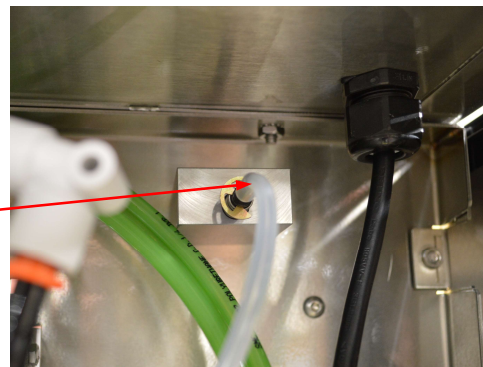


To replace the Fill Nozzle on the ANKOM<sup>TDF</sup> Dietary Fiber Analyzer, follow the steps below.

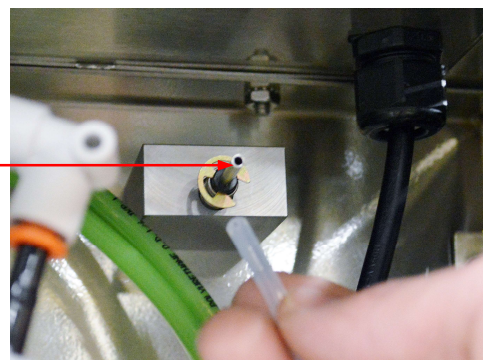
**Note:** The following items will be sent in a TDF79 Fill Nozzle Replacement Kit: Fill Nozzle, retaining ring and spring.

1. **Locate the defective IDF or SDF Fill Nozzle station and disconnect its silicone tube, which connects to the stainless steel tube on the back side of the Fill Nozzle.**

Silicone  
Tube



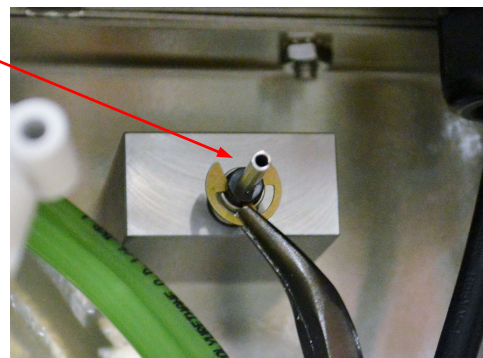
Stainless  
Steel  
Tube



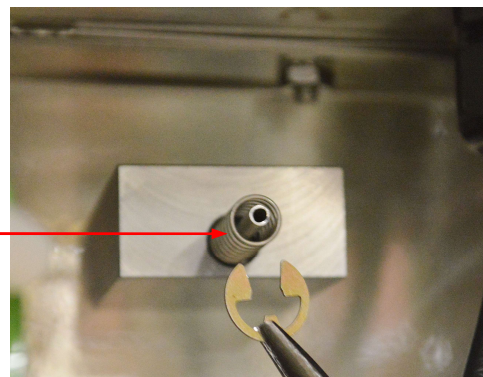
2. **Remove the retaining ring and spring.**

- a. Using pliers (pictured are needle nose pliers), orient the opening of the retaining ring opposite of the direction you are pulling from. Be careful not to lose the spring as it may bounce off the metal tube. Set the retaining ring aside.
- b. Remove the spring and set it aside.

Retaining  
Ring  
Opening



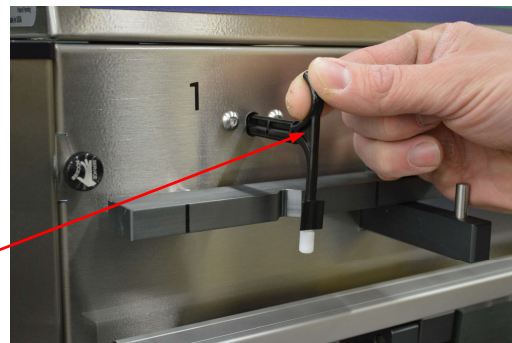
Spring



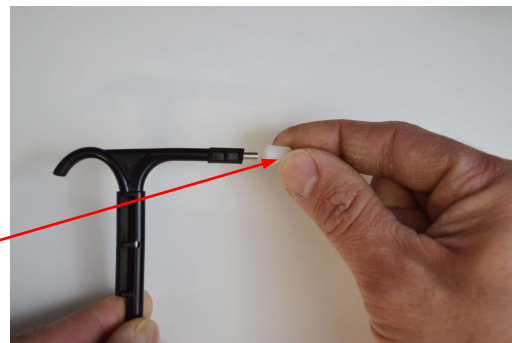
**3. Remove the broken Fill Nozzle.**

- a. Pull the broken Fill Nozzle out of its station.
- b. Discard the broken Fill Nozzle.

Defective  
Fill  
Nozzle

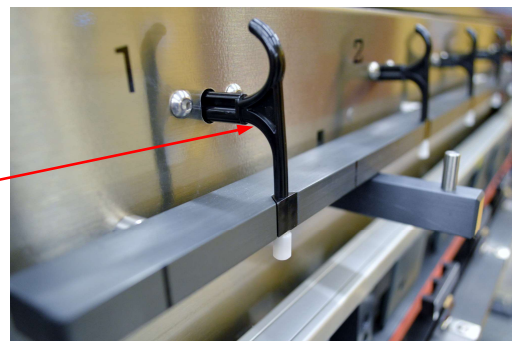


White  
Spray Tip



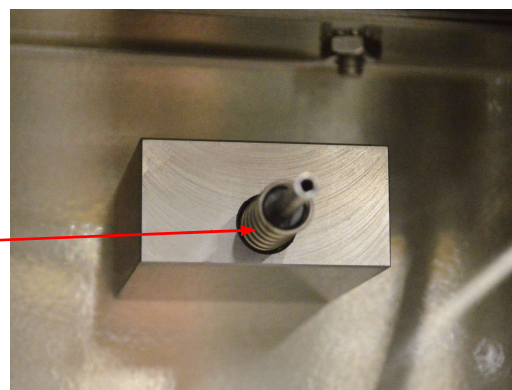
**4. Install the new Fill Nozzle onto the correct IDF or SDF station on the TDF instrument.**

New  
Fill Nozzle



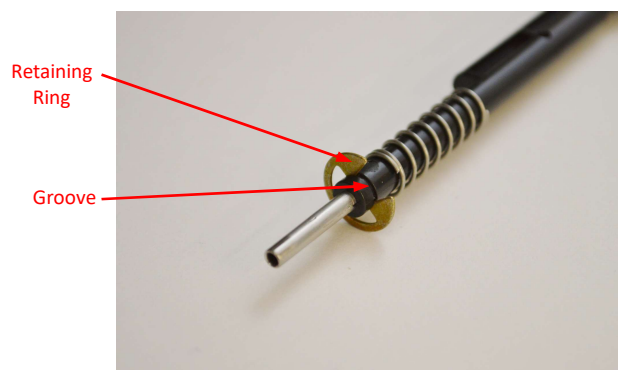
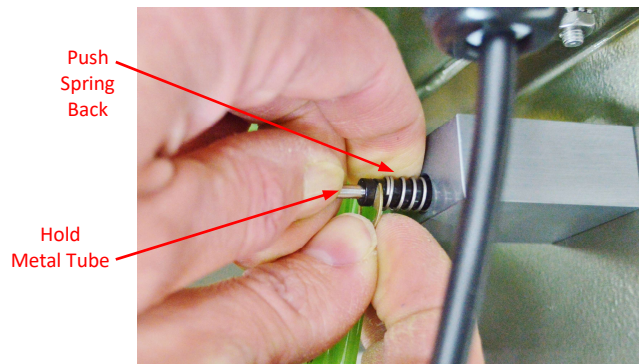
**5. Reinstall the spring onto the metal tube and over the molded black plastic by pushing it back all the way.**

Spring



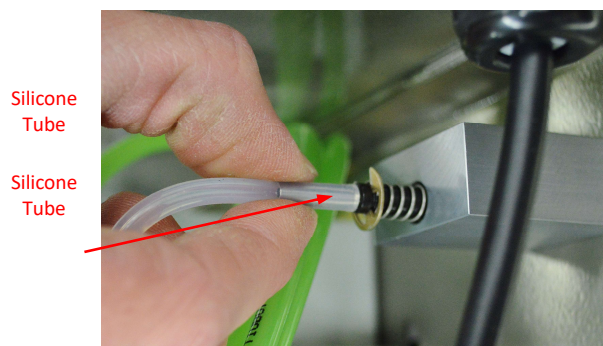
## 6. Reinstall the retaining ring into the groove on the molded black plastic.

While holding the metal tube so that the Fill Nozzle does not fall out, push back on the spring so that you can slide the retaining ring into the groove at the end of the black molded plastic.



## 7. Reconnect the silicone tube.

Slide the silicone tubing onto the metal tube, pushing it back until it touches the black plastic.





## 8. Perform a QC Test of the installation.

- a. Ensure the spring works properly by pulling on the new Fill Nozzle from the front of the instrument.
- b. Ensure the flat front side of the Fill Nozzle rests evenly against the front edge of the rear clamp bar.
- c. If the flat front edge of the Fill Nozzle does not line up evenly with the front edge of the rear clamp bar then bend the lower section of the Fill Nozzle until it properly aligns and fits within the notch.

This is important to ensure that a proper seal is made when the front clamp bar closes during filtration.

