

SERVICE PROCEDURE

CHANGING METRO FLOW DISCS

ME0-KIT, ME1-TO-KIT, ME1-V-KIT, ME2-KIT

⚠️ WARNING

Only trained service technicians may perform service/maintenance operations on rescue equipment. Review and understand operational and safety instructions MANUAL: LIN-040 Metro 0, Metro 1, and Metro 2 Nozzles, before performing this procedure.

1.0 PURPOSE

This procedure is to be used on all METRO 0, METRO 1, and METRO 2 nozzles manufactured after June 2018 as indicated by a Spirolox® retaining ring on the end of the shaft. The flow and pressure of these nozzles may be changed in the field by selecting and installing the appropriate flow calibration disc.

Required Tools/Equipment:

- Disc Replacement Kit (Disc, Spirolox Ring, Pusher, Cone)
- Knife, Pick or Small Screwdriver
- Eye Protection

2.0 PROCESS



STEP 1 - Set nozzle to the flush position. Push the baffle and flow calibration disc down to expose the Spirolox® retaining ring.



STEP 2 - Use the point of a knife, pick, or small screwdriver to pry the end of the retaining ring out of its groove.



STEP 3 - Pull ring out of the groove by unwinding in a clockwise direction. **DISCARD THE RING.** Use care to avoid deforming the groove in the shaft.

⚠️ WARNING

Damage or deformation of the groove in the end of the shaft will not allow the new Spirolox Ring to fully seat. Baffle components may be ejected while flowing water, causing an ineffective stream which can result in injury or death.

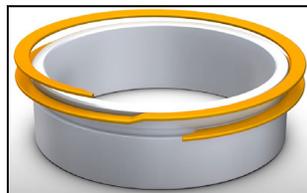
- Carefully unwind the ring from the groove. (see below or watch <http://tft.com/metro/remove>)
- After removing the ring, examine the groove to ensure there is no damage or deformation.
- Replace the baffle assembly if any damage or deformation is detected.

⚠️ CAUTION

The ends of the Spirolox Ring can be sharp. Use care to avoid injury when removing/handling the Spirolox Ring.



Pry the end of the ring out of the groove and up.



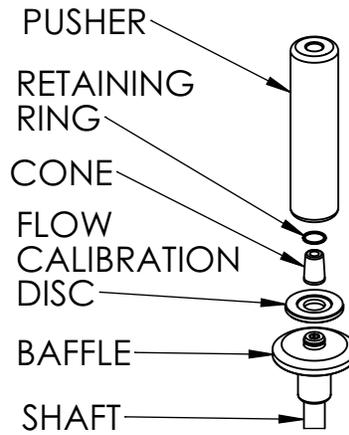
Carefully unwind the ring from the groove.



Remove and discard the ring.



STEP 4 - Remove the old flow calibration disc from the shaft, leaving the baffle installed.



For Steps 5-7, components are installed in the order shown.



STEP 5 - Place the new flow calibration disc over the end of the shaft, followed by the metal installation cone.



STEP 6 - Place a **NEW** Spirolox ring over the installation cone.
DO NOT REUSE THE SPIROLOX RING.



STEP 7 - Place the pusher tool over the cone and press down to install the ring in the groove in the end of the shaft.
ALWAYS USE A NEW SPIROLOX RING.



STEP 8 - Visually verify Spirolox ring is fully seated in the groove. Move the shaper to straight stream and flow test the nozzle.

⚠ WARNING

Do not use the Spirolox if it is previously installed, damaged, stretched, or in anyway modified. Immediately discard any used or rings deemed unacceptable to ensure they are not reused.

⚠ WARNING

If the new, unused Spirolox Ring is not fully seated in the groove, baffle components may be ejected while flowing water, causing an ineffective stream which can result in injury or death.

- Always examine the ring to ensure that it is seated in the groove.
- Replace the ring if it is stretched or the ends do not fully snap into the groove.
- Never reuse the Spirolox Ring.

For questions regarding maintenance, service, and repair, contact TFT service.