

#### General:

Pump Diaphragms are to be replaced as needed.

#### Equipment and Materials

- Replacement Diaphragm
- #1 Phillips Screwdriver
- 11/32" Nut Driver
- 5/32" Slotted Screwdriver

#### Replacement Parts

- **URG-9000-20BD**, Set of Replacement EPDM Diaphragms for Pump in Ambient Ion Monitor, 2 per Set

#### Instructions:

1. With your fingers, unscrew the (3) knobs counterclockwise to unlock and open the back door. Remove the door by lifting the door off and away from the case.



2. Disconnect the internal exhaust tube fitting.



3. Disconnect the top fitting on snubber.



4. Disconnect the snubber from the mounting bracket.



5. Disconnect the pump power supply.



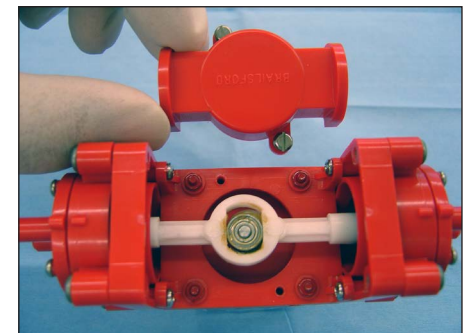
- Using 11/32" nut driver, loosen and remove the pump mounting plate from the shock mount.
- Lift the pump straight up and out to remove the exhaust tube.



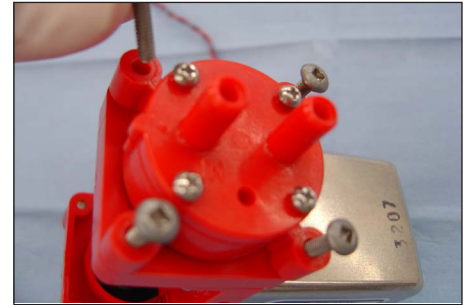
- Disconnect all exhaust assembly fittings and remove the mounting bracket.



- Remove the (2) screws from the plastic dust cover with a 5/32" slotted screwdriver.



10. Remove the (4) screws from one of the pump heads with a #1 Phillips screwdriver.

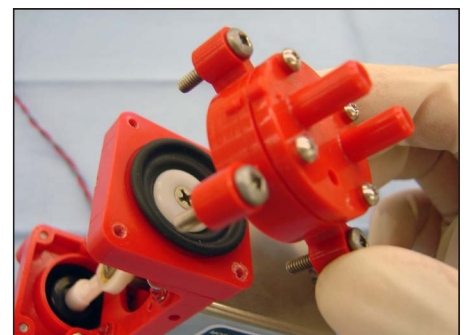


11. Holding the yoke in place, remove the single flat head screw with the screwdriver and remove the old diaphragm.
12. Holding the yoke in place, install the new diaphragm.

**NOTE** The diaphragm rim must face the pump head. The lip the outer retainer must be centered in the diaphragm center hole and the counter bore side of the outer retainer must face the end of the yoke.



13. Reinstall the pump head with the inlet and outlet ports properly oriented, and with the diaphragm rim encasing the matching groove on the pump head underside.
14. Repeat Steps 2 through 5 to replace the diaphragm on the opposite side.



15. Reinstall the plastic dust cover with the slotted screwdriver.

**NOTE** Form the new diaphragms with the pump running. For vacuum, temporarily block inlet ports. For pressure, temporarily block outlets.

