

COMPONENT REPLACEMENT

The following are procedures for servicing the major components of the Viper system.

BARREL MOTOR SEAL REPLACEMENT

The barrel motor seal is typically replaced during the semi-annual preventative maintenance procedure. The seal location is shown in Figure 40.

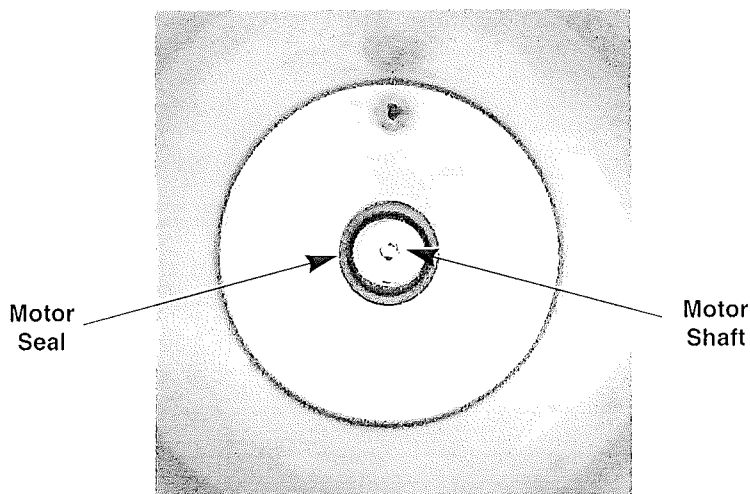


Figure 40. Front View Inside of Barrel w/ Faceplate off

Removing the Existing Seal

To remove the existing barrel seal, perform the procedure in Table 42.

Table 42

Step	Action
1.	Purge the barrel. See "Purging a Barrel" on page 35.
2	When purging is complete, disconnect power from the unit.
3	Open the relief valve on the front of the barrel to ensure that pressure is released. CAUTION: Barrel pressure MUST be relieved before removing the faceplate!
4	Remove the four (4) 3/4 in. nuts from the faceplate and slowly remove the faceplate from the unit.
5	Carefully pull the blade assembly out of the barrel.
6	Remove any remaining product from the barrel.
7	Rinse and inspect the blade assembly and barrel for signs of wear. (Replace if necessary)
8	Remove the seal and spacer from the rear of barrel.
9	When old seal and spacer are removed, use a clean soft cloth to clean between the motor shaft and the barrel to remove any remaining product.

Installing a New Seal

Perform the procedure in Table 43, Figure 41 and Figure 42 to replace the barrel seal with a new seal. When installing a new seal, **NEVER** use oil or silicon based lubricants. This can cause the new seal to rotate and **LEAK!**

Table 43

Step	Action
1	Remove the old seal and the spacer (see Table 42).
2	Remove the new seal from its packaging.
3	Clean the spacer.
4	Slide the spacer (with slots toward the motor housing) over the motor shaft.
5	Lubricate the inside of the seal using Dow Corning 111 Lubricant and Sealant. (Note, Do not lubricate the static side(outer portion) of the seal. This could cause the seal to rotate in the bore and leak.)
6	Carefully slide the seal over the motor shaft and press it firmly until is fully seated against the spacer and the seal cannot be pushed any further.
7	Run your finger around the perimeter of the seal to insure it is flush against the back of the barrel.
8	Reinstall the blade assembly. Rotate the assembly while inserting it to insure that it is fully seated on the motor shaft. (Figure 30)
9	Lubricate the faceplate o-ring.
10	Re-install the faceplate and replace the four (4) mounting nuts. Hand tighten the nuts until the faceplate makes contact with the gasket, then use a wrench to tighten the nuts an additional 1/4 turn. Be careful not to overtighten the nuts or cracking of the faceplate may result.
11	Clean the drip tray and tube using warm water.
12	Perform the seal leak test in Table 44.

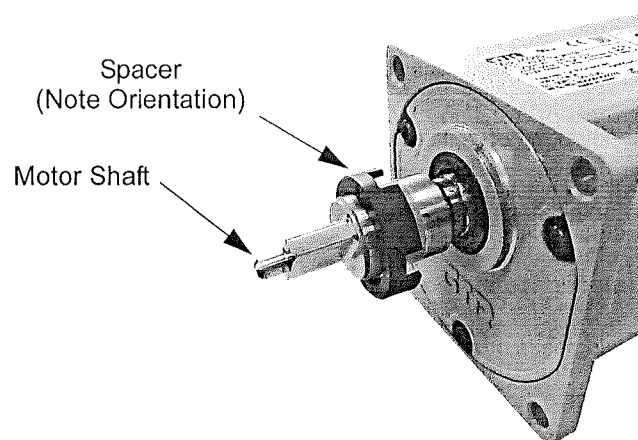


Figure 41. View of Motor Shaft with Spacer on Shaft

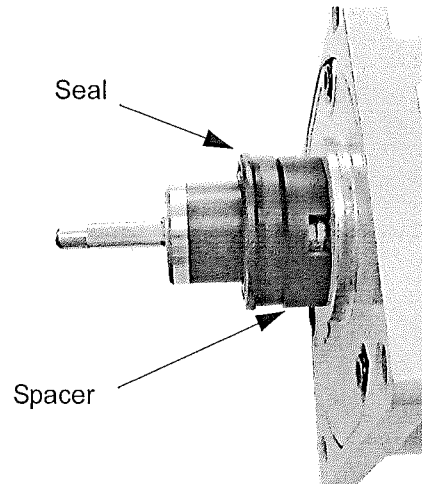


Figure 42. Side View of Seal and Spacer on Motor Shaft

Motor Seal Leak Test

After replacing the motor seal, it is advisable to test the seal under pressure before refilling the barrel with product. Perform the procedure in Table 44 to verify that the seal is installed properly and not leaking. When the seal passes the leak test, perform the motor calibration routine on page 41.

Table 44

Step	Action
1	Turn the 3-way Product Supply valve behind the splash panel (see Figure 31) to the Off (horizontal) position.
2	From the Maintenance menu, press the FILL button for the barrel. This pressurizes the barrel with CO ₂ .
3	Observe the water and syrup fill solenoids.
4	If there are NO seal leaks, these solenoids cycle off within a minute and remain off.
5	If the solenoids cycle off and remain off, the barrel seal is not leaking and the barrel is ready to be filled with product.
6	If the solenoids do not cycle off, or cycle off and on, the seal is leaking and the seal installation process described in Table 42 and Table 43 must be repeated.
7	If there are no leaks, turn the 3-way Product Supply valve to the BRIX position.

BARREL MOTOR REPLACEMENT

The barrel motor does not require any special alignment when being replaced. It mounts on four (4) bolts. These bolts are screwed into threaded bosses in the foam pack barrel assembly, as shown in Figure 43. To replace a barrel motor, perform the procedure in Table 45.