



## Troubleshooting tips

**Problem:** *WON'T CREATE A VACUUM*

**Solution(s):** *After each step try again to create a vacuum. If unsuccessful, continue to next step.*

Step 1: Remove cap valve from tank. Twist valve a few times from open to closed positions. Twist to closed position. Attach cap valve to tank, making sure to insert the small gasket before screwing onto tank. Tighten as much as possible without using tools.

Step 2: Remove the pump assembly from tank. Reattach onto the tank making sure to insert the large gasket making sure that it touches the rim of the tank, and *not* behind the silver flange of the pump assembly. Tighten as much as possible without using tools.

Step 3: Remove the pump assembly from tank. Examine the silver cup to make sure there is a black rubber tip extending through the center hole.

*No tip: the pump needs to be replaced (call us).*

*Yes, there is a tip: Test the pump by placing the silver end in the palm of one hand and drawing on the handle. You should feel suction against your palm.*

*Yes, there is suction:* reattach the pump onto the tank making sure to insert the large gasket making sure that it touches the rim of the tank, and *not* behind the silver flange of the pump assembly. Tighten as much as possible without using tools.

*No suction:* It is possible the leather cup inside the pump has dried and no longer makes flush contact with the steel tube of the pump.

Lubricate the leather by allowing a teaspoon of clean engine oil (any weight) to enter the pump by dribbling the oil down the steel rod. Move the handle back and forth several times to distribute the oil. Allow to stand vertically overnight with the handle end up.

**Problem:**     **WON'T HOLD A VACUUM**

**Solution:**     If your LiquiVac will not hold a vacuum air is leaking back into the tank. Check both gaskets for correct positioning and tightness as described above in steps 1 and 2. It may be possible to hear the air leaking at either opening of the tank. If you are able to identify which opening is leaking, and have sufficiently re-seated the gasket as tight as possible, and still cannot hold a vacuum, replace the failing gasket.

**Problem:**     **EXTRACTING OIL VERY SLOWLY**

**Solution(s):**    *Check the hose*  
Check the hose and straighten if there were any kinks

*Use larger hose*

Use a larger diameter hose instead of the white suction probe if the opening will accommodate this size hose.

*Warm the fluid you are extracting*

Thicker fluids flow easier when warm. If you are extracting engine oil, warm the engine to slightly warm the oil. We recommend warming up a cold small engine 1 to 2 minutes, and a cold large engine 2 to 3 minutes.

*Be careful not to heat the oil too much that it will collapse the hose.*

**Problem:**     **OIL CAME THROUGH THE HANDLE**

**Solution(s):**    Oil can only come out through the handle if oil got into the pump. This can occur in two ways, either the tank was tipped when it contained oil, or by hand pumping while the oil was being vacuumed. Oil in the pump will not harm the LiquiVac. Remove the pump from the tank and allow to rest vertically with the handle end down to drain the oil.

To avoid this in the future:

- do not overfill the tank.
- do not tip the tank.
- make sure the cap valve is in the closed position before pumping.