

REBUILDING BELLOWS ON MINIPACK MVS VACUUM MACHINES

Why Replace When You Can Rebuild the Bellows on Your MVS Vacuum Machine?

If it is time to replace the Bellows on your MVS Vacuum machine, consider what you can save by rebuilding the Bellows. Bellow Rebuilding Kits are now available for the MVS Tabletop and Free Standing Series Vacuum machines listed in the Model section of this eTECH bulletin.

Possible Issues:

The Sealing Bar on my MVS Vacuum machine has one of the following symptoms:

- Loss of continuity
- Loss of bag vacuum
- Inconsistent sloppy seal
- Raises unevenly
- Lacks contact with Red Lid Striker

Possible Solution:

Try rebuilding the Bellows on your MVS Vacuum machine by ordering a Bellow Kit, Part #ME450RBL.

** In the case of extreme corrosion on the entire Bellows Body, the whole assembly should be replaced.*

To order parts or for further questions, please contact
Doug Care Equipment, Inc., PO Box 1058, Springville, CA 93265
559-539-3076
Email: doug@dougcare.com



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Bellows

MODELS

MVS: 26 Series, 31 Series, 35 Series, 41 Series, 45 Series, 50 Series, 52 Series, and 65 Series

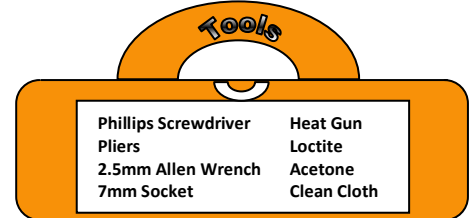
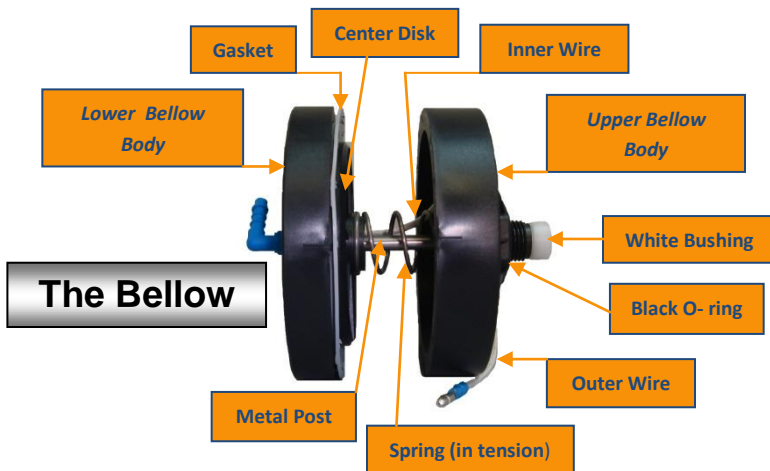
Quick Tips:

Moisture working its way into the Bellows is what can create the majority of issues that lead to Bellows replacement. Using a liquid tray can prevent these issues from occurring and decrease oil contamination. **Order a Liquid Tray today to prevent Bellow Issues.**



Rebuilding the Bellow

MVS MODELS: 26 Series, 31 Series, 35 Series, 41 Series, 45 Series, 50 Series, 52 Series, and 65 Series



Step 1

**Estimated Bellow Removal and Rebuild time: 1.5 hrs per Seal Bar
(We recommend rebuilding all Bellows per Seal Bar at the same time)*

STEP 1: Remove Bellow

- Disconnect vacuum hose and electrical transformer from bottom of the Bellow and remove the locking nut inside the chamber that holds the Bellow in place.

STEP 2: Disassemble Bellow

- Use **Pliers** or vice grip to tightly grip steel post against the white bushing to keep spring inside from releasing too fast.
*** Caution: Spring is in tension**
- With a **Phillips Screwdriver** carefully remove all (8) Screws that hold the upper and lower body of the Bellow together.
- Slowly separate the two bodies from each other, and remove spring between them.
- Remove old Bellow Gasket. Use a **Clean Cloth** and **Acetone** to clean all parts of the Bellows.



Step 2a & 2b



Step 2c

STEP 3: Reassemble Bellow

- Replace Gasket**
Align the holes of new gasket with notches on Lower Bellow Body.



Step 3a

STEP 3: Reassemble Bellow (continued)

b. Replacing the Inner Wire

1. Loosen thread locker by using **Heat Gun** to heat bottom section of Metal Post on Center Disk.
2. Grip the Metal Post on the bottom side of Center Disk with **Pliers**. Use **2.5mm Allen Wrench** to loosen and remove screw on back side of disk. Remove old Inner Wire and replace with new Inner wire.
3. Install Metal Post on Disk by applying some **Loctite** on half of the screw (section closest to screw head). Tighten screw as much as possible.
4. Use the **7mm Socket** to loosen and remove screw on Upper Bellow Body. This will also remove the locking Nuts and Washer on top of Upper Bellow Body. Replace wire and re-apply locking nuts.

** Apply washers/nuts in this order from Bellows piece up: locking washer, locking nut, wire, locking washer, locking nut as in Photo 3b-4 below*



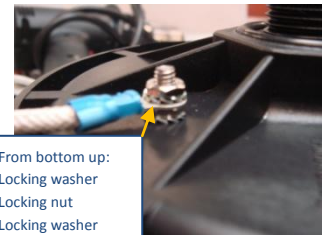
Step 3b-1



Step 3b-2



Step 3b-4



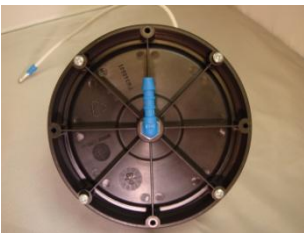
From bottom up:
Locking washer
Locking nut
Locking washer
Locking nut

Step 3b-4

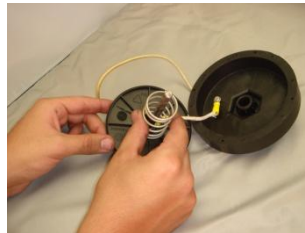
c. Assemble Bellow Body

1. Set 4 screws into Lower Bellows Piece in "x" formation ready to be inserted into Upper Bellow Body (photo).
2. Set coil on Metal Post. Insert metal post into Upper Bellow Body, and white bushing on top over Metal Post.
3. Push Center Disk upwards and tightly clamp metal post against White Bushing with **Pliers** to keep spring tight.
4. Connect Upper and Lower Bellow Bodies together by carefully aligning marker strips located on their sides, and quickly screwing in the 4 screws. Insert other 4 screws and tighten.

**Apply 10 ft lbs of pressure on locking nuts when installing Bellow back into chamber of machine.*



Step 3c-1



Step 3c-2



Step 3c-2



Step 3c-3



Step 3c-4



Step 3c-4

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