

## Rebuilt Thomas Vacuum Pump Instructions

1. Remove any metal barbed fittings already attached to the ports on the pump, but do not remove any plastic plugs attached to the ports. When complete, there should 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. With the pump unplugged from the power source, 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'll 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 exhaust muffler should be attached to the exhaust port.
4. The included capacitor is a cylinder-shaped component that resembles a large battery.



### Warning!

**The capacitor terminals are an electrocution hazard.  
Wear insulated safety gloves when handling.**



Before use, you must discharge the capacitor by performing the following instructions. Hold a screwdriver only by its insulated handle. Do not touch the bare metal of the screwdriver. Place the screwdriver's metal end across the separate terminals that protrude from the capacitor. Connecting the two separate terminals with the metal screwdriver causes a short in the capacitor's circuit and releases the stored electrical energy.

5. The remaining wires should be either red and white or black and black. Attach the remaining wires to the separate terminals on the capacitor. This may require some soldering or the use of a quick-connect fitting (not included). **To avoid contact with skin or metal, be sure to safely and securely protect the terminals with electric tape or other means of electrical insulation when the wiring is completed.**
6. The 120v AC power wires are typically blue and brown. The brown is hot and the blue is neutral. Most vacuum pumps do not have a ground wire. If no ground wire is found, a new ground wire can be attached to any of the screws on the pump head. **Note that all electrical connections (including the ends of the capacitor) must be safely and securely insulated when the wiring is completed.**
7. 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 wire screen material which can be found at most hardware stores.

## Safety Reminders

- Brass products may contain chemicals known to the state of California to cause cancer or reproductive toxicity. Visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov) for details.
- The capacitor terminals are an electrocution hazard. Wear insulated safety gloves when handling. Be sure to adequately protect the capacitor terminals with electric tape or other means of electrical insulation when the wiring is completed.
- All electrical connections must be safely insulated when the wiring is completed.
- Prior to use the plastic cooling fan blades must be securely covered in a way that protects foreign objects and body parts from contact with the fan blades.



See additional information on next page.

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The arbitrator shall be agreed upon by the parties and the arbitration shall take place in Harford County, Maryland in accordance with Maryland law.

Procedure

If the parties cannot agree on a mutually acceptable arbitrator, the arbitration will be conducted through the American Arbitration Association ("AAA") and in accordance with its rules. The AAA's rules are available to view at <https://www.adr.org>. Both parties agree to equally share the administrative expense of the arbitration, unless the arbitrator finds that the claim was brought in bad faith and orders one party to pay the cost of the proceedings as part of the arbitration award. Both parties are responsible for paying the costs of their own counsel, experts, and witnesses. Judgment on the award rendered by the arbitrator may be entered in any court having jurisdiction thereof. Before commencing an arbitration under this Agreement, the aggrieved party will first present the claim or dispute to the opposing party by (certified mail, regular mail). Our notice address to submit claims or disputes is: JWW Services Inc., 217 E. Jarrettsville Rd., Suite 5, Forest Hill, MD 21050.

If the claim or dispute is not resolved within 90 days, the aggrieved party can commence arbitration proceedings in accordance with this Agreement.

Class Action Waiver

All arbitrations conducted under this Agreement shall be conducted only on an individual (and not a class-wide) basis; and an arbitrator shall have no authority to award class-wide relief. By agreeing to this Agreement, you acknowledge that this Agreement specifically prohibits you from commencing arbitration proceedings as a representative of others or joining in any arbitration proceedings brought by any other person.

Severability

If any part or any provision of this Agreement shall be finally determined to be invalid or unenforceable under applicable law, that part shall be ineffective to the extent of such invalidity or unenforceability only, without in any way affecting the remaining parts of said provision or the remaining provisions of this Agreement.

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