

# ALITA AIR PUMP MAINTENANCE INSTRUCTION

Periodic pump maintenance is required for reliable continuous operation. Any maintenance of the pump other than those described within this manual must be performed by an authorized service facility.

**CAUTION:** Always turn off the power and unplug from electrical terminal before any maintenance. Failure to observe this precaution can result in serious accident.

## AIR FILTER

Air filter pad under the filter cover should be cleaned every 3 to 6 months. Wash the filter pad gently in mild, soapy water then rinse thoroughly. Allow filter pad to dry completely before reinstalling.

## DIAPHRAGM MODULES

Diaphragm module replacement is typically recommended for every 24 months of operation. However, replacement cycle may differ from application to application, it is prudent to perform the replacement before any actual diaphragm failure.

Replacement Procedure:

1. Set pump upside down, unscrew and remove all corner screws. Then return pump to upright position and lift away upper housing.
2. Detach the L-tube from discharge port of each diaphragm housing.
3. Select a diaphragm housing, remove its 4 corner screws, then pull housing away. Proceed to remove the hex nut and washer from center of the diaphragm then pull and slide the entire diaphragm block away from magnetic rod and core frame.
4. Select a new diaphragm block from the DRK, align with core frame and magnetic rod then slide over the rod screw. Secure assembly firmly with washer and hex nut.
5. Apply 1 to 2 drops of threadlocker between the hex nut and protruded rod screw. Use only removable grade threadlocker. Do not use permanent threadlocker or any oil based adhesives.
6. Install new diaphragm housing and secure with 4 corner screws.
7. Attach L-tube to the discharge port of the new diaphragm housing and secure with silicone band or wire hose clamp.
8. Repeat step #3 through #7 to replace diaphragm module on the other side.
9. Inspect the position of magnetic rod from the top. Confirm that the magnetic rod is centered between and NOT in contact with either of two electromagnets.
10. Install upper housing, and secure firmly with all corner screws.

## MAGNETIC ROD

Magnetic Rod between the two diaphragms may get damaged if diaphragm failure has already occurred. If the magnetic rod has suffer damages, order a new magnetic rod along with the diaphragm replacement kit.

In case of unusual noise or odor from the pump, turn off the power immediately, consult the maintenance guide, or contact your nearest pump representative or Alita service department for assistance.

Assembly Diagram for Models AL-40/60/80

