Periodic Maintenance EL series

M WARNING

○ Always disconnect the power before servicing. Failure to do so could result in electrical shock, personal injury or death.

○ Clean the filter element quarterly. A clogged filter element can cause overheating or pump failure.

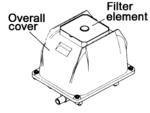
1 Filter element cleaning

- Undo the truss head screw and remove the filter cover (Ref: Fig 1-A.)
- Remove the filter element and shake out the dust by hand.
 (Ref: Fig 1-B) If it is heavily clogged, wash it with a neutral detergent. Rinse with water and dry it in the shade.
- Reassemble the filter element back in place and press in the filter cover.
- \bigcirc Fix the filter cover by the truss head screw.

2 Replacement of filter element, valve box, diaphragm

- \bigcirc Replace the filter element following the procedure in 1. Filter element cleaning.
- Undo the four corner bolts and remove the overall cover. In case the overall cover is hard to remove, insert a slotted screwdriver in (A). (Ref: Fig 1-C)
- Remove the shock absorber. Undo the screws (B) and remove the holder cover. (Ref: Fig 1-D)







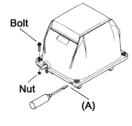


Fig 1-C

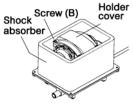


Fig 1-D

- Insert the magnet support jig in four corners between the magnet and the core (Ref: Fig 1-E,F).
- Undo the screw (C) and remove the valve box of one side, pinching the hose band (Ref: Fig 1-G).
- Undo (D) and remove the diaphragm holder and diaphragm. (Ref: Fig 1-H)

Note:

(D) of EL-60, EL-80-15, EL-120W: Nut (D) of EL-80-17, EL-100, EL-150, EL-200: Bolt

 Set the new diaphragm holder and diaphragm to the magnet and fix them by (D). (Ref: Fig 1-H)

Note:

Use the new nut or bolt (D) in the repair kit. Note the locating notch for reassembly. (Ref:Fig.1-I)

- Set the new valve box and fasten it with the four corner screws (C) (Ref:Fig.1-G).
- Replace the valve box, diaphragm holder and diaphragm of the other side in the same way.
- Pull out the magnet support jig (Ref:Fig.1-E,F).
- Make sure that clearance between the magnet and the solenoid of both sides is even.
- Connect the exhaust port of the valve box with the connecting pipe and tighten it with the hose band securely (Ref:Fig.1-G).
- Reset the auto-stopper, if necessary. (Ref:3 Reset of autostopper.
- \bigcirc Connect power and confirm the operation.
- Fasten the holder cover with the four corner screws (B) and put the shock absorber back into place (Ref:Fig.1-D).
- Put the overall cover, inserting the power cord rubber bush into the locating notch of the overall cover. (Ref:1-J).
- $\bigcirc\,$ Fasten the overall cover securely by nuts and bolts.

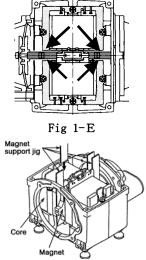
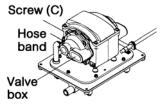
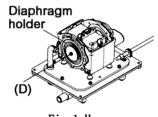


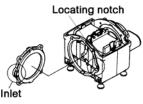
Fig 1-F













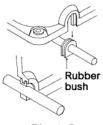


Fig 1-J





○ Do not touch the live parts. Touching live parts will result in electric shock.

○ Improper setting of the rubber bush can result in electric shock, airleakage.

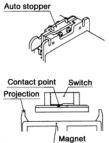
3 Reset of Autostopper

 Disconnect power before servicing.
 Do not touch the terminal of the switch. If hazard is ignored, electric shock is possible.
 If not disconnected, the magnet starts moving upon reset of auto stopper. Personal injury is possible.

If the diaphragm is broken, the magnet reciprocates with abnormal amplitude and the projection hits the slider. The contact is interrupted and power is switched off. (Ref:Fig.2-A)

 \bigcirc Insert a slotted screwdriver and push the slider.

 Set the slider at the position L1=L2. (Ref: Fig. 2-B)







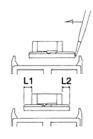


Fig. 2-