

6 cc Motor Seal Replacement Kit

Step 1

Before taking anything apart, clean the blower assembly—particularly around the motor and hydraulic connections. Use compressed air and cleaning solvent to remove all dirt and residue.

Note: A clean working area is vital when servicing hydraulic systems.

Step 2

Disconnect all hydraulic hoses going to the motor. Be sure to mark your Pressure, Return, and Case Drain lines for correct reinstallation. Plug the hydraulic lines to prevent dirt from getting into the system.

Step 3

Use a 1/2" socket to remove the seven (7) bolts around the perimeter of the blower housing. Remove the entire housing cover.



Figure 3

Step 4

Use a 3/4" socket to remove the nut that holds the impeller onto the motor shaft.

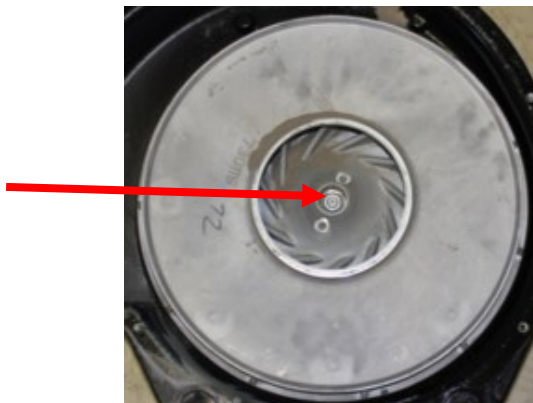


Figure 4

6 cc Motor Seal Replacement Kit

Step 5

Using a 9/16" wrench, *loosen* the nuts that hold the motor to the casing. Only loosen until two or three threads are showing on the top of the bolt.

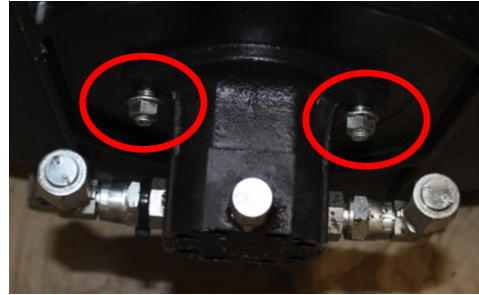


Figure 5

Step 6

Remove the impeller from the motor. This will require the assistance of a second person. You will need:

- Hammer
- Flat Faced Punch
- Pry Bar

Be careful not to damage the motor threads. Insert the pry bar behind the impeller for full leverage. It is critical to use a flat faced punch to avoid damage to the shaft.



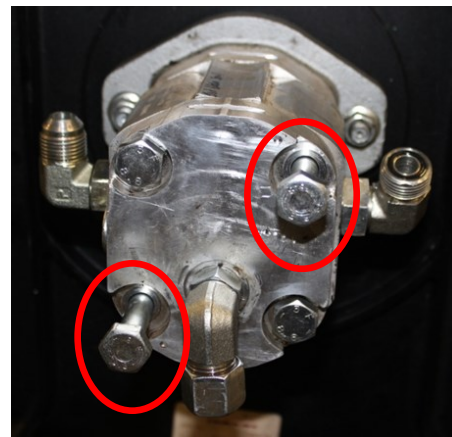
Figure 6

Step 7

Using a 9/16" wrench, *tighten* the nuts that hold the motor to the casing.

Step 8

Remove the two (2) screws with dimples next to them using a 17 mm socket and pull the motor cover from the body. On a standard install, the two screws to be removed are the upper right and lower left.



vSet[®] Motor Seal Replacement Kit

731242

Step 9

Separate the motor body from the motor mounting flange.

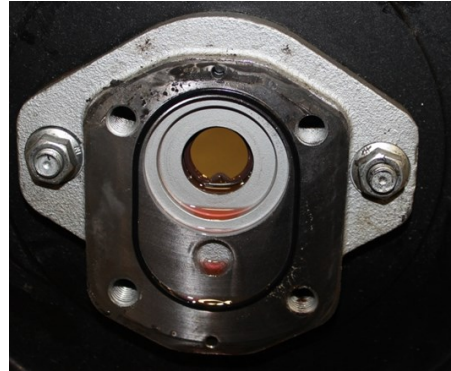


Figure 9

Step 10

Remove the snap ring, then the washer, and then the blown seal. To remove the seal, push it out with a 16 mm socket from the back side of the case. Do *NOT* damage the flange plate.



Figure 10a



Figure 10b

Step 11

Insert the new seal (731242) as shown in Figure 11a. Press in the seal making sure to keep it square to the seal pocket using a 22 mm socket as shown in Figure 11b. The seal should be inserted just far enough to position the washer and start the snap ring into the bore as shown in Figure 11c.



Figure 11a



Figure 11b

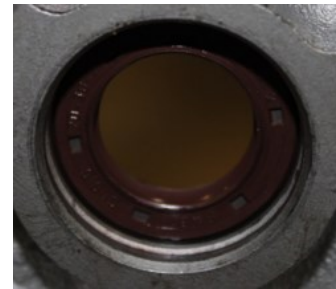


Figure 11c

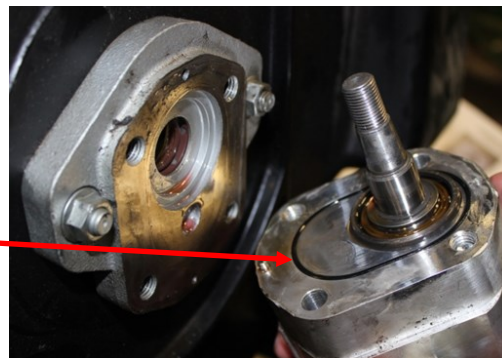
Motor Seal Replacement Kit

Step 12

Insert the washer and the snap ring (Figure 12a). Use a 22 mm socket to ensure the snap ring seats into the grooving. Press uniformly and flat to the housing (Figure 12b). Do not use more force than necessary to seat the snap ring. Too much force may cause the seal to fail upon start-up.

*Figure 12a**Figure 12b***Step 13**

Install the motor body onto the motor flange. Align the dowel pin on the motor body to the mating hole on the motor flange. Make sure the o-ring seal is seated firmly in the motor body and that the chamfer on the motor output shaft does not damage the motor shaft seal. Lubricate the seal with clean hydraulic oil and move the motor side to side when sliding it through the new seal.

**Step 14**

Insert the two screws that were removed in step 8. Tighten to 30—35 ft-lbs.

**Step 15**

Reattach all hydraulic fittings and ensure that they are tight. Start the blower to verify that there are no leaks or other issues with the new seal.