

Instructions for replacing the vacuum blower motor shaft seal (for Motor Part Number 730425)

Note: this process does not require disassembling the motor (separating the motor stator from the motor housing) as with previous motors (730154 and 730352). In fact, disassembling the motor will do nothing to enable servicing the shaft seal.

1. Before taking anything apart, clean the blower assembly, particularly around the motor and hydraulic connections. Use compressed air and cleaning solvent if possible to remove all dirt and residue.
2. Remove the bolts around the perimeter of the blower housing and remove housing cover.



3. Remove the nut clamping the impeller to the motor shaft.



4. Loosen and remove the hydraulic fittings connected to the motor. Plug hoses if possible to prevent dirt from getting in. Make sure you know which hose goes where when you're ready to reinstall.

5. The motor can be separated from the impeller by either of the following techniques:
Option A: Use the 3/8-16 threaded holes and a puller to pull the impeller off the motor shaft.
This device can also easily be made



Option B: Loosen the nuts attaching the motor to the housing.



Have an assistant pry on the impeller while you tap on the motor shaft to break free the impeller from the motor shaft. Be careful not to damage the motor shaft threads as you tap.



6. Once the impeller breaks free, remove the motor completely from the assembly and take to a clean work area. It is very important to work in a clean work area when repairing hydraulic

products. Plug ports and wash exterior of motor with a proper cleaning solvent before continuing.

7. Use a snap ring pliers to remove the retaining ring in front of the seal.

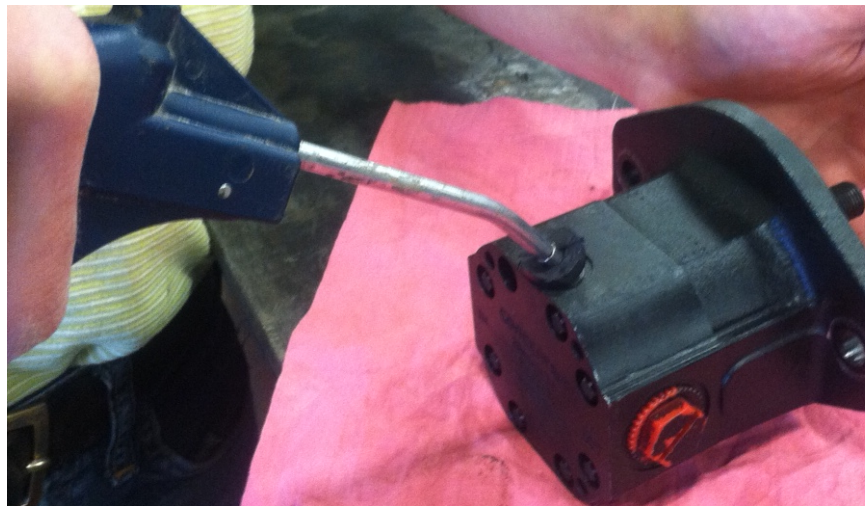


8. The seal can be removed by either of the following techniques:

Option A: Use a compressed air nozzle to apply air pressure in the case drain port. The seal should “pop” out under relatively low pressure.

Safety Recommendations:

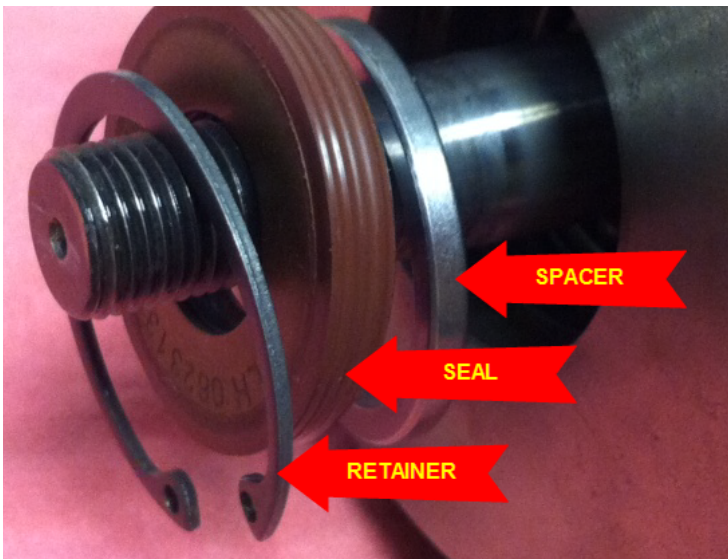
- Use one hand, a box, or another container to catch the seal (and potentially the spacer if it comes out as well.)
- Be careful as the seal and/or spacer ring may become projectiles and could become lost or cause injury if not captured properly.
- A rubber tip nozzle is preferred as this will create a better seal around the case drain port thus applying more pressure to the seal to release it. It will also reduce the tendency for oil to splash out of the case drain port.
- Wear safety glasses to protect your eyes from oil splash or surprise projectiles.



Option B: Use sheetmetal screws to pry the seal out. Thread one or two screws into the seal far enough so that the head can be used to pry against. **Be very careful to avoid allowing thread filings to enter into the motor cavity.**



9. The shaft seal can now be replaced.
10. Reassemble in the reverse order as disassembly. Make sure to reassemble the spacer in its proper place behind the seal.



11. When installing the impeller on the shaft, use a ratchet to tighten the nut as tightly as you are able without using any leverage to prevent the impeller from rotating.
12. Check to make sure all bolts and hydraulic hose fittings are tight.
13. Start blower slowly to make sure there are no leaks or issues with the assembly.