



AIR SEAL MAINTENANCE EQ FORKS

***AXON34 EQ, AURON35 EQ, DUROLUX36 EQ,
DUROLUX38 EQ, RUX38 EQ, SF24-25 MOBIE34 EQ***

V.1.0_09-2024

AIR SEAL MAINTENANCE – EQ FORKS

REQUIRED TOOLS & SUPPLIES:

- 27mm socket (ZFC160-R)
- ½ Ratchet wrench
- 12mm socket (R2C2 cartridge forks)
- 10mm socket
- 5mm Allen key
- Torque wrench
- 10mm shaft clamps
- Loctite 542 or equivalent
- Pliers (smooth-jaw, flat surface) or wrench
- Plastic mallet
- O-ring removal tool
- Air chamber oil
- SR SUNTOUR “Low-Friction” grease
- Brush
- Rag or workshop towel
- High pressure (shock) pump

WARNING

Always wear safety glasses and protective gloves during the maintenance of SR SUNTOUR products.

GENERAL INFORMATION

All EQ forks can be identified by the EQ sticker on the crown of the fork.



STEP 1

Remove the lower legs. Refer to the procedure “LOWER LEGS SERVICE...” specific to your fork.

STEP 2

Remove the air cap and depressurize the air chamber.



STEP 3

Use the dedicated 27mm socket and a ratchet to unscrew the air cap assembly (picture 1). Carefully remove the air cap assembly from the stanchion and set it aside (picture 2).



STEP 4

Use a wrench or a Knipex smooth-jaw pliers to unscrew the nose piece by turning it counterclockwise



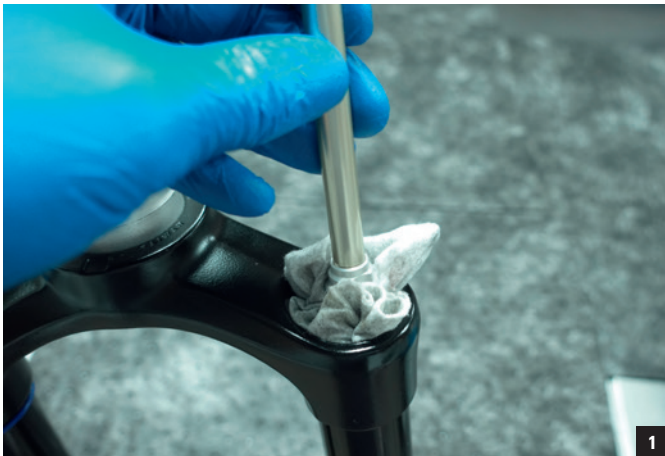
STEP 5

Move the nose piece partway down the shaft (picture 1). Pull the shaft and remove the air shaft assembly. Set it aside (picture 2).



STEP 6

Spray some brake cleaner on a workshop towel. Use a plastic shaft to push the towel through the stanchion. Inspect the inner surface of the stanchion and check for potential scratches.

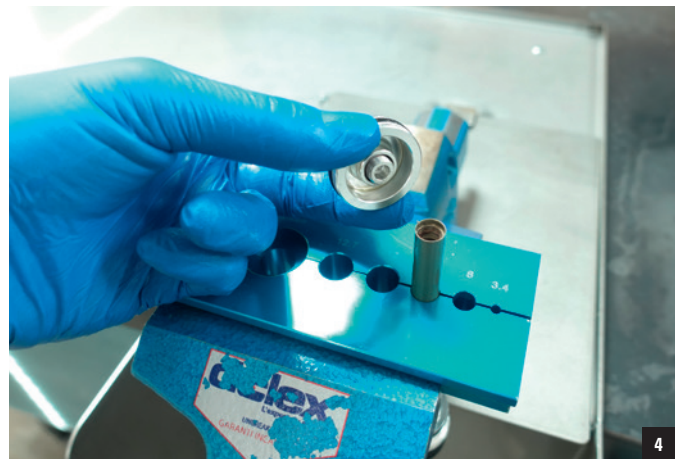
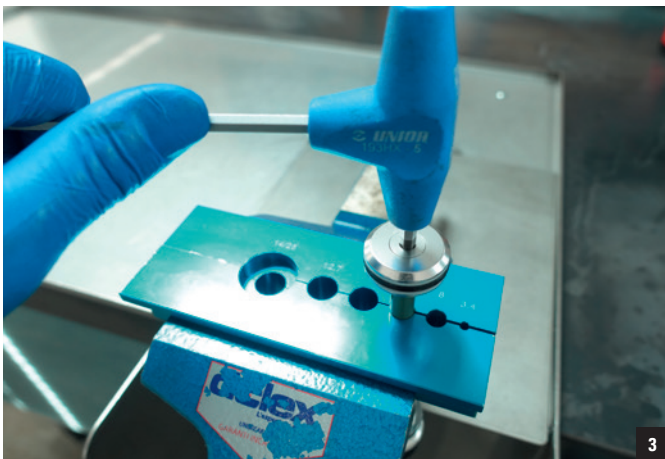
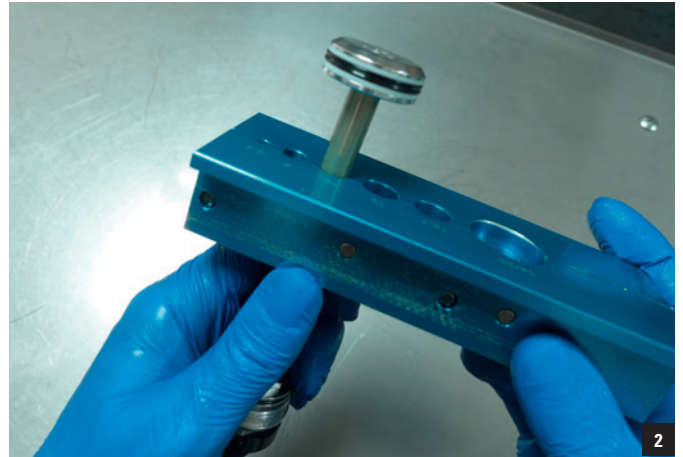


STEP 7

Slide the spacer, bumper, and nose piece down to expose the shaft. Clean the shaft with brake cleaner and a workshop towel. Use 10 mm clamps to hold the shaft in a vise.

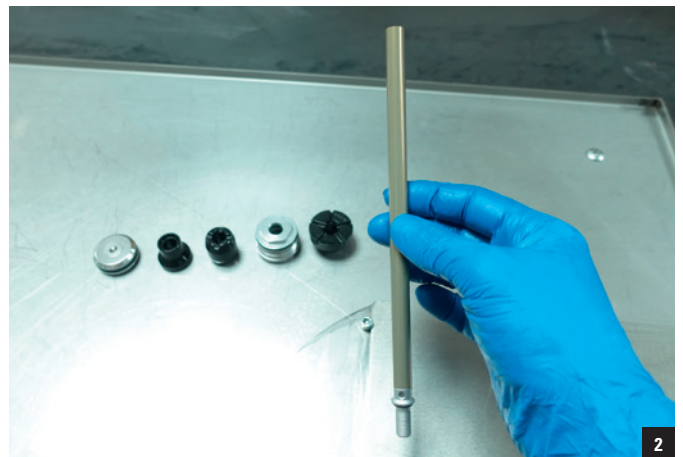
Note: Leave a 20 mm gap between the piston and the clamps so that the shaft threads are not put under stress.

Use a 5 mm Allen key to loosen the piston bolt. Remove the piston assembly and set it aside.



STEP 8

Remove the shaft from the vise. Remove the plastic spacer, bumper and nose piece from the shaft and set them aside.



STEP 9

Identify the type of nose piece. Type 1 (right), Type 2 (left).

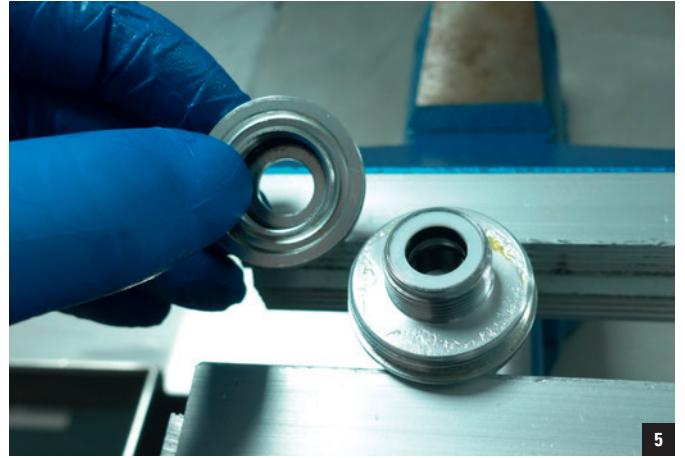


TYPE 1

Carefully clamp the nose piece in a vise using aluminium jaws. Remove the o-ring.

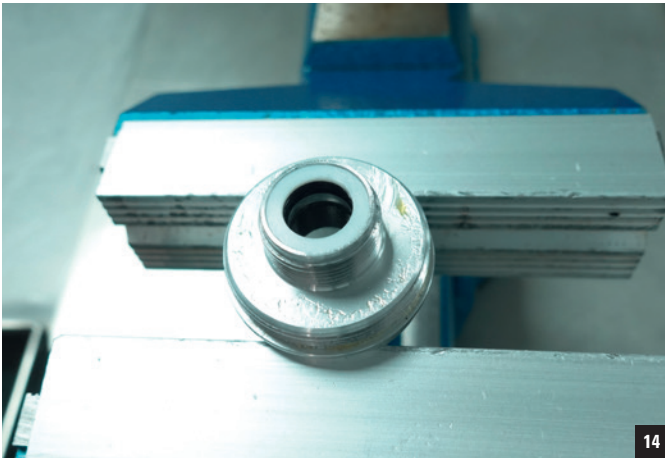


Use a 21mm socket or wrench to loosen the top nut by turning it counterclockwise. Remove the top nut and its inner o-ring seal. Remove the white backup rings and the x-ring seal.

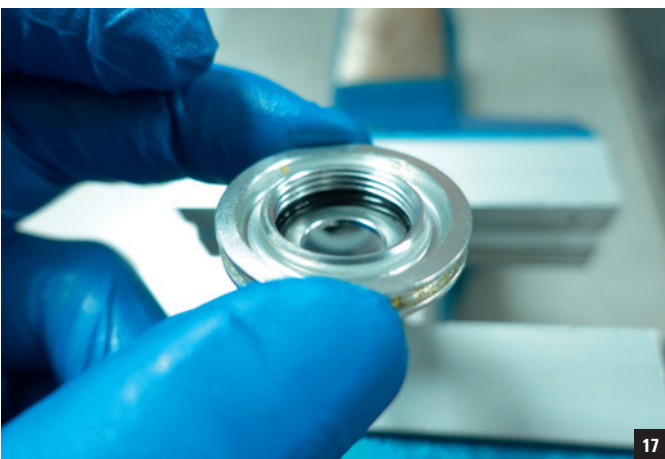


Use a clean rag and brake cleaner to clean the nose piece. Grease and install the two backup rings and the x-ring seal.





Clean the nose piece top nut. Grease and install the new o-ring. Install and hand-tighten the top nut. Install the external o-ring.





Use a torque wrench with a 21mm socket and tighten to **6Nm**.



TYPE 2

Use a plastic pick to remove the x-ring.



Clean the seal seat with a rag. Grease and install the new x-ring.



Make sure the seal is seated correctly without any twists.

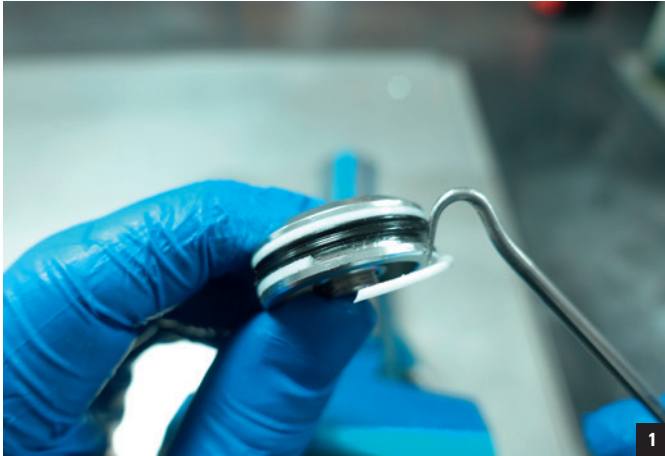


Remove the O-ring and set it aside. Clean the seal seat, apply grease to the new O-ring, then install it.



STEP 10

Hold the piston and remove the two backup rings and the x-ring seal. Clean the piston.



STEP 11

Install the first backup ring, making sure it is properly seated. Apply SR SUNTOUR "Low-Friction" grease on the new x-ring and install it. Install the second backup ring.

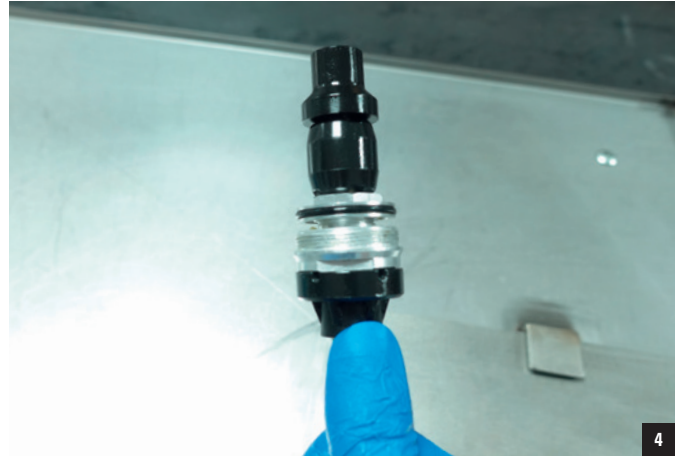




STEP 12

Apply SR SUNTOUR "Low Friction" grease on the inside of the rubber bumper, plastic spacer and nose piece. Install them on the shaft in the correct order (refer to picture 4).





STEP 13

Use 10mm clamps to secure the shaft in the vise.

Note: Leave a 20mm gap between the piston and the clamps so that the shaft threads are not put under stress.

Apply Loctite 262 or equivalent to the piston threads. Use a torque wrench with a 5mm Allen bit and tighten the piston to **6Nm**. Remove the air shaft assembly from the vise.



STEP 14

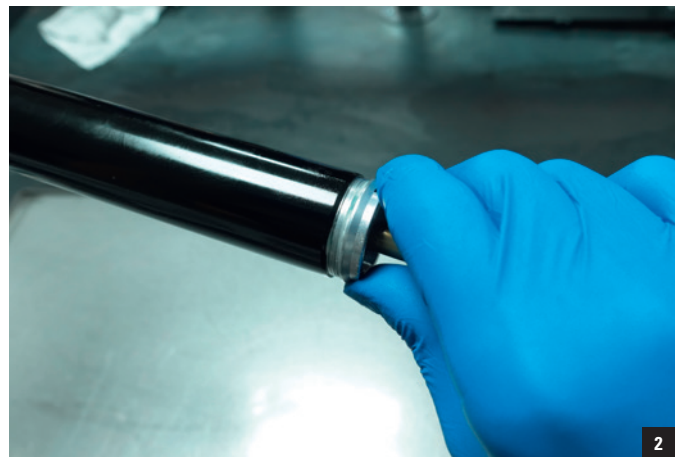
Apply SR SUNTOUR "Low-Friction" grease to the piston x-ring seal, the nose piece O-ring, and the inside of the stanchion.



STEP 15

Insert the air shaft assembly into the stanchion. Begin threading it by hand and finish with a torque wrench set to 2.7Nm.

Note: Do not exceed 2.7Nm of torque, as this could damage the stanchion.





STEP 16

Inject 1-2cc of air chamber oil directly in the stanchion.

Note: Do not exceed 2cc of oil, as too much could block the air transfer between the positive and negative air chambers.



Apply grease to the air cap assembly o-ring.



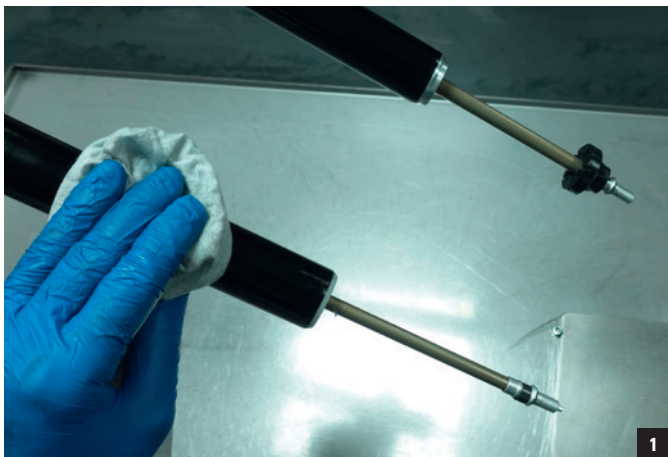
STEP 17

Install the air cap assembly in the left stanchion using the dedicated 27 mm socket and ratchet, and tighten to **15Nm**.



STEP 18

Clean the stanchions.



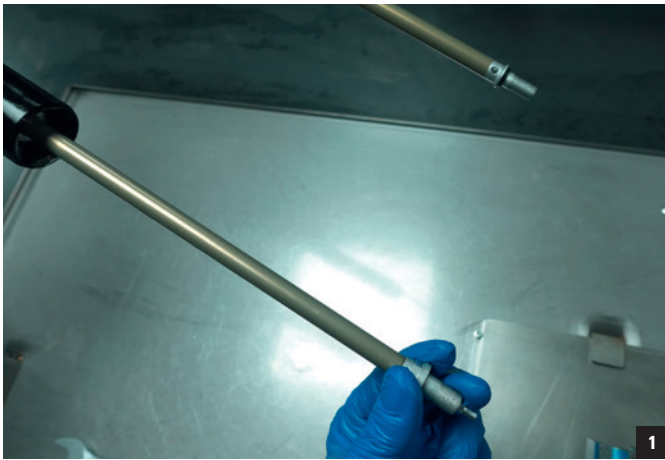
Prepare the lower leg assembly. For more details, please refer to the "LOWER LEG SERVICE..." guide specific to your fork for detailed instructions.

In summary, start by cleaning the lower legs bushings. Clean or replace the dust seals and foam rings. Grease the inner surface of both dust seals and bushings with SR SUNTOUR "Low friction" grease. Soak the foam rings with 20wt oil, then reinstall.



STEP 19

Install the lower legs. Refer to the procedure "LOWER LEGS SERVICE..." specific to your fork. In summary, make sure the o-rings are installed at the bottom of both the air shaft and damper shaft respectively. Pull the damper shaft to the bottom of the stanchion, then install the lower legs onto the stanchions.



STEP 20

Pressurize the air spring to 70 psi and equalize the positive and negative chambers by compressing the fork a few times within the sag portion of the fork travel.

