

#### Kit Contents

| Description                              | Part No     | Pcs |
|--|-------------|-----|
| RXF34 29 Air TTX22<br>120/140/160 mm     | FG341x 1512 | 1   |
| RXF36 29 Air TTX22<br>120/140/150/160 mm | FG361x 171x | 1   |
| RXF36 29 Air STX22<br>150/160 mm         | FG361x 1731 | 1   |
| RXF36 27.5 Air TTX22<br>150/170 mm       | FG361x 1715 | 1   |
| RXF36 27.5 Air STX22<br>150/170 mm       | FG361x 1735 | 1   |

#### **⚠ 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

# **RXF34/RXF36**

## 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.*

## 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 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.*

## **Warning!**

*This product contains pressurized air. Do not open, service or modify this product without proper education and proper tools. Service must be done by Authorized Öhlins MTB Service Centers. In some cases the front fork may need to be sent to another region for service.*

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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. Do not use a disc rotor larger than  $\varnothing 203$  mm.

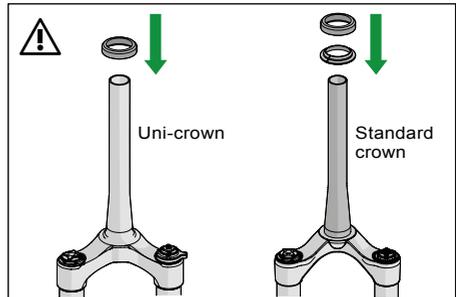
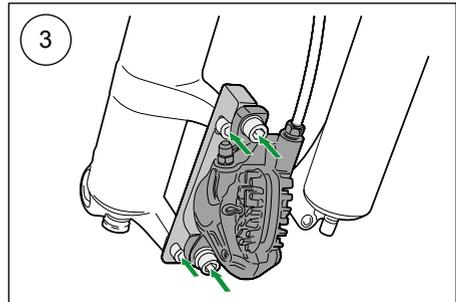
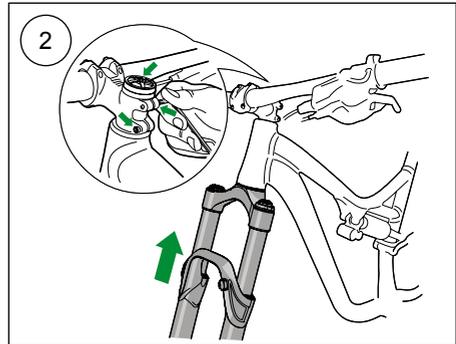
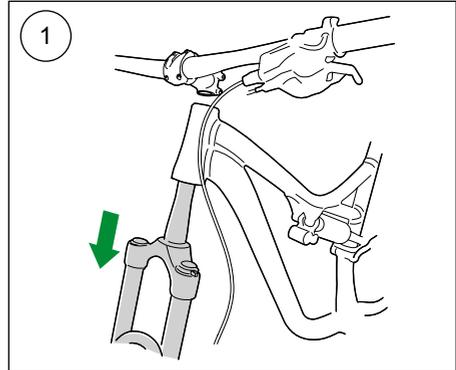
## **👉 Caution!**

*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.*

## **⚠ Warning!**

*If the fork is equipped with a uni-crown do not use a Crown Race. The Crown interfaces directly with the lower bearing. Use a lower bearing with the dimensions:  $45^\circ/45^\circ \times 51.9 \times 40.0$  mm.*

*If the fork is equipped with a standard crown use a suitable Crown Race and bearing.*



# MOUNTING INSTRUCTIONS

4

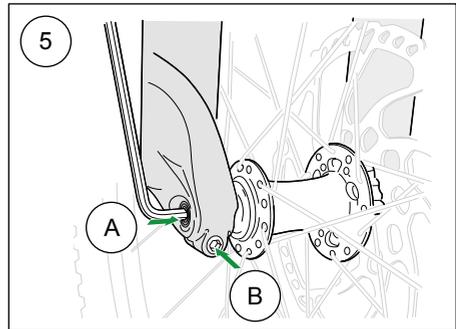
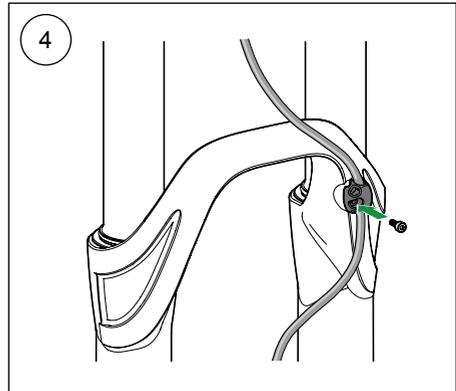
Attach the brake cable to the hose clamp and tighten the screw. Use a 2.5 mm Hex wrench. Tighten the bolt to 0.5 Nm.

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

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**

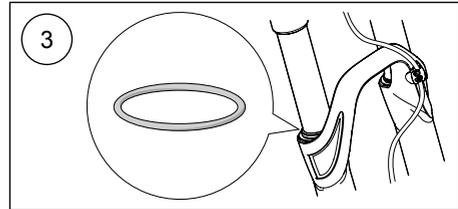
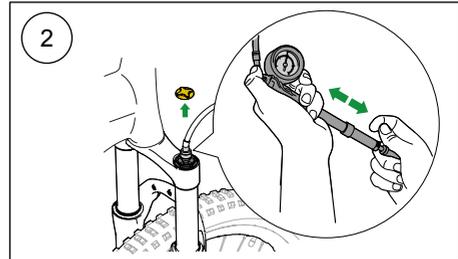
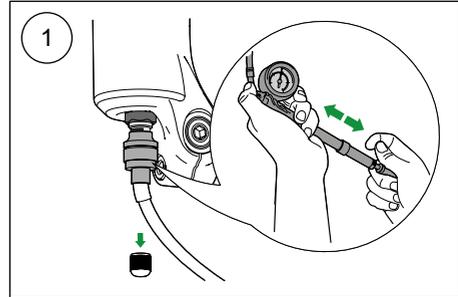
Unscrew the cap to the lower valve (ramp up chamber) and assemble the air pressure pump. Pump to desired pressure. Disconnect the pump and put the cap back on.

**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

4

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

5

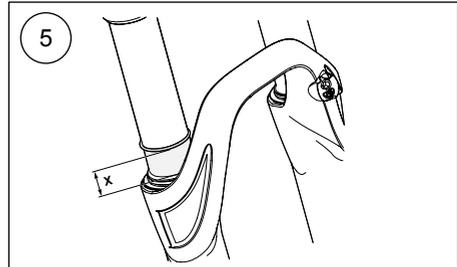
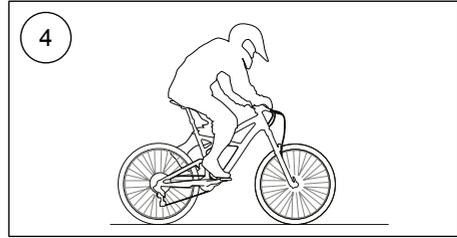
Step off the bicycle and measure the distance the O-ring (sag indicator) has moved. Sag should be set to approximately 10-15 % of the fork travel.

**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)   | 80-90 psi    | 160-170 psi     |
| 60-70 kg (132-154 lbs)   | 90-100 psi   | 170-180 psi     |
| 70-80 kg (154-176 lbs)   | 100-110 psi  | 180-190 psi     |
| 80-90 kg (176-198 lbs)   | 110-120 psi  | 190-200 psi     |
| 90-100 kg (198-220 lbs)  | 120-130 psi  | 200-210 psi     |
| 100-110 kg (220-243 lbs) | 130-140 psi  | 210-220 psi     |
| 110-120 kg (243-265 lbs) | 140-150 psi  | 220-230 psi     |

# ADJUSTERS TTX22

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.

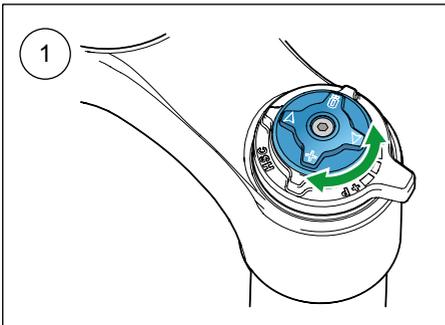
### ⚠ Caution!

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.

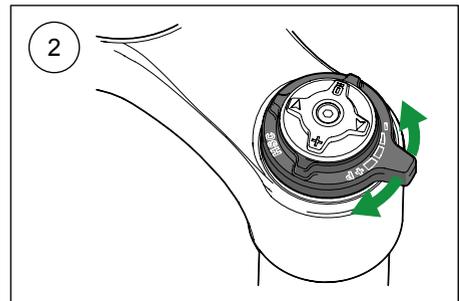


### 2. Adjust high speed

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.



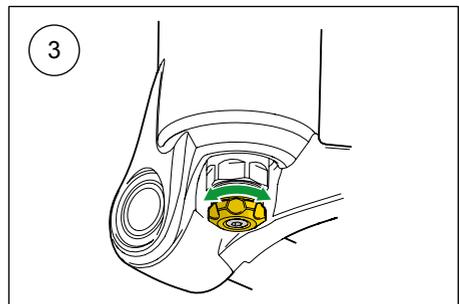
## Rebound damping adjuster

### 3. Adjust rebound

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

### 👁 Note!

The rebound adjuster is designed to compensate for temperature changes, the number of clicks may differ between a cold and a warm front fork. The recommended setting applies for room temperature.



# ADJUSTERS STX22

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.

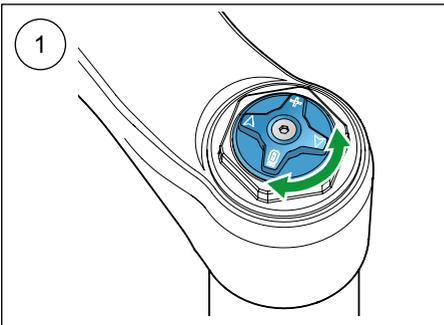
### ⚠ Caution!

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 STX cartridge. Turn clockwise to increase damping, turn counter clockwise to decrease.



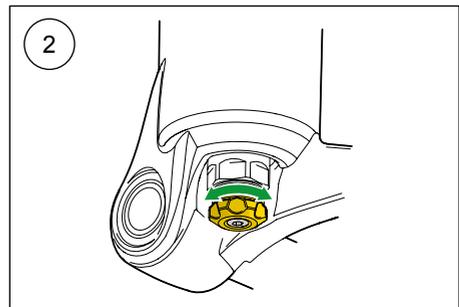
## Rebound damping adjuster

### 2. Adjust rebound

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

### 👁 Note!

The rebound adjuster is designed to compensate for temperature changes, the number of clicks may differ between a cold and a warm front fork. The recommended setting applies for room temperature.



# 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, open 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 TTX22

## 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 5.

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

Position 1-5 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 5 (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 STX22

## 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).

The front forks are delivered with the low speed compression and rebound adjuster at 7 clicks. 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!**

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

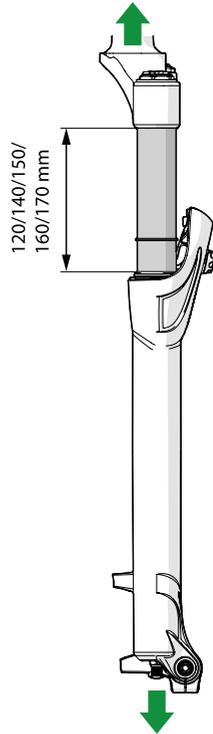
# SETTING UP

## 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 Whipper Seal and Crown: 120 mm/140 mm/150 mm/160 mm/170 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.*

|            |                      | RXF34/RXF36 TTX22 |        | RXF36 STX22 |        |
|------------|----------------------|-------------------|--------|-------------|--------|
|            | Rebound              | 7-8               | clicks | 7-8         | clicks |
|            | Compression low      | 7-8               | clicks | 7-8         | clicks |
|            | Compression high     | 7-8               | clicks |             |        |
|            | Recommended sag      |                   |        |             |        |
| RX34 29:   | Length axle to crown | 531/551/571       | mm     |             |        |
|            | Stroke               | 120/140/160       | mm     |             |        |
| RX36 29    | Length axle to crown | 526/546/556/566   | mm     | 556/566     | mm     |
|            | Stroke               | 120/140/150/160   | mm     | 150/160     | mm     |
| RXF36 27.5 | Length axle to crown | 533/543/553/563   | mm     | 543/563     | mm     |
|            | Stroke               | 140/150/160/170   | mm     | 150/170     | mm     |

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# MAINTENANCE

Extreme riding in adverse weather conditions or lack of cleaning will reduce 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 rebuild at service center                                   | 100 hours/ 1 year |
| Remove lowers, clean, replace seals and bump rubber, change oil bath at service center | 100 hours/ 1 year |
| Full front fork damping cartridge rebuild at service center                            | 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.

Part no. 07258-03\_0  
Issued 2017-03-02

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Öhlins Racing AB  
Box 722  
S-194 27 Upplands Väsby, Sweden  
Phone +46 8 590 025 00  
fax +46 8 590 025 80



[www.ohlins.com](http://www.ohlins.com)