

I-2000 Isolator Diaphragm Replacement Procedure

Recommended Tools: I-2000 height adjustment wrenches, ratchet and socket set, flat head screwdriver, snap ring pliers, safety glasses, gloves.

Safety Notes: Before starting, make sure that the air pressure is completely exhausted. Safety glasses and gloves are also recommended.



1. Safely support table and remove isolator from under the table.
2. Remove leveling valve.
3. Remove **support plate assembly** by rotating it counter clockwise until it is fully unthreaded and can be removed (you may need the height adjustment wrenches here).
4. Remove **snap ring**, plastic **cowling**, and **centering guide**.
5. Remove (12) nuts from **outer clamp** using a 10mm socket. Remove outer clamp.
6. Remove (6) nuts from **inner clamp**. Remove **inner clamp**. Use a screwdriver to pry the clamp off if it is sticking due to the oil.
7. Lubricate the top and bottom edge of new **diaphragm**. (Dow Corning 55 O-ring lube or equivalent).
8. Replace **diaphragm** (Newport p/n 25250-01), centering it on the **piston assembly**. Tighten the inner clamp ring while holding the piston assembly.
9. Install piston assembly into tank and verify that it is centered.
10. Replace **outer clamp**, using a star pattern when tightening to ensure the diaphragm seats evenly. Torque the nuts to 9 ft-lbs.
11. Replace **centering guide**, **snap ring**, and plastic **cowling**.
12. Replace **support plate assembly** by rotating it clockwise until the plate is at desired height.
13. Pressure test the isolator by applying approximately 40psi for about 5 minutes. Check for air leaks.

