

AIR PUMP MAINTENANCE INSTRUCTIONS

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.

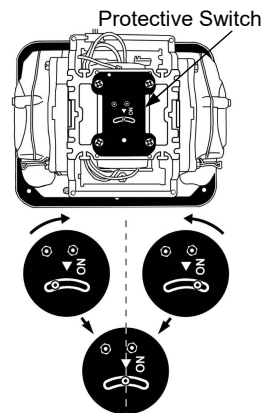
Air Filter pad should be cleaned every 6 to 12 months. Wash the filter gently in mild, soapy water then rinse thoroughly. Allow filter to dry completely before reinstalling.

Magnetic Rod (Bar) must be replaced if any magnet or frame is fractured, or if any of its threaded rod screw on either end is worn. Do not make do with unstable, insecure assembly, obtain the replacement magnetic bar before proceeding with diaphragm module replacement.

CAUTION: Always turn off the power before any pump inspection. Failure to observe this precaution can result in serious accident.

Replacement Procedure

1. Remove Filter Cover, set pump upside-down and unscrew all corner and side screws (6x) from pump base. Return pump upright and lift away Upper Pump Housing.
2. Unclamp L-tube (rubber elbow) on discharge port of each Diaphragm Housing. Gently insert a small dull flat bladed screw driver under the rubber tube to uncouple any bond with the discharge port before detaching.
3. Select a Diaphragm Housing on the pump, remove its 4 corner screws then pull away the housing. Proceed to remove the Hex Nut from center of the Diaphragm then slide the entire Diaphragm Block away from Magnetic Rod and Core Frame.
4. Select a new Diaphragm Block from DRK, verify Diaphragm is firmly embedded into the groove of Diaphragm Frame, then orient the block to match with opening on Core Frame and secure to Magnetic Rod with new washer and hex nut.
5. 1 or 2 drops of threadlocker (removable grade only) can be applied over the hex nut and the exposed thread of magnetic rod screw.
6. Install/mount new Diaphragm Housing and secure with 4 corner screws. Be sure the diaphragm rim sit into the grove of diaphragm housing.
7. Re-install L-tube to discharge port and secure with clamp.
8. Repeat procedure #3 through #7 to replace old diaphragm module on the other side of pump.
9. Inspect the position of Magnetic Rod from the top. Confirm that the Magnetic Rod is centered between and NOT in contact with the two Electromagnets.
10. Check and align Protective Switch (slider) on top of the Core Frame, set switch to ON position.
11. Install Upper Pump Housing, and secure to pump firmly with all corner screws. Reinstall Filter Cover. Perform a test run before returning to operation.



Assembly Diagram for Models AL-100/120/150/200/250E

