Section 3: Checking the Manostat

Tools Required:

- adjustable wrench

- tweasers

Parts Required:

- if the manostat plunger is broken you will need a spare plunger from kit Code 4157200

Manostat Plunger

1. Disconnect the air

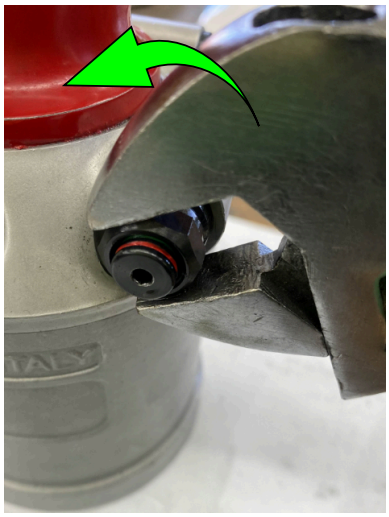
2. Take the rubber cap off the manostat if it is present using tweasers as shown in the images below


Rubber Manostat Cover


Removal with Tweasers


After removal

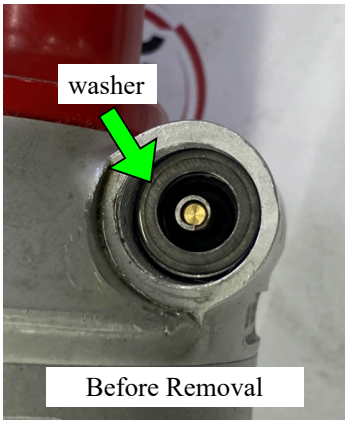
3. Use the adjustable wrench to unscrew the head of the manostat



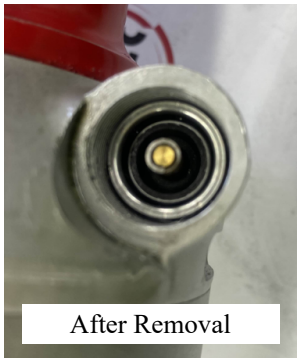

After Removal

Manostat head with washer, pressure spring, and spring connector pieces

4. Remove the washer using the tweasers. If the washer is not present check the head of the manostat


washer

Before Removal


After Removal


washer

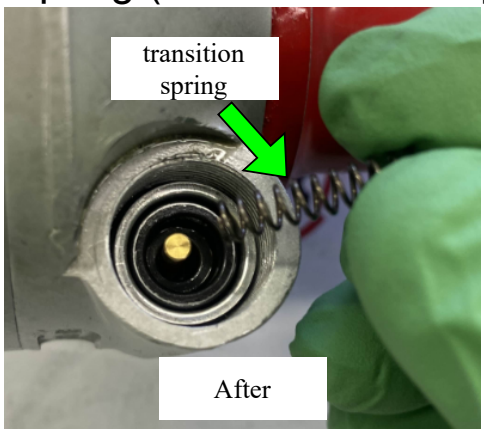
Washer in the head of the manostat (the other possible location)

5. Remove the large pressure spring and spring connector using the tweasers. This may have came out with the manostat head.

pressure spring with spring connector inside of manostat head

6. Remove the transition spring (smaller than the pressure spring) with tweasers

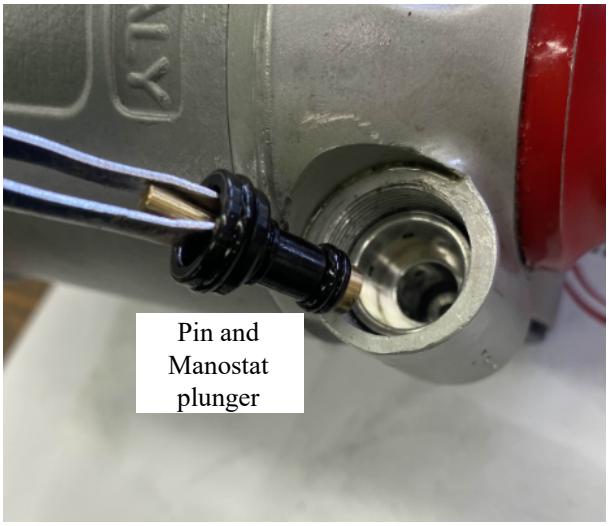
Before



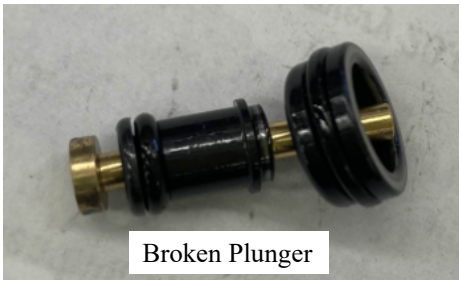
transition spring

After

7. Remove the pin with the manostat plunger on it using tweasers. Check the state of the plunger. If the plunger is broken you will need to replace it with a new one.



Pin and Manostat plunger



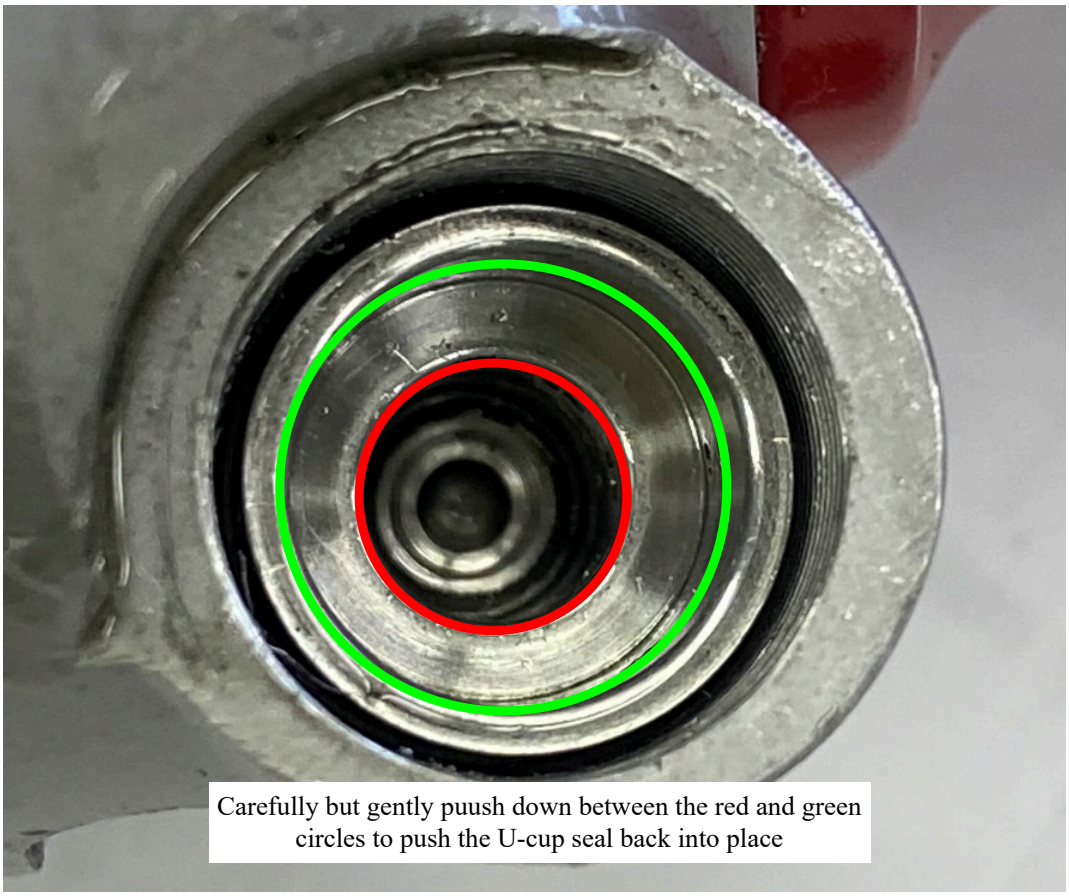
Broken Plunger

Good Plunger

8. Regardless if the plunger is broken or not, there is a U-cup seal at the back of the manostat which can pop out after heavy use.

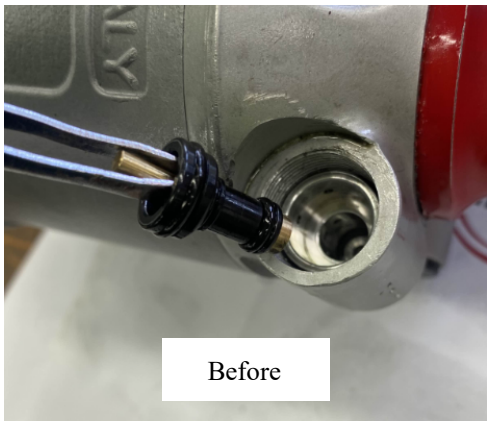
To push the U-seal back into place simply put preassure in the areas shown in the image below.

Do not attempt to take the manostat apart futher as it will not help fix the tool and will wear out the o-rings more.



Carefully but gently puush down between the red and green circles to push the U-cup seal back into place

9. Place the plunger on the pin as shown in the image below. Then place the transition spring on the pin before placing the pin back into the manostat



Before

After

Transition spring
(the smaller of the two springs in the manostat)

10. Place the spring connector onto the pressure spring pin and place the spring in the manostat head if it is not already assembled. Also place the washer into the manostat head.

Manostat head with pressure spring, spring connector, and washer

11. Place the manostat head back into place. Be sure that the spring connector fits over the transition spring before screwing the manostat head in.

If you cannot screw the manostat head in this is because the washer is getting in the way of the threads. Reposition the washer and try again.