**Demo: Replace Liner, Septum, O-Ring**

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Replacing the inlet septum, liner and o-ring

Supplies you’ll need: tweezer, septa, liners, inlet wrench (which came with your GC).

1) Loosen the septum retainer nut.
2) Use tweezers to remove the septum from the retainer nut. Do not gouge or scratch the interior of the septum head. Firmly press the new septum into the fitting.
3) Install the septum retainer nut finger-tight. Tighten it until the C-ring is about 1 mm above the nut, as in diagram:

![Diagram of septum installation](image)

4) Over-tightening the septum nut can cause contamination from the syringe coring the septum and depositing the pieces in the inlet.
5) Slide the locking tab forward (counterclockwise). Lift the septum assembly straight up and away from the inlet to avoid chipping or breaking the liner. Loosen the O-ring from the sealing surface with tweezers. Grasp the liner with tweezers and pull it out.
6) Inspect the surface of the gold seal for graphite or rubber septum contamination. If required, replace the gold seal.
7) Clean the inlet if there is visible or suspected contamination. Clean O-ring residue from sealing surface. Slide a new O-ring onto the replacement liner. Return the liner to the inlet, pushing it all the way in until the liner contacts the gold seal.
8) Line up the tab on the bottom of the septum assembly with the slot on the insert assembly and push down to connect. Slide the locking tab to the back.
9) Turn on the inlet. Allow the inlet and column to purge with carrier gas for 15 minutes before heating the inlet or the column oven.

Agilent recommends **Certified Non-Stick Bleed and Temperature Optimized (BTO) Inlet Septa.** They are plasma-treated to eliminate sticking and coring, and help to keep your inlet clean from external contamination. Agilent’s septa are blister-packed for cleanliness and convenience.

- 11 mm BTO septa, 50 /pk: part number 5183-4757; 100/pk: part number 5183-4757-100
- 5 mm BTO septa through-hold for on-column injection in glass jar, 50/pk: part number 5183-4758