COMPRESSOR DESICCANT CARTRIDGE (OSPREY/AERAS)

SAFETY INFORMATION (READ BEFORE STARTING ASSEMBLY)

NOTE: *The use of personal protective equipment is recommended.*

⚠WARNING To prevent any chance of electrical shock, always disconnect power when indicated.

TOOLS NEEDED

- 1/4" Socket or Wrench
- 1/2" Socket or Wrench
- Loctite® 243™
- Calipers

REMOVAL/INSTALLATION

1. If replacing desiccant cartridges on an Osprey compressor, continue to step 4.
2. If replacing desiccant cartridges on an Aeras® compressor, on the Aeras control panel LCD display, go to the Technical screen and press *MAINTENANCE MODE (FIG 1)*.

NOTE: *Turning on maintenance mode disables remote switching and puts the system in standby mode.*

3. Toggle Aeras control power switch to the **OFF** position *(FIG 2)*.
4. Turn power **OFF** at the disconnect box or breaker.
5. Close the shut-off valve on pressure manifold *(FIG 3A)*.

⚠CAUTION Bleed air from system before servicing. Some activities, such as opening the safety pressure relief valve, may create excessive sound levels that could damage hearing. Hearing protection is recommended during service of this device.

6. Completely drain tank:
   - Recommended: Carefully open petcock on bottom of tank *(FIG 3B)*.
   - Optional: Pull ring on safety pressure relief valve *(FIG 3A)*.

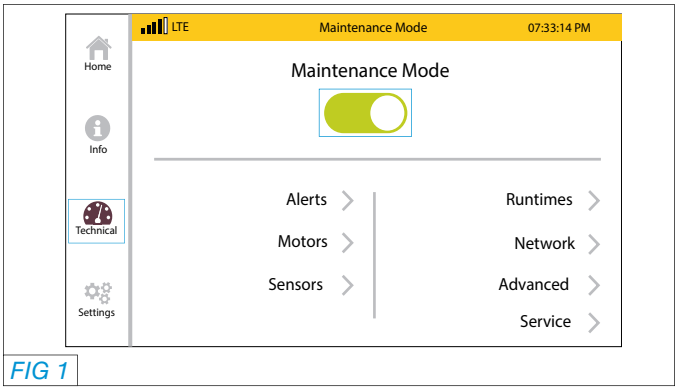


FIG 1

FIG 2

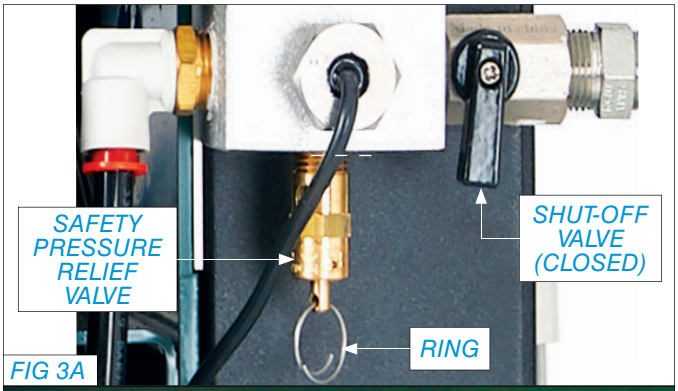


FIG 3A

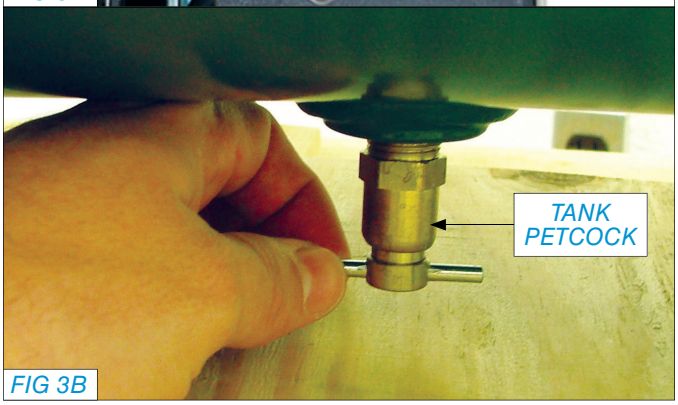


FIG 3B

COMPRESSOR DESICCANT CARTRIDGE (OSPREY/AERAS)

NOTE: *Retain all removed hardware for reinstallation.*

7. Disconnect hose from “OUTLET” fitting on top backside of the dryer assembly *(FIG 4)*.

8. Detach dryer assembly from dryer upper bracket. Use a 1/4" socket or wrench to remove #8-32 hex washer head screw(s) and lock washer(s).

NOTE: *Number of screws/washers depends on compressor configuration (FIG 4)*.

9. Use 1/2" socket or wrench to remove nyloc nut, then remove top block assembly *(FIG 5, A-B)*.

10. Remove old desiccant cartridges and install new cartridges.

NOTE: *“T” is engraved onto each desiccant cartridge indicating top end. If “T” is not present, use caliper to measure depth of filtering material from end ports. End with ~2"(greater for Osprey 28/Aeras C11 models) will indicate top (FIG 6).*

11. Orient new cartridges so that “T” faces inward toward the tank.

12. Reinstall top block assembly to cartridges using retained nyloc nut.

NOTE: *Clean male threads of #8-32 screws and apply Loctite 243 to threads prior to reinstall.*

13. Reinstall top of dryer assembly to dryer upper bracket using retained #8-32 hex washer head screws and lock washers.

14. Reconnect hose to “OUTLET” fitting.

15. Close tank petcock.

16. Open shut-off valve.

17. Turn power **ON** at the disconnect box or breaker.

18. Toggle Aeras control power swtich to the **ON** position.

19. Cycle compressor to test for proper function.

20. Osprey desiccant cartrige replacement is complete. Continue to step 21 to complete Aeras installation.

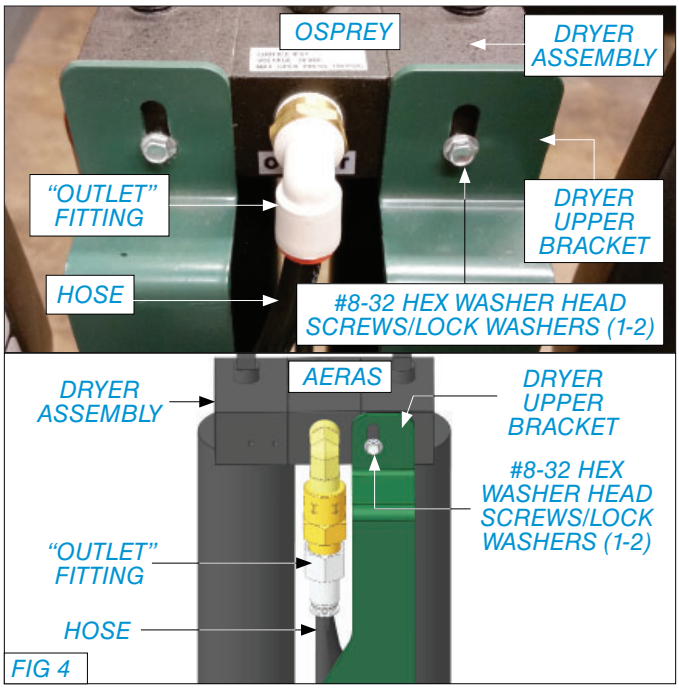


FIG 4

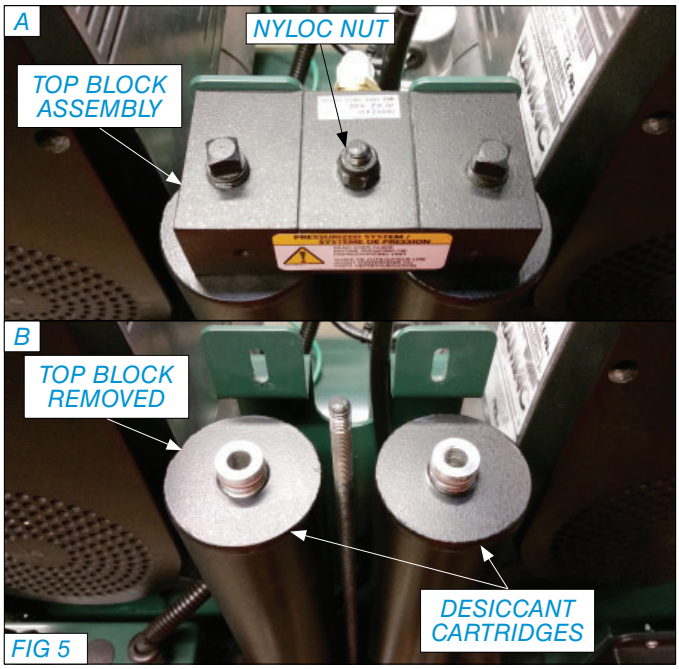


FIG 5

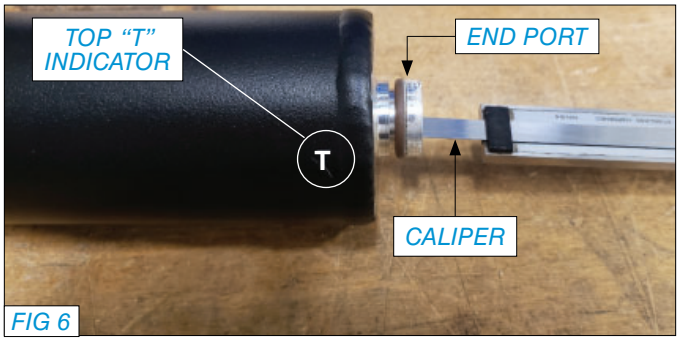


FIG 6

21. Update desiccant cartridge service record *(FIG 7, A-E)*.

    a. On the Technical screen, press *SERVICE>*.

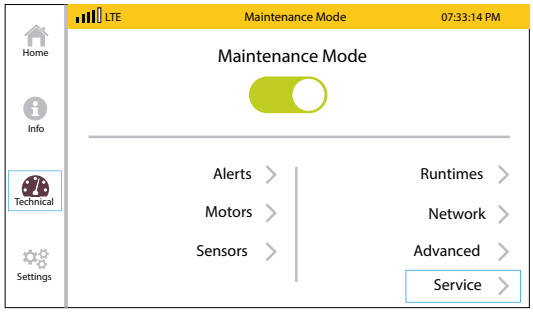
    b. On the Service screen, press *DESICCANT CARTRIDGE*.

    c. On the Desiccant Cartridge screen, press *REPLACE,* then press *OK* on the pop-up dialogue box. Press *<TECHNICAL*.

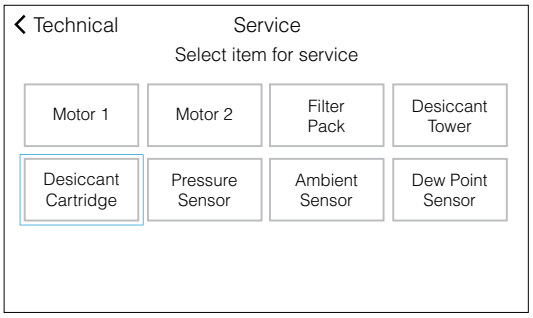
    d. On the Technical screen, press and disable *MAINTENANCE MODE*. Press *NO* on the pop-up dialogue box.

    NOTE: *Turning OFF maintenance mode enables remote switching, but does not return the system to ON mode.*

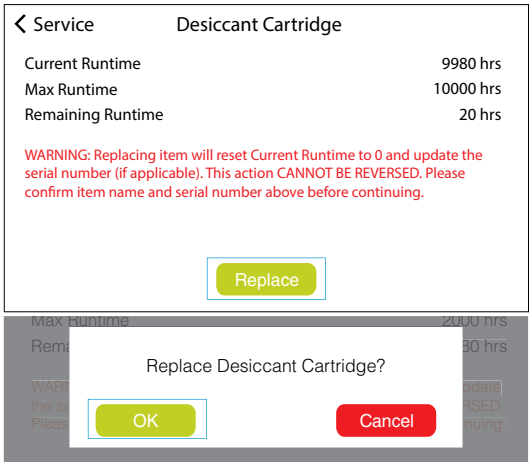
    e. On the Home screen, press *STANDBY* to turn the system ON.



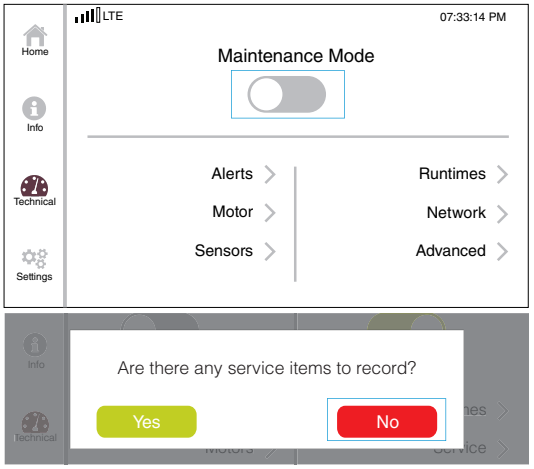
A. PRESS SERVICE>



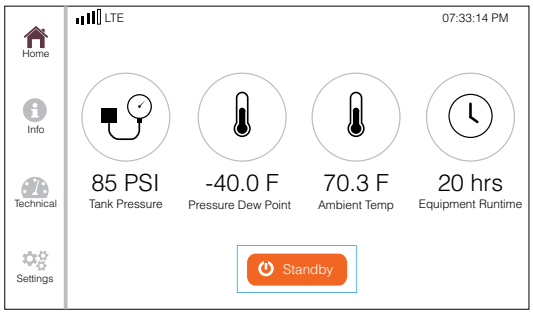
B. PRESS DESSICANT CARTRIDGE



C. PRESS REPLACE, THEN PRESS OK. PRESS <TECHNICAL



D. PRESS MAINTENANCE MODE, THEN PRESS NO



E. PRESS STANDBY

FIG 7