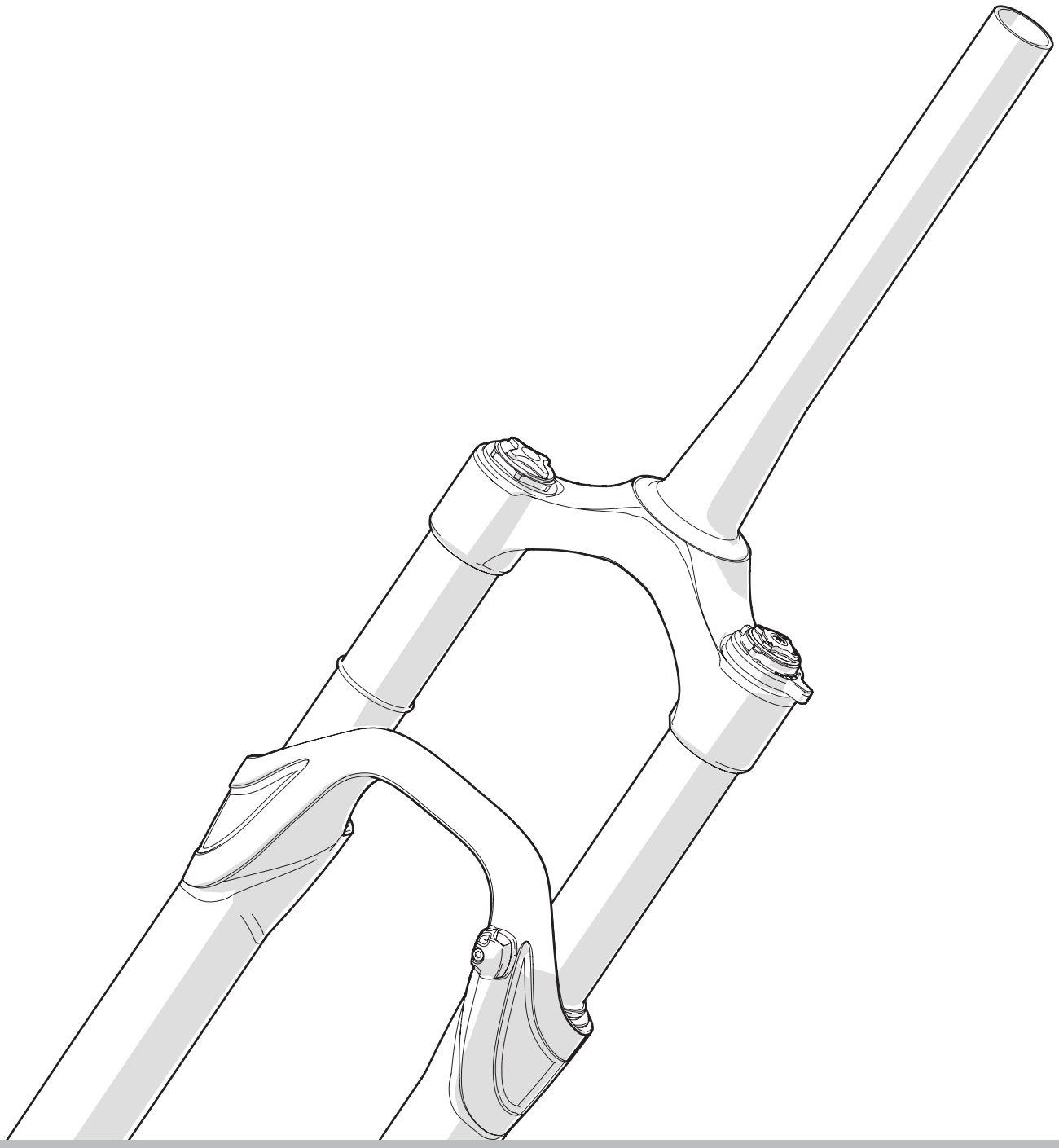

Front Fork

RXF34/RXF36

Workshop Manual - Chassis and Air Spring 100 h

ÖHLINS®
ADVANCED SUSPENSION TECHNOLOGY

SAFETY PRECAUTIONS

General Warnings

Note!
When working with the Öhlins product, always read the Vehicle Service Manual.

Note!
The shock absorber/front fork/steering damper is an important part of the vehicle and will affect the stability.

Note!
Read and ensure you understand the information in this manual and other technical documents provided by Öhlins, before using the product.

Note!
Öhlins Racing AB can not be held responsible for any damage to the shock absorber/front fork/steering damper, vehicle, other property or injury to persons, if the instructions for mounting, usage and maintenance are not followed exactly.

⚠ Warning!
After installing the Öhlins product, take a test ride at low speed to ensure your vehicle 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 vehicle immediately and return the product to an Öhlins Service Centre.

⚠ 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 Öhlins.

Note!
Before working on the product make sure that the vehicle is washed and cleaned properly. Do not use alcobased products on the outside or inside of the product.

Product Specific Warnings

⚠ Warning!
This product was developed and designed exclusively for a specific vehicle model and shall only be installed on the intended vehicle model in its original condition as delivered from the vehicle manufacturer.

⚠ Warning!
This product is pressurized. Do not open, service or modify this product without proper education (authorized Öhlins dealer/distributor) and proper tools.

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

SAFETY SYMBOLS

In this manual, mounting instructions 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 shock absorber/front fork, or to bystanders.

Caution!
The Caution Symbol means: Special precautions must be taken to avoid damage to the shock absorber.

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

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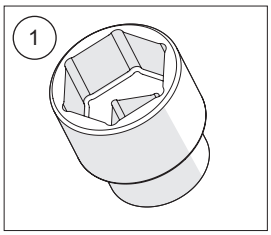
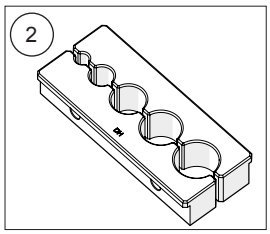
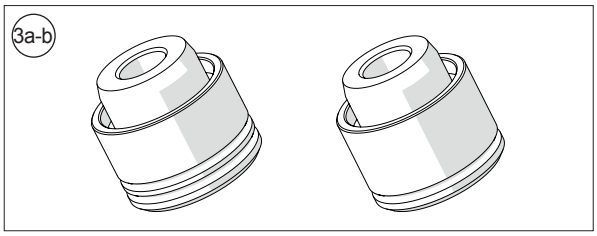
Tools

1	18860-01	Hex socket 28 mm
2	19245-01	Multi clamp TTX18
3a	19246-02	Wiper seal tool (RXF36)
3b	19246-03	Wiper seal tool (RXF34)





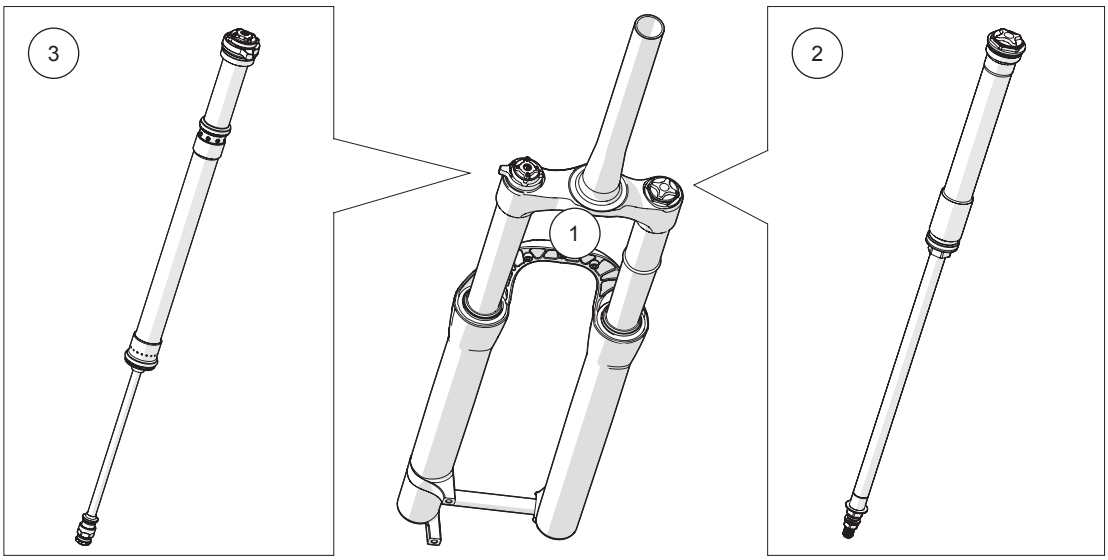


Oil, grease, thread locker and sealant

Fork lubrication fluid	01336-01 - Renep CGLP 68 Fork lube 1L
Air spring lubrication fluid	01337-06 - Renep CGLP 220 Air spring lube 0.6L
Function grease	01338-22 - Renolit SI 410 M Silicone grease 225g
Assembly grease	Slickoleum / Buzzy's Slick Honey
Loctite 243	01791-03

Overview - General layout

1. **Chassis**
2. **Air Spring Cartridge**
3. **Damper Cartridge**



RXF34/RXF36 100-HOUR SERVICE

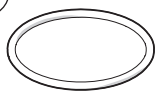
Service Kit Contents

1	18850-01	Service Kit Chassis RXF34
2	18880-07	Service kit chassis SKF RXF36 *
3	18850-12	Service Kit Air Spring Cartridge RXF34/RXF36 **

*The following service kits, 18880-01/03 can also be used.

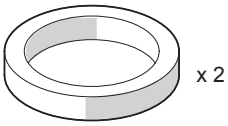
**The following service kit, 18850-02 can also be used.

1

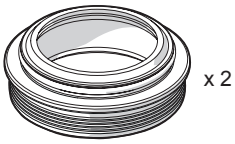


18612-13
(O-ring 33x2 Blue)

18572-02
(Bump rubber)

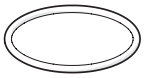


18602-01
(Foam ring)

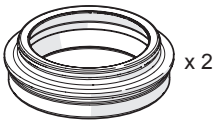


18579-03
(Wiper seal)

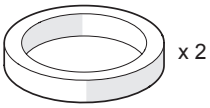
2



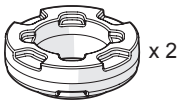
18710-01
(O-ring blue)



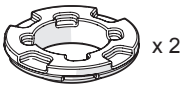
18711-02
(Wiper seal)



18709-01
(Foam ring)



18572-04
(Bump rubber)



18572-01
(Bump rubber)

3

00576-06
(O-ring)

00638-86
(O-ring)

18556-03
(Back-up ring)

18637-01
(O-ring Transparent)

00338-57
(O-ring)

18612-04
(O-ring)

Chassis 100-Hour Service

We recommend using a bike stand to clamp the steering tube when working on the fork.

Note!

Record the rebound adjuster setting and the pressure in the positive air chamber and ramp up chamber before service.

1. Thoroughly clean the outside of the fork from dirt or grit.

2. Release the air from the positive air chamber at the top and the ramp up chamber at the bottom.

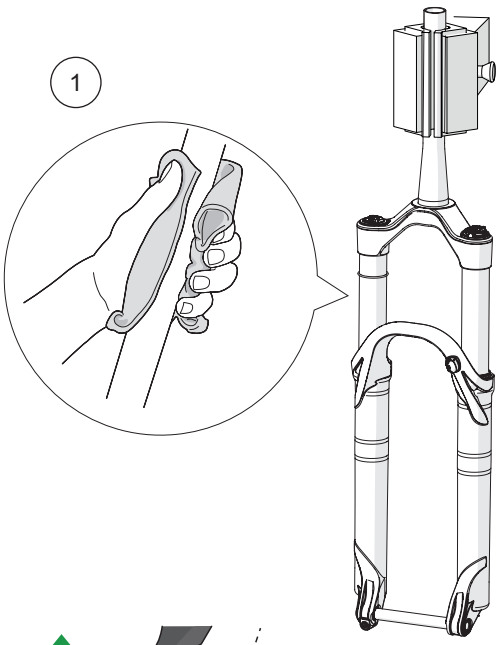
3. Use a 14 mm wrench to hold the rebound adjuster knob steady. With a 2.5 mm hex key remove the screw and the knob.

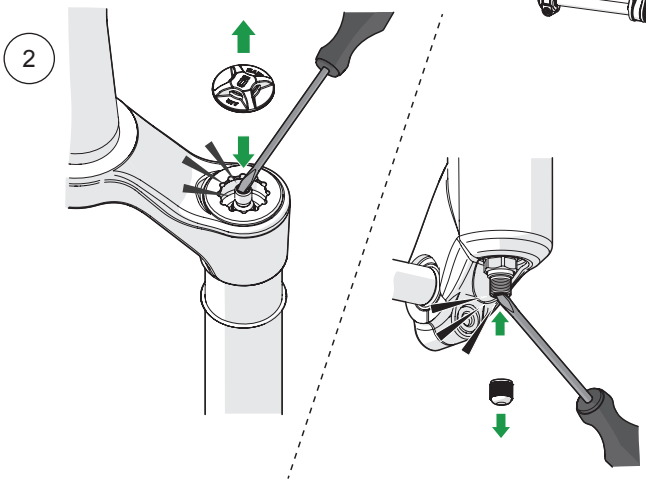
4. Remove the nut by using a socket wrench with a 14 mm deep hex socket.

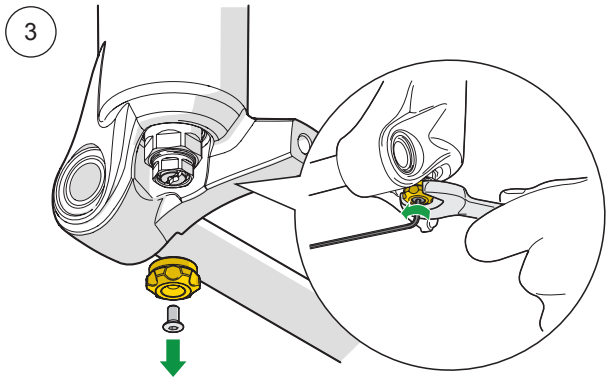
5. Use a socket wrench with a 12 mm deep hex socket to remove the washer and the nut on the lower air valve.

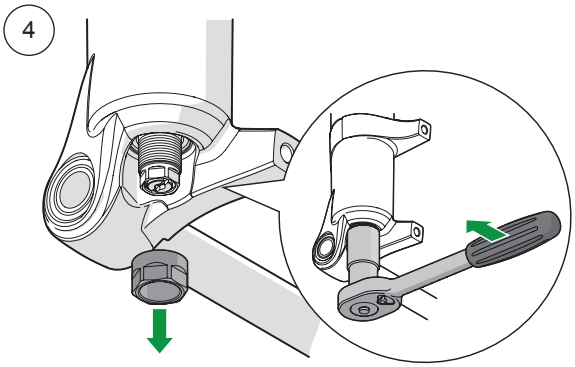
6. Slide the lower legs off the stanchions.

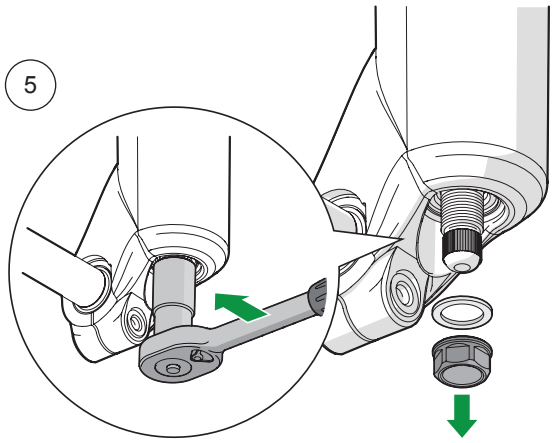
7. Drain the lower legs of all fluids.

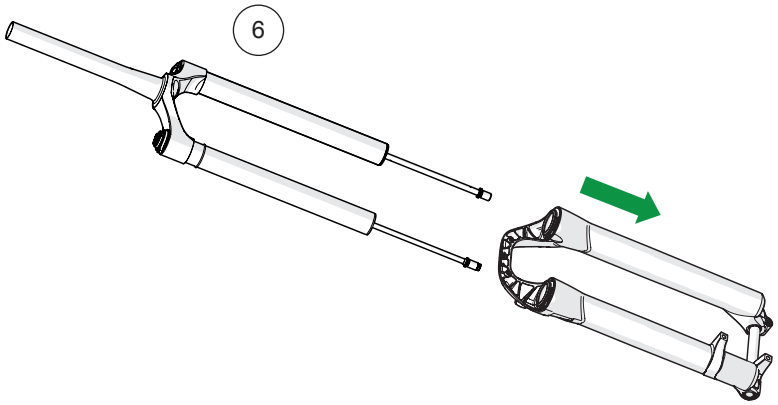












8. Use tweezers to cautiously remove the old foam rings in the lower legs.

9. Carefully remove the old bump rubbers from the lower legs. Protect lowers and seal surfaces from scratches.

10. Use a screwdriver or similar to remove the old wiper seals.

11. Use a rag wrapped around a long rod or similar to clean the insides of the lower legs.

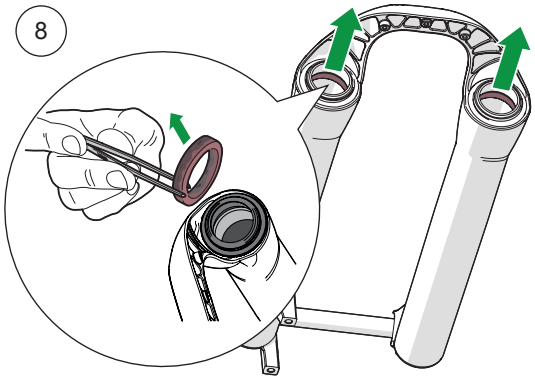
Note!

Be careful not to scratch the bushings.

12. Carefully clean the wiper seal and foam ring areas using disc brake cleaner and a paper cloth or rag to remove old suspension fluid and dirt.

13. Reinsert new bump rubbers (18572-02 RXF34, 18572-01 RXF36) into the lower legs. Use a long rod or similar to carefully put them in place.

8



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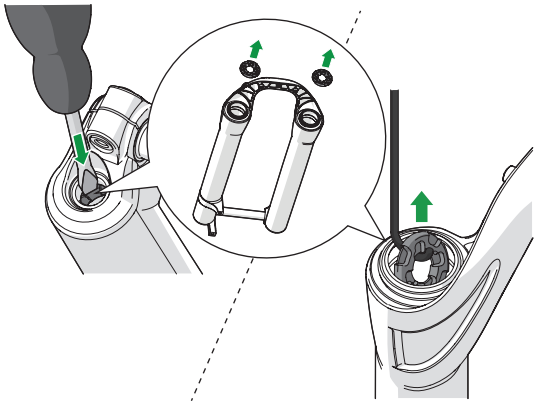

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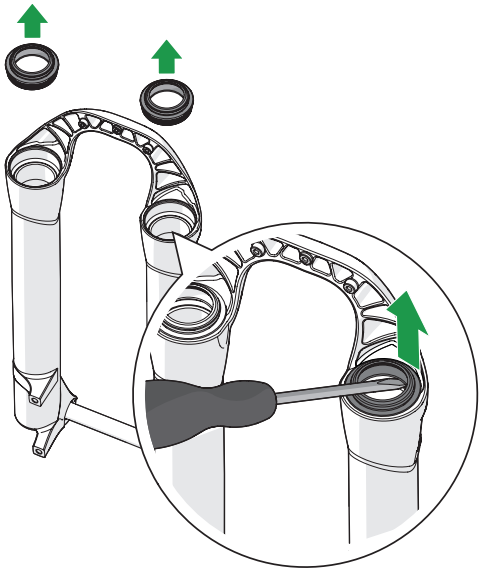

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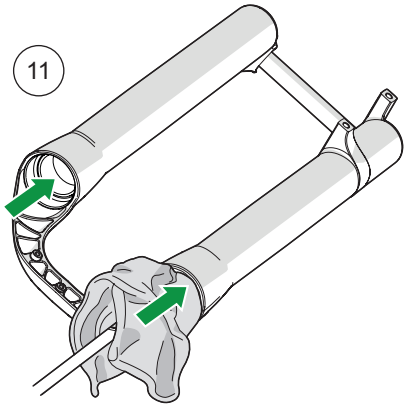

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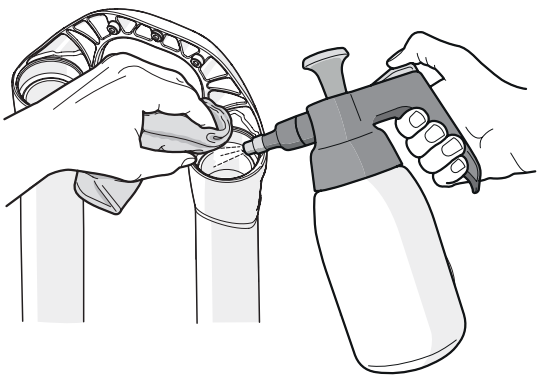

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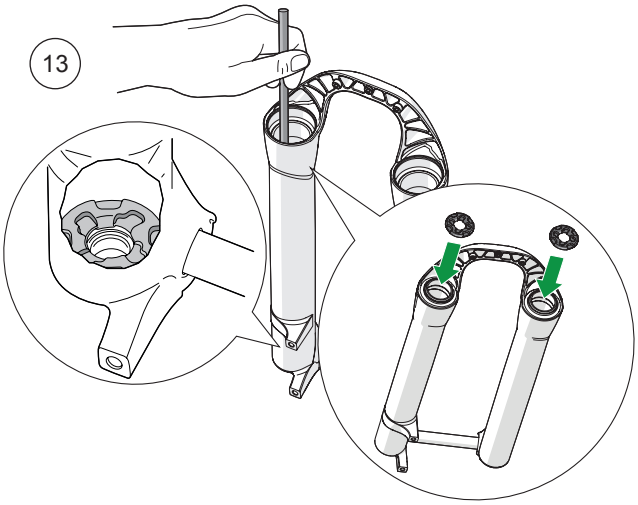


14. Reinsert new wiper seals (18579-03 RXF34, 18711-01/18711-02 RXF36) into the lower legs. Use the wiper seal tool and a soft hammer to put them in place.

15. Apply a thin layer of functional grease to the inner surfaces of the wiper seals.

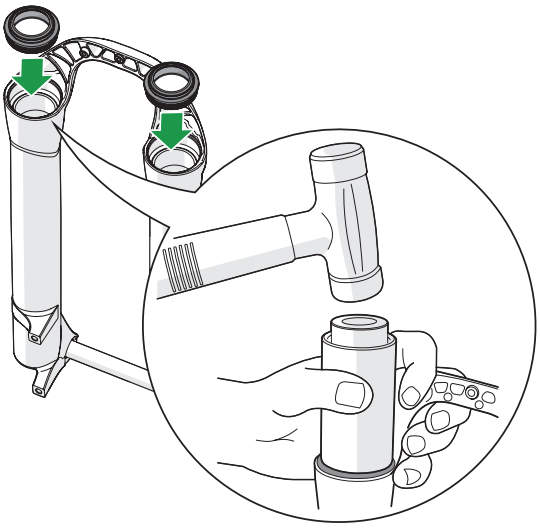
16. Soak the foam rings in fresh fork lubrication fluid.

17. Use tweezers or similar to carefully reinsert the soaked foam rings into the lower legs. Check that they are mounted corrrectly and not twisted.

18. Remove the old sag o-ring.

19. Install a new sag o-ring (18612-13 RXF34, 18710-01 RXF36) from the service kit.

14



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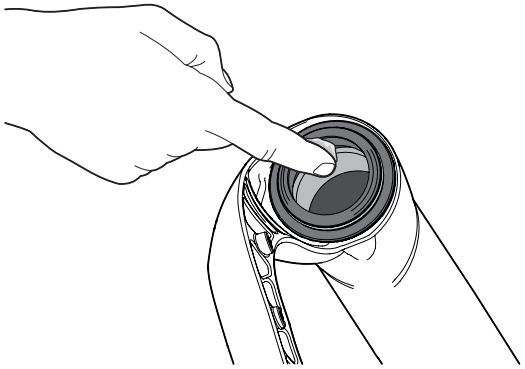

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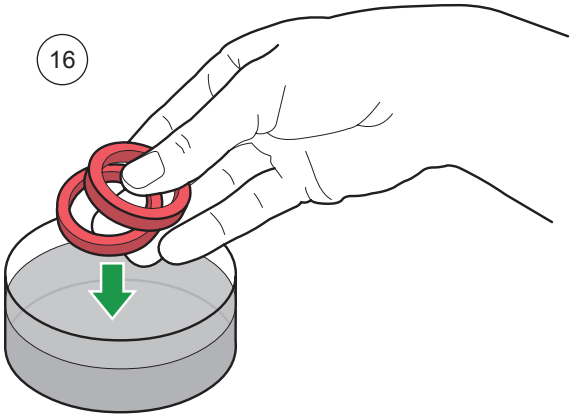

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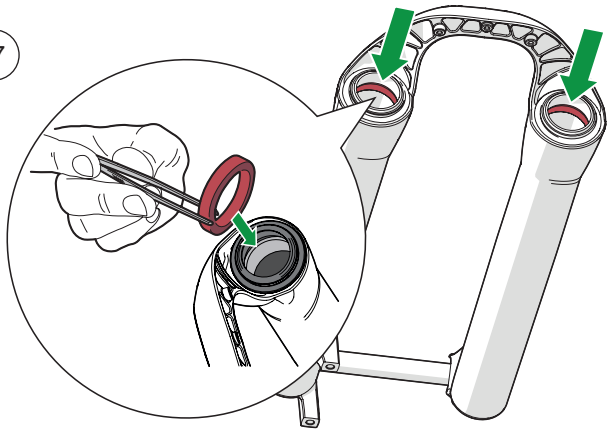

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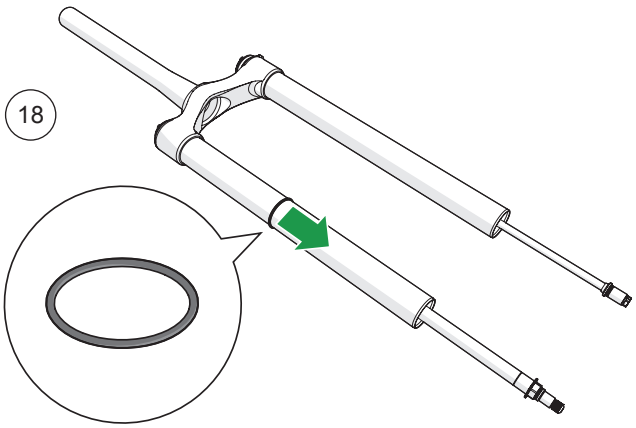

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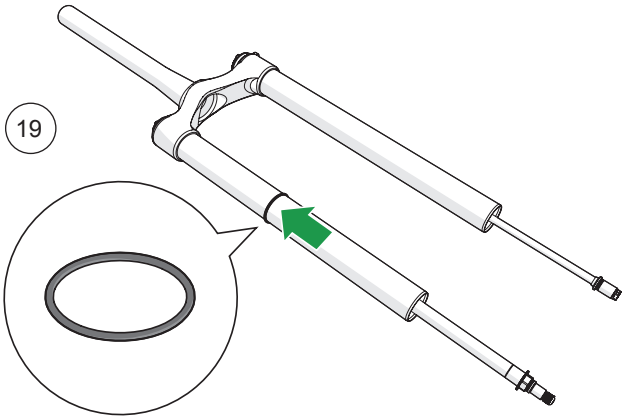


Air Spring Cartridge 100-Hour Service

Note!

Clean all parts using disc brake cleaner and a rag to remove dirt, old grease and thread sealant before reassembling. Lubricate new o-rings/x-rings etc. with fresh Assembly grease.

Note!

Use a vise and the appropriate shaft clamps when servicing the front fork.

1. Remove the positive air chamber knob. Use a socket wrench with a hex socket 28 mm (18860-01) to loosen the air spring.

Caution!

Do not use an adapter between wrench and socket, as this will increase the risk of damaging the anodized finish of the top cap.

Note!

When removing the Air Spring cartridge, it is easy to damage the Top Cap. Put pressure on the wrench while unthreading the Top Cap.

2. Slide the air spring off the stanchion tube.

3. Use a 19 mm wrench to loosen the seal head. Slide the cylinder tube off the air spring.

4. Remove the old o-ring (00576-06) from the top cap.

5. Clean top cap threads (male and female) using a rag covered by degreaser or brake cleaner. Use a nylon bristled brush to remove any remaining residue from threads.

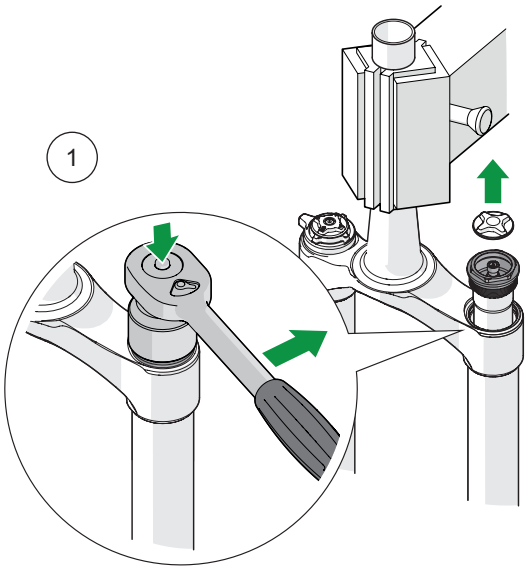
Note!

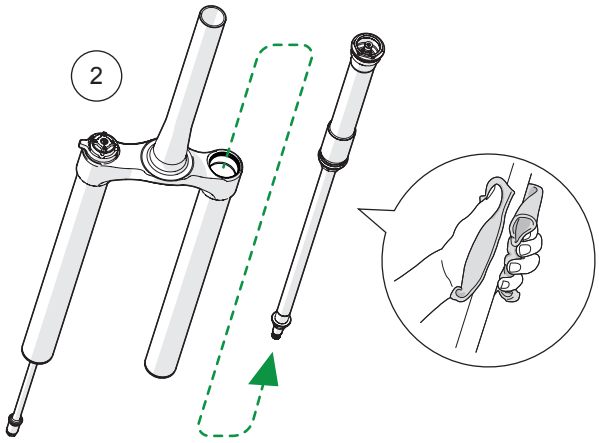
Do not use alcohol: alcohol reacts and causes damage to the seals.

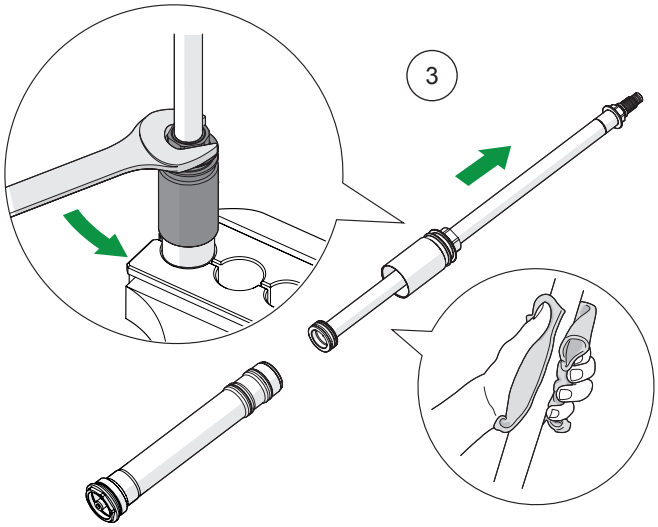
Important!

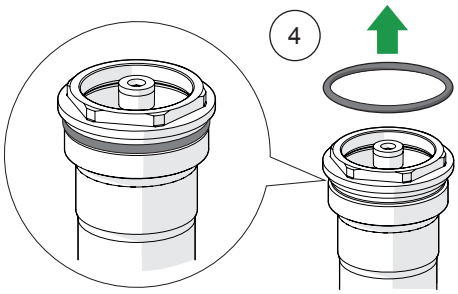
Make sure any old Loctite is removed.

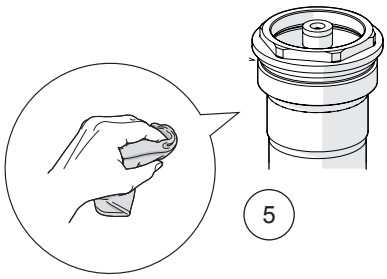
6. Install a new o-ring (00576-06) on the top cap.

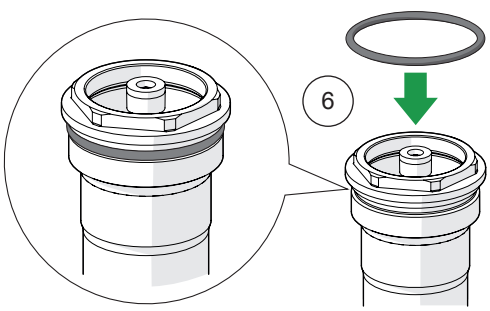












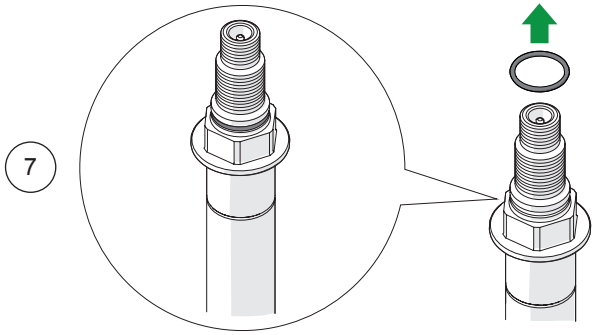
7. Remove the old o-ring (18612-04) from the base cap.

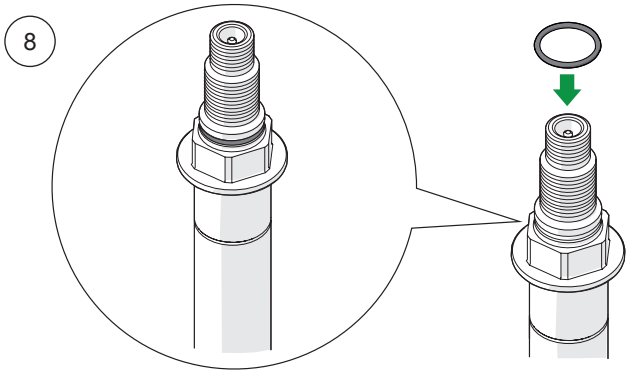
8. Install a new o-ring (18612-04) on the base cap.

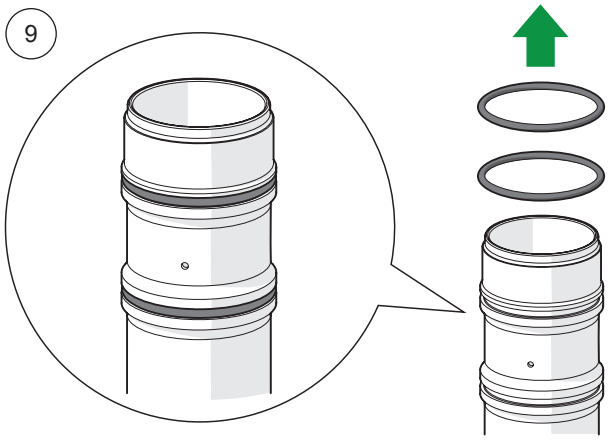
9. Remove the two old o-rings (00638-86) from the upper air chamber cylinder tube.

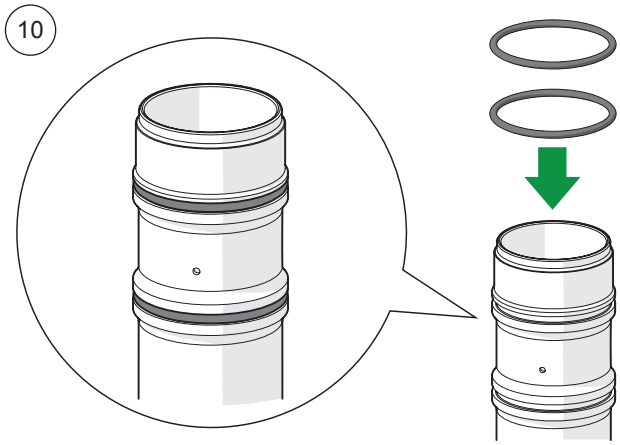
10. Install two new o-rings (00638-86) on the upper air chamber cylinder tube. Apply assembly grease on o-rings.

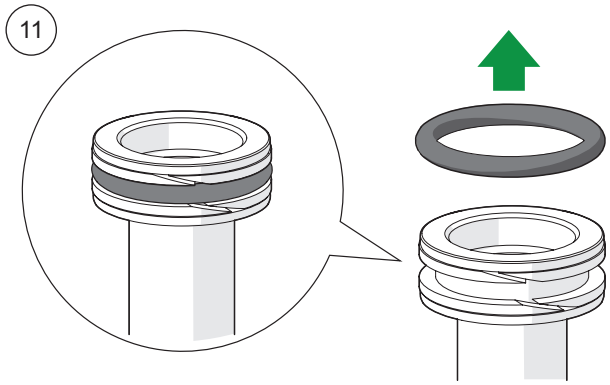
11. Remove the old o-ring (18637-01) from the piston.











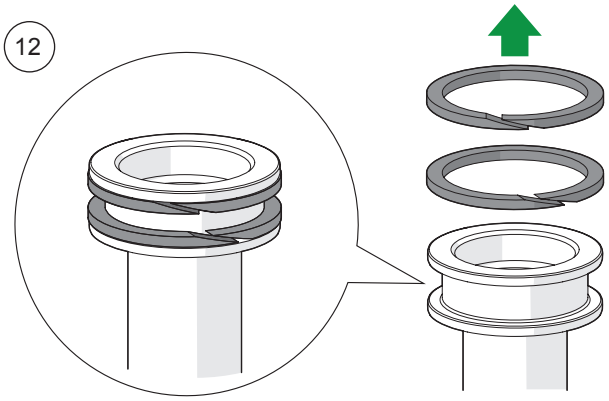
12. Remove the the two old back-up rings (18556-03).

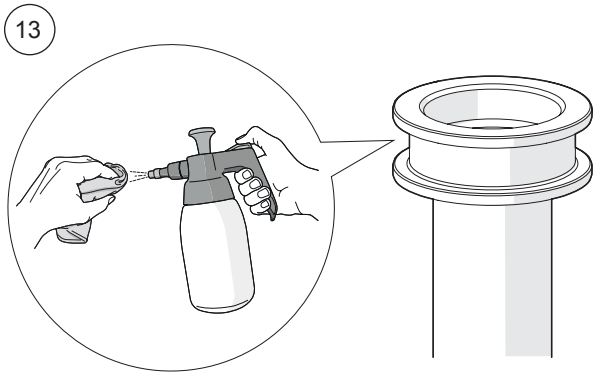
13. Carefully clean the piston using disc brake cleaner and a paper cloth or rag to remove old grease and dirt.

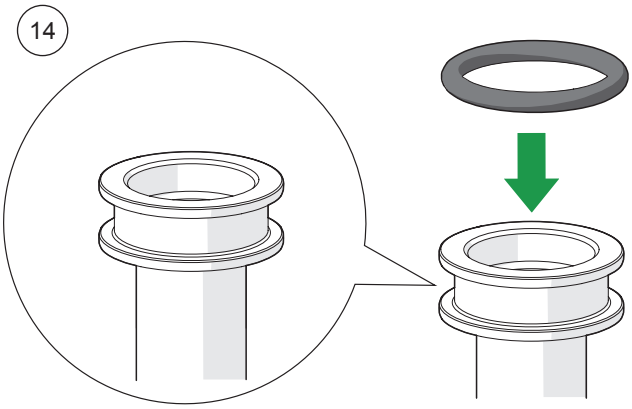
14. Install a new o-ring (18637-01) on the piston between the back-up rings.

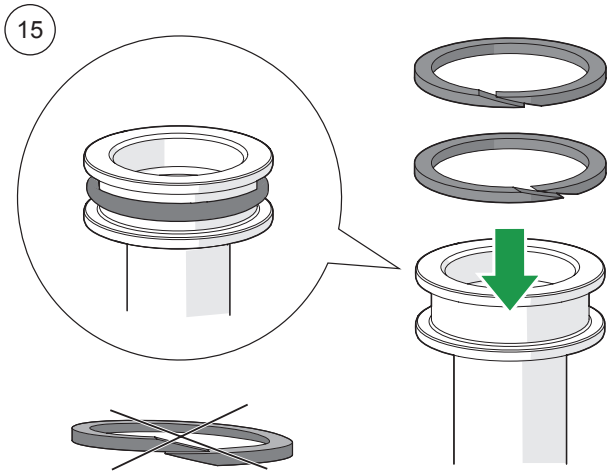
15. Install two new back-up rings (18556-03) on the piston.

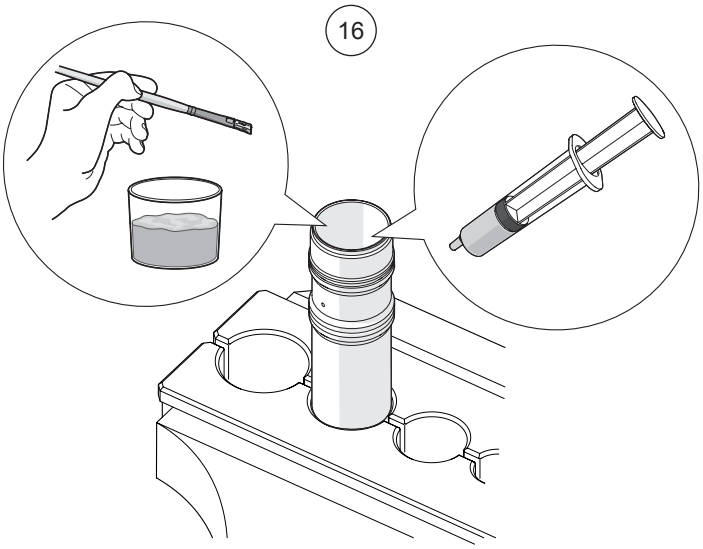
16. Apply 2 ml of function grease at the inside of the cylinder tube (smeared around). Add 0,5 ml of air spring lubrication fluid distributed on top of the grease.











17. Reinstall the stanchion tubes into the lower legs.

18. Inject 5 ml of fork lubrication fluid in spring fork leg and 5 ml in damper fork leg. Tighten both nuts to 10 Nm.

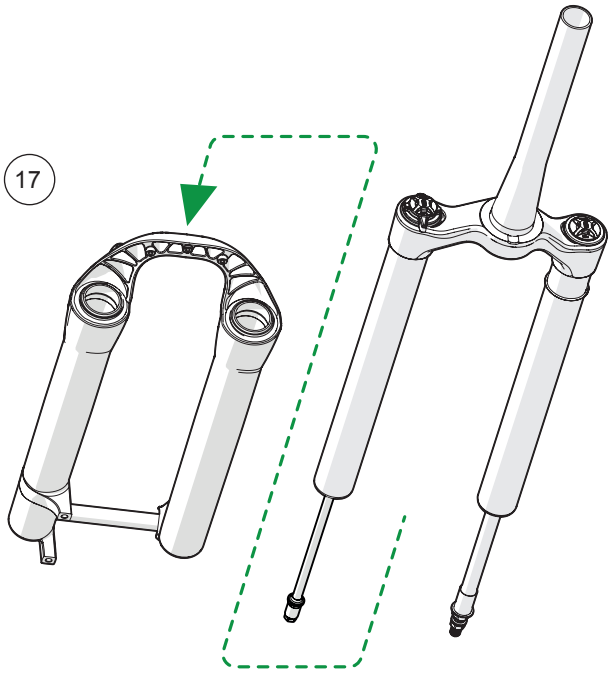
19. Reinstall the rebound adjuster nut, knob and screw.
Refit the lower valve nut and washer.

20. Inflate the ramp up chamber (A) at the bottom and then the positive air chamber (B) at the top to the desired air pressures.

Caution!

Inflate the ramp up chamber (A) at the bottom first.

17



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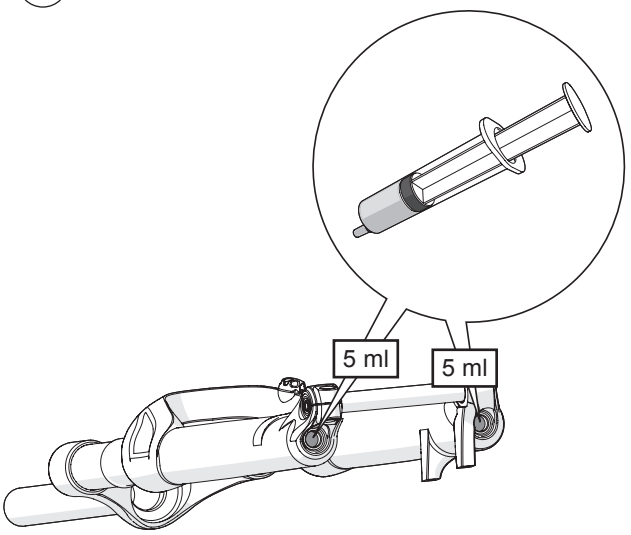

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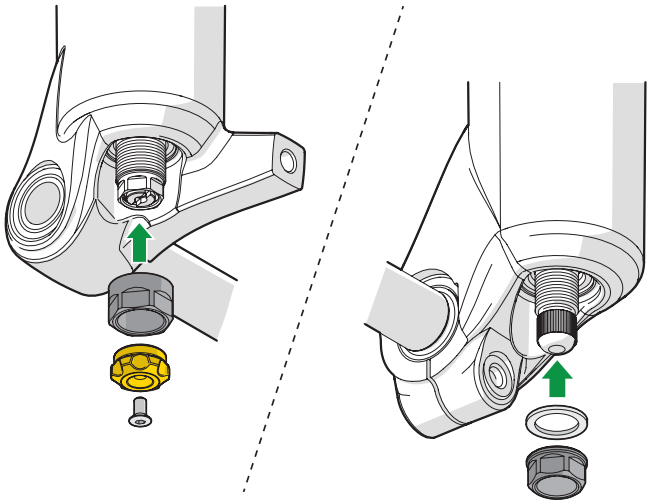

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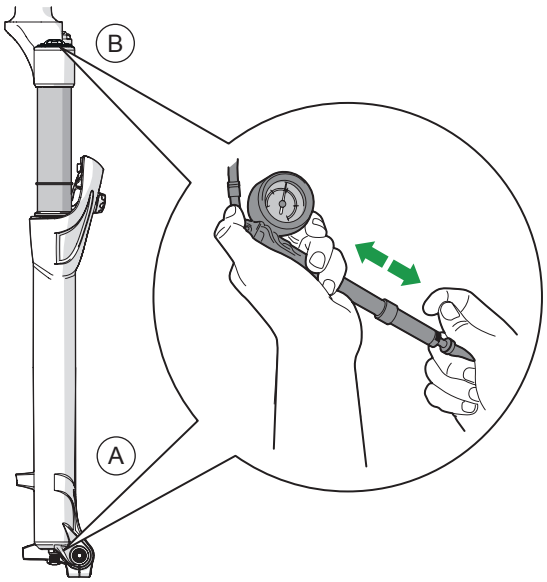
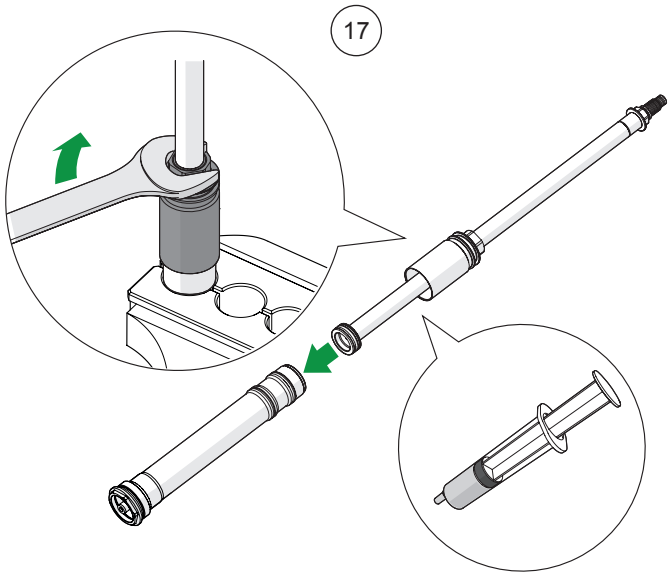


17. Slide the upper air chamber cylinder tube onto the lower air spring assembly and add 0,5 ml of air spring lubrication fluid inside the cylinder tube. screw the seal head and cylinder tube together to hand-tight. Then use a 19 mm torque wrench to tighten the seal head to 10 Nm.



18. Reinstall the Air spring cartridge into the stanchion tube.

19. Apply blue Loctite 243 to the first (lower) two (2) threads of the top cap (male).

20. Use a torque wrench with a 28 mm hex socket (18860-01) to tighten the top cap to 32 Nm.

Caution!

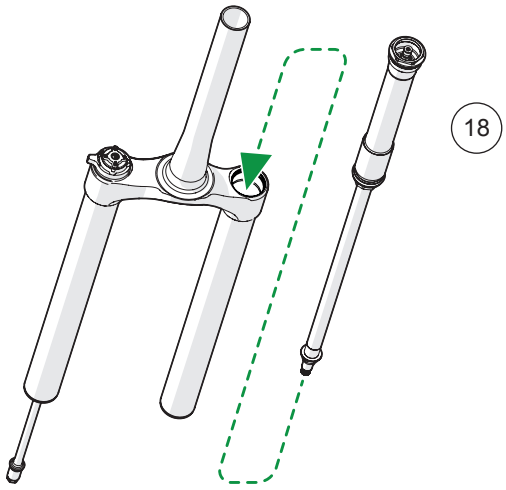
Do not use an adapter between wrench and socket, as this will increase the risk of damaging the anodized finish of the top cap.

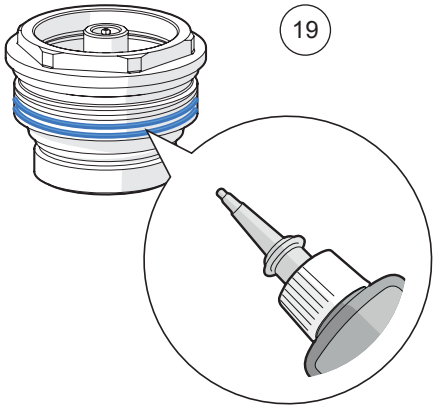
21. Wipe off eventual excessive Loctite 243.

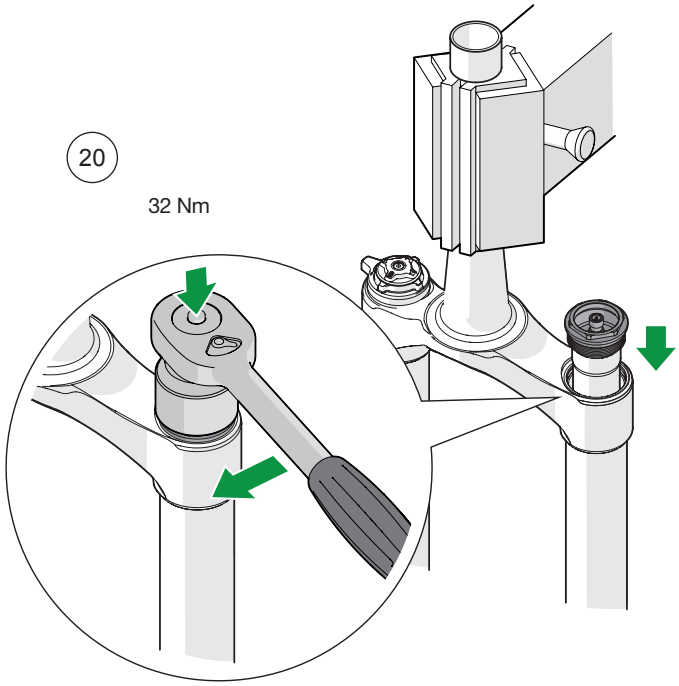
Important!

Leave the Loctite to cure for 24 hours before riding.

22. Processed with 100h damper service to compleate lower leg assembly.







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