

Motor, VFD Assembly manual

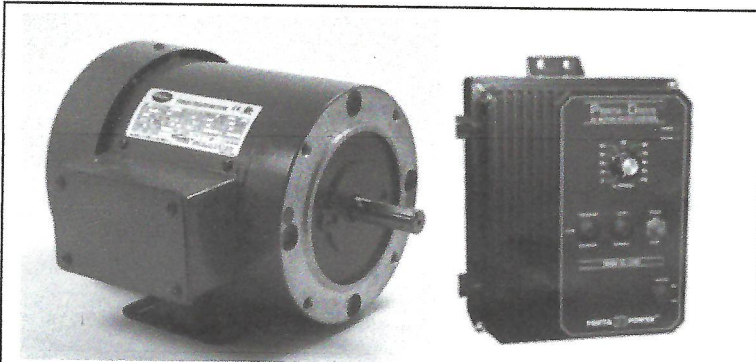


Photo 1. 1.5HP motor with Variable Frequency drive (VFD)

In order to assemble your Wilmont Motor & VFD you will need a few basic hand tools:

Photo 1 – 1.5 HP motor with Variable Frequency Drive

- 7/16 wrench
- 7/16 Socket wrench
- Flat Head Screw Driver
- Philips Head Screw Driver

Step one: Attach the VFD to the VFD arm on the assembled flipping plates at this time. Next attach the motor to the assembled grinder. Next bolt the grinder to the right flipping plate. **Do not plug in the VFD until all wiring is finished.**

Step Two. Normally wiring of the VFD would be necessary at this point, but that has already been done by Wilmont products so it will not be necessary to open the VFD.

Step Three Step one is to knock out the knockout at the bottom of the motors electrical box and install the *Waterproof strain relief gland*.

Remove the four screws that hold the wiring cover. Install the four conductor wire from the VFD into the electrical box on the motor through the waterproof gland. You should now have a situation that looks just like photo 2.

Step four. The other three wire nuts should have the color of the wire that should be introduced to it from the VFD.

Put the red wire to the T1. White wire to the T3. And lastly the Black wire to the T2.

Lastly attach the Green ground wire to the green screw on the inside of the housing. Your wiring should now have a motor that appears like Photo 3. Lastly replace the cover for the wiring box.

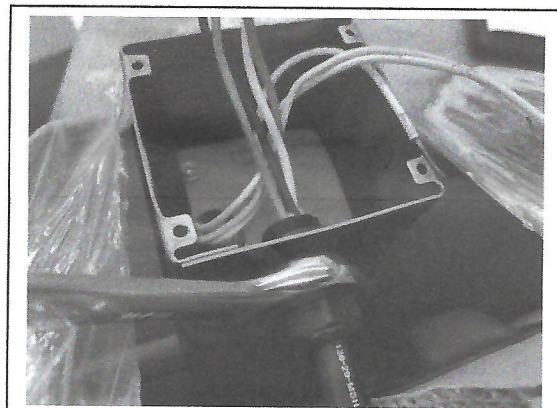
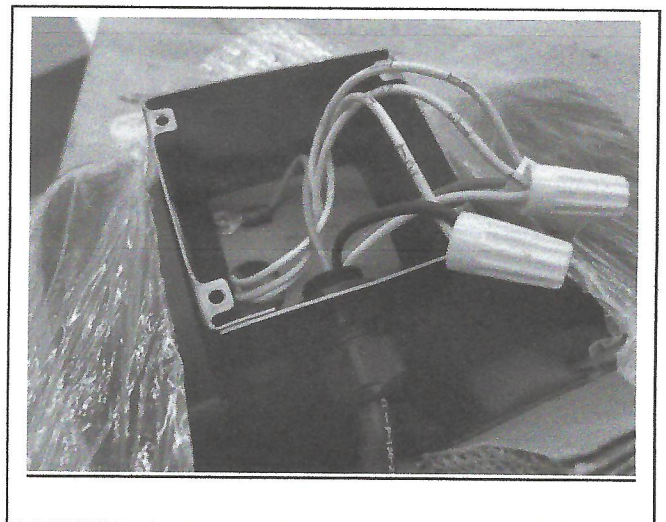


Photo 2. Wiring the motor

Step Five. Lastly attach the wires from the VFD and motor to the flipping plate hinges using the included cushioned loop clamps. Wiring should look like Photo 4.



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This VFD is designed to accept single phase power in, If you purchased this VFD for a 1.5hp motor it is most likely wired for 120V single phase in. If you purchased a 2hp motor I can wire it for 120v or 220v.If your VFD is wired for 220v The end of the power in cord will most likely be just cut off and you will need to provide your desired 220V plug. The power in cord will be the one with three conductors. Once all the wiring and cables are secure you can plug in the VFD to a 110v outlet and test the VFD and motor. Motor rotation should be the correct rotation for the grinder.

The management.

Operation of the VFD, your VFD has two toggle switches, a Master power on/off power switch and a Start/Stop switch.

Once the lower Master power switch is toggled up, it should not be used to stop grinders rotation. The Start/Stop toggle is used to start and stop grinder. Master power should only be used or toggled down at the end of the day, this switch prevents Surges or lightning from frying the VFD.

VFD's are not compatible with GFCI (Ground Fault Circuit Interrupter) plugs. GFCI are outlets that have min circuit breakers built into them. If your garage has GFCI outlets you must either replace them with non GFCI outlets or rewire your VFD to 220V.