement of the shock absorber during compression and not the riding speed of the motor-cycle.

The low- and high-speed technology works non-specifically.

Adjusting high-speed compression damping of the shock absorber



Danger

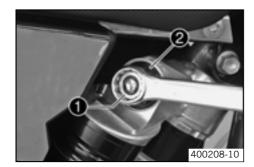
Danger of accidents The shock absorber is under high pressure.

 The shock absorber is filled with highly compressed nitrogen, so never dismantle the shock absorber or carry out any maintenance on it yourself.



Info

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



Turn the adjusting screw ● clockwise with a ring wrench until it stops.



Info

Do not loosen nut 2!

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

Specification

Compression damping, high-speed		
Comfort	2 turns	
Standard	1.5 turns	
Sport	1 turn	



Info

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

Adjusting the low-speed compression damping of the shock absorber



Danger

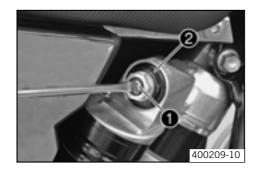
Danger of accidents The shock absorber is under high pressure.

The shock absorber is filled with highly compressed nitrogen, so never dismantle the shock absorber or carry out any maintenance on it yourself.



Info

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



Turn the adjusting screw 1 clockwise with a screwdriver until it stops.



Info

Do not loosen nut 2!

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

Specification

Compression damping, low-speed		
Comfort	18 clicks	
Standard	15 clicks	
Sport	12 clicks	



Info

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

Adjusting rebound damping of the shock absorber



Danger

Danger of accidents The shock absorber is under high pressure.

 The shock absorber is filled with highly compressed nitrogen, so never dismantle the shock absorber or carry out any maintenance on it yourself.



Turn the adjusting screw ① clockwise until it stops.



Info

Do not loosen nut 2!

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

Specification

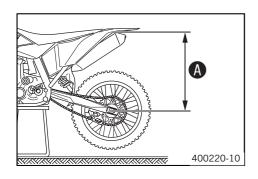
Rebound damping	
Comfort	24 clicks
Standard	22 clicks
Sport	20 clicks



Info

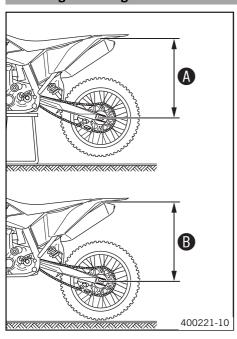
Turn clockwise to increase damping, turn counterclockwise to reduce suspension damping.

Measuring rear wheel sag unloaded



- Jack up the motorcycle. (* P. 32)
- Measure the distance as vertical as possible between the rear axle and a fixed point, for example, a mark on the side cover.
- Make a note of the value as measurement •.
- Remove the motorcycle from the work stand. (* P. 32)

Checking static sag of the shock absorber



- Measure distance ♠ of rear wheel unloaded. (▼ P. 34)
- Ask someone to help you by holding the motorcycle upright.
- Measure the distance between the rear axle and the fixed point again.
- Make a note of the value as measurement **3**.



Info

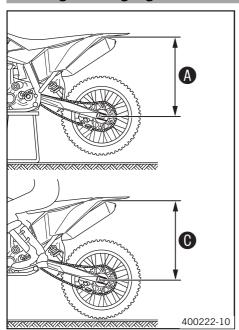
The static sag is the difference between measurements **@** and **@**.

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. (P. 35)

Checking the riding sag of the shock absorber



- Measure distance of rear wheel unloaded. (P. 34)
- With another person holding the motorcycle, sit on the saddle with full protective clothing in a normal sitting position (feet on footrests) and bounce up and down a few times until the rear suspension levels out.
- The other person now has to measure the distance between the rear axle and a fixed point.
- Make a note of the value as measurement •.



Info

The riding sag is the difference between measurements **4** and **6**.

Check the riding sag.

Riding sag 105 mm (4.13 in)

- » If the riding sag differs from the specified measurement:
 - Adjust the riding sag. (* P. 36)

Adjusting spring preload of the shock absorber 🔧



Danger

Danger of accidents The shock absorber is under high pressure.

The shock absorber is filled with highly compressed nitrogen, so never dismantle the shock absorber or carry out any maintenance on it yourself.

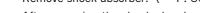


Info

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. 36)



- After removing the shock absorber, clean it thoroughly.
- Loosen screw •.
- Turn adjusting ring 2 until the spring is no longer under tension.

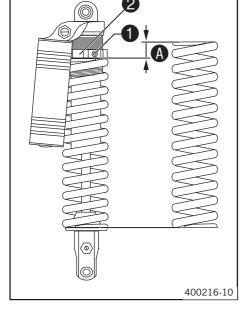
Combination wrench (50329080000)

Hook wrench (T106S)

- Measure the overall spring length when not under tension.
- Tighten the spring by turning adjusting ring 2 to measurement 4.

Specification

Spring preload
Standard 9 mm



i

Info

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

Tighten screw ①.

Specification

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

Installing shock absorber. (* P. 36)

Adjusting riding sag 🔧

- Remove shock absorber. (* P. 36)
- After removing the shock absorber, clean it thoroughly.
- Choose and fit a suitable spring.

Specification

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)

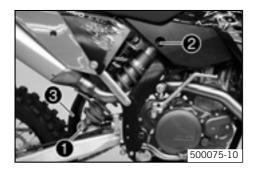


Info

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

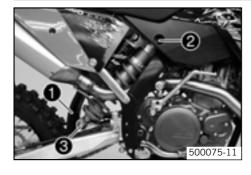
- Installing shock absorber. (* P. 36)
- Check the static sag of the shock absorber. (* P. 34)
- Check the riding sag of the shock absorber. (* P. 35)
- Adjust the rebound damping of the shock absorber. (* P. 33)

Removing the shock absorber 🔦



- Jack up the motorcycle. (* P. 32)
- Remove screw 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.

Installing shock absorber 🔧



- Check parts for damage and wear. Replace damaged or worn parts.
- Push splash protector to the side and position the shock absorber. Mount and tighten screw •.

Specification

Screw, top shock absorber	M12	80 Nm (59 lbf ft)	Loctite® 243™
		(00 101 11)	

Mount and tighten screw 3.

Specification

Screw, bottom shock ab-	M12	80 Nm	Loctite® 243™
sorber		(59 lbf ft)	



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.

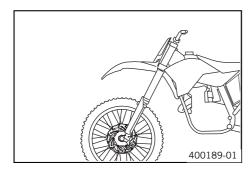
Remove the motorcycle from the work stand. (* P. 32)

Checking basic setting of fork



Info

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



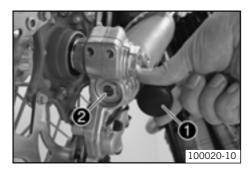
- As with the shock absorber, smaller weight differences can be compensated by the spring preload.
- However, if your fork is often overloaded (hard end stop on compression), you must fit harder springs to avoid damage to the fork and frame.

Adjusting compression damping of fork



Info

The hydraulic compression damping determines the fork suspension behavior.



- Remove protection covers ①.
- Turn adjusting screws ② clockwise until they stop.



Info

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 the number of clicks corresponding to the fork type.
 Specification

Compression damping (EXC-R EU, EXC-R AUS/UK, EXC-R USA, XCR-W)			
Comfort 24 clicks			
Standard 20 clicks			
Sport	18 clicks		
Compression damping (EXC-R SIX DAYS)			
Comfort 24 clicks			
Standard	22 clicks		
Sport	18 clicks		



Info

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

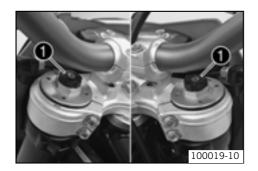
Mount protection covers ①.

Adjusting rebound damping of fork



Info

The hydraulic rebound damping determines the fork suspension behavior.



Turn adjusting screws • clockwise until they stop.



Info

The adjusting screws • are located at the top end of the fork legs. Make the same adjustment on both fork legs.

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

Rebound damping (EXC-R EU, EXC-R AUS/UK, EXC-R USA, XCR-W)			
Comfort	mfort 20 clicks		
Standard 18 clicks			
Sport 18 clicks			
Rebound damping (EXC-R SIX DAYS)			
Comfort 20 clicks			
Standard	20 clicks		
Sport	18 clicks		



Info

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

Adjusting spring preload of the fork



Turn adjusting screws counterclockwise until they stop.

i

Info

Make the same adjustment on both fork legs.

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

Spring preload - Preload Adjuster (EXC-R EU, EXC-R AUS/UK, EXC-R USA, XCR-W)			
Comfort	2 turns		
Standard	4 turns		
Sport	7 turns		
Spring preload - Preload Adjuster (EXC-R SIX DAYS)			
Comfort 2 turns			
Standard	2 turns		
Sport	7 turns		



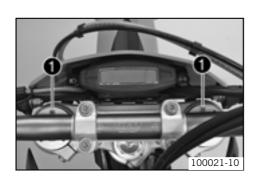
Info

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.

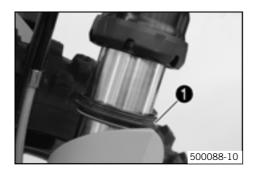
Basically, however, you should set the rebound damping higher with a higher spring preload.

Bleeding fork legs



- Jack up the motorcycle. (♥ P. 32)
- Remove bleeder screws briefly.
 - ✓ Any excess pressure escapes from the interior of the fork.
- Mount and tighten bleeder screws.
- Remove the motorcycle from the work stand. (P. 32)

Cleaning dust boots of fork legs



- Jack up the motorcycle. (* P. 32)
- Loosen the fork protection. (*P. 39)
- Push dust boots of both fork legs downwards.



Info

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



Warning

Danger of accidents Reduced braking 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. 115)

- Press the dust boots back into their normal position.
- Remove excess oil.
- Position the fork protection. (* P. 39)
- Remove the motorcycle from the work stand. (* P. 32)

Loosening the fork protection



- Remove screws and take off clamp.
- Remove screws ② on left fork leg. Push the fork protection downwards.
- Remove the screws on the right fork leg. Push the fork protection downwards.

Positioning the fork protection



Position the fork protection on the left fork leg. Mount and tighten screws ①.
 Specification

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

- Position the brake line and cable harness. Put the clamp on, mount and tighten screws ②.
- Position the fork protection on the right fork leg. Mount and tighten screws.
 Specification

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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Checking play of steering head bearing



Warning

Danger of accidents Unsafe riding behavior due to incorrect steering head bearing play.

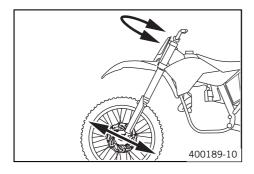
- The steering head bearing play should be adjusted immediately in an authorized KTM workshop.



Info

If the bike is driven for a longer time with play in the steering head bearing, the bearing and the bearing seats in the frame can be damaged after time.

Jack up the motorcycle. (* P. 32)



 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-R SIX DAYS, XCR-W USA)

Adjust play of the steering head bearing. (* P. 40)

(EXC-R EU, EXC-R AUS/UK, EXC-R USA, XCR-W ZA)

- Adjust play of the steering head bearing. (* P. 40)
- 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-R SIX DAYS, XCR-W USA)

Adjust play of the steering head bearing. (* P. 40)

(EXC-R EU, EXC-R AUS/UK, EXC-R USA, XCR-W ZA)

- Adjust play of the steering head bearing. (* P. 40)
- Check the steering head bearing and replace if required.
- Remove the motorcycle from the work stand. (* P. 32)

Adjusting play of steering head bearing 4 (EXC-R EU, EXC-R AUS/UK, EXC-R USA, XCR-W ZA)

- **1**00022-10
- Jack up the motorcycle. (* P. 32)
- Loosen screws and •.
- Loosen and retighten screw 3.

Specification

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

Specification

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

Tighten screw ②.

Specification

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

Check play of steering head bearing. (* P. 39)

Adjusting play of steering head bearing 4 (EXC-R SIX DAYS, XCR-W USA)

- 3 2 500103-11
- Jack up the motorcycle. (* P. 32)
- Loosen screw ①. Remove screw ②.
- Loosen and retighten screw 3.

Specification

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.

Specification

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

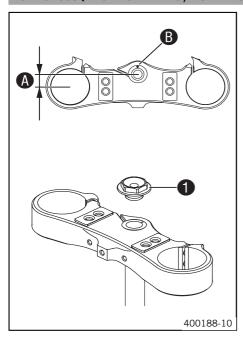
Mount and tighten screw ②.

Specification

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

Check play of steering head bearing. (* P. 39)

Fork offset (EXC-R SIX DAYS, XCR-W USA)



You can see the currently set offset if you remove screw **①**.

The fork offset **1** 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 **1** to the front gives greater stability on fast racetracks.

Fork offset	
Front marking	18 mm (0.71 in)

Marking **1** to the rear (condition at delivery) gives better handling in bends.

Fork offset	
Rear marking	20 mm (0.79 in)

Setting the fork offset **◄** (EXC-R SIX DAYS, XCR-W USA)



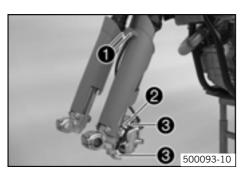
- Remove the lower triple clamp. (* P. 43)
- Remove screw ①. Remove the steering stem.
- Clean the parts and check for damage.
- Rotate the steering stem 180° and insert into the triple clamp. Mount and tighten screw 1.

Specification

Screw, bottom steering	M20x1,5	60 Nm	Loctite [®] 243™
head		(44.3 lbf ft)	

Install the lower triple clamp. (* P. 44)

Removing the fork legs

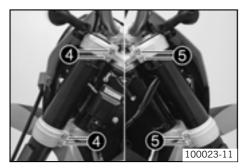


- Remove front wheel. (* P. 63)
- Remove screws and take off clamp.
- Remove cable clip ②, remove screw ③ and take off the brake caliper.
- Hang the brake caliper and the brake line loosely to the side.



(EXC-R SIX DAYS, XCR-W USA)

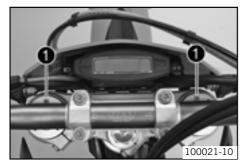
- Loosen screw 4. Remove the fork leg on the left.
- Loosen screw 6. Remove the fork leg on the right.



(EXC-R EU, EXC-R AUS/UK, EXC-R USA, XCR-W ZA)

- Loosen screw 4. Remove the fork leg on the left.
- Loosen screw **3**. Remove the fork leg on the right.

Installing the fork legs 4



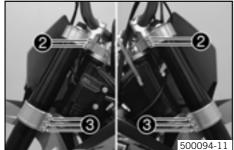
- Check parts for damage and wear. Replace damaged or worn parts.
- Position the fork legs.



Info

The topmost sunk nut in the fork leg must be flush to the upper edge of the upper triple clamp.

Position the bleeder screw 1 to the front.



(EXC-R SIX DAYS, XCR-W USA)

Fully tighten screw 2.

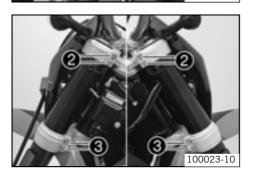
Specification

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

Fully tighten screw 6.

Specification

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



(EXC-R EU, EXC-R AUS/UK, EXC-R USA, XCR-W ZA)

Fully tighten screw ②.

Specification

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

- Fully tighten screw 3.

Specification

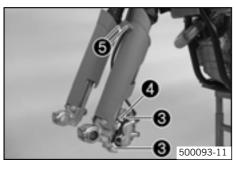
Screw, bottom triple clamp	M8	15 Nm
		(11.1 lbf ft)

Position brake caliper, mount and tighten screws 3.

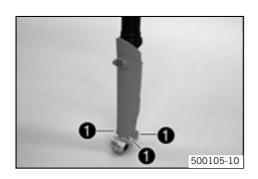
Specification

Screw, front brake caliper	M8	25 Nm (18.4 lbf ft)	Loctite [®] 243™
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- Fit cable clip 4.
- Position the brake line and cable harness. Put the clamp on, mount and tighten screws §.
- Fit front wheel. (*P. 64)

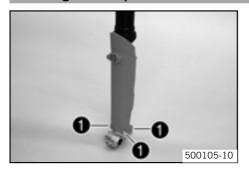


Removing the fork protector 🔏



- Remove the fork legs. (* P. 41)
- Remove screws 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 🔏



- Check parts for damage and wear. Replace damaged or worn parts.
- Position the fork protection on the left fork leg. Mount and tighten screws ①.
 Specification

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

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

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

Install the fork legs. (* P. 42)

Removing the lower triple clamp → (EXC-R SIX DAYS, XCR-W USA)

- Remove the fork legs. (P. 41)

(XCR-W USA)

Dismount the start number plate. (▼ P. 47)

(EXC-R SIX DAYS)

- Remove the headlight mask with the headlight. (* P. 46)
- Dismount the front fender. (* P. 46)
- Remove screws 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 top triple clamp with the handlebar and place it on one side.

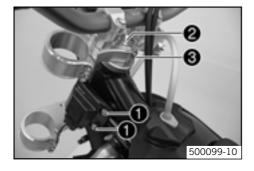


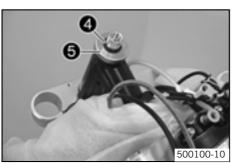
Info

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



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





- Remove the fork legs. (* P. 41)
- Remove the headlight mask with the headlight. (* P. 46)
- Dismount the front fender. (♥ P. 46)
- Remove screws 1 and hang the CDI control unit to the side.



Info

Do not unplug the CDI control unit.

 Remove screw ②. Loosen screw ③. Take off top triple clamp with the handlebar and place it on one side.



Info

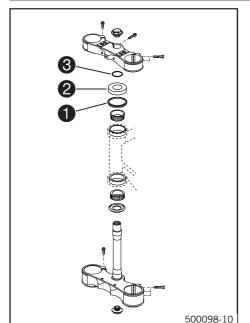
Protect the motorcycle and its attachments from damage by covering them. Do not bend the cables and lines.

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



Installing the lower triple clamp 🌂 (EXC-R SIX DAYS, XCR-W USA)

500149-10



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

Long-life grease (P. 115)

 Insert the lower triple clamp with the steering stem. Mount the upper steering head bearing.



Info

Check whether the top steering head seal **1** is correctly positioned.

Push up protective ring 2 and o-ring 3.

Position the upper triple clamp with the steering.
Mount and tighten screw 4.

Specification

Screw, top steering head M20x1,5 10 Nm (7.4 lbf ft)	Screw, top steering head	M20x1,5	10 Nm (7.4 lbf ft)
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 Position the clutch line, wiring harness and CDI control unit. Mount and tighten screws 6.

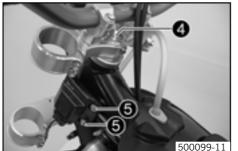
Specification

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

Install the front fender. (P. 46)

(XCR-W USA)

- Fit the start number plate. (* P. 47)





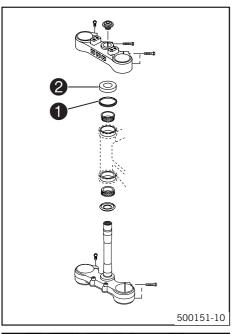
- Refit the headlight mask with the headlight. (* P. 47)
- Install the fork legs. (* P. 42)
- Mount and tighten screw 6.

Specification

Screw, top steering stem	M8	17 Nm (12.5 lbf ft)	Loctite® 2431M

- Check the cable harness, cable, brake and clutch line for free movement and free laying.
- Check play of steering head bearing. (* P. 39)

500103-10



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

Long-life grease (P. 115)

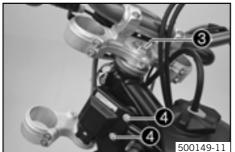
 Insert the lower triple clamp with the steering stem. Mount the upper steering head bearing.



Info

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 and tighten screw 3.

Specification

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

 Position the clutch line, wiring harness and CDI control unit. Mount and tighten screws 4.

Specification

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

- Install the front fender. (* P. 46)
- Refit the headlight mask with the headlight. (P. 47)
- Install the fork legs. (♥ P. 42)
- Tighten screw 6.

Specification

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

- Check the cable harness, cable, brake and clutch line for free movement and free laying.
- Check play of steering head bearing. (P. 39)



Greasing the steering head bearing 🔌

(EXC-R SIX DAYS, XCR-W USA)

Remove the lower triple clamp. (P. 43) Install the lower triple clamp. (P. 44)

(EXC-R EU, EXC-R AUS/UK, EXC-R USA, XCR-W ZA)

Remove the lower triple clamp. (P. 44) Install the lower triple clamp. (P. 45)

Dismounting the front fender



- Remove screws ①. Remove the front fender.
- Make sure that the distance bushings remain in place.

Installing the front fender



- Check parts for damage and wear. Replace damaged or worn parts.
- Make sure that the distance bushings are mounted in the fender.
- Position the front fender. Mount and tighten screws ①.
 Specification

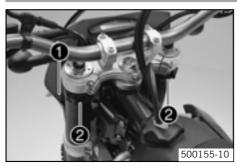
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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Info

Ensure that there is contact between the holding lugs and the start number plate or headlight mask.

Removing headlight mask with headlight (EXC-R EU, EXC-R AUS/UK, EXC-R SIX DAYS, EXC-R USA, XCR-W ZA)

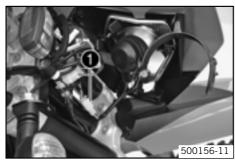


- Switch off all electrical equipment.
- Remove screw and take off clamp.
- Loosen the rubber band ②. Push up the headlight mask and swing it forwards.

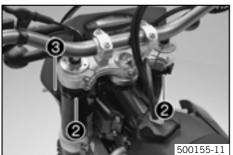


 Pull out the electric plug connector 3 and remove the headlight mask with the headlight.

Refitting the headlight mask with the headlight (EXC-R EU, EXC-R AUS/UK, EXC-R SIX DAYS, EXC-R USA, XCR-W ZA)



- Check parts for damage and wear. Replace damaged or worn parts.
- Connect the electric plug connector •.



Position the headlight mask and fix it with the rubber band ②.



Info

Take care with the contact of the holding lug at the fender.

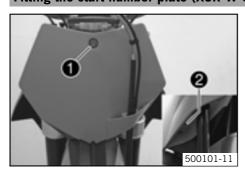
- Position the brake line and cable harness. Put the clamp on, mount and tighten screw 3.
- Check the headlamp setting.

Dismount the start number plate (XCR-W USA)



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

Fitting the start number plate (XCR-W USA)



- Check parts for damage and wear. Replace damaged or worn parts.
- Position the start number plate. Fit and tighten screw with distance bushing.
 Specification

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

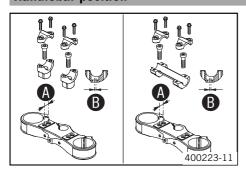


Info

Take care with the contact of the holding lug at the fender.

Position the brake line and cable harness. Put the clamp on, mount and tighten screw ②.

Handlebar position



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

Distance 4 between holes 15 mm (0.59 in)

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

Distance **6** between holes 3.5 mm (0.138 in)

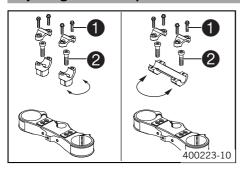
The handlebar supports can be mounted in 4 different positions.

(EXC-R SIX DAYS)

The handlebar supports can also be mounted at 2 different heights (with and without spacer).

Thick spacer	9 mm (0.35 in)
--------------	----------------

Adjusting handlebar position 4



(EXC-R EU, EXC-R AUS/UK, EXC-R USA, XCR-W)

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



Info

Protect the motorcycle and its attachments from damage by covering them.

Do not bend the cables and lines.

- Remove the two screws ②. Remove the handlebar support.
- Check parts for damage and wear. Replace damaged or worn parts.
- Place the handlebar support in the required position. Fit and tighten the two screws ②.

Specification

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



Info

Position the left and right handlebar supports evenly.

- Position the handlebar.



Info

Make sure cables and wiring are positioned correctly.

Position the handlebar clamp. Fit and evenly tighten the four screws ①.
 Specification

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



Info

Make sure the gap width is even.

(EXC-R SIX DAYS)

- Remove the four screws ①. Remove the handlebar clamps ② with rubber washers ③ and elastomers ④.
- Remove the handlebar and lay it to one side.

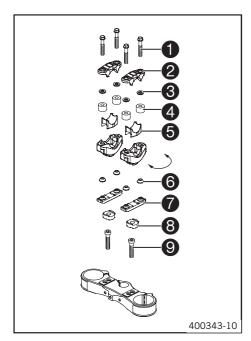


nfo

Protect the motorcycle and its attachments from damage by covering them.

Do not bend the cables and lines.

- Remove the lower shells **6**.
- Remove the clamp bar with the rubber cones 6.
- Remove the two screws 9. Remove the handlebar support.
- Check parts for damage and wear. Replace damaged or worn parts.



 Place the handlebar support in the required position. Fit and tighten the two screws 9.

Specification

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

Condition

3 Spacer fitted:

Use a M10x35 screw

Condition

without a spacer 8:

Use a M10x25 screw



Info

Position the left and right handlebar supports evenly.

- Fit the rubber cones 6 and clamp bar 7.
- Fit the lower shells 6.
- Position the handlebar.



Info

Make sure cables and wiring are positioned correctly.

Position the handlebar clamps 2 with rubber washers 3 and elastomers 4.

Elastomer kit green - soft quality (SXS05125203)

Elastomer kit yellow - medium quality (standard) (SXS05125204)

Elastomer kit red - hard quality (SXS05125205)



Info

The elastomeres are available in different versions.

Fit and evenly tighten the four screws ①.

Specification

Screw, handlebar clamp	M8	16 Nm
		(11.8 lbf ft)



Info

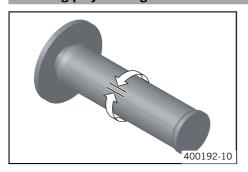
Make sure the gap width is even.

Checking gas Bowden cable route



 The two gas Bowden cables must run parallel behind the handlebar down to the frame. They must be routed directly on the frame above the tank bearing to the carburetor.

Checking play in the gas Bowden cable



 Move the handlebar to the straight-ahead position. Move the throttle grip back and forth slightly to ascertain the play in the gas Bowden cable.

Play in gas Bowden cable 3... 5 mm (0.12... 0.2 in)

- » If the gas Bowden cable play does not meet specifications:
 - Adjust the gas Bowden cable play. (* P. 50)



Danger

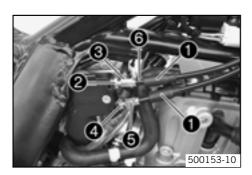
Danger of poisoning Exhaust gases are poisonous and can result in unconsciousness and/or death.

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in a closed space.
- Start the engine and let it run idle. Move the handlebar to and fro over the entire steering range.

The idle speed must not change.

- » If the idle speed changes:
 - Adjust the gas Bowden cable play. (* P. 50)

Adjusting the gas Bowden cable play 🔧



- Dismount the fuel tank. (* P. 70)
- Check gas Bowden cable route. (* P. 49)
- Move the handlebar to the straight-ahead position.
- Push back bellows 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 gas Bowden cable at the throttle grip.

Specification

Play in gas Bowden cable 3... 5 mm (0.12... 0.2 in)

- Tighten nut 4
- Press and hold the throttle grip in the closed setting. Turn adjusting screw out until there is no play in the Bowden cable .
- Tighten nut ②.
- Push bellows on. Check the throttle grip for smooth operation.
- Install the fuel tank. (* P. 70)
- Check play in the gas Bowden cable. (* P. 50)

Checking chain dirt

- Check the chain for coarse dirt accumulation.
 - » If the chain is very dirty:
 - Clean the chain. (* P. 50)

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 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 Problem materials cause environmental damage.

- Dispose of oil, grease, filters, fuel, cleaning substances, brake fluid, batteries, etc. according to regulations.



nfo

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)

Offroad 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 for correct chain tension and adjust if necessary.



- Jack up the motorcycle. (* P. 32)
- Push the chain at the end of the chain sliding component upwards to measure the chain tension .



Info

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:
 - Adjusting chain tension after checking. (* P. 53)
- Remove the motorcycle from the work stand. (♥ P. 32)

Checking the chain tension when fitting rear wheel



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 for correct chain tension and adjust if necessary.



- Make sure that the chain adjusters are fitted correctly on the adjusting screws.
- Push the chain at the end of the chain sliding component upwards to measure chain tension .



Info

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

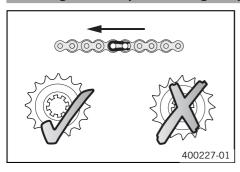
Chain wear is not always even, so you should repeat this measurement at different chain positions.

Chain tension

8... 10 mm (0.31... 0.39 in)

- » If the chain tension does not meet specifications:
 - Adjust the chain tension when fitting rear wheel. (* P. 54)

Checking the rear sprocket / engine sprocket for wear



- Check the rear sprocket / engine sprocket for wear.
 - » If the rear sprocket / engine sprocket are worn:
 - Replace rear sprocket / engine sprocket.



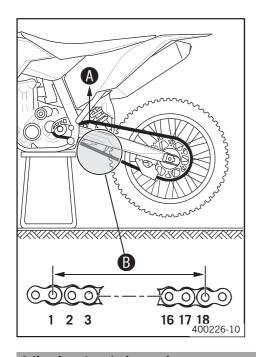
Info

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

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

Check that the chain guide is firmly seated and not worn.

Checking chain wear



- Jack up the motorcycle. (*P. 32)

Chain tension	10 15 kg (22 33 lb.)

Measure distance
 of 18 chain links in the lower chain section.



Info

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

Maximum distance 3 at the longest	272 mm (10.71 in)
chain section	

- » If distance **(B)** is greater than the specified measurement:
 - Replace the chain.



Info

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

New chains wear out faster on old, worn sprockets.

Remove the motorcycle from the work stand. (* P. 32)

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 for correct chain tension and adjust if necessary.



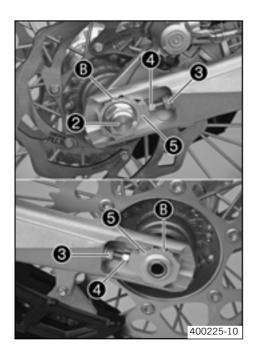
- Jack up the motorcycle. (▼ P. 32)
- Push the chain at the end of the chain sliding component upwards to measure chain tension .



Info

The upper chain section • must be taut.

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



- Loosen nut ②.
- Loosen nuts 3.
- Adjust the chain tension by turning the left and right adjusting screws 4.
 Specification

Chain tension 8... 10 mm (0.31... 0.39 in)

Turn the left and right adjusting screws **3** so that the markings on the left and right chain adjusters are in the same position relative to the reference marks **3**. The rear wheel is then correctly aligned.

- Tighten nuts 3.
- Make sure that chain adjusters 6 are fitted correctly on the adjusting screws 6.
- Tighten nut ②.

Specification

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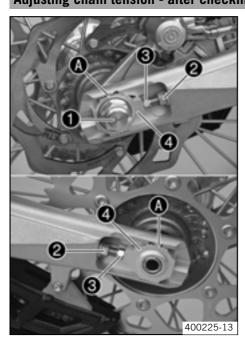


Info

The wide adjustment range of the chain adjusters (32 mm) enables different secondary transmissions with the same chain length. Chain adjusters **6** can be turned by 180°.

Remove the motorcycle from the work stand. (* P. 32)

Adjusting chain tension - after checking



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

Chain tension 8... 10 mm (0.31... 0.39 in)

Turn the adjusting screws **3** left and right so that the markings on the left and right chain adjusters are in the same position relative to the reference marks **3**. The rear wheel is then correctly aligned.

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

Specification

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

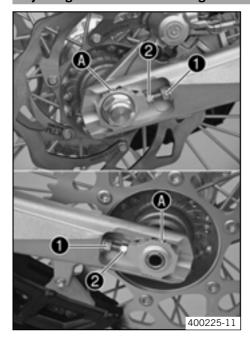


Info

The wide adjustment range of the chain adjusters (32 mm) enables different secondary transmissions with the same chain length.

The chain adjusters **4** can be turned by 180°.

Adjusting chain tension - fitting rear wheel



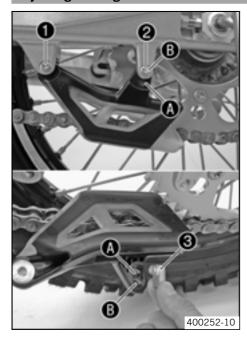
- Loosen nuts 1.
- Adjust the chain tension by turning the adjusting screws ② left and right.
 Specification

Chain tension 8... 10 mm (0.31... 0.39 in)

Turn the adjusting screws ② left and right so that the markings on the left and right chain adjusters are in the same position relative to the reference marks ③. The rear wheel is then correctly aligned.

- Tighten nuts 1.

Adjusting chain guide 🔌



- Remove screws 1 and 2. Take off the chain guide.

Conditions

Number of teeth: ≤ 44 teeth

- Insert nut 3 in hole 4. Position the chain guide.
- Mount and tighten screws and •.
 Specification

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

Conditions

Number of teeth: ≥ 45 teeth

- Insert nut 3 in hole 3. Position the chain guide.
- Mount and tighten screws and •.
 Specification

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

Brake fluid reservoir



Warning

Danger of accidents Brake system failure.

- If the brake fluid level falls below the **MIN** mark, this indicates a leakage in the brake system or worn-out brake linings. Have the brake system checked in an authorized KTM workshop, and do not ride any further.

The brake fluid reservoirs of the front and rear brakes are dimensioned so that they do not need topping up with brake fluid even if the brake linings are worn.

Brake calipers

The brake calipers of this series are "floating", which means that they are not fixed to the brake caliper support. The lateral compensation ensures an optimal position of the brake pad in relation to the brake disc.

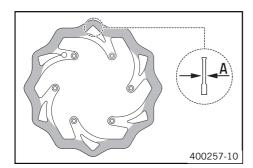
Checking brake discs



Warning

Danger of accidents Reduced braking due to worn brake discs.

- Worn brake discs should be replaced immediately by an authorized KTM workshop.



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



Info

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

Wear limit of brake discs	
front	2.5 mm (0.098 in)
Rear	3.5 mm (0.138 in)

- The brake disc thickness is less than the specified value.
 - Replace the brake disc.

Checking free play 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 on the front brake in the brake system. The front brake can fail due to overheating. Adjust free travel on hand brake lever according to specifications.





(Every XCR-W models)

Push the hand brake lever forwards and check free play.

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

- If the free travel does not meet specifications:
 - adjust the basic position of handbrake lever. (P. 56)

(Every EXC-R models)

Push the hand brake to the handlebar and check free play .

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

- If the free travel does not meet specifications:
 - Adjust the free travel of the handbrake lever. (P. 56)

Adjusting basic position of handbrake lever (Every XCR-W models)



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



Info

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

Turn the adjusting screw counterclockwise to decrease the distance between the handbrake 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!

Check the free play of the hand brake lever. (P. 55)

Adjusting free travel of handbrake lever (Every EXC-R models)



Adjust the free travel of the handbrake lever with the adjustment screw ①.



Info

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!

Check the free play of the hand brake lever. (P. 55)

Checking the front brake fluid level



Warning

Danger of accidents Brake system failure.

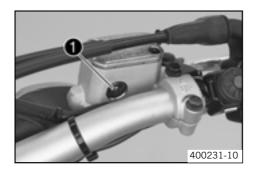
If the brake fluid level falls below the MIN mark, this indicates a leakage in the brake system or worn-out brake linings.
 Have the brake system checked in an authorized KTM workshop, and do not ride any further.



Warning

Danger of accidents Reduced braking due to old brake fluid.

- Have the front and rear brake fluid replaced according to the service plan in an authorized KTM workshop.



- Move the brake fluid reservoir mounted on the handlebar to a horizontal position.
- Check the brake fluid level in the viewer ①.
 - » If the brake fluid is below the MIN mark:
 - Top up the brake fluid of the front brake. (* P. 56)

Topping up the front brake fluid 🔌



Warning

Danger of accidents Brake system failure.

If the brake fluid level falls below the MIN mark, this indicates a leakage in the brake system or worn-out brake linings.
 Have the brake system checked in an authorized KTM workshop, and do not ride any further.



Warning

Skin irritations Brake fluid can cause skin irritation on contact.

- Avoid contact with skin and eyes, and keep out of the reach of children.
- If brake fluid gets into your eyes, rinse thoroughly with water and contact a doctor immediately.



Warning

Danger of accidents Reduced braking due to old brake fluid.

Have the front and rear brake fluid replaced according to the service plan in an authorized KTM workshop.



Warning

Environmental hazard Problem materials cause environmental damage.

- Dispose of oil, grease, filters, fuel, cleaning substances, brake fluid, batteries, etc. according to regulations.



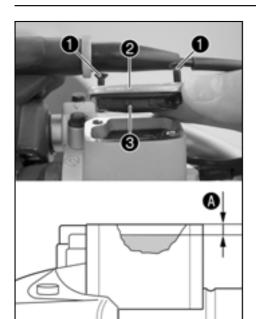
Info

KTM recommends DOT 5.1 brake fluid from **Motorex®**. This has a higher wet boiling point than DOT 4 brake fluid and provides greater safety for high demands.

Never user DOT 5 brake fluid! This is based on silicone oil and is colored purple. 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 the cover **2** with membrane **3**.
- Top up brake fluid to level A.

Specification

Measurement of 4 5 mm (0.2 in)

Brake fluid DOT 5.1 (P. 114)

- Check parts for damage and wear. Replace damaged or worn parts.
- Position the cover with membrane. Mount and tighten screws.



Info

Clean up overflowed or spilt brake fluid immediately with water.

Checking the front brake linings

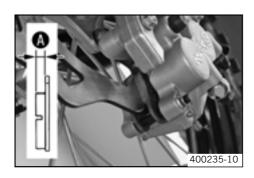


Warning

Danger of accidents Reduced braking due to worn brake linings.

400230-10

- Worn brake linings should be replaced immediately in an authorized KTM workshop.



- Check the brake linings for minimum thickness •.
 - » Minimum thickness **①**: ≥ 1 mm (≥ 0.04 in) If the minimum thickness is less than specified:
 - Change the front brake linings. (* P. 59)

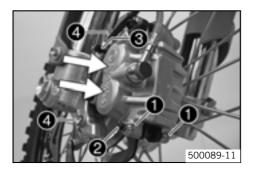
Removing front brake linings 🐴



Warning

Danger of accidents Improper brake maintenance and repair.

Always have your brake system maintained and repaired in an authorized KTM workshop.



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



Info

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

- Remove the locking split pins ①, withdraw the bolt ②, and take out the brake pads.
- Remove cable clip 3. Remove screws 4 and take off brake caliper.
- Clean brake caliper and brake caliper support.

Installing the front brake linings 🔌



Warning

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

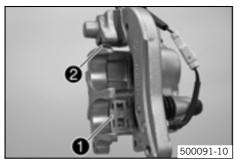
Always keep the brake discs free of oil and grease, and clean them with brake cleaner when necessary.



Warning

Danger of accidents Reduced braking 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.

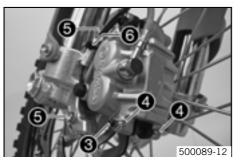


- Check the brake discs. (* P. 55)
- Check parts for damage and wear. Replace damaged or worn parts.
- Check that leaf spring in the brake caliper and sliding plate in the brake caliper support are seated correctly.



Info

The arrow on the leaf spring points in the rotation direction of the brake disc



- Fit the brake linings, insert bolt 3, and mount locking split pins 4.
- Position brake caliper, mount and tighten screws **6**.
 Specification

· Professional Control Control			
Screw, front brake caliper	M8	25 Nm (18.4 lbf ft)	Loctite® 243™

- Fit cable clip 6.
- Operate the hand brake lever repeatedly until the brake linings lie on the brake disc and there is a tight spot.

Changing the front brake linings &



Warning

Skin irritations Brake fluid can cause skin irritation on contact.

- Avoid contact with skin and eyes, and keep out of the reach of children.
- If brake fluid gets into your eyes, rinse thoroughly with water and contact a doctor immediately.



Warning

Danger of accidents Reduced braking due to old brake fluid.

- Have the front and rear brake fluid replaced according to the service plan in an authorized KTM workshop.



Warning

Environmental hazard Problem materials cause environmental damage.

- Dispose of oil, grease, filters, fuel, cleaning substances, brake fluid, batteries, etc. according to regulations.



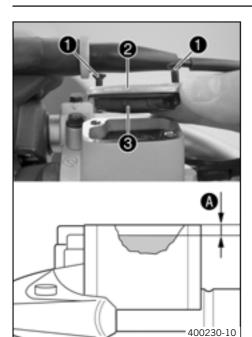
Info

KTM recommends brake fluid DOT 5.1 from **Motorex®**. This brake fluid has a higher wet boiling point than brake fluid DOT 4 and offers more protection under high load.

Never user DOT 5 brake fluid! This is based on silicone oil and is colored purple. Oil seals and brake lines are not designed for DOT 5 brake fluid.

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

Use only clean brake fluid from a sealed container!



- Remove the front brake linings. (* P. 58)
- Move the brake fluid reservoir mounted on the handlebar to a horizontal position.
- Remove screws ①.
- Remove cover ② with membrane ③.
- Press the brake piston back to its basic position and make sure that no brake fluid overflows from the brake fluid reservoir.
- Install the front brake linings. (* P. 58)
- Add brake fluid to level A.

Specification

Measurement of 1 5 mm (0.2 in)

Brake fluid DOT 5.1 (P. 114)

- Check parts for damage and wear. Replace damaged or worn parts.
- Position the cover with the membrane. Mount and tighten the screws.



Info

Clean up overflowed or spilt brake fluid immediately with water.

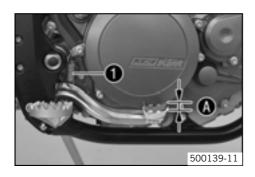
Checking free play of foot brake lever



Warning

Danger of accidents Brake system failure.

If there is no free travel on the foot brake pedal, pressure builds up on the rear brake in the brake system. The rear brake can fail due to overheating. Adjust free travel on foot brake pedal 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 play .

Specification

Free play 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 footbrake lever. (* P. 60)
- Reconnect spring ①.

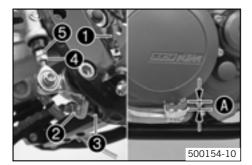
Adjusting basic position of footbrake lever 🔧



Warning

Danger of accidents Brake system failure.

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



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



Info

The range of adjustment is limited.

- Turn push rod **6** accordingly until you have free play **6**. If necessary, adjust the basic position of the footbrake lever.

Specification

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

- Hold screw 3 and tighten nut 2.

Specification

Remaining nuts, chassis	M8	30 Nm (22.1 lbf ft)
		(22.1 101 11)

Hold push rod 6 and tighten nut 4.

Specification

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

Reconnect spring ①.

Checking the rear brake fluid level



Warning

Danger of accidents Brake system failure.

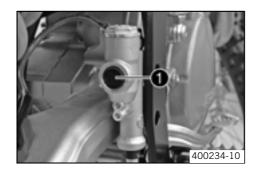
If the brake fluid level falls below the MIN mark, this indicates a leakage in the brake system or worn-out brake linings.
 Have the brake system checked in an authorized KTM workshop, and do not ride any further.



Warning

Danger of accidents Reduced braking due to old brake fluid.

- Have the front and rear brake fluid replaced according to the service plan in an authorized KTM workshop.



- Stand the vehicle upright.
- Check the brake fluid level in the viewer ①.
 - » When in the viewer **1** an air bubble is visible:
 - Add rear brake fluid. (* P. 61)

Adding rear brake fluid 🔌



Warning

Danger of accidents Brake system failure.

If the brake fluid level falls below the MIN mark, this indicates a leakage in the brake system or worn-out brake linings.
 Have the brake system checked in an authorized KTM workshop, and do not ride any further.



Warning

Skin irritations Brake fluid can cause skin irritation on contact.

- Avoid contact with skin and eyes, and keep out of the reach of children.
- If brake fluid gets into your eyes, rinse thoroughly with water and contact a doctor immediately.



Warning

Danger of accidents Reduced braking due to old brake fluid.

Have the front and rear brake fluid replaced according to the service plan in an authorized KTM workshop.



Warning

Environmental hazard Problem materials cause environmental damage.

- Dispose of oil, grease, filters, fuel, cleaning substances, brake fluid, batteries, etc. according to regulations.



Info

KTM recommends brake fluid DOT 5.1 from **Motorex®**. This brake fluid has a higher wet boiling point than brake fluid DOT 4 and offers more protection under high load.

Never user DOT 5 brake fluid! This is based on silicone oil and is colored purple. 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 with membrane and the O-ring.
- Add brake fluid to level A.

Brake fluid DOT 5.1 (P. 114)

- Check parts for damage and wear. Replace damaged or worn parts.
- Mount the screw cap with the membrane and the O-ring.



Info

Clean up overflowed or spilt brake fluid immediately with water.

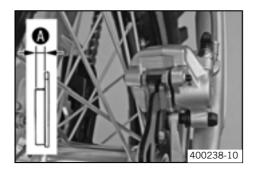
Checking rear brake linings



Warning

Danger of accidents Reduced braking due to worn brake linings.

- Worn brake linings should be replaced immediately in an authorized KTM workshop.



- Check the brake linings for minimum thickness **a**.
 - » Minimum thickness **②**: ≥ 1 mm (≥ 0.04 in) If the minimum thickness is less than specified:
 - Change the rear brake linings. (* P. 63)

Removing rear brake linings 🔧



Warning

Danger of accidents Improper brake maintenance and repair.

Always have your brake system maintained and repaired in an authorized KTM workshop.



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



Info

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

- Remove the locking split pins **1**, withdraw the bolt **2**, and take out the brake
- Clean brake caliper and brake caliper support.

Installing the rear brake linings 🔌



Warning

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

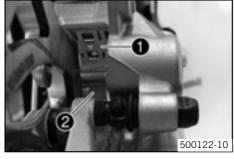
Always keep the brake discs free of oil and grease, and clean them with brake cleaner when necessary.

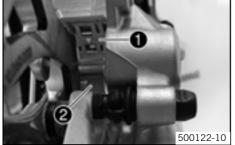


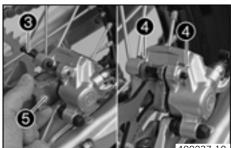
Warning

Danger of accidents Reduced braking 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.







- Check the brake discs. (P. 55)
- Check parts for damage and wear. Replace damaged or worn parts.
- Check that leaf spring 1 in the brake caliper and sliding plate 2 in the brake caliper support are seated correctly.



The arrow on the leaf spring points in the rotation direction of the brake

Fit the brake linings, insert bolt **3**, and mount locking split pins **4**.



Info

Make sure that the decoupling plate **9** is mounted on the piston side of the

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

Changing the rear brake linings 🔦



Warning

Skin irritations Brake fluid can cause skin irritation on contact.

- Avoid contact with skin and eyes, and keep out of the reach of children.
- If brake fluid gets into your eyes, rinse thoroughly with water and contact a doctor immediately.



Warning

Danger of accidents Reduced braking due to old brake fluid.

- Have the front and rear brake fluid replaced according to the service plan in an authorized KTM workshop.



Warning

Environmental hazard Problem materials cause environmental damage.

- Dispose of oil, grease, filters, fuel, cleaning substances, brake fluid, batteries, etc. according to regulations.



Info

KTM recommends brake fluid DOT 5.1 from **Motorex®**. This brake fluid has a higher wet boiling point than brake fluid DOT 4 and offers more protection under high load.

Never user DOT 5 brake fluid! This is based on silicone oil and is colored purple. Oil seals and brake lines are not designed for DOT 5 brake fluid.

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

Use only clean brake fluid from a sealed container!



- Remove the rear brake linings. (* P. 62)
- Stand the vehicle upright.
- Remove screw cap with membrane and the O-ring.
- Press the brake piston back to its basic position and make sure that no brake fluid overflows from the brake fluid reservoir.
- Install the rear brake linings. (* P. 62)
- Add brake fluid to level **a**.

Brake fluid DOT 5.1 (P. 114)

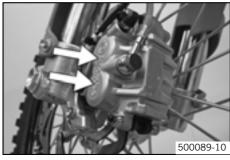
- Check parts for damage and wear. Replace damaged or worn parts.
- Mount the screw cap with the membrane and the O-ring.



Info

Clean up overflowed or spilt brake fluid immediately with water.

Removing front wheel



2 0 500084-10

- Jack up the motorcycle. (* P. 32)
- Press the brake caliper by hand on to the brake disc in order to press back the brake pistons.



Info

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

- Remove screw ①.
- Loosen screw ②.



3 3 500086-10 Holding the front wheel, withdraw the wheel spindle. Take the front wheel out of the fork.



Info

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

Remove distance bushing 3.

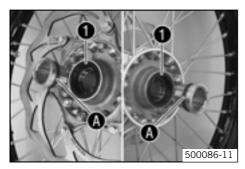
Fitting front wheel 🔌



Warning

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

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



- Check parts for damage and wear. Replace damaged or worn parts.
- Clean and grease shaft seal rings and bearing surface of the distance bushings.

Long-life grease (P. 115)

Fit the distance bushings.



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

Specification

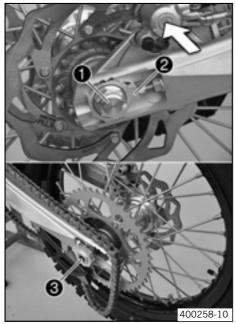
Screw, front wheel spindle	M24x1,5	40 Nm
		(29.5 lbf ft)

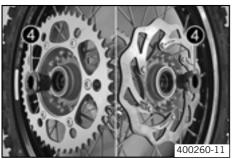
- Operate the hand brake lever several times until the brake pads are lying correctly on the brake disc.
- Remove the motorcycle from the work stand. (* P. 32)
- Pull the front wheel brake and push down hard on the fork several times to align the fork legs.
- Fully tighten screw 3.

Specification

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

Removing rear wheel 🔌





- Jack up the motorcycle. (* P. 32)
- Press the brake caliper by hand on to the brake disc in order to press back the brake piston.



Info

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 the 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 swing arm.



Info

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

Remove the spacing sleeves 4.

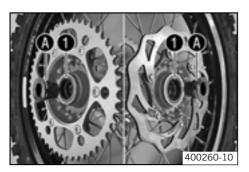
Fitting rear wheel 🔌



Warning

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

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



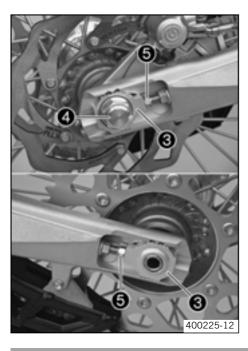
- Check parts for damage and wear. Replace damaged or worn parts.
- Clean and grease shaft seal rings and bearing surface of the spacing sleeves.

Long-life grease (P. 115)

Fit the spacing sleeves.



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



- Position the chain adjuster 3. Fit nut 4, but do not tighten it yet.
- Check the chain tension when fitting rear wheel. (* P. 51)
- Tighten nut 4.

Specification

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



Info

The wide adjustment range of the chain adjusters (32 mm) enables different secondary transmissions with the same chain length.

- The chain adjusters **3** can be turned by 180°.
- Operate the foot brake lever repeatedly until the brake linings lie on the brake disc and there is a tight spot.
- Remove the motorcycle from the work stand. (* P. 32)

Tire condition checking



Info

Fit only tires approved 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 fitted with tires with similar profiles.

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

- Examine the tires for cuts, foreign bodies and other damage.
- Check the depth of the tread.



Info

Note local national regulations concerning the minimum tread depth.

Minimum tread depth: ≥ 2 mm (≥ 0.08 in) If the minimum tread depth is insufficient:

- Replace the tire(s).

Checking tire air pressure



Info

Low tire air pressure leads to abnormal wear and overheating of the tire.

Correct tire air pressure ensures optimal riding comfort and maximum tire service life.



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

ire air pressure off road	
front	1.0 bar (15 psi)
Rear	1.0 bar (15 psi)
Road tire pressure (Every EXC-R models)	
front	1.5 bar (22 psi)
Rear	2.0 bar (29 psi)

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

Checking spoke tension



Warning

Danger of accidents Unstable riding behavior due to loose spokes.

- If you ride with loose spokes, the spokes can break. Have the spoke tension corrected in an authorized KTM workshop.



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.



To check spoke tension, tap each spoke with a screwdriver.
 Specification

fou should hear a high hote.		
Spoke nipple, front wheel	M4,5	5 Nm (3.7 lbf ft)
Spoke nipple, rear wheel	M5	5 Nm (3.7 lbf ft)



Info

Vou should beer a high note

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

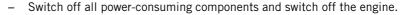
Removing the battery 🔌



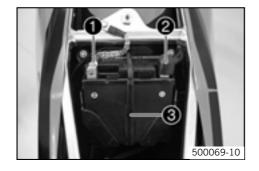
Warning

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.
- Keep the battery away from sparks or open fire. Charge only in well ventilated rooms.
- In the event of skin contact, rinse with large amounts of water. If battery acid gets in the eyes, rinse with water for at least 15 minutes and contact a doctor.



- Remove the seat. (* P. 69)
- Disconnect the negative (minus) cable of the battery.
- Pull back the plus pole cover ② and disconnect the positive (plus) cable of the batterv.
- Hang the rubber band 3 out to the bottom.
- Lift the battery up.



Installing the battery 4



- Check parts for damage and wear. Replace damaged or worn parts.
- Place the battery in the battery holder.

4Ah battery (YTX5L-BS) (P. 94)

- Reconnect the rubber band ①.
- Attach the plus cable and replace the plus pole cover ②.
- Attach the minus cable 3.
- Mount the seat. (* P. 69)

Recharging the battery 4



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.
- In the event of skin contact, rinse with large amounts of water. If battery acid gets in the eyes, rinse with water for at least
 15 minutes and contact a doctor.



Warning

Environmental hazard Components and battery acid are a danger to the environment.

- Do not dispose of batteries in normal household waste. Take defective or used batteries to a battery recycling operator.



Warning

Environmental hazard Problem materials cause environmental damage.

Dispose of oil, grease, filters, fuel, cleaning substances, brake fluid, batteries, etc. according to regulations.



Info

Even if there is no load on the battery, it loses power every day.

400240-10

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

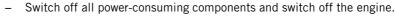
Fast recharging with a high charge current shortens the battery's service life.

If the charge current, the charge voltage and the charge time are exceeded, electrolyte escapes through the breathing holes. The battery capacity is then reduced.

If the battery is discharged from starting, it must be recharged immediately.

If it stands for a long time in a discharged state, the battery becomes over-discharged and sulfated, and then it is destroyed.

The battery is maintenance-free, i.e., the acid level does not have to be checked.



- Remove the seat. (♥ P. 69)
- Disconnect the minus (negative) cable of the battery to avoid damage to the motor-cycle's 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 rest potential and start potential of the battery, and to test the generator. With this device, you cannot overcharge the battery.



Info

Never remove the lid 1.

Charge the battery according to the instructions 2 on the battery casing.

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

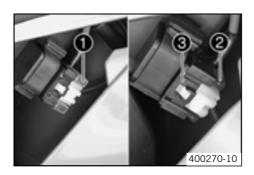
The charge current, charge voltage and charge time must not be exceeded.

Charge the battery regularly when the motorcycle is not in use.

3 months

Mount the seat. (▼ P. 69)

Removing a fuse



- Switch off all power-consuming components and switch off the engine.
- Dismount the air filter box lid. (* P. 74)
- Remove the protection cover •.



Info

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

Remove the fuse ②.

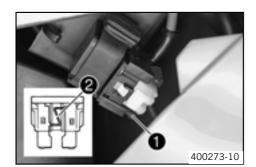
Replacing the fuse



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.



Check parts for damage and wear. Replace damaged or worn parts.



Info

A reserve fuse **1** is located in the starter relay. Replace a burned-out fuse **2** only by an equivalent fuse.

Refit the fuse.

Fuse (58011109110)



Info

If the new fuse burns out, contact an authorized KTM workshop.

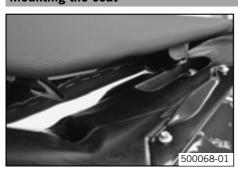
- Replace the protection cover.
- Install the air filter box lid. (* P. 74)

Removing the seat



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

Mounting the seat



- Check parts for damage and wear. Replace damaged or worn parts.
- Hook the front of the seat into the flange adapter of the fuel tank, lower the rear of the seat and simultaneously push it forwards.
- Make sure that the seat is correctly locked in.
- Mount and tighten the screw of the seat fixing.
 Specification

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

Dismounting the fuel tank 4



Danger

Fire hazard Fuel can easily catch fire.

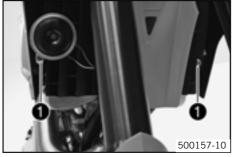
- Never fill up the vehicle near open flames or burning cigarettes, and always switch off the engine first. Be careful that no fuel is spilt, especially on hot vehicle components. Clean up spilt fuel immediately.
- Fuel in the fuel tank expands when warm and can escape if the tank is overfilled. See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



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

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



- Remove the seat. (* P. 69)
- Turn the handle of the fuel tap to the OFF position. (Figure 500137-10 ♥ P. 20)
- Pull off the fuel hose



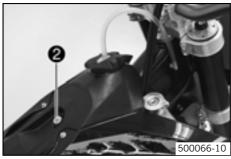
Info

Remaining fuel may run out of the fuel hose.

Remove screws • with collar sleeve.

(Every EXC-R models)

- Hang the horn and horn bracket to one side.
- Remove screw ② with 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 upwards.

Installing the fuel tank 🔌



Danger

Fire hazard Fuel can easily catch fire.

- Never fill up 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 specifications on filling up with fuel.



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.



- Check parts for damage and wear. Replace damaged or worn parts.
- Position the fuel tank and fit the two spoilers to the side of the radiator fixing.
- Make sure that no cables or Bowden cables are trapped or damaged.



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

Specification

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

(Every EXC-R models)

- Position horn with horn bracket.

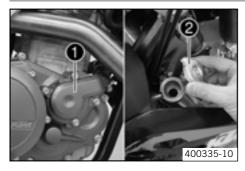


Fit and tighten screws ② with collar sleeve.
 Specification

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

- Connect fuel hose.
- Mount the seat. (P. 69)

Cooling system



The water pump • in the engine forces the coolant to flow.

The pressure resulting from the warming of the cooling system is regulated by a valve in the radiator cap ②. The specified coolant temperature is therefore permissible without danger of function problems.

120 °C (248 °F)

Coolant (P. 114)

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-R SIX DAYS, XCR-W ZA)

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

Checking antifreeze and coolant level



Warning

Danger of scalding
The coolant gets very hot when the motorcycle is driven and is under high pressure.

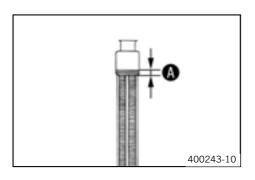
 Do not open the radiator, radiator hoses or other cooling system components when the engine is hot. Allow the engine and cooling system to cool down. If you scald yourself, hold the affected area under cold water immediately.



Warning

Danger of poisoning Coolants are poisonous and a health hazard.

 Avoid contact between coolants and skin, eyes and clothing. If fuel 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 coolants out of the reach of children.



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

-25... -45 °C (-13... -49 °F)

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

Coolant level **1** above radiator fins. 10 mm (0.39 in)

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

Alternative 1

Coolant (P. 114)

Altornative 2

Coolant (mixed ready to use) (P. 114)

Refit the radiator cap.

Checking the coolant level



Warning

Danger of scalding The coolant gets very hot when the motorcycle is driven and is under high pressure.

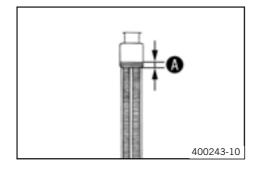
 Do not open the radiator, radiator hoses or other cooling system components when the engine is hot. Allow the engine and cooling system to cool down. If you scald yourself, hold the affected area under cold water immediately.



Warning

Danger of poisoning Coolants are poisonous and a health hazard.

Avoid contact between coolants and skin, eyes and clothing. If fuel 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 coolants out of the reach of children.



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

Coolant level **4** above radiator fins. 10 mm (0.39 in)

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

Alternative 1

Coolant (P. 114)

Alternative 2

Coolant (mixed ready to use) (P. 114)

Refit the radiator cap.

Draining coolant 🔦



Warning

Danger of scalding The coolant gets very hot when the motorcycle is driven and is under high pressure.

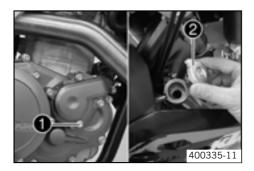
 Do not open the radiator, radiator hoses or other cooling system components when the engine is hot. Allow the engine and cooling system to cool down. If you scald yourself, hold the affected area under cold water immediately.



Warning

Danger of poisoning Coolants are poisonous and a health hazard.

Avoid contact between coolants and skin, eyes and clothing. If fuel 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 coolants out of the reach of children.



- Stand the vehicle upright.
- Place a suitable container under the water pump cover.
- Remove screw ①. Remove the radiator cap ②.
- Completely drain the coolant.
- Fit screw with a new seal and tighten it.
 Specification

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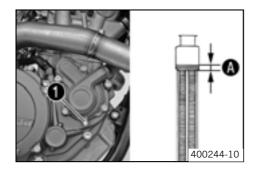
Refilling coolant &



Warning

Danger of poisoning Coolants are poisonous and a health hazard.

Avoid contact between coolants and skin, eyes and clothing. If fuel 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 coolants out of the reach of children.



- Make sure that the screw is tightened.
- Stand the vehicle upright.
- Pour coolant in up to measurement

 above the radiator fins.

 Specification

10 mm (0.39 in)		
Coolant	0.95 l (1 qt.)	Coolant (* P. 114)
		Coolant (mixed ready to use) (* P. 114)

- Refit the radiator cap.
- Make a short test ride.
- Check the coolant level. (P. 72)

Glass fiber yarn filling of main silencer

The main silencer is filled with glass fiber yarn.

Over a period, the fibers of the insulating material vanish into the air, and the silencer "burns out".

Not only is the noise level higher, the performance characteristic changes.

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.

Fitting the main silencer



- Check parts for damage and wear. Replace damaged or worn parts.
- Mount the main silencer. Mount and tighten screws ①.
 Specification

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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Reconnect spring ②.

Dismounting the air filter box lid



- Pull off the air filter box lid in area **4** to the side and remove to the front.

Installing the air filter box lid



- Check parts for damage and wear. Replace damaged or worn parts.
- Insert the air filter box lid into the rear area
 and clip it into the front area
 8.

Removing the air filter 🔌

Note

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

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



Warning

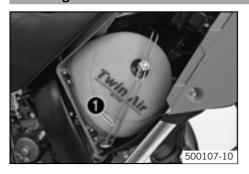
Environmental hazard Problem materials cause environmental damage.

- Dispose of oil, grease, filters, fuel, cleaning substances, brake fluid, batteries, etc. according to regulations.



- Dismount the air filter box lid. (* P. 74)
- Hang the air filter holder out to the bottom and swing it to the side. Remove the air filter with the air filter support.
- Remove the air filter from the air filter support.

Installing the air filter 4



- Check parts for damage and wear. Replace damaged or worn parts.
- Mount the clean air filter onto the air filter support.
- Put in both parts together, position them and fix them with the air filter support 1.



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. 74)

Cleaning air filter 4



Warning

Environmental hazard Problem materials cause environmental damage.

Dispose of oil, grease, filters, fuel, cleaning substances, brake fluid, batteries, etc. according to regulations.



Info

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

- Remove the air filter. (* P. 74)
- Wash the air filter thoroughly in special cleaning liquid and allow it to dry properly.

Air filter cleaner (P. 115)



Info

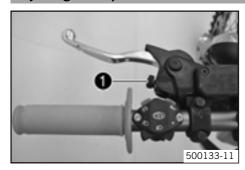
Only press the air filter to dry it, never wring it out.

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

Oil for foam air filter (P. 115)

- Clean the air filter box.
- Check carburetor connection boot for damage and tightness.
- Install the air filter. (* P. 75)

Adjusting basic position of clutch lever



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



Info

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

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

The range of adjustment is limited.

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

Do not make any adjustments while riding!

Checking fluid level of hydraulic clutch



Warning

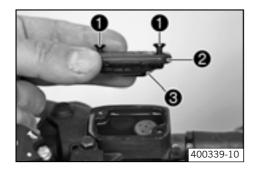
Skin irritations Brake fluid can cause skin irritation on contact.

- Avoid contact with skin and eyes, and keep out of the reach of children.
- If brake fluid gets into your eyes, rinse thoroughly with water and contact a doctor immediately.



Info

The fluid level rises with increasing wear of the clutch lining disc. Avoid contact between brake fluid and painted parts. Brake fluid attacks paint! 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.
- Take off 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 cooling liquid does not meet specifications:
 - Correct the fluid level of the hydraulic clutch.

Brake fluid DOT 5.1 (P. 114)

- Check parts for damage and wear. Replace damaged or worn parts.
- Position the cover with the membrane. Mount and tighten screws.



nfo

Clean up overflowed or spilt fluid immediately with water.

Changing fluid level of hydraulic clutch 🔏



Warning

Skin irritations Brake fluid can cause skin irritation on contact.

- Avoid contact with skin and eyes, and keep out of the reach of children.
- If brake fluid gets into your eyes, rinse thoroughly with water and contact a doctor immediately.



Warning

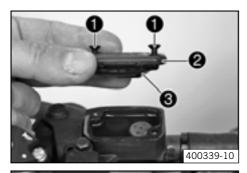
Environmental hazard Problem materials cause environmental damage.

- Dispose of oil, grease, filters, fuel, cleaning substances, brake fluid, batteries, etc. according to regulations.

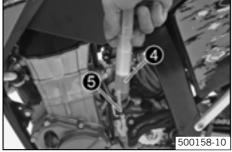


Info

The fluid level rises with increasing wear of the clutch lining disc. Avoid contact between brake fluid and painted parts. Brake fluid attacks paint! 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.
- Take off cover **2** with membrane **3**.



- Fill the bleeding syringe 4 with the appropriate hydraulic fluid.

Bleed syringe (50329050000)

Brake fluid DOT 5.1 (P. 114)

- On the slave cylinder, remove the bleeder screw **6** and fit the bleeding syringe **4**.



- Inject the liquid into the system until it escapes from the 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.

Specification

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

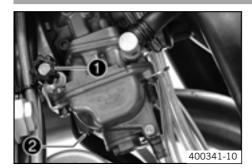
- Check parts for damage and wear. Replace damaged or worn parts.
- Position the cover with the membrane. Mount and tighten screws.



Info

Clean up overflowed or spilt fluid immediately with water.

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.

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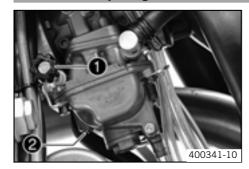
Info

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

The idle speed is adjusted with the adjustment screw **①**.

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

Carburetor - adjusting idle 🔌



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

Specification

Idle mixture adjusting screw (XCR-W USA)		
Open	0.5 turn	
Idle mixture adjusting screw (EXC-R SIX	DAYS)	
Open	1.0 turn	
Idle mixture adjusting screw (XCR-W ZA,	530 EXC-R EU, 530 EXC-R AUS/UK)	
Open	1.5 turns	
Idle mixture adjusting screw (450 EXC-R EU, 450 EXC-R AUS/UK, 450 EXC-R USA)		
Open	1.75 turns	
Idle mixture adjusting screw (530 EXC-R USA)		
Open	2.0 turns	

Adjustment tool for mixture control screw (77329034000)

- Run the engine until warm.

Specification

Warm-up time	≥ 5 min



Danger

Danger of poisoning Exhaust gases are poisonous and can 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 a closed space.
- Adjust the idle speed with the adjusting screw ①.
 Specification

Choke function deactivated – The choke lever is pushed in to the stop. (\P P. 21)

Choke function deactivated – The choke lever is pushed back to the stop. (▼ P. 21)

Idle speed 1550... 1650 rpm

- Turn the idle adjusting screw 2 slowly 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 big engine speed rise, reduce the idle speed to a normal level and repeat the above steps.

The extremely sporty rider 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, start from the beginning with the adjusting

– Adjust the idle speed with the adjusting screw $oldsymbol{0}$.

Specification

Choke function deactivated – The choke lever is pushed in to the stop. (► P. 21)

Choke function deactivated – The choke lever is pushed back to the stop. (▼ P. 21)

Idle speed 1550... 1650 rpm



Info

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

Emptying the carburetor float chamber 🔦



Danger

Fire hazard Fuel can easily catch fire.

- Never fill up 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 specifications on filling up with fuel.



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

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



Warning

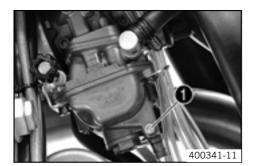
Environmental hazard Improper handling of fuel is a danger to the environment.

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



Info

Carry out this work with a cold engine.



- Turn the handle of the fuel tap to the OFF position. (Figure 500137-10 TP. 20)
 - ✓ No more fuel flows from the tank to the carburetor.
- Guide the hose coming down behind the engine into a suitable container.



Info

Water in the float chamber results in malfunctioning.

- Undo the screw (turn it counterclockwise) a few turns and drain the fuel from the float chamber.
- Tighten screw ①.

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 $oldsymbol{0}$.

- » If the engine oil level is below the specified level:
 - Top up the engine oil. (* P. 81)

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

- Drain the engine oil and clean the engine oil screen. (* P. 79)
- Remove the oil filter. (* P. 80)
- Mount the oil filter. (* P. 80)
- Fill up with engine oil. (* P. 81)

Draining engine oil, cleaning engine oil screen 🔧



Warning

Danger of scalding Engine oil and gear oil get very hot when the motocycle is driven.

- Wear suitable protective clothing and gloves. If you scald yourself, hold the affected area under cold water immediately.



Warning

Environmental hazard Problem materials cause environmental damage.

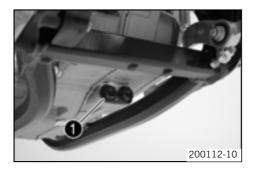
- Dispose of oil, grease, filters, fuel, cleaning substances, brake fluid, batteries, etc. according to regulations.



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 gear oil screen.
- Clean the sealing area on the engine.
- Check parts for damage and wear. Replace damaged or worn parts.
- Fit plug for the engine oil screen and tighten it.
 Specification

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

Removing the oil filter 🔦



Warning

Danger of scalding Engine oil and gear oil get very hot when the motocycle is driven.

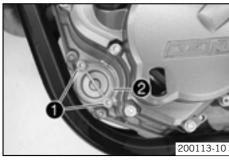
- Wear suitable protective clothing and gloves. If you scald yourself, hold the affected area under cold water immediately.



Warning

Environmental hazard Problem materials cause environmental damage.

Dispose of oil, grease, filters, fuel, cleaning substances, brake fluid, batteries, etc. according to regulations.



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

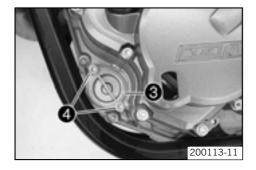


- Pull the oil filter insert 3 out of the oil filter casing.
 - Circlip pliers reverse (51012011000)
- Completely drain the engine oil.
- Thoroughly clean parts and sealing area.

Mounting oil filter 4



- Check parts for damage and wear. Replace damaged or worn parts.
- $-\,$ 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.
 Specification

Screw, oil filter cover	M5	6 Nm (4.4 lbf ft)
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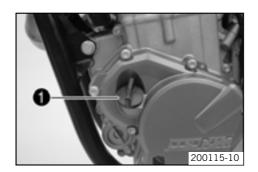
Stand the motorcycle up.

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 • on the generator cover and fill up with engine oil.

Engine oil 0.6 I (0.6 qt.) Engine oil (SAE 10W/50) (▼ P. 114)

Mount and tighten screw cap ①.



Dange

Danger of poisoning Exhaust gases are poisonous and can result in unconsciousness and/or death.

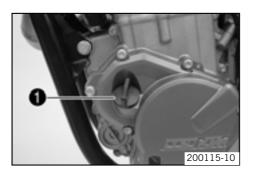
- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in a closed space.
- Start the engine and check that it is oil-tight.
- Check the engine oil level. (* P. 79)

Topping up engine oil



Info

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



Remove the screw cap ● on the generator cover and fill up with engine oil.

Engine oil (SAE 10W/50) (P. 114)

Mount and tighten screw cap ①.



Danger

Danger of poisoning Exhaust gases are poisonous and can 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 a closed space.
- Start the engine and check that it is oil-tight.
- Check the engine oil level. (* P. 79)

Checking gear oil level



Info

The gear oil level must 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 vehicle upright.
- Check the gear oil level.

A small amount of gear oil should flow out.

- » If no gear oil flows out:
 - Top up with gear oil. (♥ P. 83)
- Mount and tighten the gear oil level check screw.

Specification

Screw, gear oil level check	M6	10 Nm
		(7.4 lbf ft)

Changing gear oil, cleaning gear oil screen 🔧

- Drain the gear oil and clean the gear oil screen. (* P. 82)
- Fill up with gear oil. (* P. 83)

Draining gear oil, cleaning gear oil screen 🔏



Warning

Danger of scalding Engine oil and gear oil get very hot when the motocycle is driven.

- Wear suitable protective clothing and gloves. If you scald yourself, hold the affected area under cold water immediately.



Warning

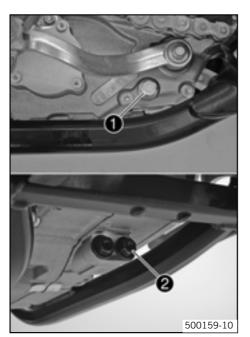
Environmental hazard Problem materials cause environmental damage.

- Dispose of oil, grease, filters, fuel, cleaning substances, brake fluid, batteries, etc. according to 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.
- Check parts for damage and wear. Replace damaged or worn parts.
- Refit gear oil drain plug with seal ring and tighten it.
 Specification

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

Fit the plug ② for the gear oil screen and tighten it.
 Specification

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	0.9 I (1 qt.)	Engine oil (SAE 10W/50) (P. 114)

Mount and tighten screw cap ①.



Danger

Danger of poisoning Exhaust gases are poisonous and can 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 a closed space.
- Start the engine and check that it is oil-tight.
- Check the gear oil level. (* P. 81)

Topping up with gear oil 🔌

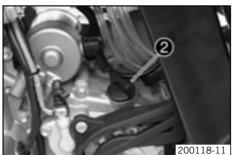


Info

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 vehicle upright.
- Top up with gear oil until it flows out of the bore of the gear oil level screw.

Engine oil (SAE 10W/50) (P. 114)

Mount and tighten the gear oil level check screw.

Specification

Screw, gear oil level check M6 10 Nm (7.4 lbf ft)

Mount and tighten screw cap ②.



Danger

Danger of poisoning Exhaust gases are poisonous and can 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 a closed space.
- Start the engine and check that it is oil-tight.

Faults	Possible cause	Measure
The engine cannot be cranked (electric starter).	Operating error	Carry out instructions on starting.(▼ P. 26)
	Battery discharged	Recharge the battery. (* P. 68)Check the cause of discharging.
	Fuse blown	Remove the fuse. (♥ P. 69)
		 Replace the fuse. (♥ P. 69)
	Low external temperature	Start the engine with the kickstarter.
		Recharge the battery. Establish the reason for discharging or have it checked in a KTM workshop.
Engine turns but does not start.	Operating error	Carry out instructions on starting. (▼ P. 26)
	Motorcycle was out of use for a long time and there is old fuel in the float chamber	 Empty the carburetor float chamber. (♥ P. 78)
	Fuel feed interrupted	Check tank vent.
		- Clean fuel tap.
		– Clean carburetor.
	Engine flooded	Clean and dry spark plug or replace if necessary.
	Spark plug oily or wet	Clean and dry spark plug or replace if necessary.
	Electrode distance (plug gap) of spark	– Adjust plug gap.
	plug too wide	Specification Spark plug electrode gap
		0.8 0.9 mm (0.031 0.035 in)
	Spark plug connector or spark plug defective	Warning Risk of injury The ignition system is under high voltage. - Do not touch parts of the ignition system. Have work on
		the ignition system carried out in an authorized KTM workshop.
		Remove spark plug, connect ignition cable, hold spark plug to ground (bare metal area on engine), and try to start the engine.
		Specification You should see a strong spark on the spark plug.
		If there is no spark, change the spark plug.
		If there is still no spark, remove the spark plug cap from the ignition cable, hold it at the specified distance from the ground contact, and try to start the engine.
		Specification 5 mm (0.2 in)
		If you now have a spark, replace the spark plug connector.
		If there is no spark, have the ignition system checked.
	Short-circuit cable in cable harness frayed, short-circuit button or emergency OFF switch defective	Check wiring harness. (visual check)Check electrical system.
	Socket connector of CDI control device, pulse generator or ignition coil oxidized.	Clean socket connector and treat it with contact spray.

Faults	Possible cause	Measure
Engine turns but does not start.	Water in carburetor or jets blocked	- Clean carburetor.
Engine has no idle.	Idling jet blocked	- Clean carburetor.
	Adjusting screws on carburetor distorted	Have the carburetor adjusted.
	Spark plug defective	- Change spark plug.
	Ignition system defective	Have ignition system checked.
Engine does not speed up.	Carburetor running over because float needle dirty or worn	Have carburetor checked.
	Loose carburetor jets	 Have carburetor checked.
	Electronic ignition adjustment defective	Have ignition system checked.
Engine has too little power.	Fuel feed interrupted	Check tank vent.
		- Clean fuel tap.
		- Clean carburetor.
	Air filter very dirty	- Clean the air filter. (P. 75)
	Exhaust system leaky, deformed or too lit-	Check exhaust system for damage.
	tle glass fiber yarn filling in main silencer	Change glass fiber yarn filling of main silencer.
	Valve clearance too little	Have valve clearance adjusted.
	Electronic ignition adjustment defective	 Have ignition system checked.
Engine stalls or is popping into the carburetor	Lack of fuel	Clean and check the fuel system and carburetor.
	Engine takes in bad air	Check rubber sleeves and carburetor for tightness.
Engine overheats.	Too little coolant in cooling system	Check the cooling system for leakage.
		 Check the coolant level. (▼ P. 72)
	Too little air stream	 Switch off engine when standing.
	Radiator fins very dirty	Clean radiator fins.
	Foam formation in cooling system	 Drain the coolant. (◆ P. 72)
		- Refill the coolant. (P. 73)
	Bent radiator hose	 Replace the radiator hose.
	Thermostat defective	 Have thermostat removed and checked.
		Specification Opening temperature: 70 °C (158 °F)
	Defect in radiator fan system (EXC-R SIX DAYS, XCR-W ZA)	Have the radiator fan system checked.
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. 79)
	Engine oil too thin (low viscosity)	 Change the engine oil and oil filter and clean the engine oil screen. (♥ P. 79)
Battery discharged	Battery is not charged by generator	Check electrical system.
Speedometer values deleted (time, stop watch, lap times)	The battery in the speedometer ist empty.	Change the battery in the speedometer.

CLEANING 86

Cleaning motorcycle

Note

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

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



Warning

Environmental hazard Problem materials cause environmental damage.

Dispose of oil, grease, filters, fuel, cleaning substances, brake fluid, batteries, etc. according to 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.

- Before you clean the motocycle, seal the exhaust system to prevent penetration by water.
- First remove coarse dirt particles with a gentle water spray.
- Spray very dirty areas with a normal motorcycle cleaner and then clean with a paintbrush.

Motorcycle cleaner (P. 115)



Info

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

- After rinsing the motorcycle with a gentle water spray, allow it to dry thoroughly.
- Empty the carburetor float chamber. (* P. 78)



Warning

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

- Clean or dry dirty or wet brakes by riding and braking gently.
- After cleaning, ride the vehicle a short distance until the engine warms up, and then apply the brakes.



Info

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

- Push back the protection covers on the handlebar instruments to allow water to evaporate.
- After the motorcycle has cooled off, oil or grease all moving parts and bearings.
- Clean the chain. (* P. 50)
- Treat bare metal parts (except for brake discs and exhaust system) with anti-corrosion materials.

Cleaning and polishing materials for metal, rubber and plastic (P. 115)

Treat all painted parts with a mild paint polish.

High-luster polish for paint (* P. 116)

To prevent electrical problems, treat electric contacts and switches with contact spray.

Contact spray (P. 116)

(EXC-R EU, EXC-R AUS/UK, EXC-R USA)

- Lubricate the steering lock.

Universal oil spray (* P. 115)

STORAGE 87

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. 86)
- Change the engine oil and oil filter and clean the engine oil screen. (▼ P. 79)
- Change the gear oil and clean the gear oil screen. (▼ P. 82)
- Check the antifreeze and coolant level. (* P. 71)
- Drain the fuel from the tanks into a suitable container.
- Empty the carburetor float chamber. (* P. 78)
- Checking the tire air pressure. (P. 66)
- Remove the battery. (▼ P. 67)
- Recharge the battery. (* P. 68)

Specification

Storage temperature of battery without direct sunshine. 0...

0... 35 °C (32... 95 °F)

The storage place should be dry and not subject to large temperature differences.



Info

KTM recommends propping up the motorcycle.

- Jack up the motorcycle. (* P. 32)
- Cover the motorcycle with a porous sheet or blanket. Do not use non-porous materials since they prevent humidity from escaping, thus causing corrosion.



nfo

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

Putting into operation after storage

- Remove the motorcycle from the work stand. (* P. 32)
- Install the battery. (* P. 67)
- Fill up with fuel. (▼ P. 28)
- Checks before putting into operation (* P. 26)
- Make a test ride.

Design	1-cyliner 4-stroke engine, water-cooled
Displacement (Every 450 models)	449.3 cm ³ (27.418 cu in)
Displacement (Every 530 models)	510.4 cm ³ (31.147 cu in)
Stroke (Every 450 models)	63.4 mm (2.496 in)
Stroke (Every 530 models)	72 mm (2.83 in)
Bore	95 mm (3.74 in)
Compression ratio	11,9:1
Idle speed	1550 1650 rpm
Control	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	
Outfeed at: 20 °C (68 °F)	0.12 0.17 mm (0.0047 0.0067 in)
Infeed 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	not a bearing bush - 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
Generator	12 V, 150 W
Ignition	Contactless controlled fully electronic ignition with digital ignition adjustment, type Kokusan
Spark plug	NGK LK AR 8A - 9
Spark plug electrode gap	0.8 0.9 mm (0.031 0.035 in)
Cooling	Water cooling, permanent circulation of coolant by water pump
Starting aid	Electric starter / kickstarter

Capacity - engine oil	

Engine oil	0.6 I (0.6 qt.)	Engine oil (SAE 10W/50) (P. 114)

Capacity - gear oil			
Gear oil	0.9 l (1 qt.)	Engine oil (SAE 10W/50) (P. 114)	

Capacity - coolant		
Coolant	0.95 l (1 qt.)	Coolant (* P. 114)
		Coolant (mixed ready to use) (P. 114)

Screw, cable holder in generator cover	M4	4 Nm (3 lbf ft)	Loctite® 243™
Oil jet, rocker arm lubrication	M5	2 Nm (1.5 lbf ft)	Loctite® 243™
Oil jet, piston cooling	M5	2 Nm (1.5 lbf ft)	Loctite® 243™
Screw, locking lever	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Screw, ignition pulse generator	M5	6 Nm (4.4 lbf ft)	Loctite® 243™
Screw, clutch spring	M6	10 Nm (7.4 lbf ft)	-
Locking screw for bearing	M5	6 Nm (4.4 lbf ft)	Loctite® 243™
Screw, oil filter cover	M5	6 Nm (4.4 lbf ft)	-
Screw, oil pump cover	M5	6 Nm (4.4 lbf ft)	Loctite® 222
Oil jet, conrod lubrication	M6x0,75	4 Nm (3 lbf ft)	Loctite® 243™
Nut, water-pump wheel	M6	6 Nm (4.4 lbf ft)	Loctite® 648™
Screw, kickstarter stop	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, timing chain securing guide	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, exhaust flange	M6	10 Nm (7.4 lbf ft)	-
Screw, torque governor	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, starter motor	M6	10 Nm (7.4 lbf ft)	-
Screw, kickstarter spring hanger	M6	10 Nm (7.4 lbf ft)	-
Screw, timing chain guide rail	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw generator cover	M6x25	10 Nm (7.4 lbf ft)	-
Screw generator cover	M6x40	10 Nm (7.4 lbf ft)	-
Screw, gear oil level check	M6	10 Nm (7.4 lbf ft)	-
Screw, clutch cover	M6x25	10 Nm (7.4 lbf ft)	-
Screw, clutch cover	M6x30	10 Nm (7.4 lbf ft)	-
Screw, clutch cover	M6x55	10 Nm (7.4 lbf ft)	-
Screw, engine housing	M6x65	10 Nm (7.4 lbf ft)	-
Screw, engine housing	M6x80	10 Nm (7.4 lbf ft)	-
Screw, camshaft bearing support	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, shift drum locating	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, shift lever	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, timing chain tensioning rail	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, stator bracket	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)	-
Screw, idler	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, cylinder head	M6	10 Nm (7.4 lbf ft)	-
Screw, rocker arm bearing	M7x1	15 Nm (11.1 lbf ft)	-
Plug, oil channel	M7	9 Nm (6.6 lbf ft)	Loctite® 243™
Screw, kickstarter	M8	25 Nm (18.4 lbf ft)	Loctite [®] 243™
Plug, crankshaft location	M8	10 Nm (7.4 lbf ft)	-
Balancer shaft nut	M10x1	40 Nm (29.5 lbf ft)	-
Screw, unlocking of timing chain tensioner	M10x1	10 Nm (7.4 lbf ft)	-
Screw, engine sprocket	M10	60 Nm (44.3 lbf ft)	Loctite® 243™
Plug, oil channel	M10	15 Nm (11.1 lbf ft)	Loctite [®] 243™
		•	•

Screw, cylinder head	M10x1,25	Tightening sequence: Tighten diagonally, beginning 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)	Engine oil (any)
Gear oil drain plug with magnet	M12x1,5	20 Nm (14.8 lbf ft)	-
Ignition rotor nut	M12x1	60 Nm (44.3 lbf ft)	_
Plug, SLS	M12x1,5	20 Nm (14.8 lbf ft)	-
Oil pressure control valve plug	M12x1,5	20 Nm (14.8 lbf ft)	-
Spark plug	M12x1,25	15 20 Nm (11.1 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	150 Nm (110.6 lbf ft)	Loctite® 648™
Plug, timing chain tensioner	M24x1,5	25 Nm (18.4 lbf ft)	-

450 EXC-R EU, 450 EXC-R AUS/UK (3900I)

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 membrane stop	2.15 mm (0.0846 in)
Main jet	180
Jet needle	OBDYU (OBDTQ)
Idling jet	40
Main air jet	200
Idle air jet	100
Cold start jet	65 (85)
Leakage nozzle	40
Throttle slide	15
Slide stop	present

450 EXC-R SIX DAYS, 450 EXC-R USA, 450 XCR-W (3900L)

, , , , , , , , , , , , , , , , , , , ,	
Carburetor type	KEIHIN FCR-MX 39
Carburetor identfication number	3900L
Needle position (450 XCR-W USA)	1st position from top
Needle position (450 EXC-R SIX DAYS)	3rd position from top
Needle position (450 EXC-R USA, 450 XCR-W ZA)	4th position from top
Idle mixture adjusting screw (450 XCR-W USA)	
Open	0.5 turn
Idle mixture adjusting screw (450 EXC-R SIX DAYS)	
Open	1.0 turn
Idle mixture adjusting screw (450 XCR-W ZA)	
Open	1.5 turns
Idle mixture adjusting screw (450 EXC-R USA)	
Open	1.75 turns
Pump membrane stop	2.15 mm (0.0846 in)
Main jet (450 EXC-R SIX DAYS, 450 EXC-R USA, 450 XCR-W USA)	180
Main jet (450 XCR-W ZA)	185
Jet needle (450 XCR-W, 450 EXC-R SIX DAYS)	OBDTQ
Jet needle (450 EXC-R USA)	OBDYU
Idling jet (450 XCR-W, 450 EXC-R SIX DAYS)	40
Idling jet (450 EXC-R USA)	48
Main air jet	200
Idle air jet	100
Cold start jet	85
Leakage nozzle	40
Throttle slide	15

530 EXC-R EU, 530 EXC-R AUS/UK (3900J)

Carburetor type	KEIHIN FCR-MX 39
Carburetor identfication 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
Main air jet	200
Idle air jet	100
Cold start jet	65 (85)
Leakage nozzle	40
Throttle slide	15
Slide stop	present

530 EXC-R SIX DAYS, 530 EXC-R USA, 530 XCR-W (3900M)

Carburetor type	KEIHIN FCR-MX 39
Carburetor identfication number	3900M
Needle position (530 XCR-W USA)	1st position from top
Needle position (530 EXC-R SIX DAYS, 530 EXC-R USA)	3rd position from top
Needle position (530 XCR-W ZA)	4th position from top
Idle mixture adjusting screw (530 XCR-W USA)	
Open	0.5 turn
Idle mixture adjusting screw (530 EXC-R SIX DAYS)	
Open	1.0 turn
Idle mixture adjusting screw (530 XCR-W ZA)	
Open	1.5 turns
Idle mixture adjusting screw (530 EXC-R USA)	
Open	2.0 turns
Pump membrane stop	2.15 mm (0.0846 in)
Main jet (530 EXC-R SIX DAYS, 530 EXC-R USA, 530 XCR-W USA)	180
Main jet (530 XCR-W ZA)	185
Jet needle (530 XCR-W, 530 EXC-R SIX DAYS)	OBDTR
Jet needle (530 EXC-R USA)	OBDZT
Idling jet (530 XCR-W, 530 EXC-R SIX DAYS)	40
Idling jet (530 EXC-R USA)	48
Main air jet	200
Idle air jet	100
Cold start jet	85
Leakage nozzle	40
Throttle slide	15

Frame	Central tube frame made of chrome molybdenum steel tubing	
Fork	WP 4860 MXMA PA	
Suspension travel		
front	300 mm (11.81 in)	
Rear	335 mm (13.19 in)	
Fork offset (EXC-R SIX DAYS, XCR-W USA)		
Front marking	18 mm (0.71 in)	
Rear marking	20 mm (0.79 in)	
Fork offset (EXC-R EU, EXC-R AUS/UK, EXC-R USA, XCR-W ZA)	20 mm (0.79 in)	
Shock absorber	WP PDS 5018 DCC	
Brake system	Disc brakes, brake calipers on floating bearings	
Diameter of brake discs		
front	260 mm (10.24 in)	
Rear	220 mm (8.66 in)	
Wear limit of brake discs	•	
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)	
Rear	1.0 bar (15 psi)	
Road tire pressure (Every EXC-R models)		
front	1.5 bar (22 psi)	
Rear	2.0 bar (29 psi)	
Rear wheel gearing (450 EXC-R EU, 450 EXC-R AUS/UK, 450 EXC-R USA)	15:45 (14:52)	
Rear wheel gearing (450 EXC-R SIX DAYS, XCR-W ZA)	14:52	
Rear wheel gearing (530 EXC-R SIX DAYS, XCR-W USA)	14:50	
Rear wheel gearing (530 EXC-R EU, 530 EXC-R AUS/UK)	15:45 (14:50)	
Chain	5/8 x 1/4"	
Rear sprockets available	38, 40, 42, 45, 48, 49, 50, 51, 52	
Steering head angle	63.5°	
Wheelbase	1475±10 mm (58.07±0.39 in)	
Seat height unloaded	925 mm (36.42 in)	
Ground clearance unloaded	380 mm (14.96 in)	
Weight without fuel (EXC-R EU, EXC-R AUS/UK, EXC-R SIX DAYS)	113.9 kg (251.1 lb.)	
Weight without fuel (XCR-W USA)	112.2 kg (247.4 lb.)	
Weight without fuel (XCR-W ZA)	113 kg (249 lb.)	
Weight without fuel (EXC-R USA)	114.8 kg (253.1 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.)	
4Ah battery YTX5L-BS	Battery voltage: 12 V	

4Ah battery	YTX5L-BS	Battery voltage: 12 V
		Nominal capacity: 4 Ah
		maintenance-free

Lighting equipment		
Headlight (EXC-R EU, EXC-R AUS/UK, EXC-R SIX DAYS, EXC-R USA, XCR-W ZA)	BA20d	12 V 35/35 W
Parking light (EXC-R EU, EXC-R AUS/UK, EXC-R SIX DAYS, EXC-R USA, XCR-W ZA)	W2,1x9,5d	12 V 5 W
Indicator lights (Every EXC-R models)	W2x4,6d	12 V 1.2 W
Flasher light (EXC-R EU, EXC-R AUS/UK)	BA15s	12 V 10 W
Flasher light (EXC-R USA)	BAU15s	12 V 10 W
Brake / tail light (EXC-R EU, EXC-R AUS/UK, EXC-R SIX DAYS, XCR-W ZA)	LED	
Brake / tail light (EXC-R USA)	BAY15d	12 V 21/5 W
Licence plate lamp (EXC-R EU, EXC-R AUS/UK)	W2,1x9,5d	12 V 5 W

Tires

Validity	Front tire	Rear tire
(Every EXC-R models)	90/90 - 21 48 M+S M TT	140/80 - 18 70 M+S M TT
	Metzeler MCE 6 DAYS EXTREME	Metzeler MCE 6 DAYS EXTREME
(Every XCR-W models)	80/100 - 21 51 M TT	110/100 - 18 64 M TT
	Bridgestone M59	Bridgestone M402
For further information, see: http://www.ktm.com		

Capacity - fuel

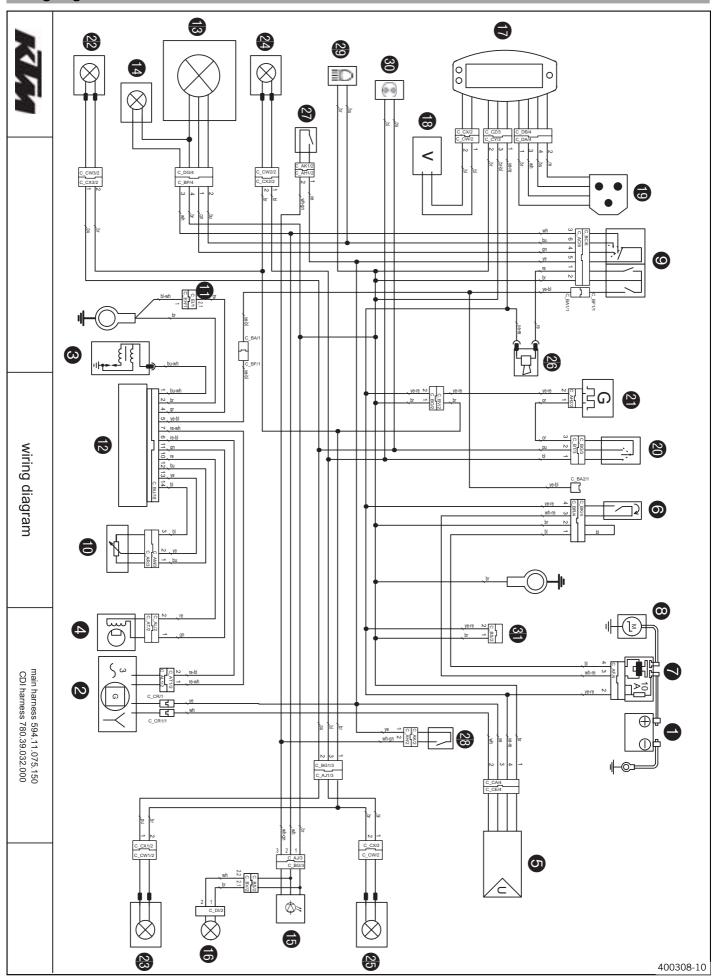
Tank capacity (EXC-R EU, EXC-R AUS/UK, EXC-R SIX DAYS, XCR-W ZA)	9 I (2.4 US gal)	Super unleaded (ROZ 95 / RON 95 / PON 91) (P. 114)
Tank capacity (EXC-R USA, XCR-W USA)	9.2 I (2.43 US gal)	Super unleaded (ROZ 95 / RON 95 / PON 91) (P. 114)

Fork part number (EXC-R EU, EXC-R AUS/UK, EXC-R USA, XCR-W)	14.18.7D.06
Fork part number (EXC-R SIX DAYS)	14.18.7D.35
Fork	WP 4860 MXMA PA
Compression damping (EXC-R EU, EXC-R AUS/UK, EXC-R USA, X	CR-W)
Comfort	24 clicks
Standard	20 clicks
Sport	18 clicks
Compression damping (EXC-R SIX DAYS)	
Comfort	24 clicks
Standard	22 clicks
Sport	18 clicks
Rebound damping (EXC-R EU, EXC-R AUS/UK, EXC-R USA, XCR-	W)
Comfort	20 clicks
Standard	18 clicks
Sport	18 clicks
Rebound damping (EXC-R SIX DAYS)	
Comfort	20 clicks
Standard	20 clicks
Sport	18 clicks
Spring length with preload spacer(s)	510 mm (20.08 in)
Spring rate (EXC-R EU, EXC-R AUS/UK, EXC-R USA, XCR-W)	
Weight of rider: 65 75 kg (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)
Spring rate (EXC-R SIX DAYS)	
Weight of rider: 65 75 kg (143 165 lb.)	4.6 N/mm (26.3 lb/in)
Weight of rider: 75 85 kg (165 187 lb.)	4.8 N/mm (27.4 lb/in)
Air chamber length	100 ₋₂₀ mm (3.94 _{-0.79} ^{+1.18} in)
Spring preload - Preload Adjuster (EXC-R EU, EXC-R AUS/UK, EXC	-R USA, XCR-W)
Comfort	2 turns
Standard	4 turns
Sport	7 turns
Spring preload - Preload Adjuster (EXC-R SIX DAYS)	
Comfort	2 turns
Standard	2 turns
Sport	7 turns
Fork length	940 mm (37.01 in)
Fork oil (* P. 114)	SAE 5

Shock absorber part number (EXC-R EU, EXC-R AUS/UK, EXC-	12.18.7D.06
R USA, XCR-W)	121.23.7.2.03
Shock absorber part number (EXC-R SIX DAYS)	12.18.7D.35
Shock absorber	WP PDS 5018 DCC
Compression damping, low-speed	
Comfort	18 clicks
Standard	15 clicks
Sport	12 clicks
Compression damping, high-speed	
Comfort	2 turns
Standard	1.5 turns
Sport	1 turn
Rebound damping	
Comfort	24 clicks
Standard	22 clicks
Sport	20 clicks
Spring preload	
Standard	9 mm
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)

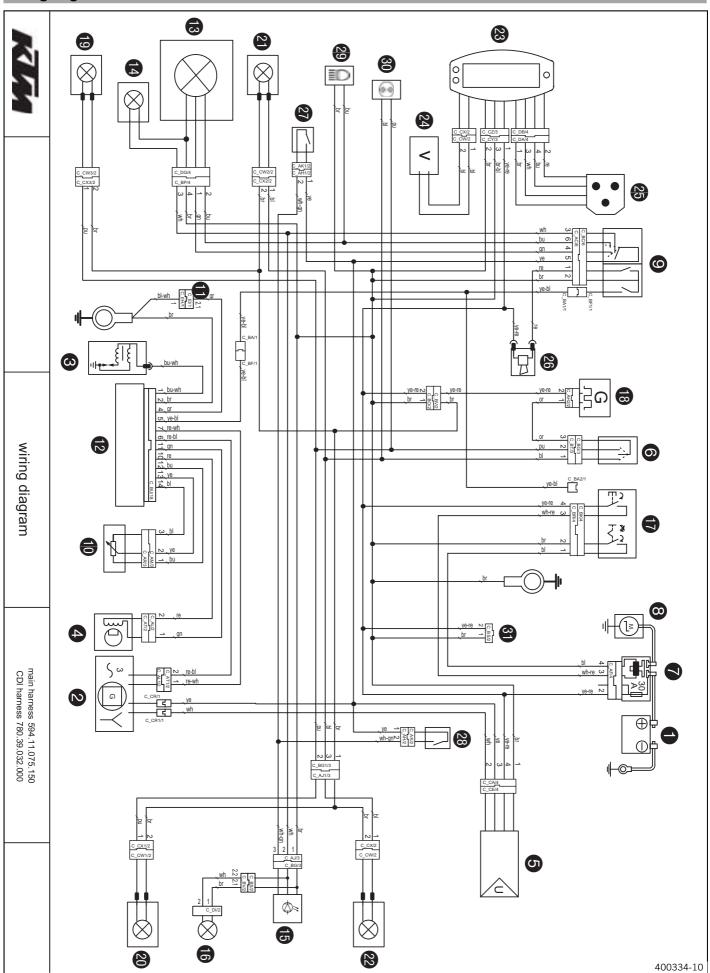
Spoke nipple, front wheel	M4,5	5 Nm (3.7 lbf ft)	_
Spoke nipple, rear wheel	M5	5 Nm (3.7 lbf ft)	_
Remaining nuts, chassis	M6	15 Nm (11.1 lbf ft)	_
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)	_
Screw, rear brake disc	M6	14 Nm (10.3 lbf ft)	_
Screw, front brake disc	M6	14 Nm (10.3 lbf ft)	-
Screw, shock absorber adjusting ring	M6	5 Nm (3.7 lbf ft)	_
Screw, ball joint of push rod on foot- brake cylinder	M6	10 Nm (7.4 lbf ft)	-
Nut, rear sprocket screw	M8	35 Nm (25.8 lbf ft)	Loctite® 243™
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, front brake caliper	M8	25 Nm (18.4 lbf ft)	Loctite® 243™
Screw, top triple clamp (EXC-R SIX DAYS, XCR-W USA)	M8	17 Nm (12.5 lbf ft)	-
Screw, top triple clamp (EXC-R EU, EXC-R AUS/UK, EXC-R USA, XCR-W ZA)	M8	20 Nm (14.8 lbf ft)	-
Screw, bottom triple clamp (EXC-R SIX DAYS, XCR-W USA)	M8	12 Nm (8.9 lbf ft)	-
Screw, bottom triple clamp (EXC-R EU, EXC-R AUS/UK, EXC-R USA, XCR-W ZA)	M8	15 Nm (11.1 lbf ft)	-
Screw, fork stub	M8	15 Nm (11.1 lbf ft)	-
Screw, top steering stem (EXC-R SIX DAYS, XCR-W USA)	M8	17 Nm (12.5 lbf ft)	Loctite® 243 TM
Screw, top steering stem (EXC-R EU, EXC-R AUS/UK, EXC-R USA, XCR-W ZA)	M8	20 Nm (14.8 lbf ft)	-
Screw, handlebar clamp (EXC-R EU, EXC-R AUS/UK, EXC-R USA, XCR-W)	M8	20 Nm (14.8 lbf ft)	-
Screw, handlebar clamp (EXC-R SIX DAYS)	M8	16 Nm (11.8 lbf ft)	-
Screw, engine brace	M8	33 Nm (24.3 lbf ft)	_
Screw, subframe	M8	35 Nm (25.8 lbf ft)	Loctite® 243™
Screw, side stand fixing	M8	40 Nm (29.5 lbf ft)	Loctite® 243™
Engine carrying screw	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™
Nut, seat fixing	M12x1	20 Nm (14.8 lbf ft)	_
Screw, top shock absorber	M12	80 Nm (59 lbf ft)	Loctite® 243™
Screw, bottom shock absorber	M12	80 Nm (59 lbf ft)	Loctite® 243™
Nut, swingarm pivot	M16x1,5	100 Nm (73.8 lbf ft)	_
Screw-in nozzles, cooling system	M20x1,5	12 Nm (8.9 lbf ft)	Loctite® 243™
Nut, rear wheel spindle	M20x1,5	80 Nm (59 lbf ft)	_
Screw, top steering head	M20x1,5	10 Nm (7.4 lbf ft)	-
Screw, bottom steering head (EXC-R SIX DAYS, XCR-W USA)	M20x1,5	60 Nm (44.3 lbf ft)	Loctite® 243™
Screw, front wheel spindle	M24x1,5	40 Nm (29.5 lbf ft)	_

Wiring diagram (EXC-R EU)



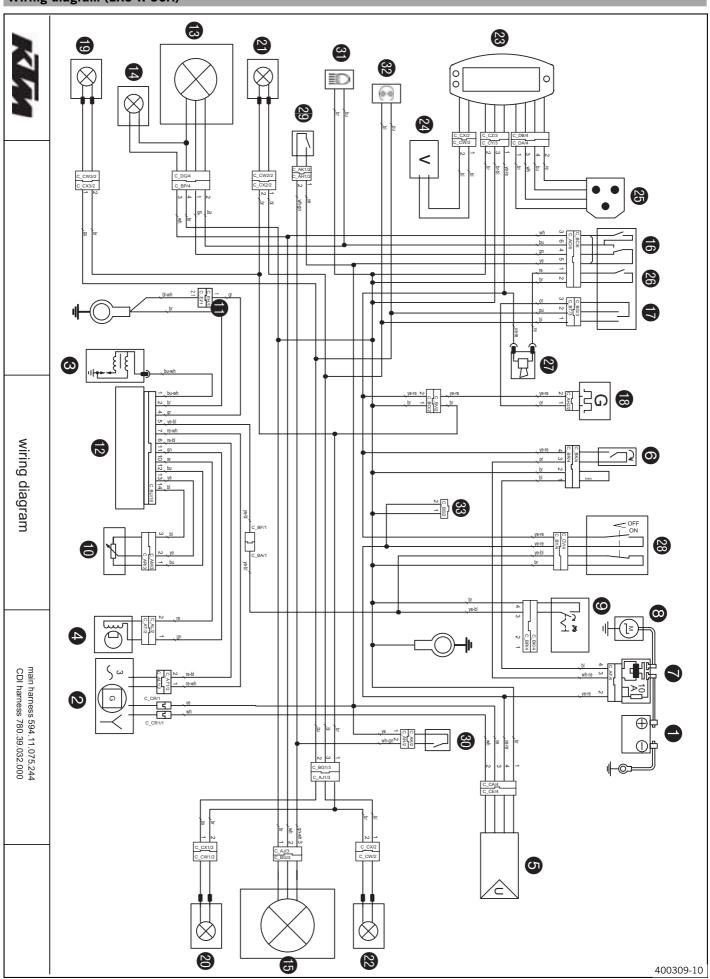
Components	
1	Battery
2	Generator
3	Ignition coil
4	Pulse generator
5	Voltage regulator/rectifier
6	Electric starter button
7	Starter relay with fuse
8	Starter motor
9	Light switch, horn button, short circuit button
10	Throttle valve sensor TPS
11	Ignition curve plug connection
12	CDI controller
13	Headlight
14	Parking light
15	Brake / tail light
16	Licence plate lamp
17	Speedometer
18	Wheel speed sensor
19	Tripmaster switch (optional)
20	Flasher switch
21	Flasher relay
22	Left front flasher
23	Left rear flasher
24	Right front flasher
25	Right rear flasher
26	Horn
27	Front brake light switch
28	Rear brake light switch
29	High beam indicator light
30	Flasher indicator light
31	Plug connector for radiator fan (optional)
Cable colors	
bl	black
bl-wh	black-white
br	brown
br-bl	brown-black
bu	blue
bu-wh	blue-white
gn	green
gr	gray
or	orange
pu	violet
re	red
re-bl	red-black
re-wh	red-white
wh	white
wh-gn	white-green
wh-re	white-red
ye	yellow
ye-bl	yellow-black
ye-re	yellow-red

Wiring diagram (EXC-R AUS/UK)



Components	
1	Battery
2	Generator
3	Ignition coil
4	Pulse generator
5	Voltage regulator/rectifier
6	Flasher switch
7	Starter relay with fuse
8	Starter motor
9	Light switch, horn button, short circuit button
10	Throttle valve sensor TPS
11	Ignition curve plug connection
12	CDI controller
13	Headlight
14	Parking light
15	Brake / tail light
16	Licence plate lamp
17	Electric starter button, emergency OFF switch
18	Flasher relay
19	Left front flasher
20	Left rear flasher
21	Right front flasher
22	Right rear flasher
23	Speedometer
24	Wheel speed sensor
25	Tripmaster switch (optional)
26	Horn
27	Front brake light switch
28	Rear brake light switch
29	High beam indicator light
30	Flasher indicator light
31	Plug connector for radiator fan (optional)
Cable colors	
bl	black
bl-wh	black-white
br	brown
br-bl	brown-black
bu	blue
bu-wh	blue-white
gn	green
gr	gray
or	orange
pu	violet
re	red
re-bl	red-black
re-wh	red-white
wh	white
wh-gn	white-green
wh-re	white-red
ye	yellow
ye-bl	yellow-black
ye-re	yellow-red

Wiring diagram (EXC-R USA)

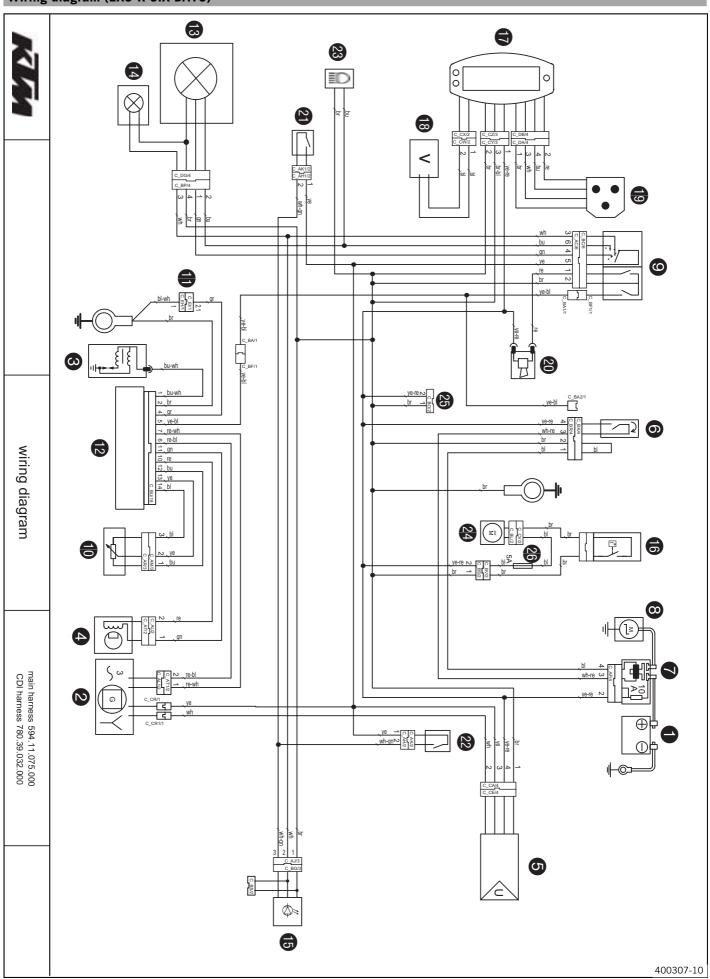


Components	;
1	Battery
2	Generator
3	Ignition coil
4	Pulse generator
5	Voltage regulator/rectifier
6	Electric starter button
7	Starter relay with fuse
8	Starter motor
9	Emergency OFF switch
10	Throttle valve sensor TPS
11	Ignition curve plug connection
12	CDI controller
13	Headlight
14	Parking light
15	Brake / tail light
16	Light switch
17	Flasher switch
18	Flasher relay
19	Left front flasher
20	Left rear flasher
21	Right front flasher
22	Right rear flasher
23	Speedometer
24	Wheel speed sensor
25	Tripmaster switch (optional)
26	Horn button
27	Horn
28	Ignition switch
29	Front brake light switch
30	Rear brake light switch
31	High beam indicator light
32	Flasher indicator light
33	Plug connector for radiator fan (optional)
Cable color	s
bl	black
bl-wh	black-white
br	brown
br-bl	brown-black
bu	blue
bu-wh	blue-white
gn	green
gn-wh	green-white
gr	gray
or	orange
pu	violet
re	red
re-bl	red-black
re-wh	red-white
wh	white
wh-gn	white-green
wh-re	white-red

WIRING DIAGRAM

ye	yellow
ye-bl	yellow-black
ye-re	yellow-red

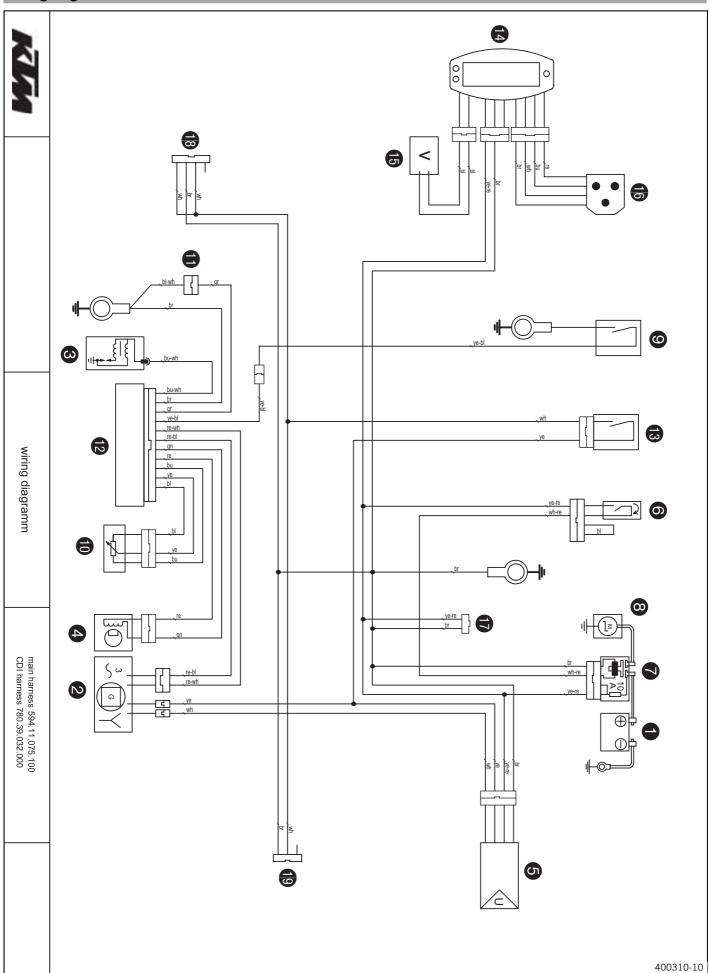
Wiring diagram (EXC-R SIX DAYS)



Component

Components	
1	Battery
2	Generator
3	Ignition coil
4	Pulse generator
5	Voltage regulator/rectifier
6	Electric starter button
7	Starter relay with fuse
8	Starter motor
9	Light switch, horn button, short circuit button
10	Throttle valve sensor TPS
11	Ignition curve plug connection
12	CDI controller
13	Headlight
14	Parking light
15	Brake / tail light
16	Thermoswitch
17	Speedometer
18	Wheel speed sensor
19	Tripmaster switch (optional)
20	Horn
21	Front brake light switch
22	Rear brake light switch
23	High beam indicator light
24	Radiator fan
25	Plug connector for flasher cable harness (optional)
26	Fuse, radiator fan
Cable colors	
bl	black
bl-wh	black-white
br	brown
br-bl	brown-black
bu	blue
bu-wh	blue-white
gn	green
gr	gray
re	red
re-bl	red-black
re-wh	red-white
wh	white
wh-gn	white-green
wh-re	white-red
ye	yellow
ye-bl	yellow-black
ye-re	yellow-red

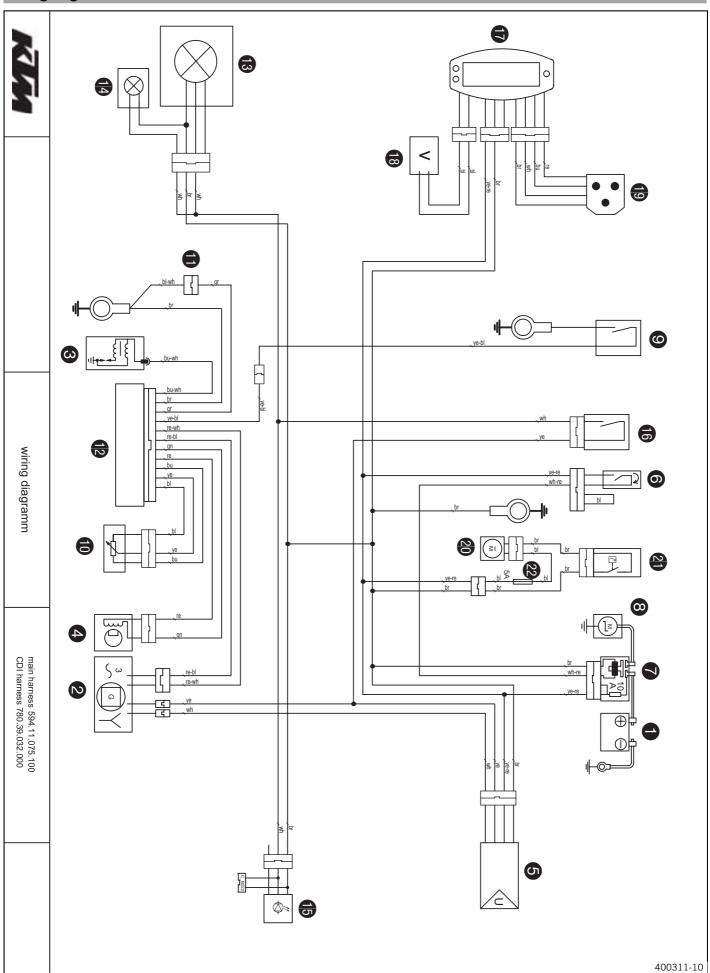
Wiring diagram (XCR-W USA)



Components

•	
1	Battery
2	Generator
3	Ignition coil
4	Pulse generator
5	Voltage regulator/rectifier
6	Electric starter button
7	Starter relay with fuse
8	Starter motor
9	Short circuit button
10	Throttle valve sensor TPS
11	Ignition curve plug connection
12	CDI controller
13	Light switch
14	Speedometer
15	Wheel speed sensor
16	Tripmaster switch (optional)
17	Plug connector for radiator fan (optional)
18	Plug connector, headlight (optional)
19	Plug connector, brake / tail light (optional)
21	Thermoswitch
Cable colors	
bl	black
bl-wh	black-white
br	brown
bu	blue
bu-wh	blue-white
gn	green
gr	gray
re	red
re-bl	red-black
re-wh	red-white
wh	white
wh-re	white-red
ye	yellow
ye-bl	yellow-black
ye-re	yellow-red

Wiring diagram (XCR-W ZA)



Į	نا	0	n	ıp	0	n	е	n	ts	

1	Battery
2	Generator
3	Ignition coil
4	Pulse generator
5	Voltage regulator/rectifier
6	Electric starter button
7	Starter relay with fuse
8	Starter motor
9	Short circuit button
10	Throttle valve sensor TPS
11	Ignition curve plug connection
12	CDI controller
13	Headlight
14	Parking light
15	Brake / tail light
16	Light switch
17	Speedometer
18	Wheel speed sensor
19	Tripmaster switch (optional)
20	Radiator fan
21	Thermoswitch
22	Fuse, radiator fan
Cable colo	ors
bl	black
bl-wh	black-white
br	brown
bu	blue
bu-wh	blue-white
gn	green
gr	gray
re	red
re-bl	red-black
re-wh	red-white
wh	white
wh-re	white-red
ye	yellow
ye-bl	yellow-black
ye-re	yellow-red

SUBSTANCES 114

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

according to

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

Brake fluid DOT 5.1

according to

- DOT

Specification

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

Supplier

Motorex

Motorex® Brake Fluid DOT 5.1

Coolant

Specification

Use only suitable coolant (even in countries with high temperatures). Using inferior antifreeze can result in corrosion and foaming.
 KTM recommends Motorex® products.

Mixture ratio

Antifreeze: -2545 °C (-1349 °F)	50 % Anti-corrosion/antifreeze
	50 % distilled water

Coolant (mixed ready to use)

Antifreeze	-40 °C (-40 °F)

Supplier

Motorex

Motorex® Anti Freeze

Engine oil (SAE 10W/50)

according to

- JASO T903 MA (▼ P. 117)
- SAE (* P. 117) (SAE 10W/50)

Specification

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

- Motorex® Cross Power 4T

Fork oil (SAE 5)

according to

SAE (* P. 117) (SAE 5)

Specification

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

Supplier

Motorex

Motorex® Racing Fork Oil

Universal oil spray

Specification

KTM recommends Motorex® products.

Supplier

Motorex

Motorex[®] Joker 440 Universal

Long-life grease

Specification

KTM recommends Motorex® products.

Supplier

Motorex

Motorex® Long Therm 2000

Chain cleaner

Specification

- KTM recommends **Motorex**® products.

Supplier

Motorex

Motorex[®] Chain Clean 611

Offroad chain spray

Specification

KTM recommends Motorex® products.

Supplier

Motorex

Motorex® Chain Lube 622

Air filter cleaner

Specification

KTM recommends Motorex® products.

Supplier

Motorex

Motorex® Twin Air Dirt Bio Remover

Oil for foam air filter

Specification

KTM recommends Motorex® products.

Supplier

Motorex

Motorex® Twin Air Liquid Power

Motorcycle cleaner

Specification

KTM recommends Motorex® products.

Supplier

Motorex

Motorex® Moto Clean 900

Cleaning and polishing materials for metal, rubber and plastic

Specification

KTM recommends Motorex® products.

Supplier

Motorex

Motorex® Protect & Shine 645

High-luster polish for paint

Specification

KTM recommends Motorex® products.

Supplier

Motorex

Motorex® Moto Polish

Contact spray

Specification

KTM recommends Motorex® products.

Supplier

Motorex

Motorex® Accu Contact

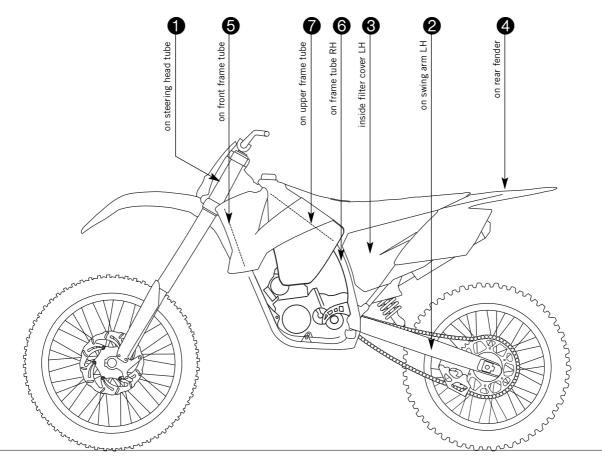
STANDARDS 117

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 oil as the engine. The JASO MA Standard meets these special requirements.

SAE

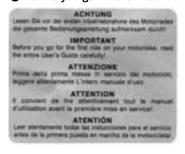
The SAE viscosity classes were defined by the Society of Automotive Engineers and are used for classifying oils according to their viscosity. The viscosity describes only one property of oil and says nothing about quality.



■ Type label USA



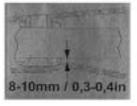
Before you go for the first ride



Noise emission

KINESPORTMOTORCYCLE ASLAUSTRA THIS 2008 KTHINTIES IN MOTORCYCLE TISSUSE: 508 MEETS U.S. EPA NOSE EMISSION RECURRENENTS OF 80 disk at 51VF RPM BY THE	THIS 2008 KTWEFESS NO MOTORCYCLE THIS SELEKZ HIS MEETS
the control of the co	LIS. PEDERAL TEST PROCEDURE, MODIFICATIONS MHICH CAUSE THIS
I A DEPOSAL TOUT SOURCE WAS ANOTHER WATER WATER ON THE THE	
PROHISTED BY U.S. FEDERAL LAW SEE OWNER'S WANUAL.	PROHISTED BY U.S. FEDERAL LAW SEE OWNER'S WANLAL

Chain tension



Type label CAN

VINB	DWC.			VENEZUMINA	123406	
THE .			4			
GM	mme		THEMELONE	POWERENCE	PRICE DE	GONTLA PROCE
tel	145	45	2000-21	1.85-21	34	200
live .	196	10	140/80-18	3.15-19	50	296
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EAVP



Green sticker



REPORTING SAFETY DEFECTS

If you believe that your vehicle has a defect which could cause an accident resulting in injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying KTM North America, Inc.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remady campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or KTM North America, Inc.

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1–888–327–4236 or visit the website www.nhtsa.dot.gov, or write to: NHTSA Headquarters, 1200 New Jersey Avenue, SE, West Buildding, Washington, DC 20590. You can also obtain other information about motor vehicle safety from the Hotline.

NOISE EMISSION WARRANTY

KTM Sportmotorcycle AG warrants that this exhaust system, at the time of sale, meets all applicable U.S. EPA Federal noise standards. This warranty extends to the first person who buys this exhaust system for purposes other than resale, and to all subsequent buyers.

Warranty claims should be directed to:

KTM North America, Inc., Customer Support, 1119 Milan Ave., Amherst, OH 44001,

Phone: (440) 985–3553 www.ktmusa.com

KTM Canada, Inc., Customer Support, 1375-1 Marie-Victorin, Saint-Bruno, QC J3V 6B7

Phone: (450) 441-4451 x 39

www.ktmcanada.com

TAMPERING WARNING

TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED. FEDERAL LAW PROHIBITS THE FOLLOWING ACTS OR CAUSING THEREOF:

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

AMONG THOSE ACTS PRESUMED TO CONSTITUTE TAMPERING ARE THE ACTS LISTED BELOW.

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

WARNING STATEMENT

This product should be checked for repair or replacement if the motorcycle noise has increased significantly through use. Otherwise, the owner may become subject to penalties under state and local ordinances.

CONSUMER RIGHTS

Limited Warranty claims should be directed to an authorized KTM dealer. If you are not satisfied, please contact: KTM North America, Inc., Customer Support, 1119 Milan Ave., Amherst, OH 44001,

Phone: (440) 985–3553 www.ktmusa.com

KTM Canada, Inc., Customer Support, 1375-1 Marie-Victorin, Saint-Bruno, QC J3V 6B7

Phone: (450) 441-4451 x 39

www.ktmcanada.com

Your rights may vary, please refer to the applicable state laws.

A	Clutch lever
Accessories	adjusting basic position
Air filter	Compression damping
cleaning	fork, adjusting
fitting	Compression damping, high-speed
removing	of shock absorber, adjusting
Air filter box lid	Compression damping, low-speed
fitting	of shock absorber, adjusting
Antifreeze	Coolant draining 72
checking	refilling
B	Coolant level
	checking71-72
Basic chassis setting	Cooling system
checking with rider's weight	D
Battery fitting	
recharging	Dust boots cleaning
removing	3
Brake calipers	E
Brake discs	Electric starter button
checking	
Brake fluid	Engine running in
of rear brake, adding	_
Topping up brake fluid of front brake 56	Engine number
Brake fluid level	Engine oil changing
of front brake, checking	draining
of rear brake, checking	refilling
Brake linings	topping up
of front brake, changing	Engine oil level
of front brake, checking	checking
of front brake, installing	engine oil screen
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of rear brake, installing	cleaning
of rear brake, removing	Environment
C	F
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adjusting idle	closing
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idle	Filling up
Chain	Fuel
cleaning	Flasher switch
Chain guide	Foot brake pedal
adjusting	adjusting basic position 60
Chain tension	checking free play
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checking	Fork legs
Chassis number	bleeding
Choke	fitting
CLEANING	
Clutch	Fork offset 41 adjusting 41
changing fluid	adjusting
checking fluid level	

Fork protector	removing
fitting	Maintenance
removing	Motorcycle
Front fender	cleaning
installing	0
removing	
Front wheel	Oil filter changing
fitting	fitting
removing	removing
Fuel tank	Overview of indicator lamps
installing	OWNER'S MANUAL
removing	P
Fuel city and a city a	
Fuel, oils, etc	Play in gas Bowden cable
Fuse	adjusting
fitting	checking
removing	Putting into operation
G	Advice on first use
Gas Bowden cable route	Checks before putting into operation
checking	
gear oil	R
changing	Rear sprocket / engine sprocket
Gear oil	checking for wear
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refilling	fitting
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checking	fork, adjusting
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Gear oil screen	adjusting
cleaning	\$
Н	Seat
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adjusting basic position	removing69
adjusting free travel	Shift lever
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Handlebar position	checking riding sag
adjusting 48	checking static sag
Headlight flasher switch	fitting
Horn	removing
	Short circuit button
Ignition switch	Side stand
K	Spare parts
Key number	Speedometer adjusting
Kickstarter	Function description
L	Setting kilometers or miles
Light switch	Setting the clock
-	Spoke tension
Lower triple clamp fitting44-45	checking
removing	Spring preload
•	fork, adjusting
M	of shock absorber, adjusting
Main silencer	Start number plate
fitting	fitting

removing
Starting
steering
locking
unlocking
Steering head bearing
greasing
Steering head bearing play
adjusting
checking
Storage
Т
Technical data
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Chassis
Engine88-89
Fork
Shock absorber
Tightening torque - chassis
Tightening torque - engine90-91
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checking
Tire condition
checking
Transport
TROUBLESHOOTING 84-85
Type label \hdots
W
Warranty
Wiring diagram



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