

Description	Part No
RXF36 m.2 Air TTX18 29	FGxxx 36xx 211x
RXF36 m.2 Air TTX18 29	FGxxx 361x 201x
RXF36 m.2 Air TTX18 27.5	FGxxx 36xx 216x
RXF36 m.2 Air TTX18 27.5	FGxxx 361x 206x
RXF36 m.2 Coil TTX18 29	FGxxx 361x 212x
RXF36 m.2 Coil TTX18 29	FGxxx 3617 202x
RXF36 m.2 Coil TTX18 27.5	FGxxx 361x 217x
RXF36 m.2 Coil TTX18 27.5	FGxxx 3617 207x

**Note!**

*Please retain the original packaging for warranty or service needs.*

**Warning!**

*Before installing this product, read this manual. The front fork is an important part of your bicycle and will affect the stability.*

**Note!**

*Please note that the images in this manual are a general representation of the product and may differ slightly from your product.*

**Note!**

*Please note that during storage and transportation, especially at high ambient temperature, some of the oil and grease used for assembling may leak and stain the packaging. This is in no way detrimental to the product, wipe off the excessive oil/grease with a cloth.*

## Front Fork

# **RXF36 m.2**

# **Air/Coil**

## Owner's Manual/ Mounting Instructions



# SAFETY PRECAUTIONS

## **Note!**

*The front fork is an important part of the bicycle and will affect the stability.*

## **Note!**

*Read and ensure you understand the information in this manual and other technical documents provided by the bicycle manufacturer before using the product.*

## **Note!**

*Öhlins Racing AB can not be held responsible for any damage to the front fork, bicycle, other property or injury to persons, if the instructions for mounting, usage and maintenance are not followed exactly.*

## **Warning!**

*After you have installed the Öhlins product, take a test ride at low speed to ensure that the bicycle has maintained stability.*

## **Warning!**

*If the suspension makes an abnormal noise, or the function is irregular, or if you notice any leakage from the product, stop the bicycle immediately and return the product to an Authorized Öhlins MTB Service Center.*

## **Warning!**

*The product warranty shall only apply if the product has been operated and maintained in accordance with recommendations in this manual. If you have any questions regarding usage, service, inspection and/or maintenance please contact an Authorized Öhlins MTB Service Center.*

## **Note!**

*When working with the Öhlins product, always read the bicycle manufacturer's manuals.*

## **Note!**

*This manual shall be considered as a part of the product and shall therefore accompany the product throughout its life cycle.*

## **Note!**

*Do not use a pressure washer or a power washer when cleaning the fork.*

## **Warning!**

*This product was developed and designed exclusively for specific bicycle models and shall only be installed on intended bicycle models in its original condition as delivered from the bicycle manufacturer.*

## SAFETY SYMBOLS

In this manual and other technical documents, important information concerning safety is distinguished by the following symbols:



*The Safety Alert Symbol means: Warning! Your safety is involved.*

### **Warning!**

*The Warning Symbol means: Failure to follow warning instructions can result in severe or fatal injury to anyone working with, inspecting or using the front fork, or to bystanders.*

### **Caution!**

*The Caution Symbol means: Special precautions must be taken to avoid damage to the front fork.*

## **Note!**

*The Note Symbol indicates information that is important regarding procedures.*

## **Warning!**

*This product contains pressurized components. Do not open, service or modify this product without proper education and proper tools. All hydraulic servicing must be completed by an Authorized Öhlins MTB Service Center. All other servicing must be completed by an Authorized Öhlins MTB Service Center alternatively you can conduct the service yourself if you have the necessary skills, genuine parts and tools. In some cases the front fork may need to be sent to another region for service.*

## **Note!**

*Not intended for use on tandem bikes.*

## **Note!**

*Maximum rider weight 120 kg.*

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# MOUNTING INSTRUCTIONS

## **⚠ Warning!**

*It is advisable to have an Authorized Öhlins MTB Service Center install the front fork.*

## **⚠ Warning!**

*If the bicycle is mounted in a work stand please make sure to hold the frame when front fork is removed to prevent damage to paint and (or) finish.*

## **👁 Note!**

*Before installing this product clean the bicycle thoroughly.*

## **👁 Note!**

*When working on this product, always see the bicycle service manual for specific procedures and important data.*

**1**

Remove the original front fork.

**2**

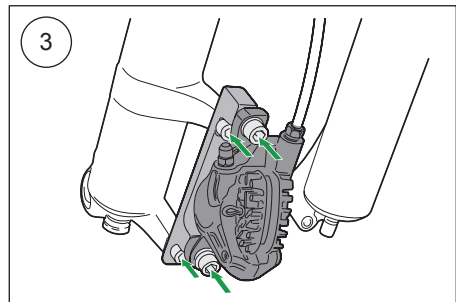
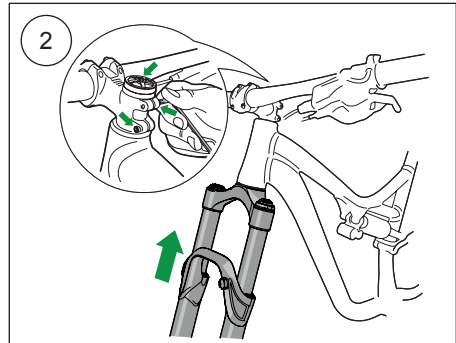
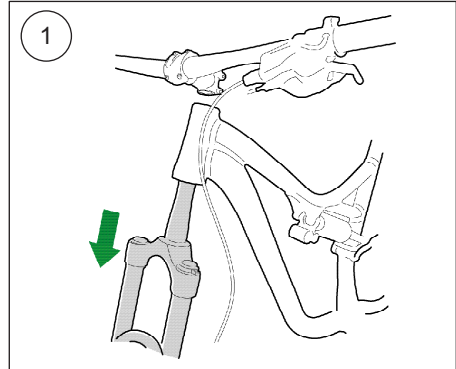
Place the Öhlins front fork. Install the stem according to the manufacturer's instructions. Do not install more than 30 mm of spacer under the stem.

**3**

Install the brake caliper according to the brake manufacturer's instructions. Minimum rotor size 180 mm.

## **👉 Caution!**

*Ensure that all screws are tightened to the correct torque and that nothing fouls or restricts movement of the front fork when the suspension is fully compressed or extended. Please check suitable clearance between the fork and frame when turning.*



# MOUNTING INSTRUCTIONS

4

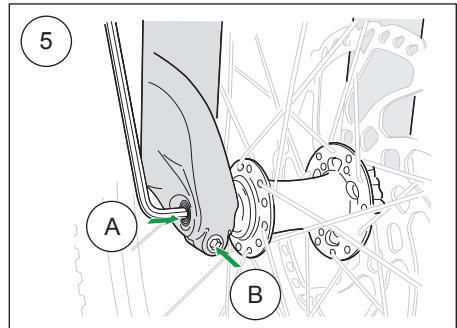
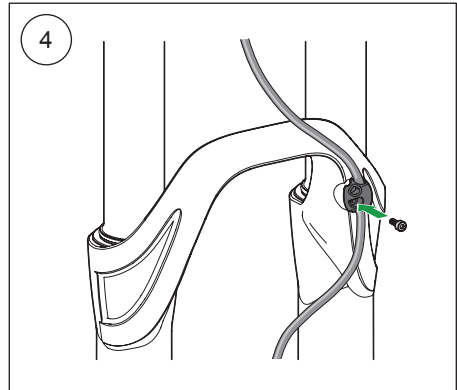
Attach the brake cable to the hose clamp and tighten the screw. Use a 2.5 mm Hex wrench. Tighten the bolt to 0.5 Nm.

5

Apply Grease on threads before installation. Use a 5 mm Hex wrench to tighten the Wheel Shaft and tighten both screw A and screw B to 6 Nm. Tighten screw A before screw B.

 **Caution!**

*Ensure that all screws are tightened to the correct torque and that nothing fouls or restricts movement of the front fork when the suspension is fully compressed or extended.*



# SETTING SAG (AIR FORKS)

Setting sag is a crucial part of setting your bicycle since it affects the height of the bicycle and the fork angle. In the following chapter we will describe how to set the sag.

## **Note!**

*This procedure must be performed on a flat surface. Do not jump or bounce on your bicycle as it will result in an inaccurate sag measurement.*

## **Setting sag:**

**1**

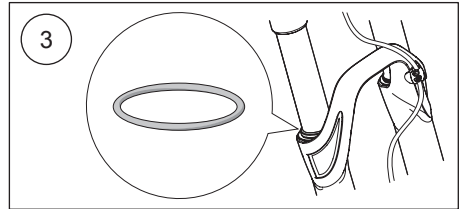
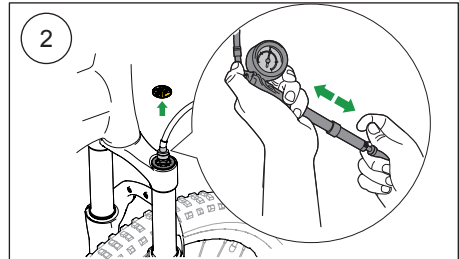
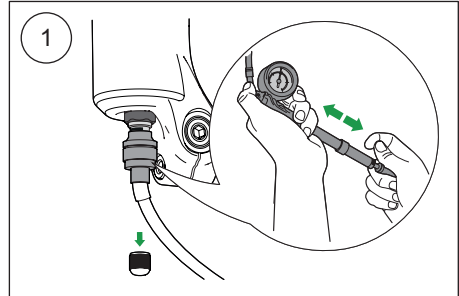
Unscrew the cap to the lower valve (ramp up chamber) and assemble the air pressure pump. Pump to desired pressure. Disconnect the pump and put the cap back on.

**2**

Unscrew top air cap (Main chamber) and assemble the air pump. Pump to desired pressure. Disassemble the air pump and reinsert the compression air cap.

**3**

Set the O-ring (sag indicator) at the position according to illustration.



# SETTING SAG (AIR FORKS)

4

Dressed in full riding gear assume normal riding position on the bicycle.

5

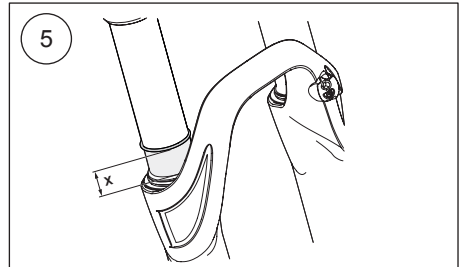
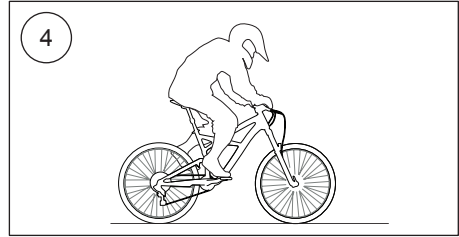
Step off the bicycle and measure the distance the O-ring (sag indicator) has moved. Sag should be set to approximately 10-15 % of the fork travel.

### General recommendations:

- too little sag: release air from main chamber
- too much sag: fill up with more air in main chamber

### General recommendations:

Heavy hard charging rider may require less sag while a smoother rider may benefit from more sag. If you have any questions, contact an Authorized Öhlins MTB Service Center for advice.



Rider weight	Main chamber	Ramp up chamber
50-60 kg (110-132 lbs)	70-80 psi	160-170 psi
60-70 kg (132-154 lbs)	80-90 psi	170-180 psi
70-80 kg (154-176 lbs)	90-100 psi	180-190 psi
80-90 kg (176-198 lbs)	100-110 psi	190-200 psi
90-100 kg (198-220 lbs)	110-120 psi	200-210 psi
100-110 kg (220-243 lbs)	120-130 psi	210-220 psi
110-120 kg (243-265 lbs)	130-140 psi	220-230 psi

# SETTING SAG (COIL FORKS)

Setting sag is a crucial part of setting your bicycle since it affects the height of the bicycle and the fork angle. In the following chapter we will describe how to set the sag.

## **Note!**

*This procedure must be performed on a flat surface. Do not jump or bounce on your bicycle as it will result in an inaccurate sag measurement.*

## **Setting sag:**

**1**

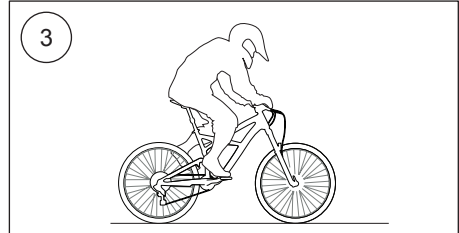
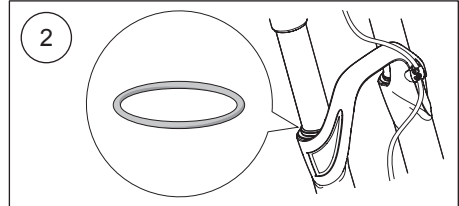
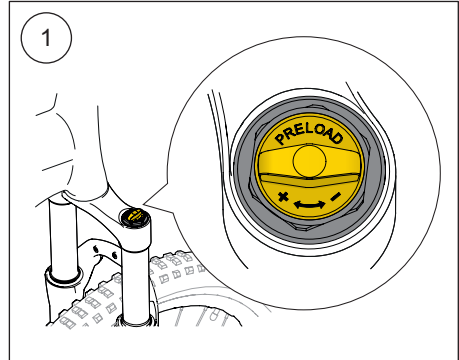
Turn the preload adjuster knob anticlockwise towards minus until it stops (minimum preload position).

**2**

Set the O-ring (sag indicator) at the position according to illustration.

**3**

Dressed in full riding gear assume normal riding position on the bicycle.



# SETTING SAG (COIL FORKS)

## 4

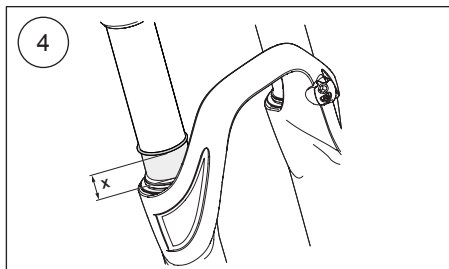
Step off the bicycle and measure the distance the O-ring (sag indicator) has moved. Sag should be set to approximately 15-20 % of the fork travel.

### General recommendations:

- Too little sag: turn the preload adjuster knob clockwise towards MINUS.
- Too much sag: turn the preload knob clockwise towards PLUS.

### General recommendations:

Heavy hard charging rider may require less sag while a smoother rider may benefit from more sag. If you have any questions, contact an Authorized Öhlins MTB Service Center for advice.



Spring rate [N/mm]	Tube color	Travel [mm]	Part no
6.1	Red (3x)	130-165	18651-01
7	Yellow (3x)	130-165	18651-02
7.9	Green (3x)	130-165	18651-03
8.8	Blue (3x)	130-165	18651-04
9.7	White (3x)	130-165	18651-05*
10.6	Black (3x)	130-160	18651-06
11.5	Red, Black, Red	130-160	18651-07

\* Standard AM fork

### 👁 Note!

*Maximum stroke can be limited when preload is added.*

### 👁 Note!

*To achieve correct sag it may be necessary to change coil spring. Contact an Öhlins dealer for more information. See spring rate chart above.*



# ADJUSTERS TTX18

*Compression damping controls the energy absorption when the front fork is being compressed, thus controls how easily the front fork compresses when you hit a bump. Rebound damping controls the energy absorption when the front fork is being extended and controls how fast the front fork returns to its normal position after being compressed.*

## To set the adjusters

The adjusters have a normal right hand thread. Turn the adjuster clockwise to fully closed position. Then, turn counter clockwise to open, and count the clicks until you reach the recommended number of clicks.

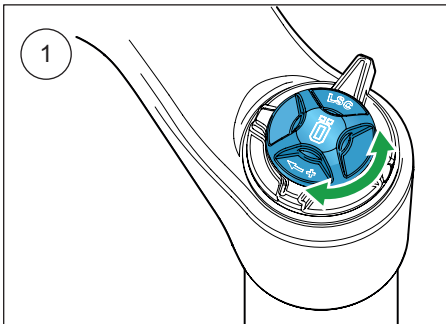
### ⚠ Caution!

*Turn gently not to damage delicate sealing surfaces. Tighten with your hand only.*

## Compression damping adjuster

### 1. Adjust low speed

To adjust, turn the blue coloured adjuster on the top of the TTX cartridge. Turn clockwise to increase damping, turn counter clockwise to decrease.

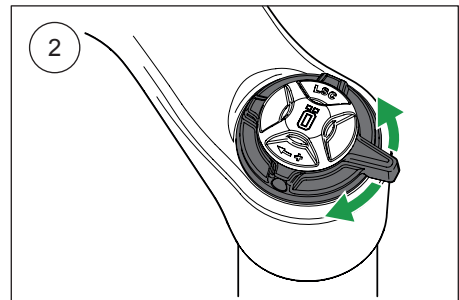


### 2. Adjust high speed

To adjust, turn the black coloured adjuster on the top of the TTX cartridge. Turn clockwise to increase damping, turn counter clockwise to decrease. For additional platform control, turn to fully closed (position 0 [zero]).

### 👁 Note!

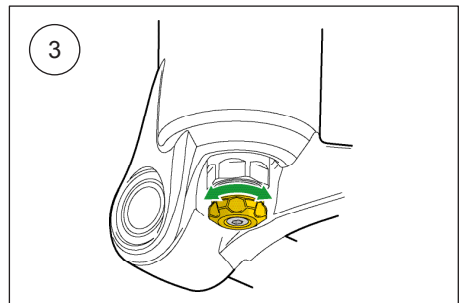
*\*Position 0 [zero]: Additional platform control is designed to be used for long climbs and not for normal riding. If used for normal riding you may experience loss of traction and bump absorption.*



## Rebound damping adjuster

### 3. Adjust rebound

Turn the gold coloured adjuster on the end eye/ bracket. Turn clockwise to increase damping, turn counter clockwise to decrease.



# SETTING UP

## Stability and traction

All bicycles are designed with a suspension geometry that include height and fork angle. Changing any components may affect the suspension geometry and it is therefore essential that the front and rear ends match each other. Changing to Öhlins suspension gives optimum performance only when both the front fork and the rear suspension interact properly. It is very important that the front and the rear ride heights are within the specified values.

## General setup

By adjusting the front fork and testing by trial and error you can learn how the different settings affect your bicycle. Always begin your setup process by taking a test ride with all adjustments at their recommended basic settings. Choose a short run of varying character, for example with long as well as sharp bends, hard and soft bumps. Stay on the same run and adjust only one setting at a time.

When you set up your bicycle you need to do it together with the front fork and on all types of tracks that you want to optimize, there are no setups that will be 100% perfect on all tracks, some compromises will need to be made.

Always keep priority at

- safe feeling
- stability
- comfort

This will allow you to ride safer, with more confidence and use less energy.

## Adjustment range

The RXF fork is designed for use within the full adjustment range, and using the front fork fully open or closed is normal for some riders.

## Rebound damping

If the bike feels loose, nervous over bumpy sections and kicking in jumps, close the rebound adjuster one click.

If the bicycle feels hard, harsh (no comfort), packs down under bumps and is difficult to enter corners with or does not stay in line over bumpy sections, decrease the rebound adjuster 1 click.

If the bicycle feels

- unstable
- loose
- bouncy

→ Increase rebound damping

If the bicycle feels

- hard
- nervous
- low traction

→ Decrease rebound damping

# SETTING UP

## Low speed compression damping

The low speed adjuster is used for controlling the chassis movement towards the ground.

If you feel that the front fork feels soft, spongy, or the bicycle feels unstable (for example when going into a corner), close 1 click (clockwise).

If you feel that the bicycle feels hard and has poor traction, open 1 click (counter-clockwise).

## High speed compression damping

The high speed adjuster has five positions. When the adjuster is fully closed it has position 0 [zero] and when the adjuster is fully open it has position 3.

Turn clockwise to increase the high speed damping and make the fork firmer. Turn counter clockwise to reduce the high speed damping.

Position 1-3 is suitable for trail riding.

Position 0 [zero] is for those long climbs where the need for traction is limited and additional platform control helps to gain efficiency.

The front forks are delivered with the adjuster set to position 3 (fully open). This is the best all-round setup and has the function that should suit most riders and tracks.

If the bicycle feels

- soft
  - low
  - is bottoming
- Increase compression damping

If the bicycle feels

- harsh
  - hard
- Decrease compression damping

## Air pressure

The correct air pressure and sag is along with the clicks, crucial to find the best set up that suits your riding style. Start with basic sag and go through the adjusters but the adjuster will not fully compensate for a too soft or hard air spring.

### **Note!**

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*For a more progressive spring characteristics contact an Authorized Öhlins MTB Service Center.*

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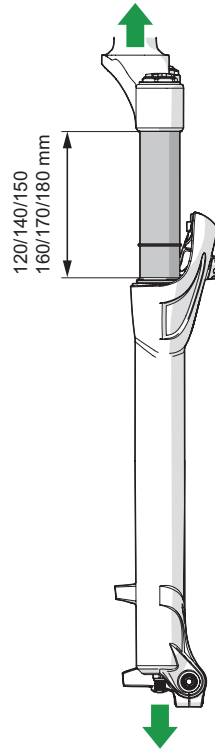
# SETTING UP (AIR FORKS)

## Reset to original ride position

After reducing the air pressure in the main chamber, it is necessary to reset the fork to its original length.

*Example:* If you are lowering the pressure from 130 psi to 80 psi, the fork will get a lower ride position (shorter travel). Reset the fork to original Ride position by extending the fork by pulling the handlebar up, while your friend is holding the wheel tight to the ground. Repeat the extension about 10 cycles, until you have reached the original length.

Original distance between Wiper Seal and Crown: 120 mm/140 mm/150 mm/160 mm/  
170 mm/180 mm



# SETUP DATA

## **Warning!**

*Before riding, always make sure that the basic settings are according to recommended Set-up Data. Read about adjustments and setting up in the shock Owner's Manual before you make any adjustments. Contact an Authorized Öhlins MTB Service Center if you have any questions about setting up.*

		<b>RXF36 m.2 TTX18</b>	
	Rebound	14-16	clicks
	Compression low	14-16	clicks
	Compression high	3	clicks
RXF36 m.2 29 Air FGxxx 361x 201x	Length axle to crown	570/580/590/600	mm
	Stroke	150/160/170/180	mm
RXF36 m.2 29 Coil FGxxx 361x 202x	Length axle to crown	536/546/556/566/576/586	mm
	Stroke	120/130/140/150/160/165*	mm
RXF36 m.2 27.5 Air FGxxx 361x 206x	Length axle to crown	549/559/569/579	mm
	Stroke	150/160/170/180	mm
RXF36 m.2 27.5 Coil FGxxx 361x 207x	Length axle to crown	515/525/535/545/555/565	mm
	Stroke	120/130/140/150/160/165*	mm

\*Stroke depending in spring, see page 8.

For the coil forks there is extra bump rubbers (5 mm) attached in the fork cardboard box.

Use the 5 mm bump rubbers for strokes up to 160 mm and the 10 mm bump rubbers for strokes over 160 mm.





# MAINTENANCE

Extreme riding in adverse weather conditions or lack of cleaning will shorten service intervals.

Maintenance	Interval
Clean dirt and debris from front fork	Every ride
Check air pressure and set sag	Every ride
Check torque on front fork mounting bolts	Every ride
Remove lowers, clean and inspect bushings and seals, change oil bath if necessary	50 hours
Full front fork air spring service	100 hours/1 year
Remove and clean lowers, replace seals and bump rubbers, change oil bath	100 hours/1 year
Full front fork damping cartridge service	100 hours/1 year

👁️ Öhlins products are subject to continuous improvement and development, therefore, although these instructions include the most up-to-date information available at the time of printing, minor updates may occur.

To find the latest information contact an Authorized Öhlins MTB Service Center. Please contact an Authorized Öhlins MTB Service Center if you have any questions regarding the contents in this document.

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