



580 N Westgate Dr
Grand Junction CO 81505
(970) 241-3518

**LOOP Air Spring
Seal Kit
102678**

Necessary tools, parts, and supplies:

Socket wrench, 10 mm
Socket wrench, 24 mm
Rubber or plastic mallet
Rebound removal knob WB-97-702 (optional)
Open-end wrench, 10 mm
Snap ring pliers (fine tip)
Pliers
Hex keys, 2 & 3 mm
Air piston o-ring 100262
Air cap o-ring 101271 (some will take 100162 and 101285)
Extra o-rings 102523
Fork or suspension oil, 5 wt., 3 oz (only about 12 ml will be used)

- 1) After removing the fork from the bicycle, loosen the air side screw until it protrudes 3 - 5 mm from the bottom of the fork and tap it firmly with a mallet to unseat the compression rod inside the leg. Remove the screw. Release all air pressure from the air spring leg by depressing the valve core in the cap. Lubricating oil may drip from the leg with the screw removed and pressure released.
- 2) Slide the lower casting to the fully extended position on the stanchion assembly and turn the blue compression knob clockwise to the closed position.
- 3) Loosen the set screw on the red rebound knob until the knob can slide off of the damper screw.
- 4) Remove the damper screw using the rebound removal knob in combination with the open end 10 mm wrench. Holding the removal knob while turning the screw will maintain the position of the rebound needle in the damper rod.
 - 4a) If the removal knob is not used, the rebound needle will unthread to the end of the damper rod as the screw comes out. Use the 3 mm hex key to turn the rebound needle back down into place. Tighten until firm resistance is encountered, then back off by 2 turns.
- 5) Thread the spring side screw part way into the damper rod and tap the screw firmly with the mallet to unseat the damper rod. Remove the screw. Slide the fork lower casting off of the stanchion assembly and set the casting aside. Lubricating oil may drip from the casting and stanchions.
- 6) After checking again that all pressure has been released from the Schrader valve, use the snap ring pliers to remove the snap ring at the bottom of the air spring stanchion. Thread the air spring screw into the end of the rod. Gripping the screw, pull firmly on the compression rod to remove the lower air spring assembly. The air piston itself will remain in the stanchion.
- 7) Remove air cap with a 24mm socket, then replace the o-ring (o-rings) on the cap. Some older LOOP forks, with 1.5 steer, will have a dual o-ring to better seal on the crown.
- 8) Use a long dowel to push air piston out the bottom of the stanchion. Wipe of the grease/ oil, and inspect the piston and inside of the stanchion for any wear or damage.
- 9) Remove the air piston o-ring using a pick, make sure not to scratch the piston. Install the new o-ring and lube with Slick Honey. From the bottom of the stanchion, grease the inside and carefully re insert the air piston.

- 10) Re install the negative spring and control rod assembly, with a light coat of grease on the springs. Using snap ring pliers, carefully snap the snap ring in place.
- 11) Drip 3 or 4 drops of fork oil on the top of the air piston. Re install the air cap with a 24mm socket. Recommended torque for the air cap is 70 in/lbs or 7.9 nm.
- 12) Before reassembling the lower casting to the stanchion assembly, check the o-rings on the air spring screw and damper screw. Damaged o-rings should be replaced and coated with fork grease before further reassembly.
- 13) Check that the bottom out bumper and washer are on the compression rod of the air spring, if 26/650 model Loop fork. 29-inch Loop models have bottom out bumper on the rod without a washer, but have a spool-shaped riser that remains inside the spring side leg of the lower casting. Inflate the air spring leg to 40-50 psi for reassembly. Do not exceed 50 psi.
- 14) With the stanchion assembly still inverted, slide the lower casting onto the stanchions. As soon as the lower bushings in the casting engage the stanchions, stop and pour approximately 10 ml of fork oil into the screw hole of the spring leg for lubrication, 2 ml of oil into the damper leg. Hold the fork at an angle while pouring to avoid getting oil in the ends of the damper and compression rods.
- 15) Resume sliding the casting onto the stanchions until the casting touches the damper rod. Use the corner of a shop rag or cotton swabs to remove excess oil that may have gotten into the end of the damper rod, then install the damper screw.
- 16) Use the rebound removal knob to hold the rebound adjustment stationary as the damper screw is tightened. If the screw encounters resistance before fully tightening, oil may still be trapped in the socket of the rebound needle. Remove the screw and use a cotton swab to wick away oil pooled in the hex socket, then install the screw and tighten to 75 inch-lbs (8.5 Nm).
- 16a) If the rebound removal knob is not used, before installing the screw use the 3 mm allen key to unscrew the rebound needle inside the damper rod until it is near the end of the rod. This should only be done with damper rod fully extended. Use a cotton swab to wick away any oil trapped in the socket of the rebound needle. Insert the key of the damper screw into the socket of the rebound needle and thread the screw into the rod. Tighten the screw to 75 inch-lbs (8.5 Nm).
- 17) Wipe away any oil on the damper screw and install the red rebound knob. Turn the blue compression knob to the fully open position and compress the fork until the casting touches the compression rod of the air spring. Install the air spring screw and tighten to 75 inch-lbs (8.5 Nm). Inflate the fork to working pressure.