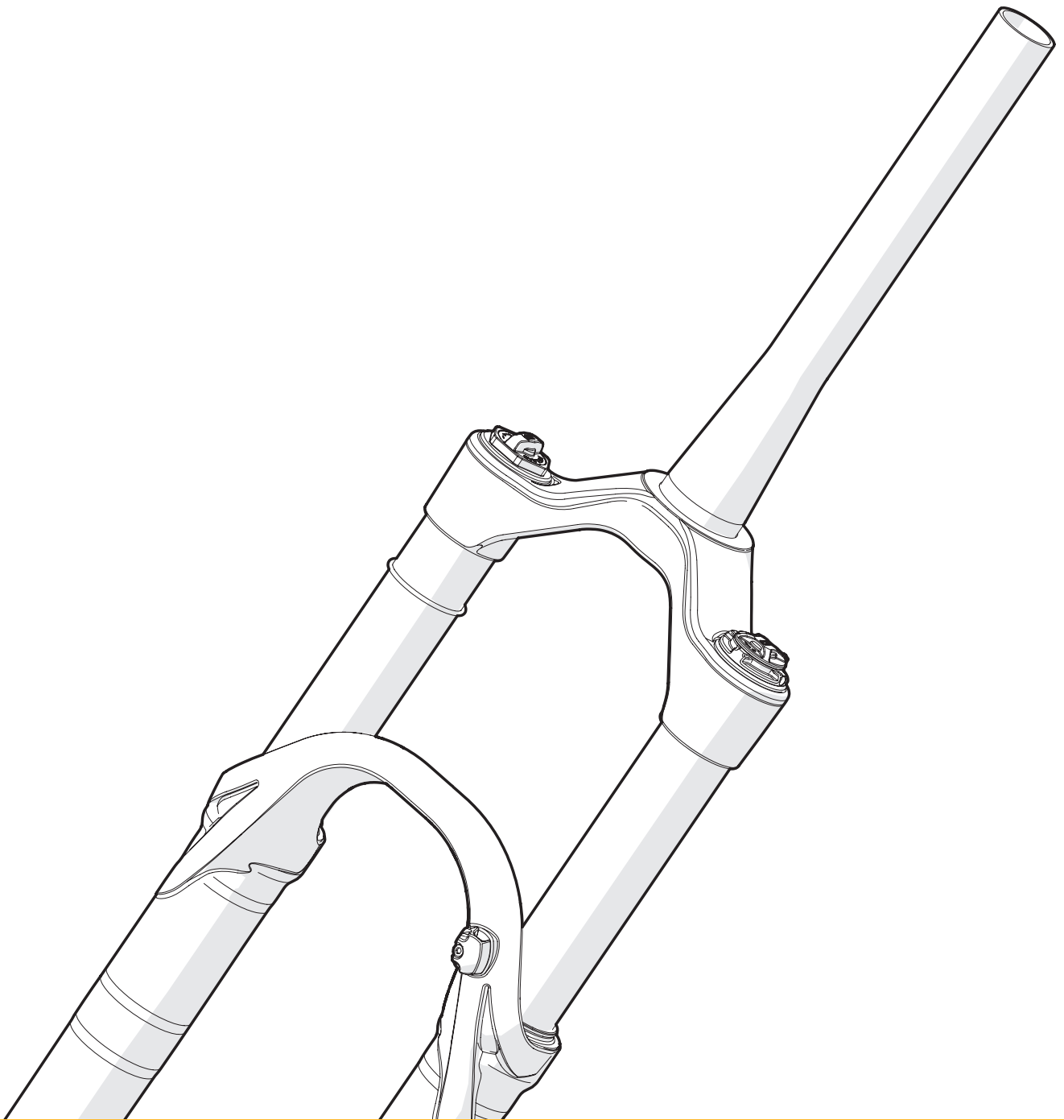




Front Fork

RXF36/RXF38/DH38

Workshop Manual - Changing stroke coil forks



ÖHLINS

SAFETY PRECAUTIONS

General Warnings

 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 Group 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!

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

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 contains pressurized nitrogen gas (N₂). Do not open, service or modify this product without proper education (authorized Öhlins dealer/distributor) and proper tools.

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, 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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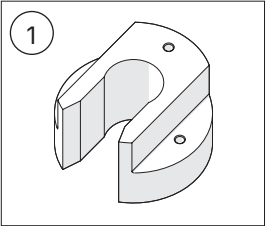
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RXF36/RXF38/DH38 CHANGING STROKE COIL FORKS

Tools

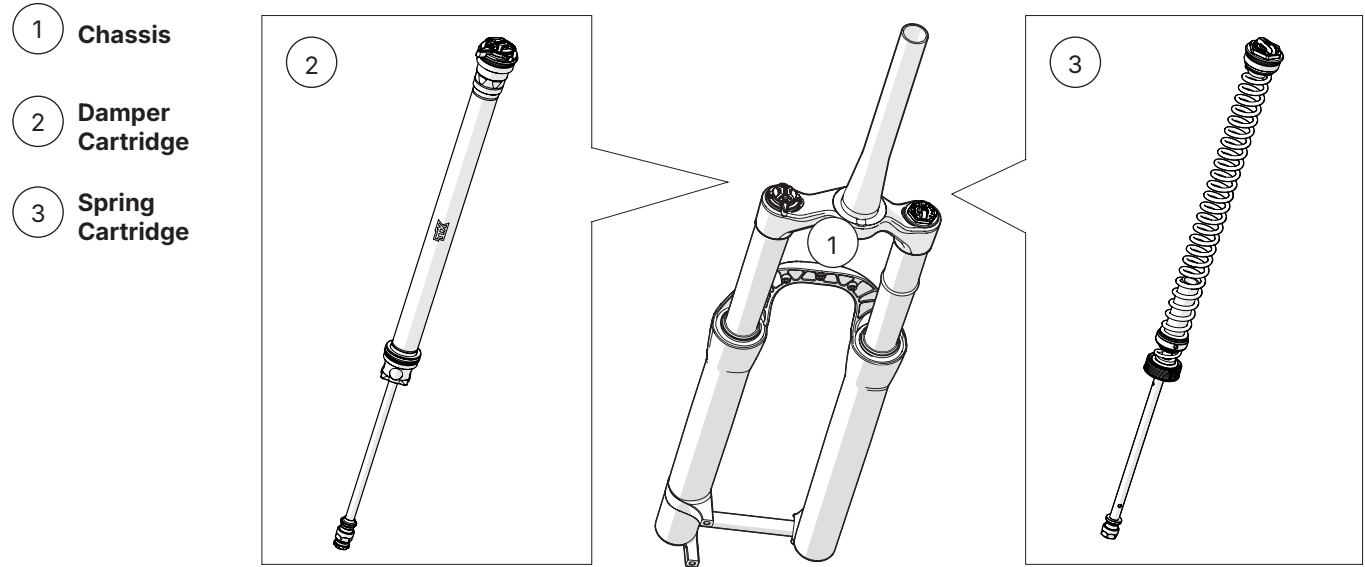
1	18867-01	Coil kit tool
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Oil, grease

Damper fluid	01309-01 - High Performance Suspension fluid 1L
Assembly grease	Slickoleum / Buzzy's Slick Honey

Overview - General layout



RXF36/RXF38/DH38 CHANGING STROKE COIL FORKS

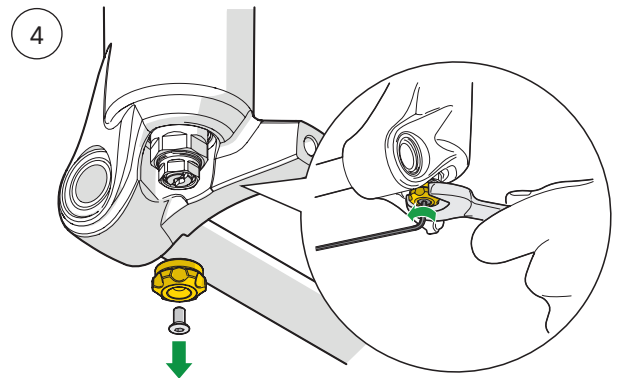
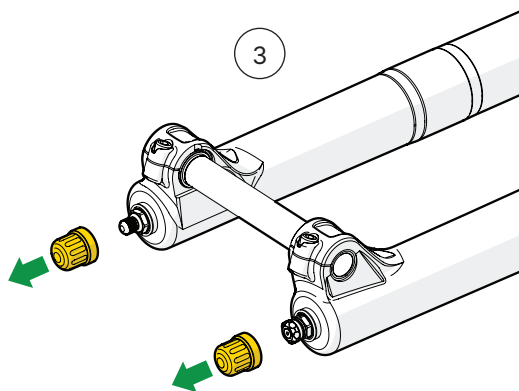
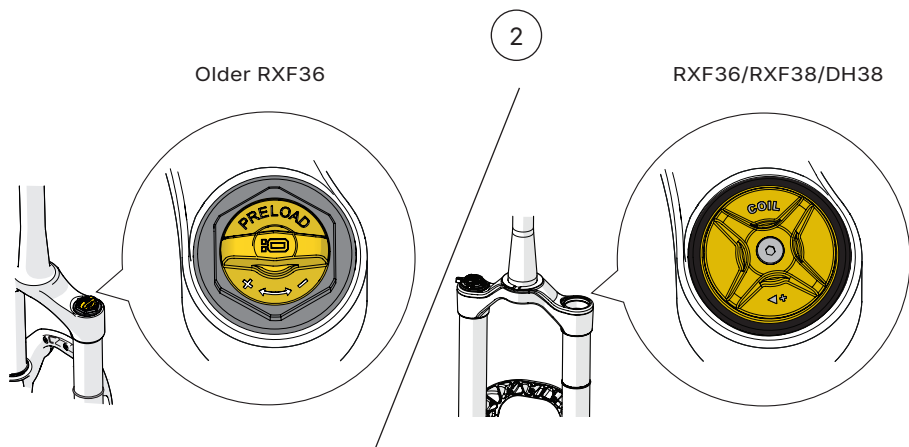
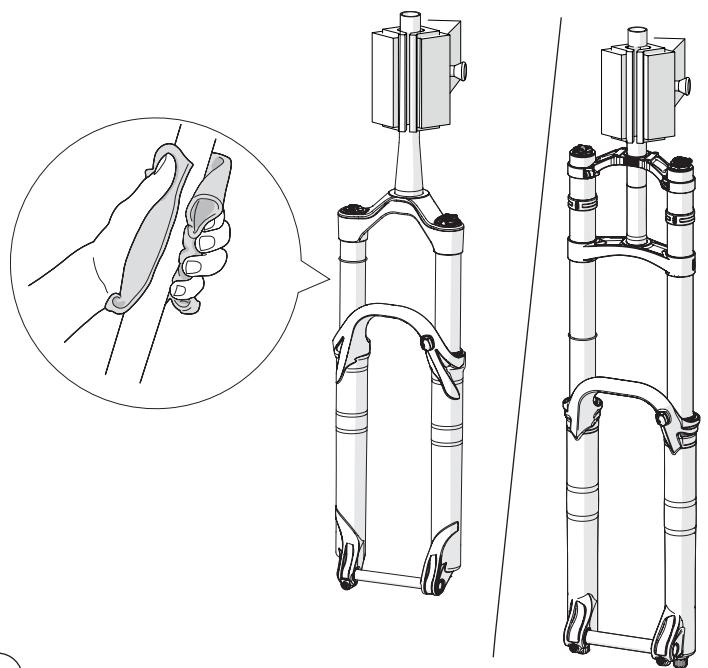
Changing stroke

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

👁 Note!

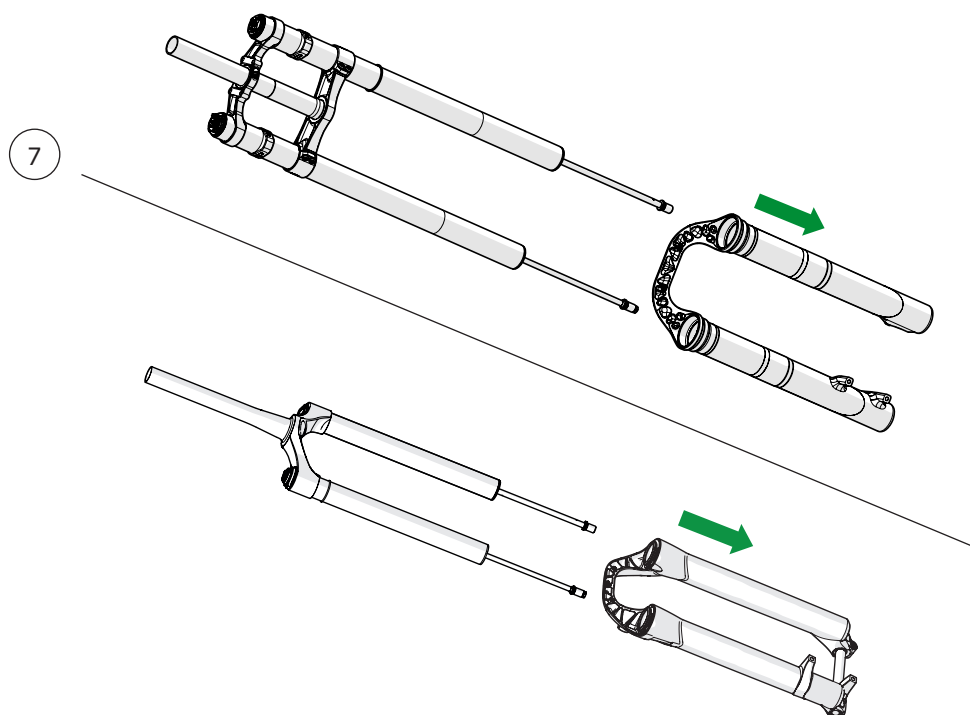
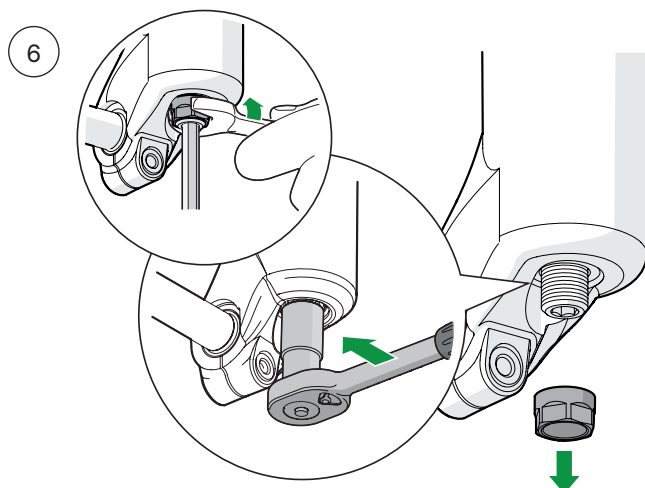
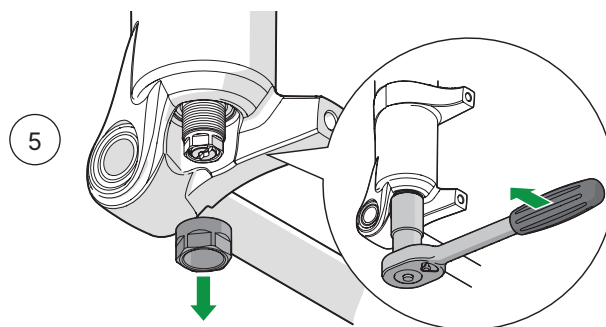
Record the rebound and preload adjuster settings before service.

1. Thoroughly clean the outside of the fork from dirt or grit.
2. Turn the preload adjuster knob anticlockwise towards minus until it stops (minimum preload position).
3. If there is golden bash caps installed, remove by unscrewing them by hand.
4. Use a 14 mm wrench to hold the rebound adjuster knob steady. With a 2 mm hex key remove the screw and the knob.



RXF36/RXF38/DH38 CHANGING STROKE COIL FORKS

5. Remove the nut by using a socket wrench with a 14 mm socket.
6. Use a 6 mm hex wrench to hold the spring leg steady and loosen the nut with a 14 mm wrench. Use a socket wrench with a 14 mm socket to remove the nut.
7. Slide the lower legs off the stanchions.
8. Drain the lower legs of all fluids.



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9. Use the Coil kit tool (18867-01) and a 20 mm wrench to loosen the spring cartridge.

10. Remove the spring cartridge.

11. Clean the spring cartridge and washer with a paper cloth or soft rag. Remove the washer.

12. Inspect the pin (2 sides) inside the hole in the spring guide, it is knurled on one side.

13. Put the spring cartridge spring guide in a vice with plastic jaws (to prevent damage on the spring guide) facing the knurled end of the pin towards the floor.

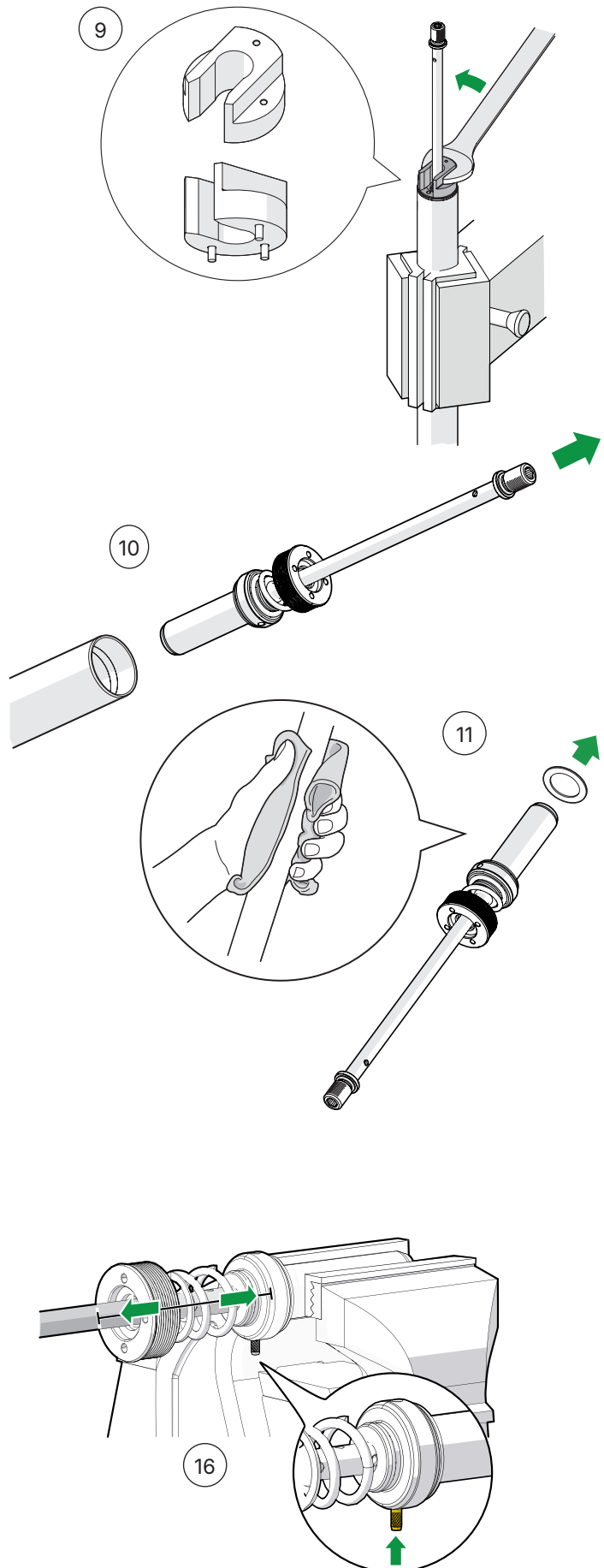
14. Press out the pin using a mandrel and a hammer.

Note!

Only push the pin so far that it is possible to move the piston rod to a new position.

15. Check Appendix B to see detailed informaton about the pin positions in the piston rod to achieve correct stroke length.

16. Move the piston rod to the desired position (the distance between the holes in the piston rod is 10 mm) and push back the pin. Use a mandrel and a hammer if necessary, make sure that the pin is centered in the hole.



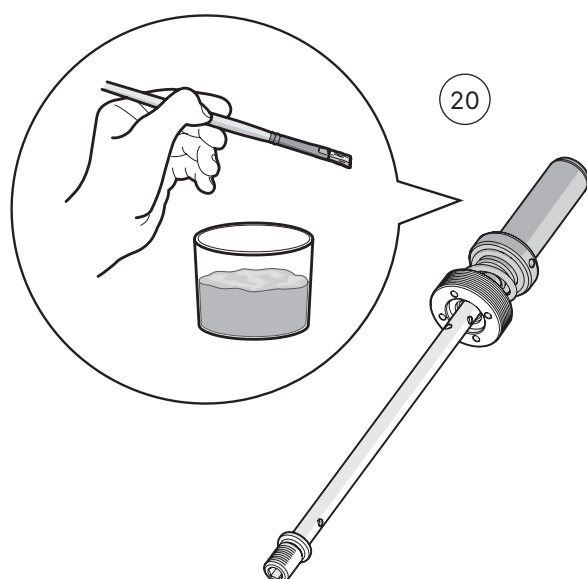
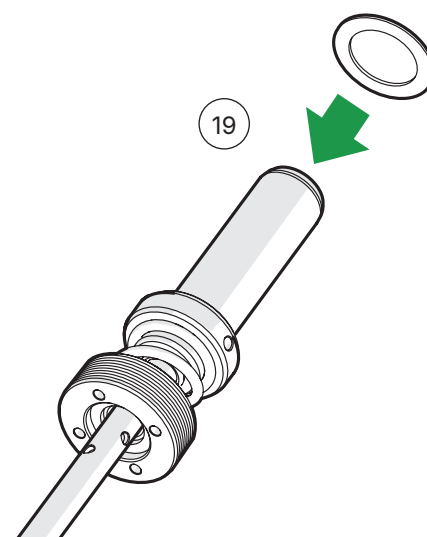
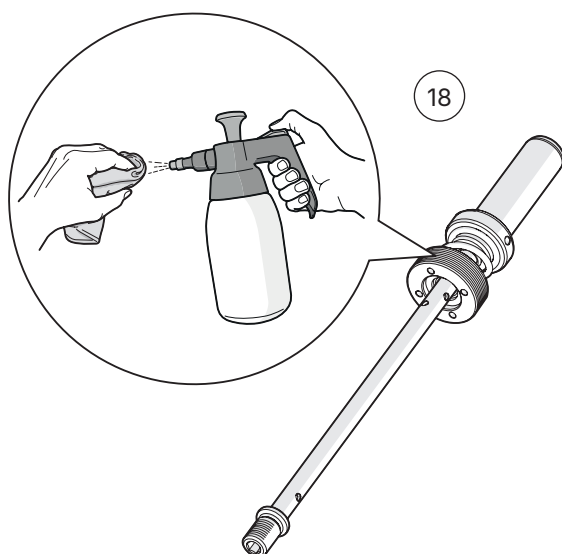
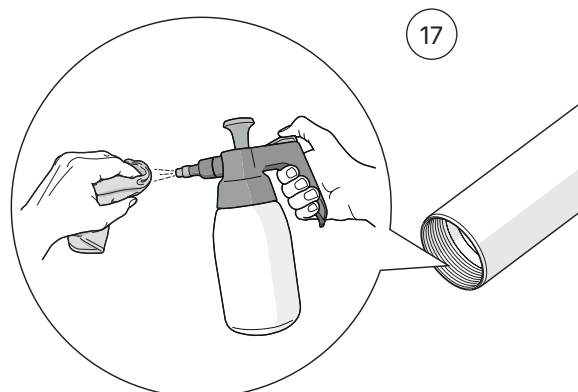
RXF36/RXF38/DH38 CHANGING STROKE COIL FORKS

17. Clean the threads of the spring stanchion tube by using disc brake cleaner and a paper cloth or rag.

18. Clean the threads of the spring cartridge by using disc brake cleaner and a paper cloth or rag.

19. Reinstall the washer.

20. Apply a layer of assembly grease on the upper part of the spring cartridge.

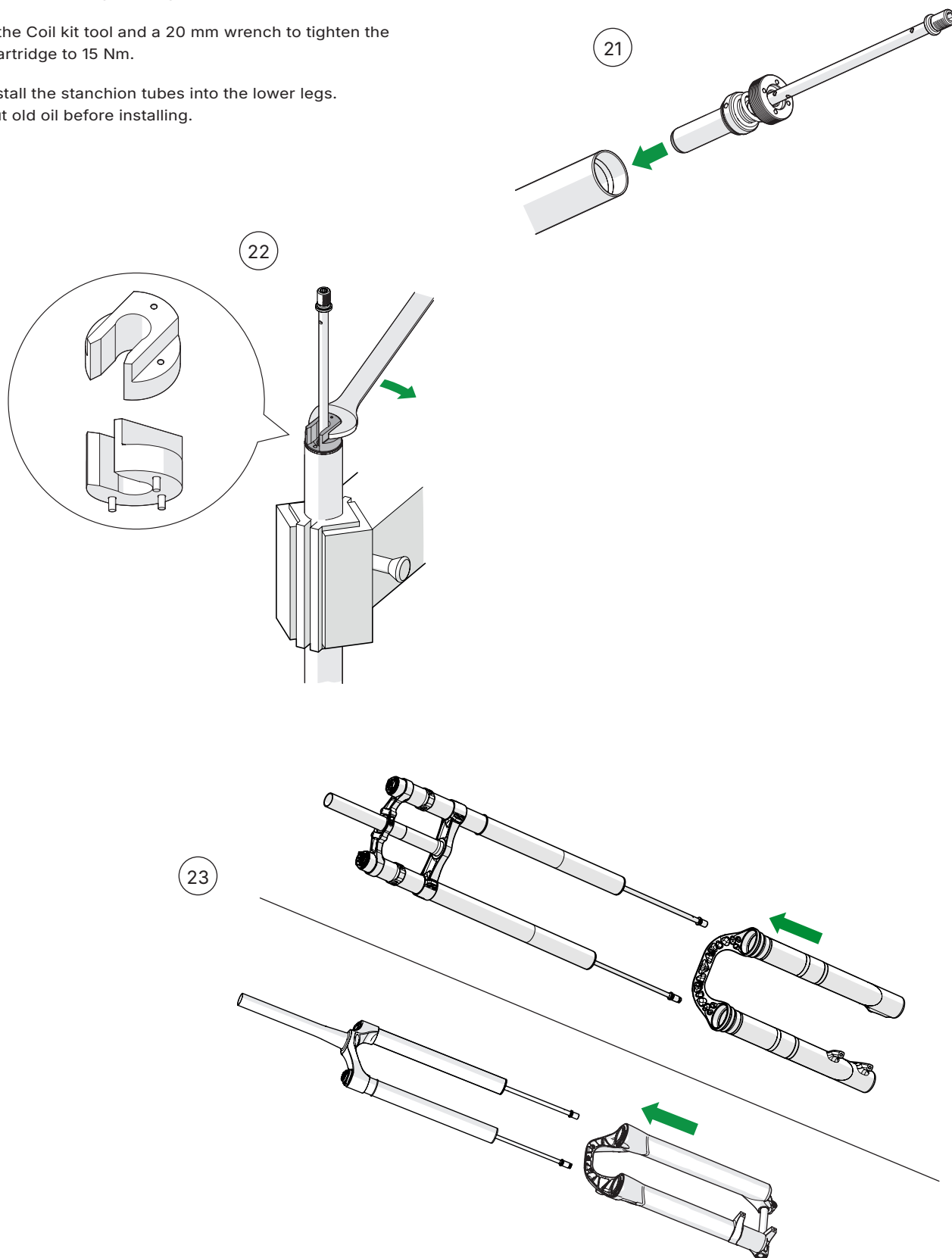


RXF36/RXF38/DH38 CHANGING STROKE COIL FORKS

21. Reinstall the spring cartridge into the stanchion tube.

22. Use the Coil kit tool and a 20 mm wrench to tighten the spring cartridge to 15 Nm.

23. Reinstall the stanchion tubes into the lower legs. Clean out old oil before installing.



RXF36/RXF38/DH38 CHANGING STROKE COIL FORKS

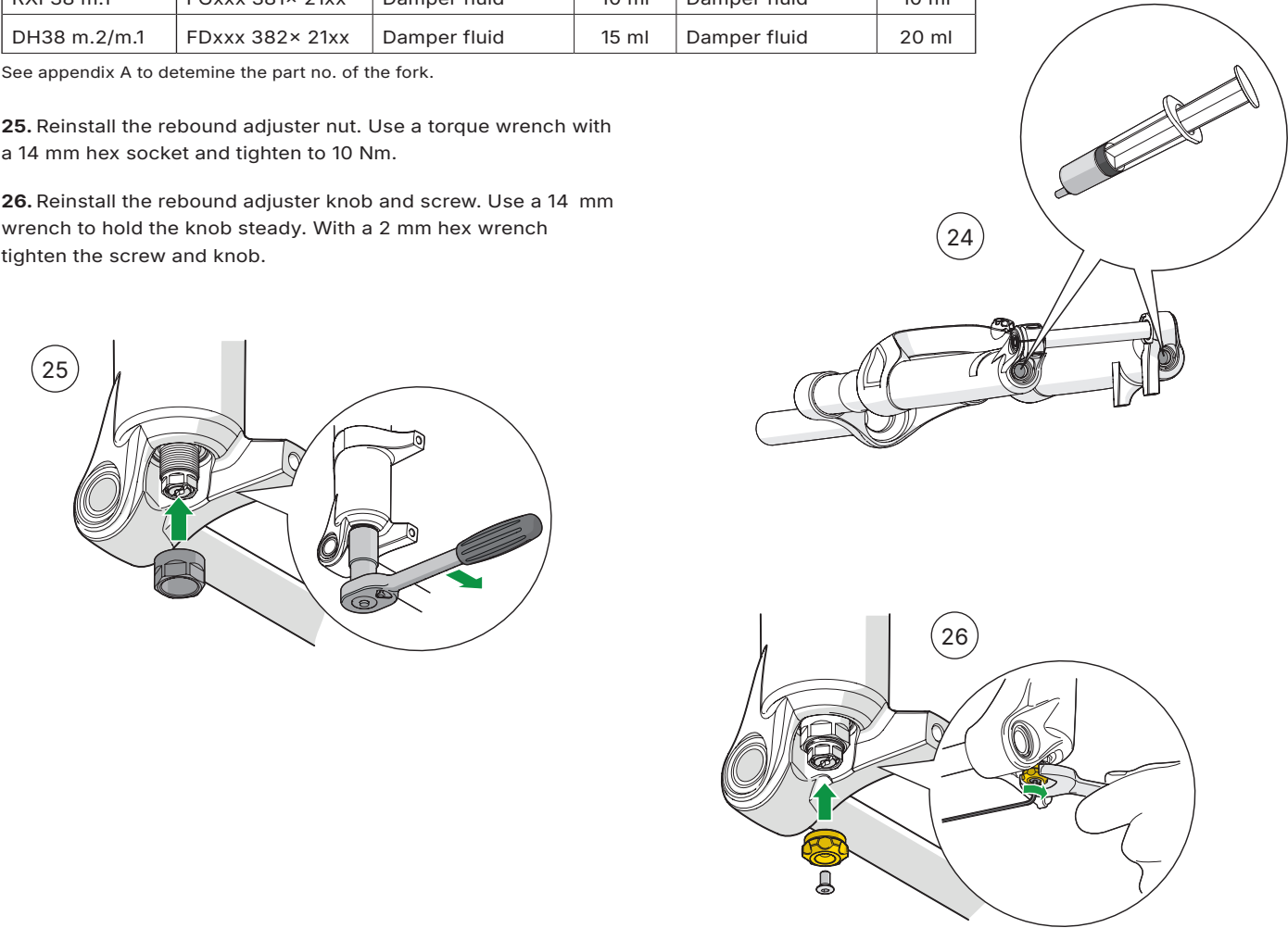
24. Pull fork apart a bit to be able to place the syringe in the holes in the lower, direct the syringe away from the piston rod end so that the oil hits the wall of the lower leg and not the thread of the piston rod end. Use fluids in the damper/spring leg according to the table below. It is important to not overfill as it will affect fork performance.

Model	Fork part no.	Damper fork leg		Spring fork leg	
		Oil	Volume	Oil	Volume
RXF36	FG361× 1770	Damper fluid	2 ml	Damper fluid	10 ml
RXF36	FG361× 192x	Damper fluid	5 ml	Damper fluid	10 ml
RXF36	FG361× 194x	Damper fluid	5 ml	Damper fluid	10 ml
RXF36	FG361× 197x	Damper fluid	5 ml	Damper fluid	10 ml
RXF36	FG361× 199x	Damper fluid	5 ml	Damper fluid	10 ml
RXF36 m.3/m.2	FGxxx 2xxx	Damper fluid	10 ml	Damper fluid	20 ml
RXF38 m.3/m.2	FGxxx 381× 22xx	Damper fluid	15 ml	Damper fluid	20 ml
RXF38 m.1	FGxxx 381× 21xx	Damper fluid	10 ml	Damper fluid	10 ml
DH38 m.2/m.1	FDxxx 382× 21xx	Damper fluid	15 ml	Damper fluid	20 ml

See appendix A to determine the part no. of the fork.

25. Reinstall the rebound adjuster nut. Use a torque wrench with a 14 mm hex socket and tighten to 10 Nm.

26. Reinstall the rebound adjuster knob and screw. Use a 14 mm wrench to hold the knob steady. With a 2 mm hex wrench tighten the screw and knob.



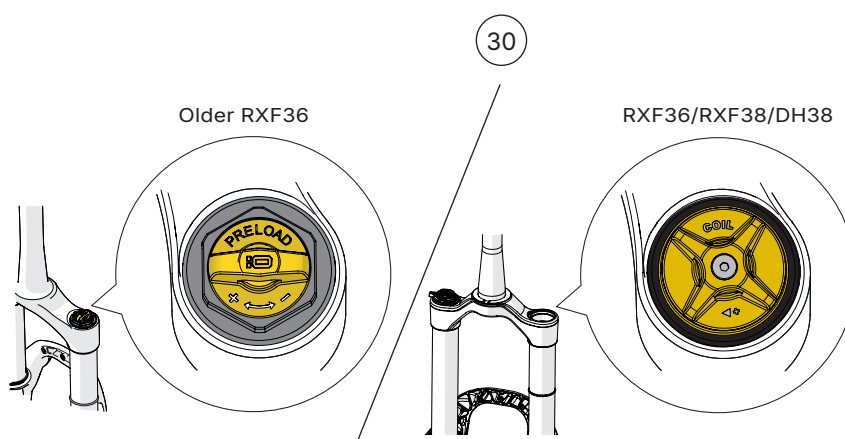
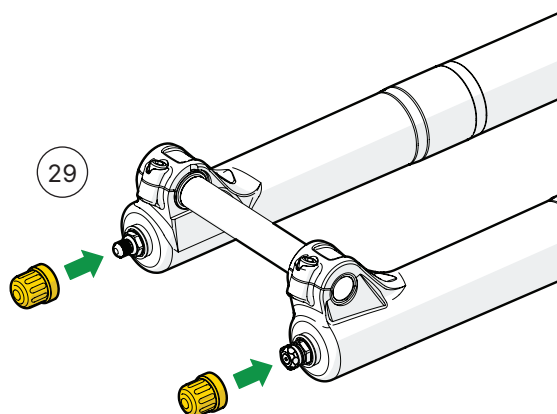
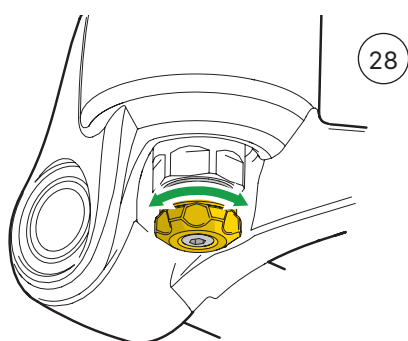
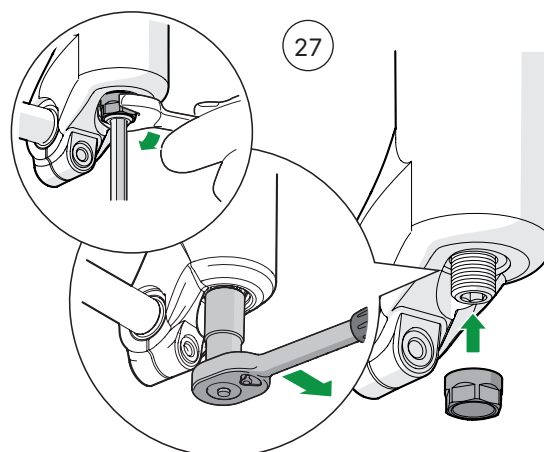
RXF36/RXF38/DH38 CHANGING STROKE COIL FORKS

27. Reinstall the spring cartridge nut. Use a 6 mm hex wrench to hold the spring cartridge steady and fasten the nut with a 14 mm wrench. Use a socket wrench with a 14 mm socket to tighten the nut to 10 Nm.

28. Adjust the rebound setting.

29. Reinstall the golden bash caps. Tighten by hand.
(Only for DH38)

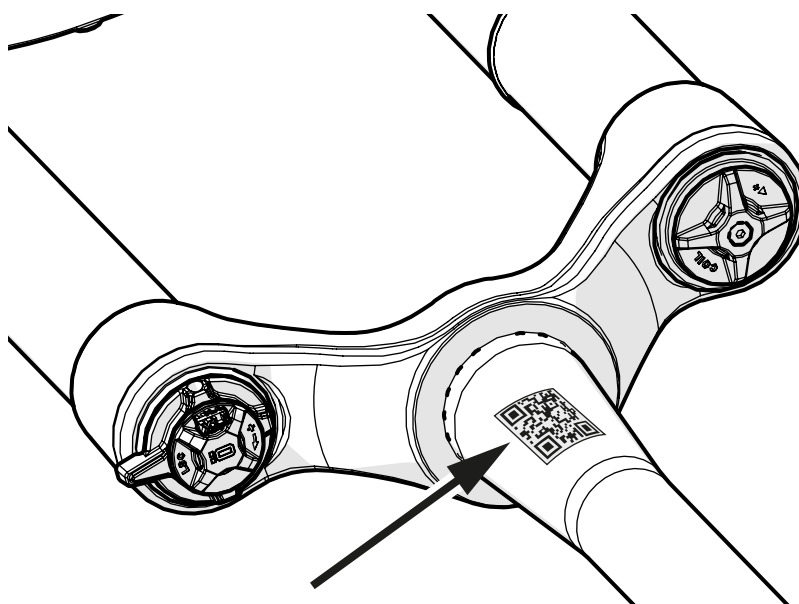
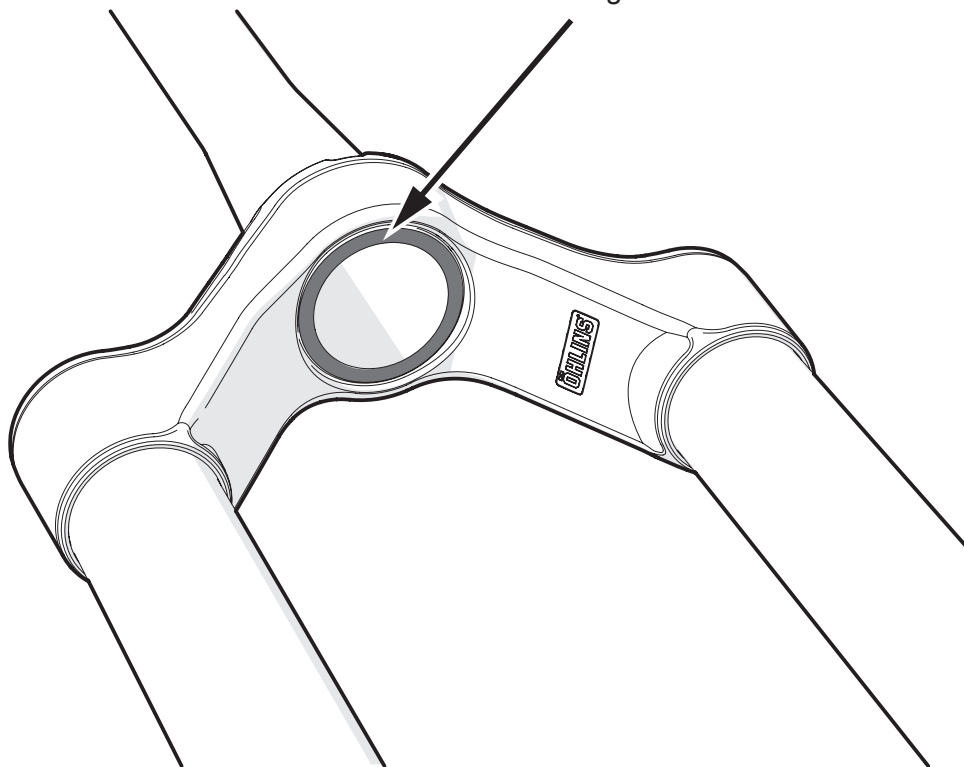
30. Adjust the preload setting.



RXF36/RXF38/DH38 CHANGING STROKE COIL FORKS

Appendix A (For RXF36/RXF38)

Part no of the fork can be found at the bottom of the steering tube.

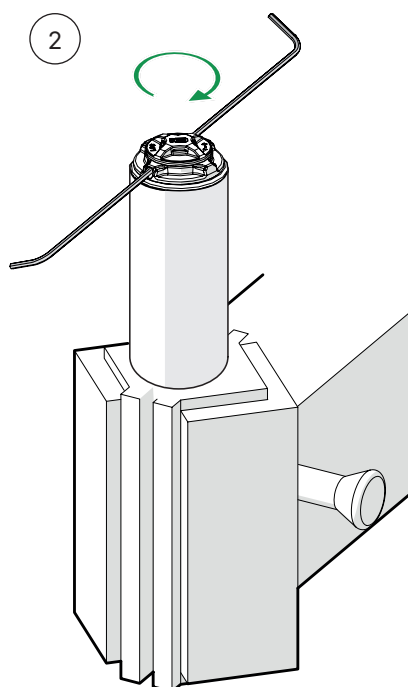
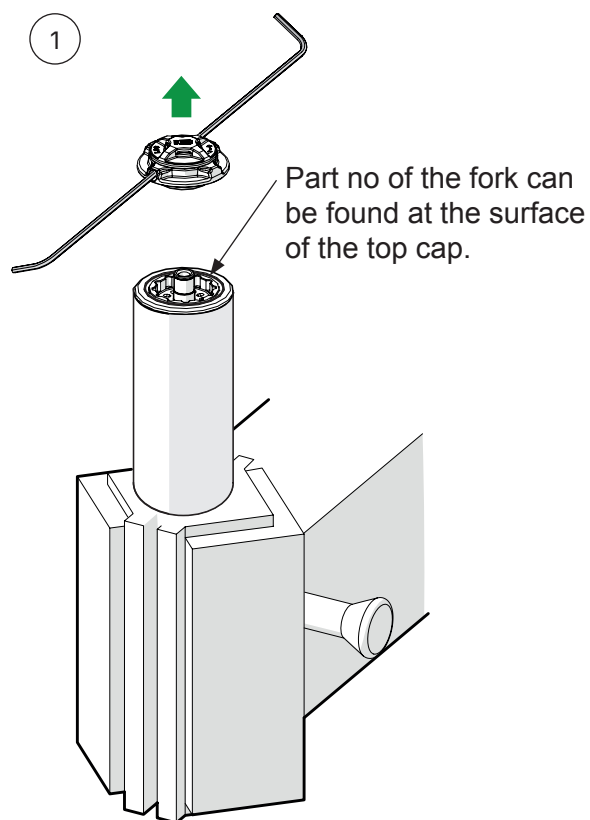


The part no of the fork can also be found on the steerer tube as a QR-code. Use a QR-code reader in a smartphone to receive the part no.

RXF36/RXF38/DH38 CHANGING STROKE COIL FORKS

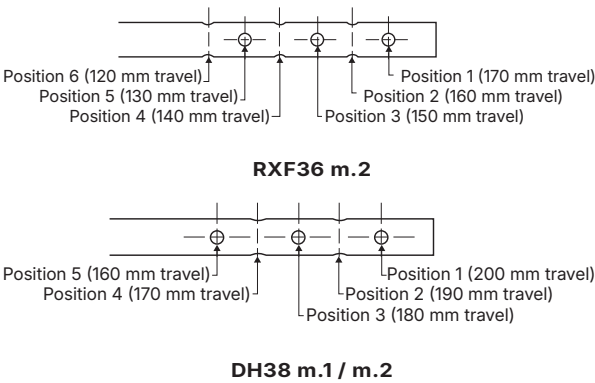
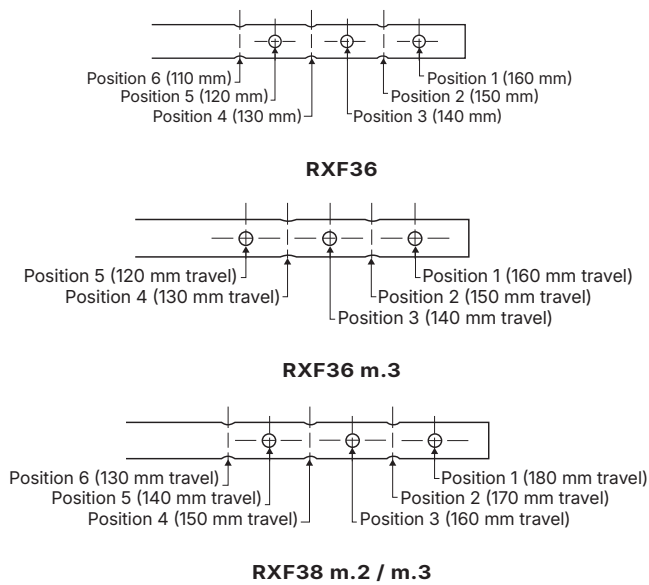
For (DH38)

1. Use a 2 mm allen key to remove the adjuster knob assembly, including both high and low speed compression knobs.
2. Use a 2 mm hex key to reinstall the adjuster knob assembly. Place the high speed compression lever 90 degrees from the direction of travel. Torque: 0.8 Nm



RXF36/RXF38/DH38 CHANGING STROKE COIL FORKS

Appendix B Pin postions in piston rods



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