

# **LPTIMIZER HC**

## owners service manual







#### step 1

- Use bicycle frame to hold post while loosening collar screw
- Use an adjustable spanner set at 35mm



#### step 2

- Lay seat post on a table in the full extended position
- Remove seat clamps

*note: during this procedure is not necessary to release air from the system*



#### step 3

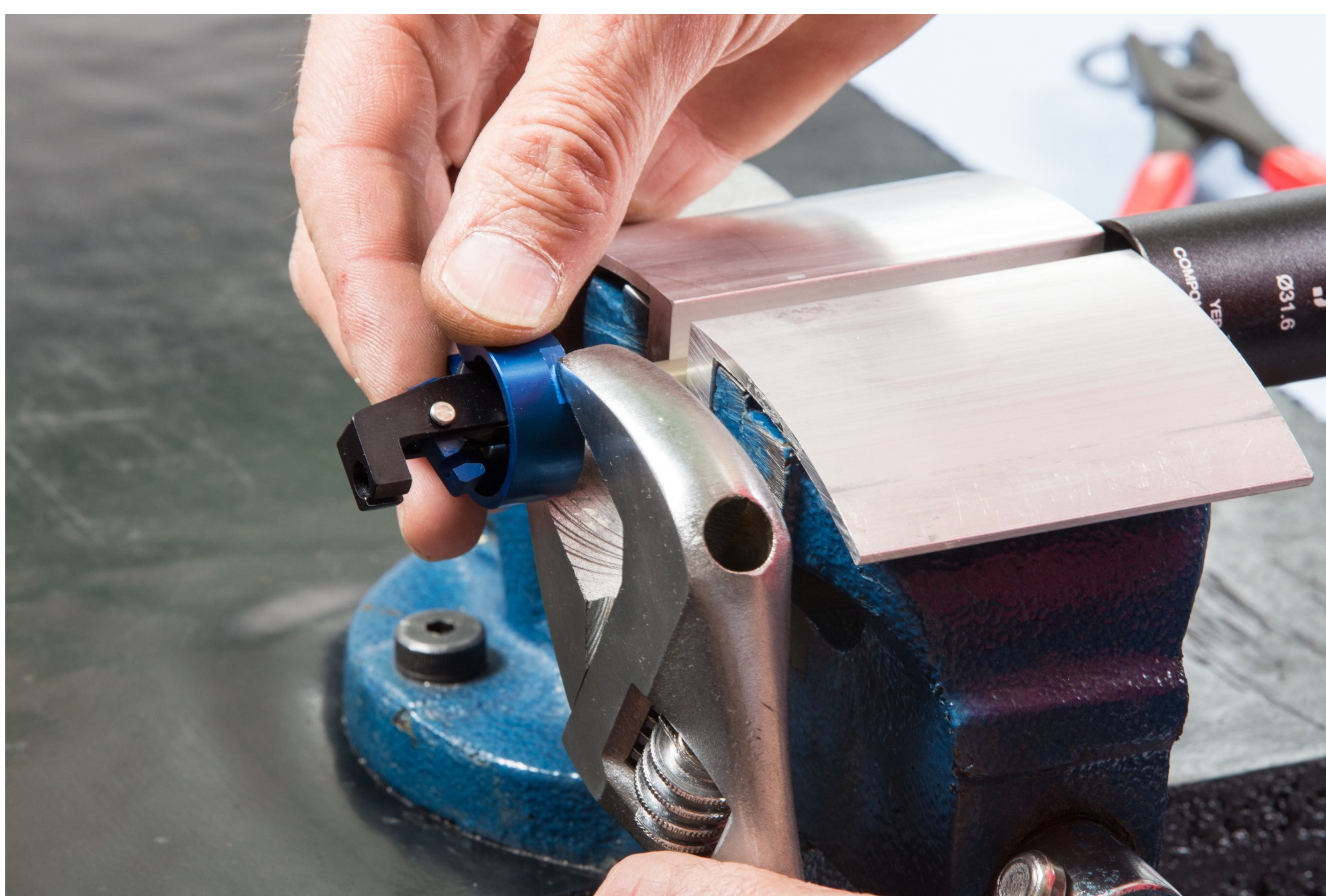
- Use internal snap-ring pliers to remove the bottom lock ring



#### step 4

- Apply pressure to the head in order to extract the actuator assembly





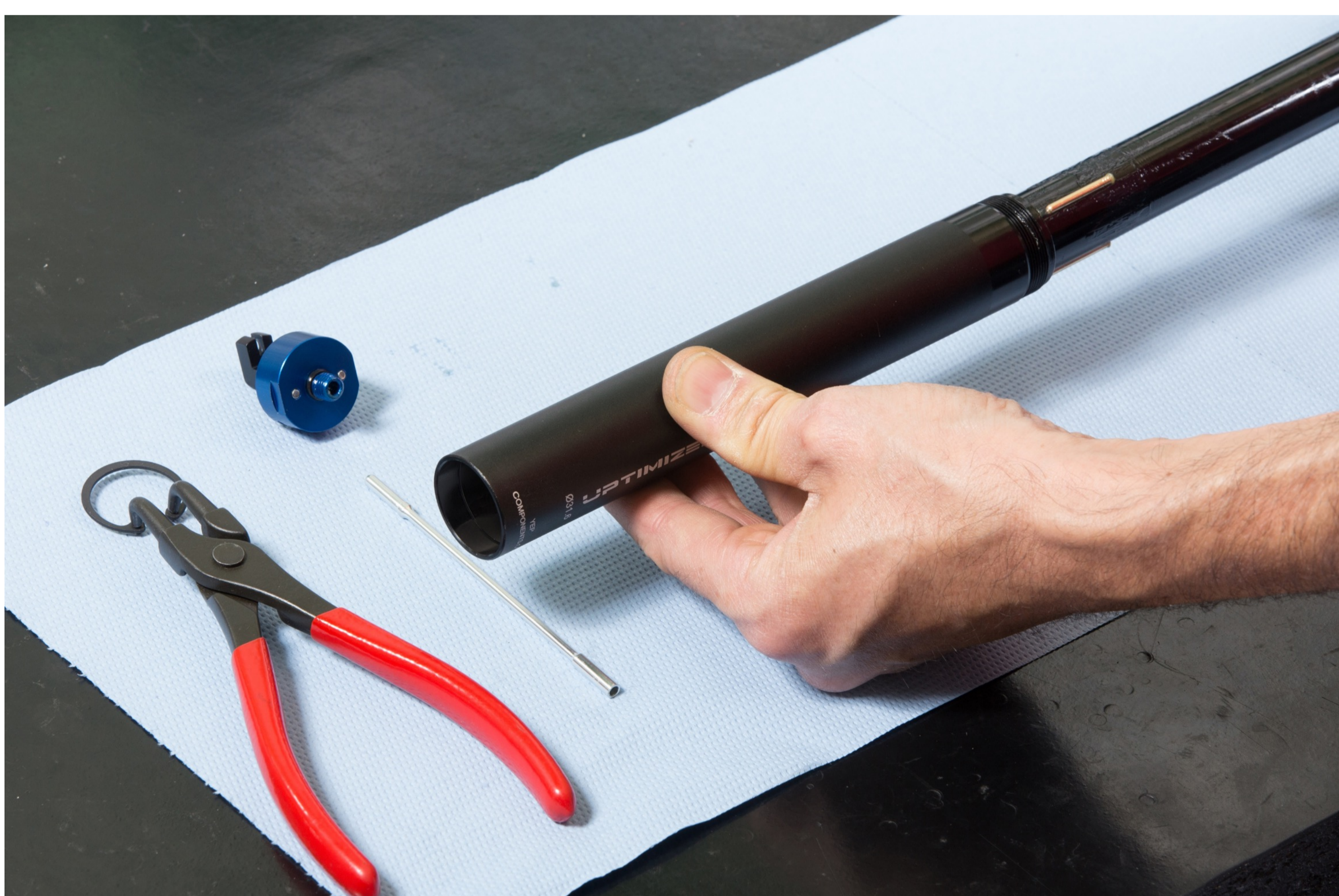
### step 5

- Use vise inserts to protect the shaft
- Use an adjustable spanner set at 26mm to unscrew the actuator assembly



### step 6

- Extract the actuator push rod



### step 7

- Take the stanchion out from the lower tube







step 8

- Remove the rubber bumper ring and white plastic washer



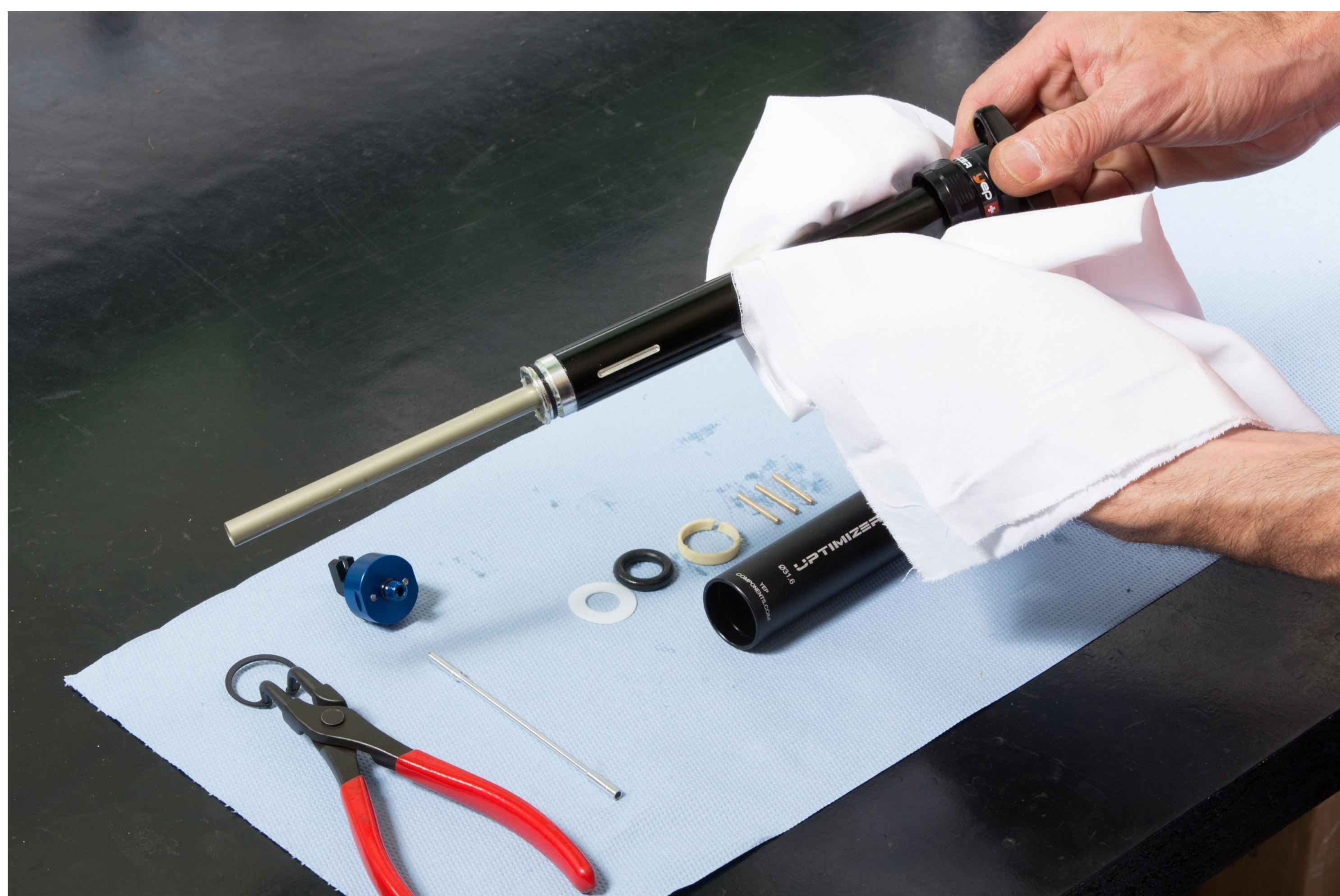
step 9

- Remove the Iglas® piston ring



step 10

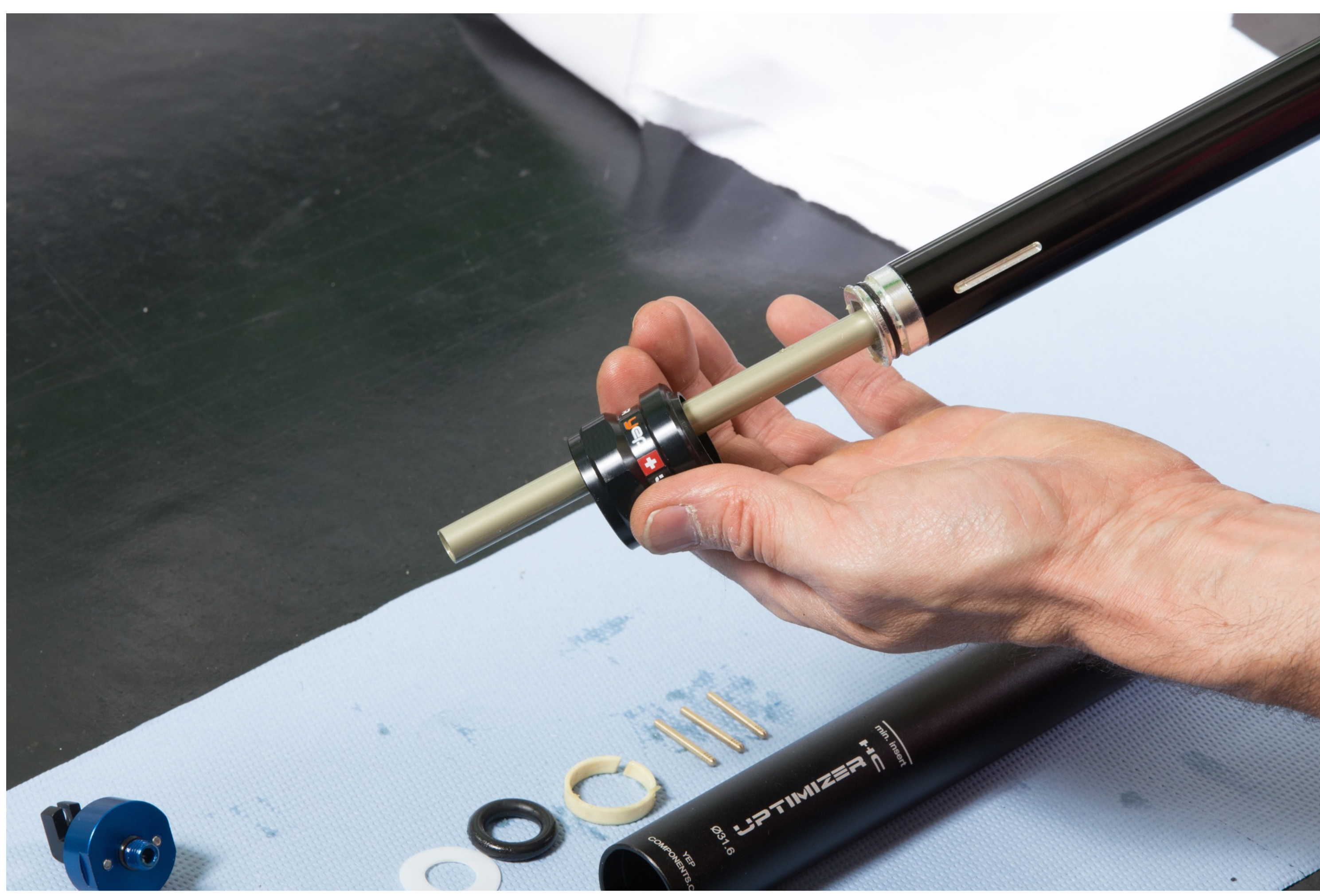
- Remove the three brass keys



step 11

- Use a soft rag to clean the stanchion





step 12

- Remove collar



step 13

- Remove dust ring using a flat-head screwdriver



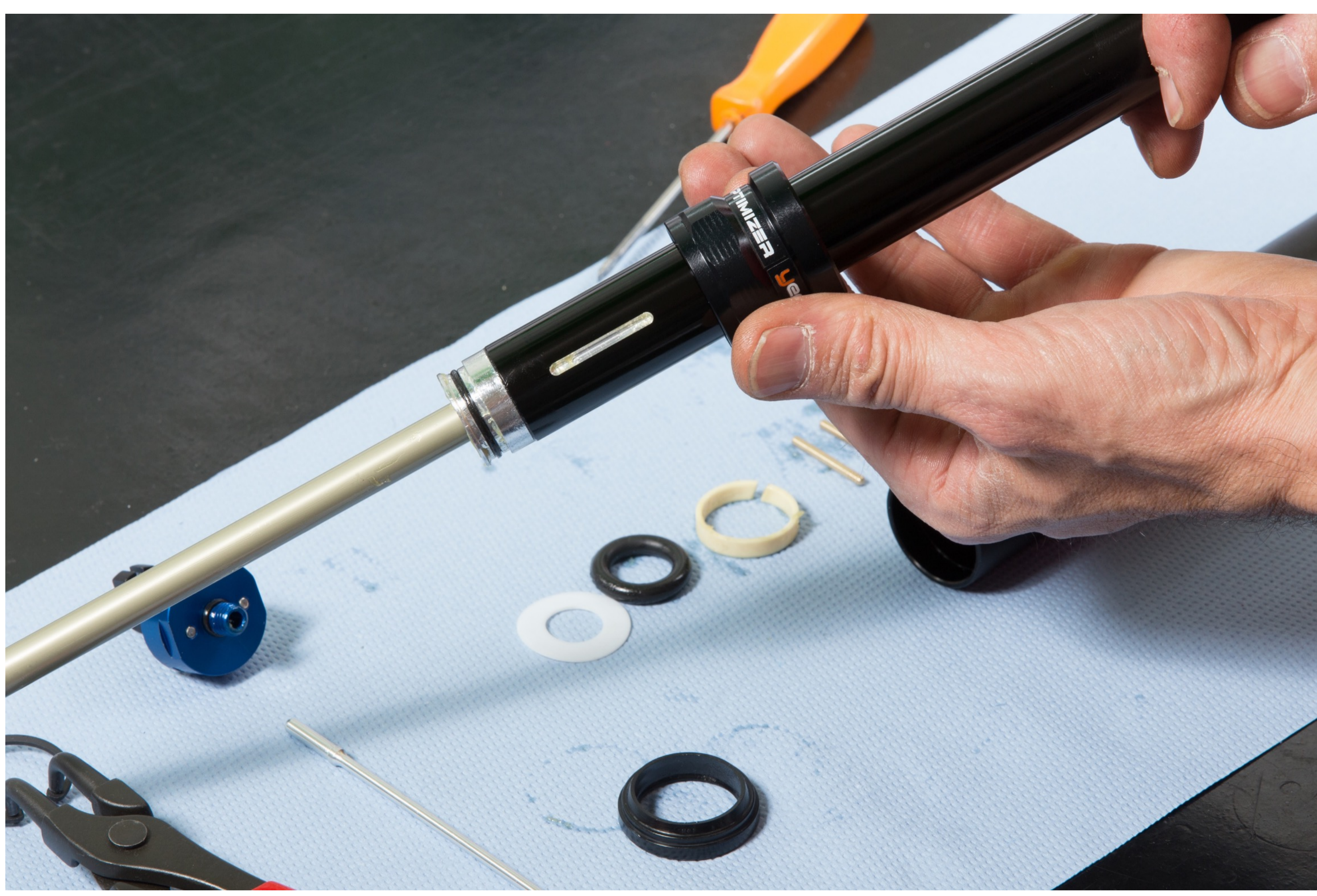
step 14

- Use a soft cloth to clean the Ibus® bushing inside the collar



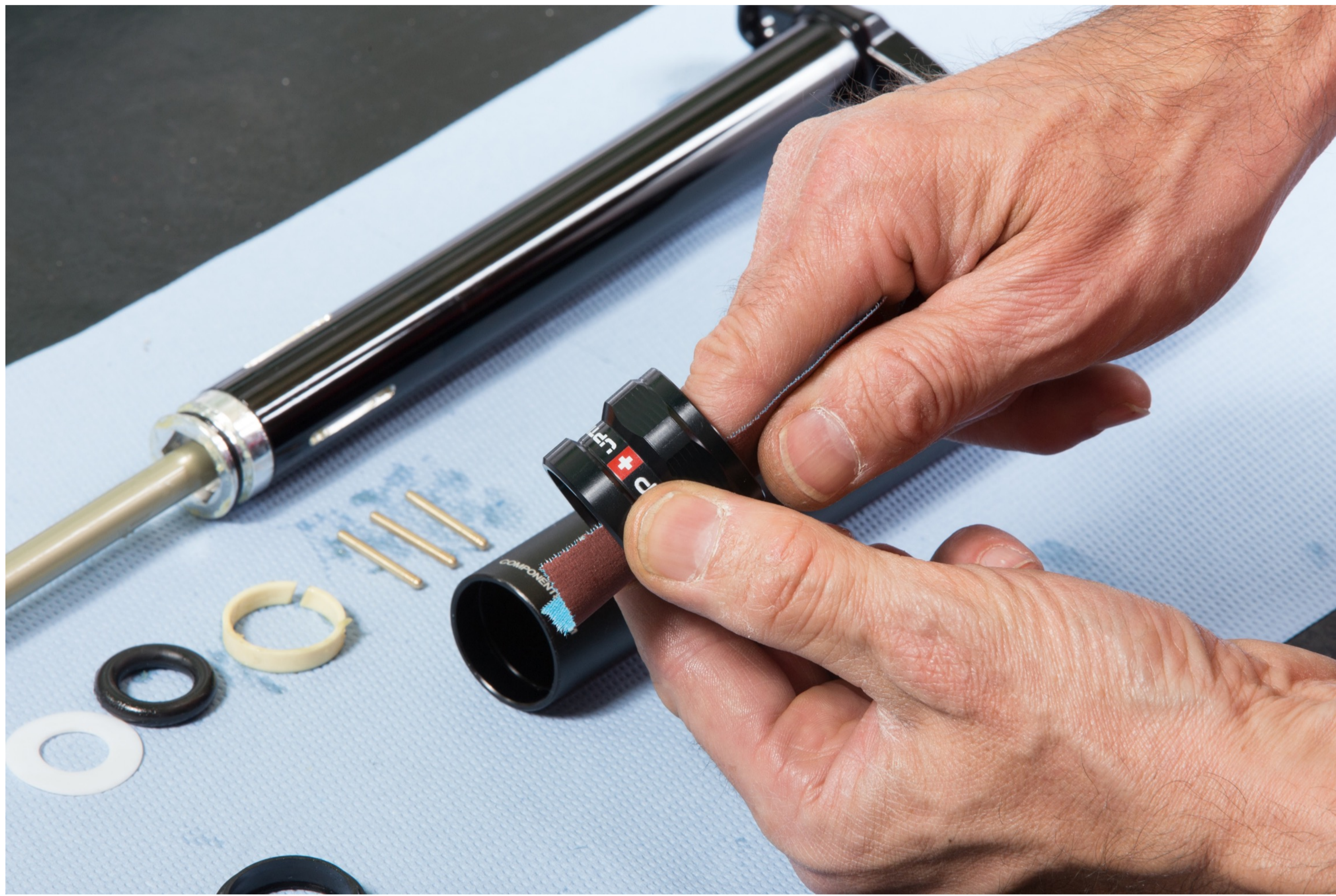
- Clean dust ring





step 15

- Run the collar (without dust-ring) through the stanchion to check smoothness of operation
- If necessary, use grit 400 sandpaper to restore finish inside the collar, pay attention not to remove too much material



## RE-ASSEMBLY PROCEDURE



step 16

- Install dust-ring





#### step 17

- Carefully reinstall collar, paying attention not to damage the lip of the dust ring



#### step 18

- Reinstall the three brass keys in their slots (previously cleaned).  
Add a small quantity of grease



#### step 19

- Reinstall Igus® piston ring



#### step 20

- Insert stanchion in the outer sleeve

*note: make sure the stanchion's head is in line with the graphics on the outer sleeve as in photo*





#### step 21

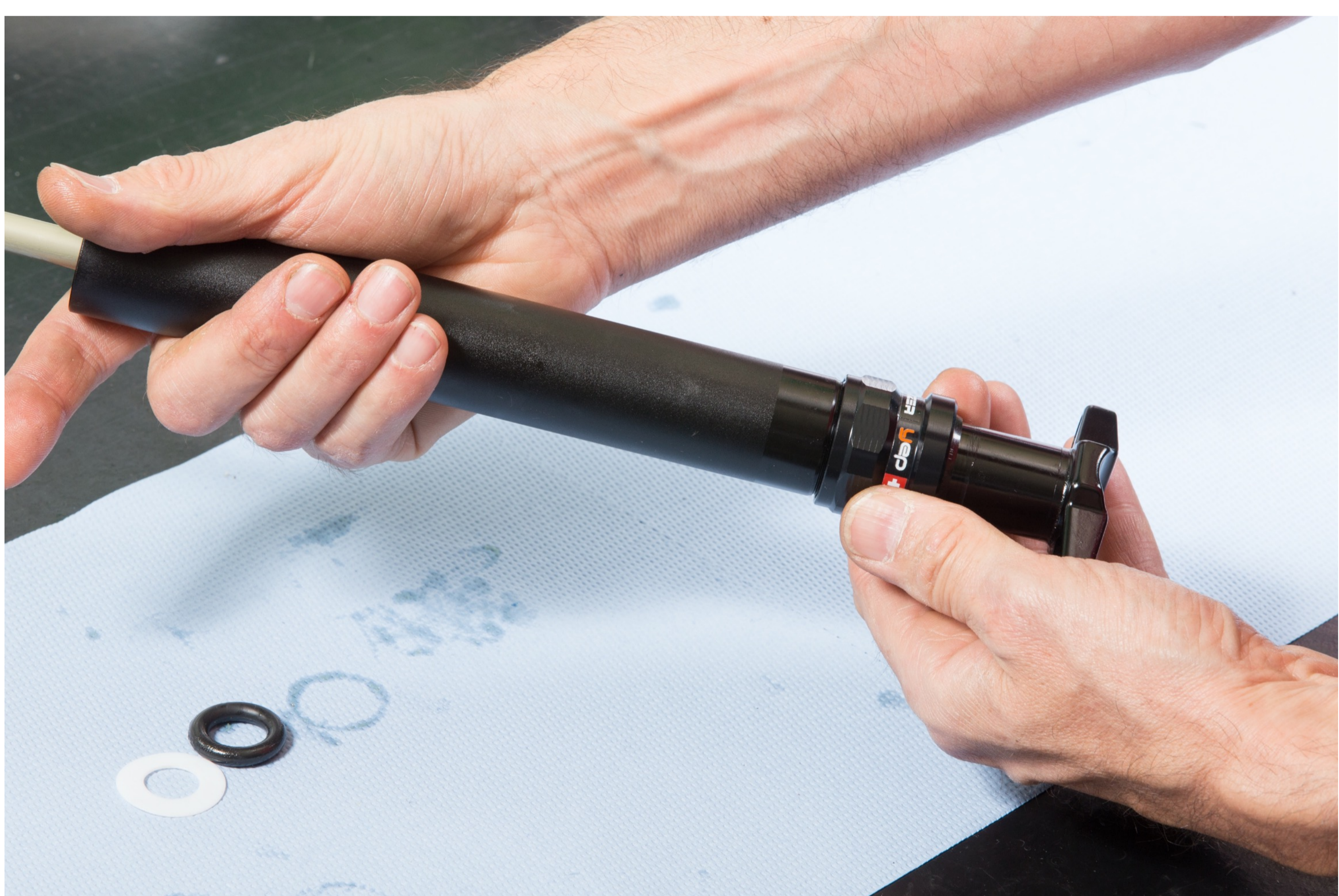
- Apply a layer of suspension grease (Slick Honey™ or similar) to the stanchion before final reassembly

**Important:** do not use thick white grease or other mounting compounds



#### step 22

- Apply a few drops of thread locker



#### step 23

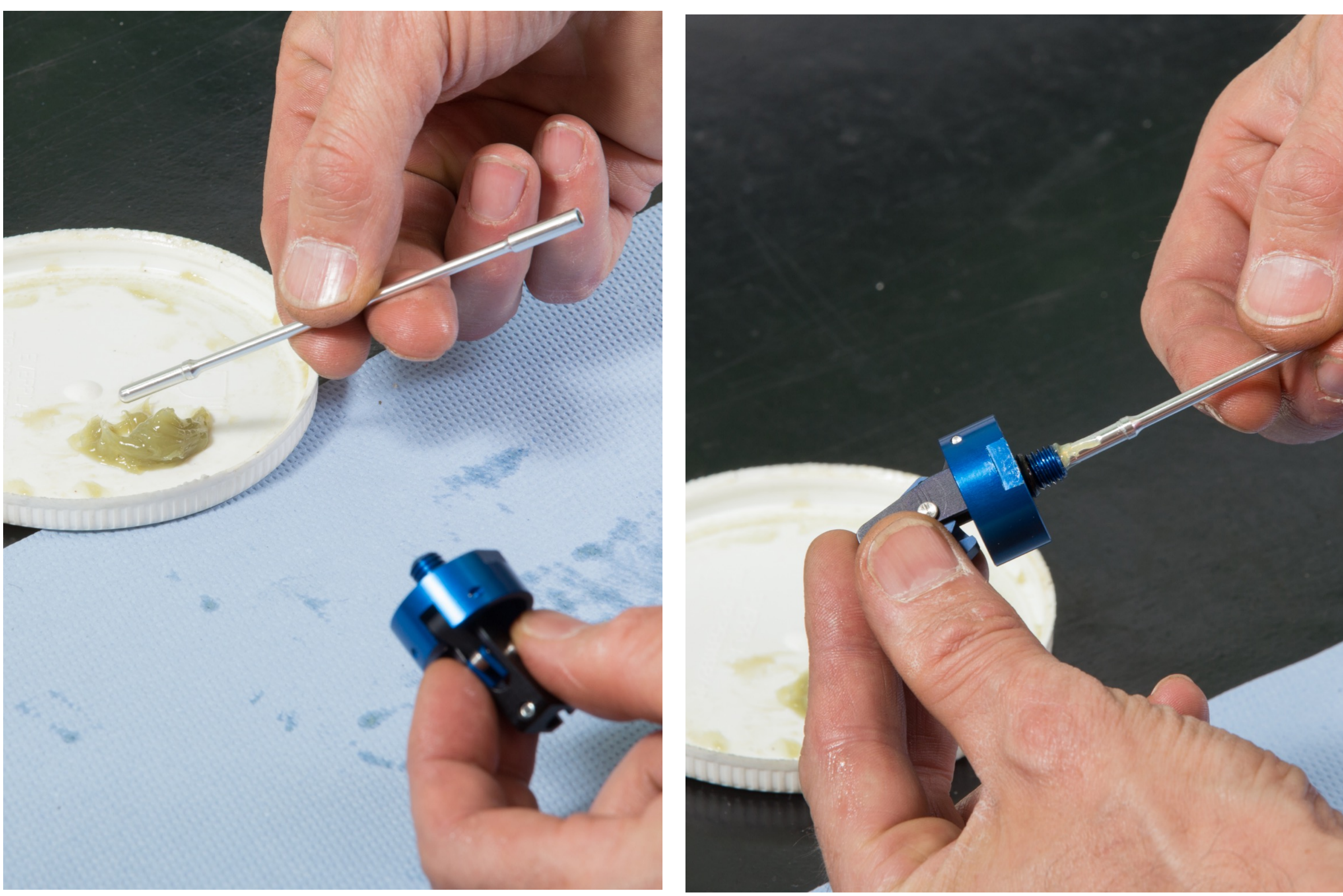
- Install collar (hand tight)



#### step 24

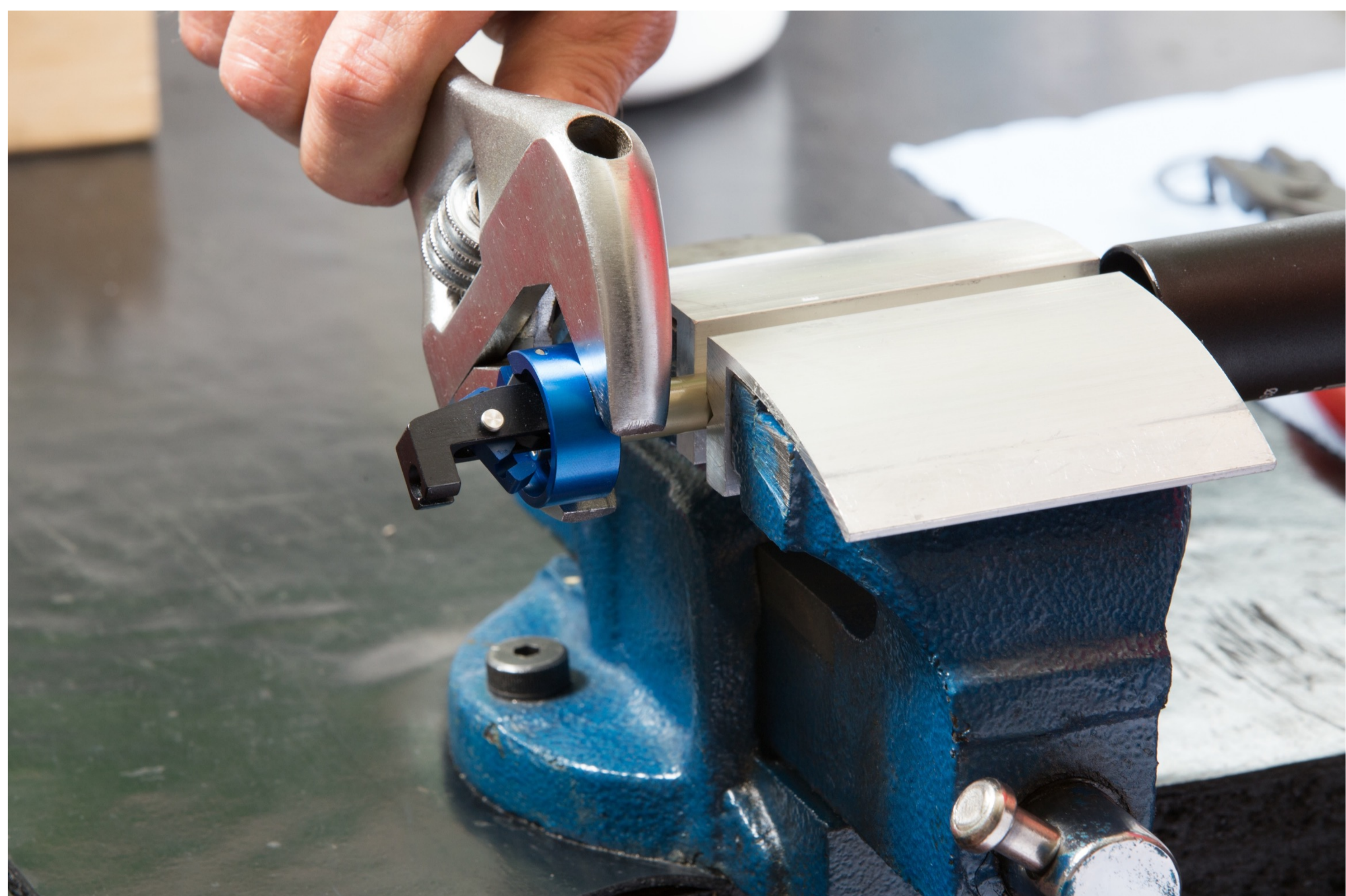
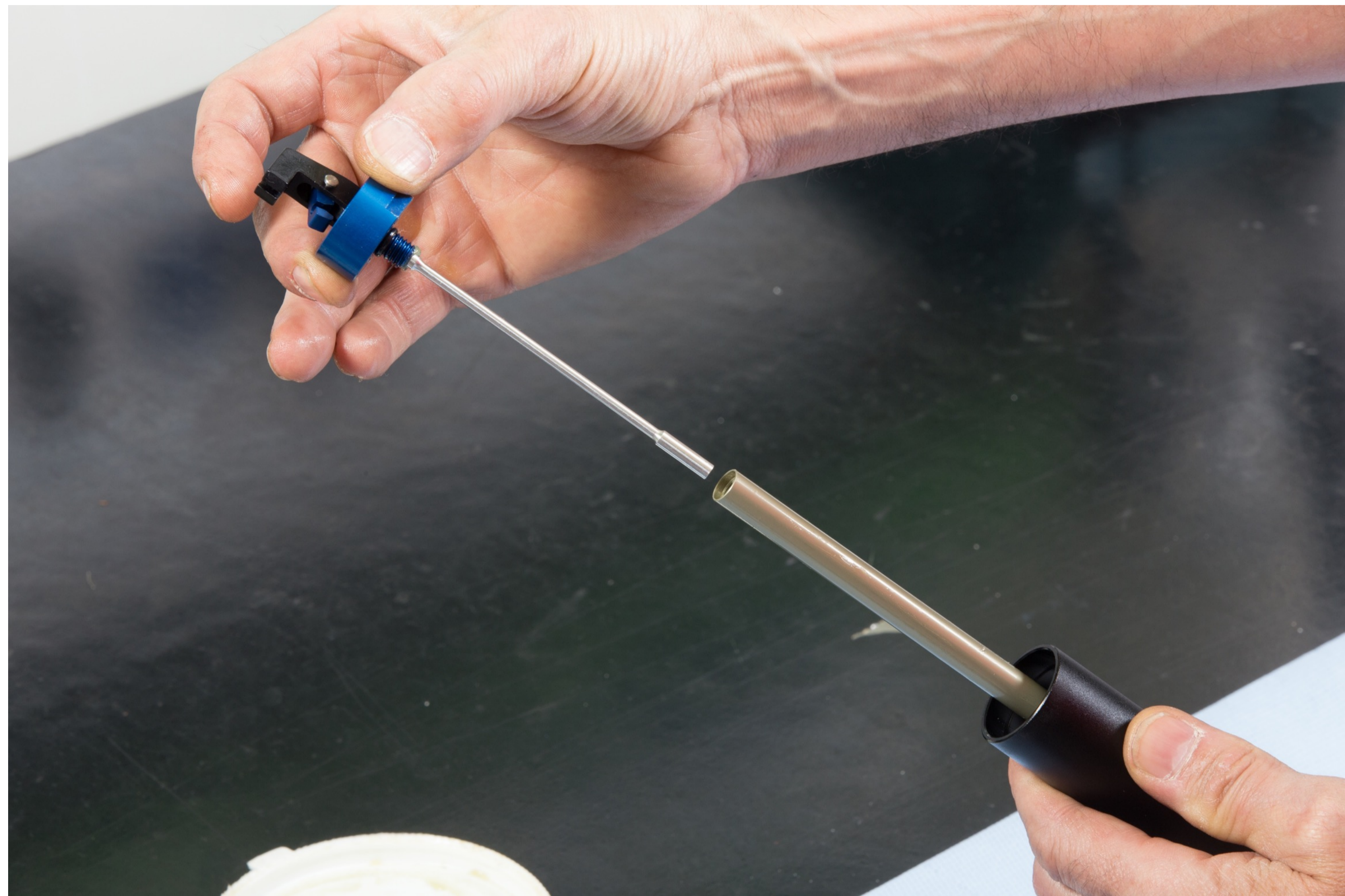
- Install bumper ring and white plastic washer (make sure washer is properly seated)





step 25

- Reinstall actuator push rod (add grease)



step 26

- Screw actuator back on piston shaft (3Nm max)  
*note: do not use thread locker*



step 27

- Insert inner assembly back inside outer sleeve using seat post graphics as a reference for initial alignment

*note: when assembled the actuator can still be turned by hand to find the ideal position for cable routing*





step 28

- Reinstall snap ring



step 29

- Reinstall collar (use bicycle frame to hold the seat post in place)
- Securely tighten the hexagonal collar



step 30

- Go ride your bike