

### Rebuilt Thomas Vacuum Pump Instructions

The Project EVS vacuum press instructions show a Gast vacuum pump with a potentially different layout of the vacuum and exhaust ports than this Thomas pump. Follow these instructions and be sure to install the EVS parts based on the location of the vacuum port discussed below.



1. If there are barbed fittings already attached to any of the ports on the pump, please remove them. Do not remove any plastic pressure release plugs. When complete, there will be one open exhaust port and one open vacuum port on your pump.
2. Some of the rebuilt pumps have the ports configured as such that the exhaust and the vacuum ports are located on front and back side of the pump head. You can change this so that the ports are on the ends of the pump instead. In most cases, you simply need to move the plug located on the "A" port to the "C" port location and the "B" port plug to the "D" port location. A 1/4" hex wrench is all that is needed to do this.
3. Determine which open port is the exhaust and which is the vacuum by simply pressing your finger onto one of the open ports and gently rotating (in either direction) the cooling blade on the pump. If you feel pressure pulling on your finger tip, you know it's the vacuum port and therefore the other port must be the exhaust. If you feel pressure pushing on your finger tip, then that is the exhaust port and the other open port is for vacuum. The included exhaust muffler should be attached to the exhaust port.
4. The two power wires (120v AC) are blue and brown. The brown is hot and the blue is neutral. Most vacuum pumps do not have a ground wire but a ground wire can be attached to any one of the screws on the pump head. The two remaining wires should be black. Attach one black wire to each terminal on the capacitor. The included capacitor is a cylinder shaped component that resembles a large battery.

Please Note: The capacitor terminals are an electrocution hazard and should be adequately protected with electric tape.

5. Depending on the model of the pump, plastic spacers may be required for the pump to mount properly to your carrier. We have included four spacers for the pumps that have this requirement.
6. Note that the cooling blades are exposed. It is your responsibility to adequately protect the blades from any foreign material such as wires, tubing, and *fingers*. We recommend metal screen material which can be found at most hardware stores.