

# KLC Series Repair Kit Instructions



Your kit includes two each of diaphragms, diaphragm housings, washers and locknuts to return your air pump back to proper performance. Repair kit contents may vary depending on your compressor.

- Disconnect the unit from the outlet and remove any air hoses
- Place hardware and screws in order that they are removed
- Replace one side complete, then the other

 **WARNING:** Electrical shock hazard. Disconnect electrical supply before performing maintenance. Failure to follow these instructions may result in death, fire or electrical shock.



**WARNING:** Injury hazard. Product surfaces become very hot during operation, allow surfaces to cool before handling.



**WARNING:** Do not use oil to lubricate parts. KLC compressors use an oil less design. Using oil may result in failure of the unit.

## Before beginning you will need:

1. #2 & #3 Phillips screwdriver
2. 5.5 and 8 mm socket wrench or adjustable wrench
3. Flat head screwdriver
4. Clean work space



- 1.** Remove the lid by removing the top filter cover and filter pad with #3 Phillips screw driver. KLC25 n/a skip to step 2, KLC100/120 thumb screw.



- 2.** Clean filter pad with compressed air or with water. Must be completely dry before re-use.



- 3.** Turn unit upside down and remove four screws with either 8 mm nut driver/socket wrench (preferred) or #2 Phillips screwdriver.



- 4.** Return to upright position and carefully remove housing.



- 5.** Repair one side at a time. Slide pinch clamp down the L-tube and remove top of L-tube from diaphragm outlet.

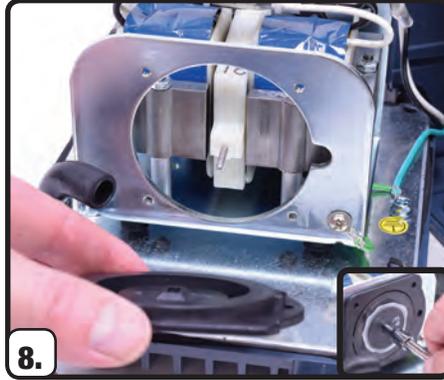


- 6.** Remove the four screws from the plastic diaphragm housing with #2 Phillips screw driver.

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7. Remove diaphragm frame, may need flat head screw driver to separate from unit - note orientation for proper installation of new one (step 8).



8. Unthread the 5.5 mm nut and remove the diaphragm from magnet. Note orientation of old diaphragm for proper installation of new one.



9. Line up new diaphragm to match how old one came off. Match up to notch on motor housing.

At this point be sure to inspect magnet and replace if it looks worn or melted (rare item to replace), excess dust in the motor area may indicate the magnet may need to be replaced.



10. Secure diaphragm to magnet with new washer and nut. Push the magnet from behind to help tighten the nut to the magnet. Be sure to get tight. A drop of Blue/Removable Loctite® may be used.

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11. To install new diaphragm outlet cover, be sure to properly align holes and hold tightly while securing with screws. Gradually tighten screws around the assembly until evenly tight to unit.



12. Reattach L-tube and secure with existing pinch clamp.



13. Repeat process on other side and reassemble housing, completely dried/cleaned filter and lid.