

This procedure details the installation of the Tubing Seal (SKU: #RF12) in the RF Gas Production System.

1. Remove the red cap and battery from the module and detach the module from the bottle.



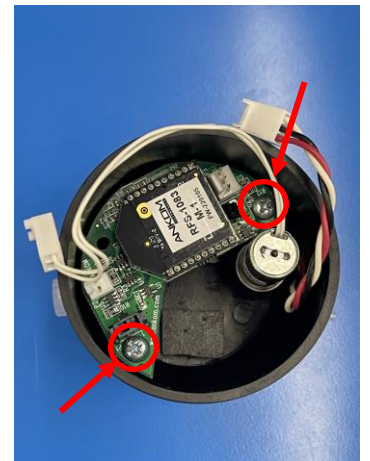
2. Unplug the pressure sensor and solenoid wires and move aside.

Pressure Sensor
and Solenoid Wires



3. With a 6-32 x 5/16 screwdriver, unscrew the two screws holding in the Gen3 Circuit Board. Remove the circuit board and set it aside.

NOTE: We recommend the use of the RF50 anti-static wristband when handling the circuit board. Electrostatic discharge may cause chips to lose their programming.



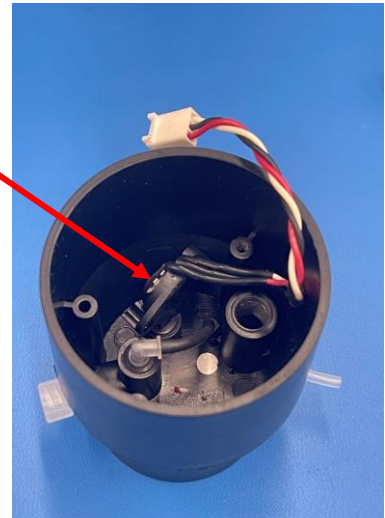
4. Using a flathead screwdriver, remove the Solenoid Assembly by twisting left to loosen and unplug.

Solenoid Assembly



5. Remove the Pressure Sensor by gently pulling away to unplug. You may use your fingers to pull or remove carefully with pliers.

Pressure Sensor



6. Using pliers, pull out the RF11 tubing assembly. If the replacement of the RF12 tubing seal is necessary, it is likely the RF11 should be replaced as well. Discard the old RF11.



7. Remove and replace the RF12 tubing seals. Pliers may be used for initial insertion, and they may be pushed into place by hand.



8. Begin reinstalling each component. Start by inserting a new RF11 tubing assembly into the upper RF12 tubing seal.



9. Push the Pressure Sensor into the lower tubing seal until it is fully inserted.

Pressure Sensor

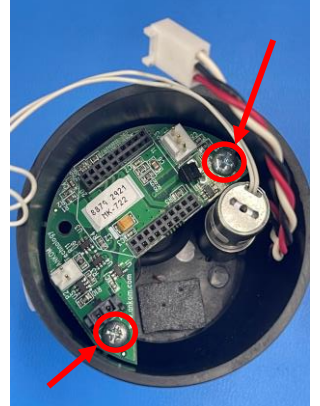


10. Place the Solenoid Valve back in its place and, using a flathead screwdriver, turn right to lock it into place.

NOTE: The Solenoid Valve has small threads. Ensure that the Solenoid Valve is not installed cross-threaded. When cross-threaded, the Valve will not stand straight and will cause the module to leak. Ensure that the Solenoid Valve is positioned vertically straight when tightening.



11. Replace the Gen3 Circuit Board and the two screws. Tighten using a 6-32 x 5/16 Phillips screwdriver.



12. Plug the Pressure Sensor and Solenoid Wires back in.

Pressure Sensor and Solenoid Wires



13. Reattach the module to the bottle and replace the cap.



14. Refer to Service Procedure **RFS001 Module Pressure Testing** to pressure-test the repaired module and confirm that RF communications are working before putting the module back into service.