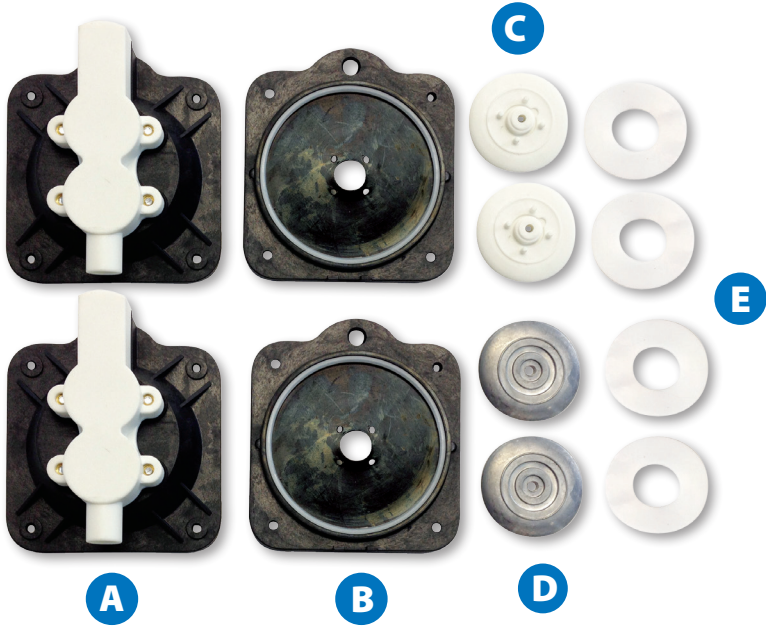
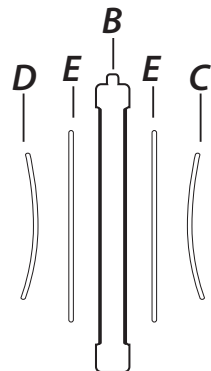


**INSTALLATION INSTRUCTIONS**



**What's Included:**

- A** 2 Outer Diaphragms
- B** 2 Inner Diaphragms
- C** 2 Diaphragm Front Boards
- D** 2 Diaphragm Backs Boards
- E** 4 Protective Washers



*Diaphragm Assembly*



Watch the installation video at [airmaxeco.com/InstallLR50](http://airmaxeco.com/InstallLR50)

## Tools Required:

- Phillips Screwdriver
- Flat Head Screwdriver
- 7mm Nut Driver
- Small Pick Tool



## Installation of your LR50 Compressor Maintenance Kit

**Warning:** Always unplug the unit before any maintenance.

### Step 1

Flip the compressor upside down. Use a Phillips screwdriver to remove the four screws holding down the compressor cover. Save the screws and lock washers.



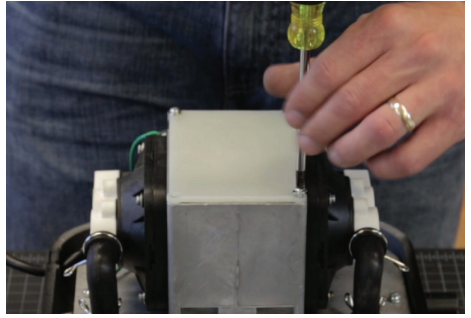
### Step 2

Use a flat head screwdriver to loosen the seal of the gasket on the top compressor cover. Gently pull up on the bottom of the compressor to separate. Flip the whole unit over and remove the compressor cover and set to the side.



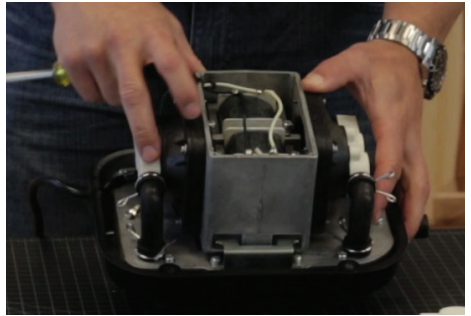
## Step 3

Use a Phillips screwdriver to remove the four screws on the top cover plate. Make sure to save the lock washers on the screws.



## Step 4

Remove the cover and set to the side. Inspect for any dust or wear on the inside of the unit.



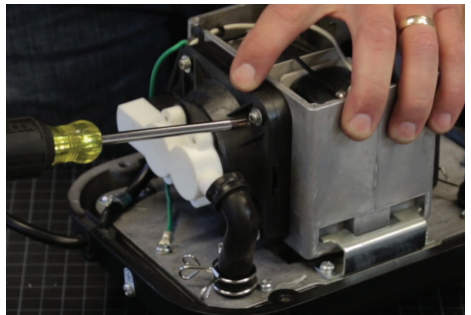
## Step 5

Pinch the spring clamp to remove the rubber boot attached to the outer diaphragm.



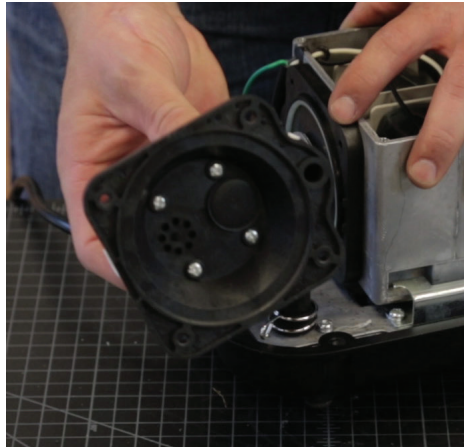
## Step 6

Use a Phillips screwdriver to remove the four screws holding the outer diaphragm into place. Make sure to keep both the flat washer and lock washer with each of the four screws.



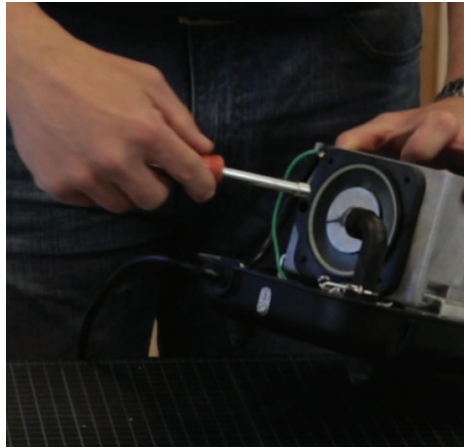
## Step 7

Remove the outer diaphragm and discard.



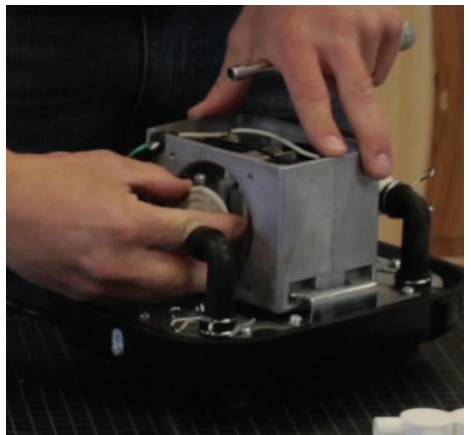
## Step 8

Use a 7mm nut driver to remove the nut on the inner diaphragm. Make sure to keep the nut and lock washer. Remove and discard the diaphragm backboard followed by the inner diaphragm.



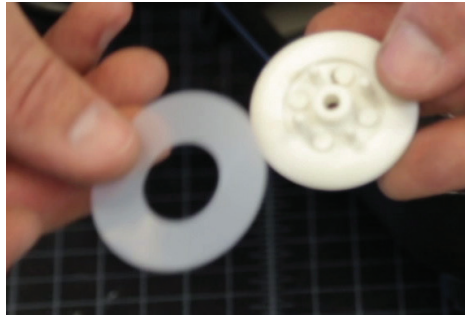
## Step 9

Remove and discard the diaphragm front board.



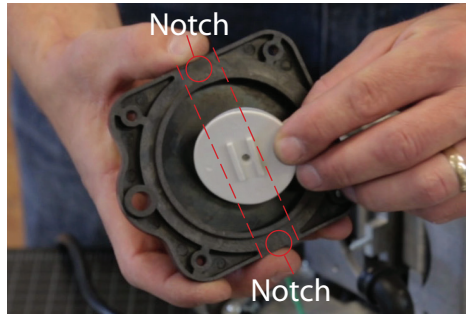
## Step 10

Apply the protective washer on top of the diaphragm front board. The diaphragm front board is the one with four pegs.



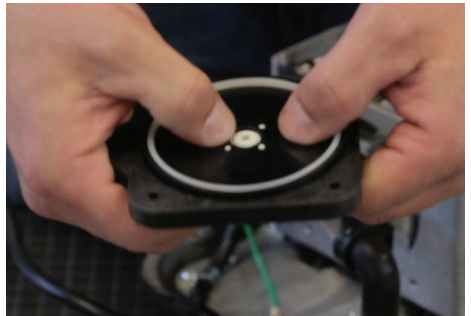
## Step 11

Align the four pegs up with the four holes inside the inner diaphragm. Align the two lines on the front board to be pointing to the notches on the inner diaphragm.



## Step 12

Push the front board firmly into place and make sure the pegs come through evenly on the reverse side of the inner diaphragm.



## Step 13

Install the inner diaphragm into the armature with the two lines on the front board being vertical.



## Step 14

Install the 2<sup>nd</sup> protective washer onto the diaphragm followed by the diaphragm backboard. The backboard should be installed with the curved side facing inward. It can be helpful to tilt the compressor to keep the washer and diaphragm backboard in place. Make sure the protective washer is installed evenly between the diaphragm backboard and the diaphragm.



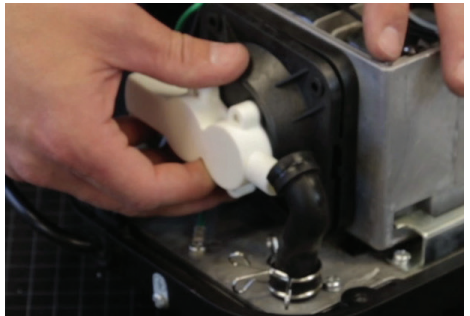
## Step 15

Install the lock washer and nut. Use the 7mm nut driver to securely tighten the nut.



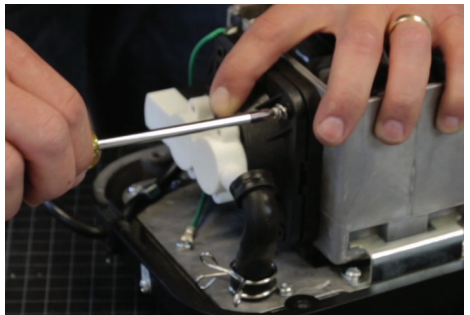
## Step 16

Reinstall the outer diaphragm. Align the diaphragm intake to point towards the rubber boot.



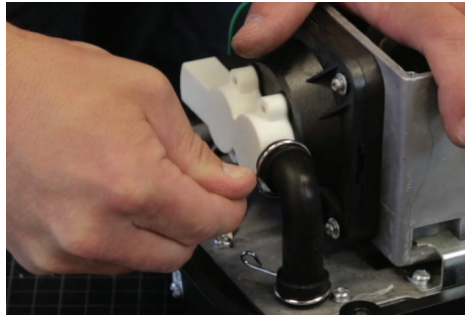
## Step 17

Reuse the four screws that you removed from earlier to secure the outer diaphragm into place. Pre-start the top two screws first with a Phillips screwdriver. This will help make it easier when installing the bottom two screws. Securely tighten all four screws evenly to ensure a proper seal.



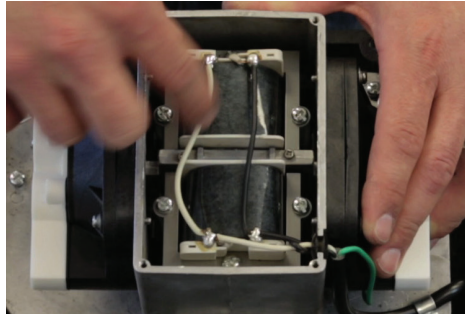
## Step 18

Reinstall the rubber hose and spring clamp. Now that this side is complete, repeat steps 5 thru 17 for the 2<sup>nd</sup> diaphragm before moving on to Step 19.



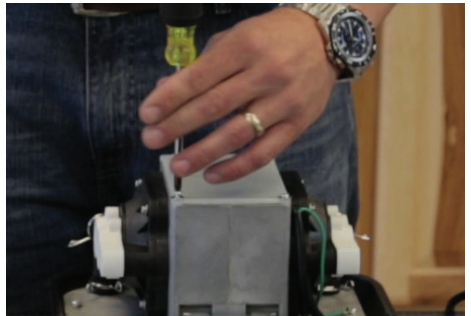
## Step 19

After completing both diaphragms, double check to make sure you have proper alignment between the two stators.



## Step 20

Reinstall the diaphragm top plate. Reinstall the four screws with washers to the top plate and securely tighten.



## Step 21

Reinstall the compressor cover. Flip the entire compressor upside down and secure using the four screws with washers. Tighten down firmly to complete the installation.

Once complete, we recommend to change the compressor air filter. See instructions on pg. 8.



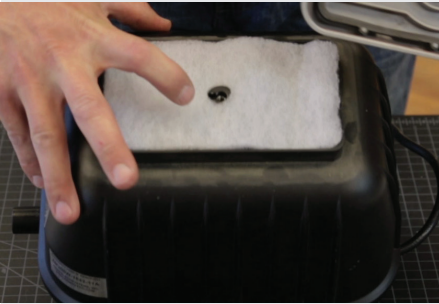
# Changing the Air Filter:



**Step 1** Unscrew and remove the lock nut and remove the top cover.



**Step 2** Remove the old air filter and install a new one.



**Step 3** Reinstall the top cover. Make sure the notch in the top cover lines up with the notch on top of the compressor.



**Step 4** Reinstall the lock nut.

## THANK YOU FOR CHOOSING:

**Airmax<sup>®</sup>, Inc.**  
Safe, Simple Solutions<sup>™</sup>

P.O. Box 38  
Romeo, MI 48065

866-424-7629  
[www.airmaxeco.com](http://www.airmaxeco.com)