

**INSTALLATION INSTRUCTIONS
Magnetic Tumble Stirrer VP 710H5 into
Environmental Express Stir Base**



**Environmental Express StirBase with VP 710H5 inside
Max Speed: 500RPM**

WARNING!!!!

- Be advised that the Magnetic Tumble Stirrer has very strong magnetic fields coming from a very strong Neodymium Iron Boron drive magnet.
- **People with pacemakers should not get closer than 24 inches.**
- Remove all magnetic influenced tools and objects from the immediate area to prevent them from being pulled onto the magnet or from striking anyone as the objects are pulled towards the magnet.
- Keep credit cards, watches, and other magnetic sensitive items at least 24 inches from the Magnetic Tumble Stirrer's magnetic fields.

During this installation, please observe the following cautions:

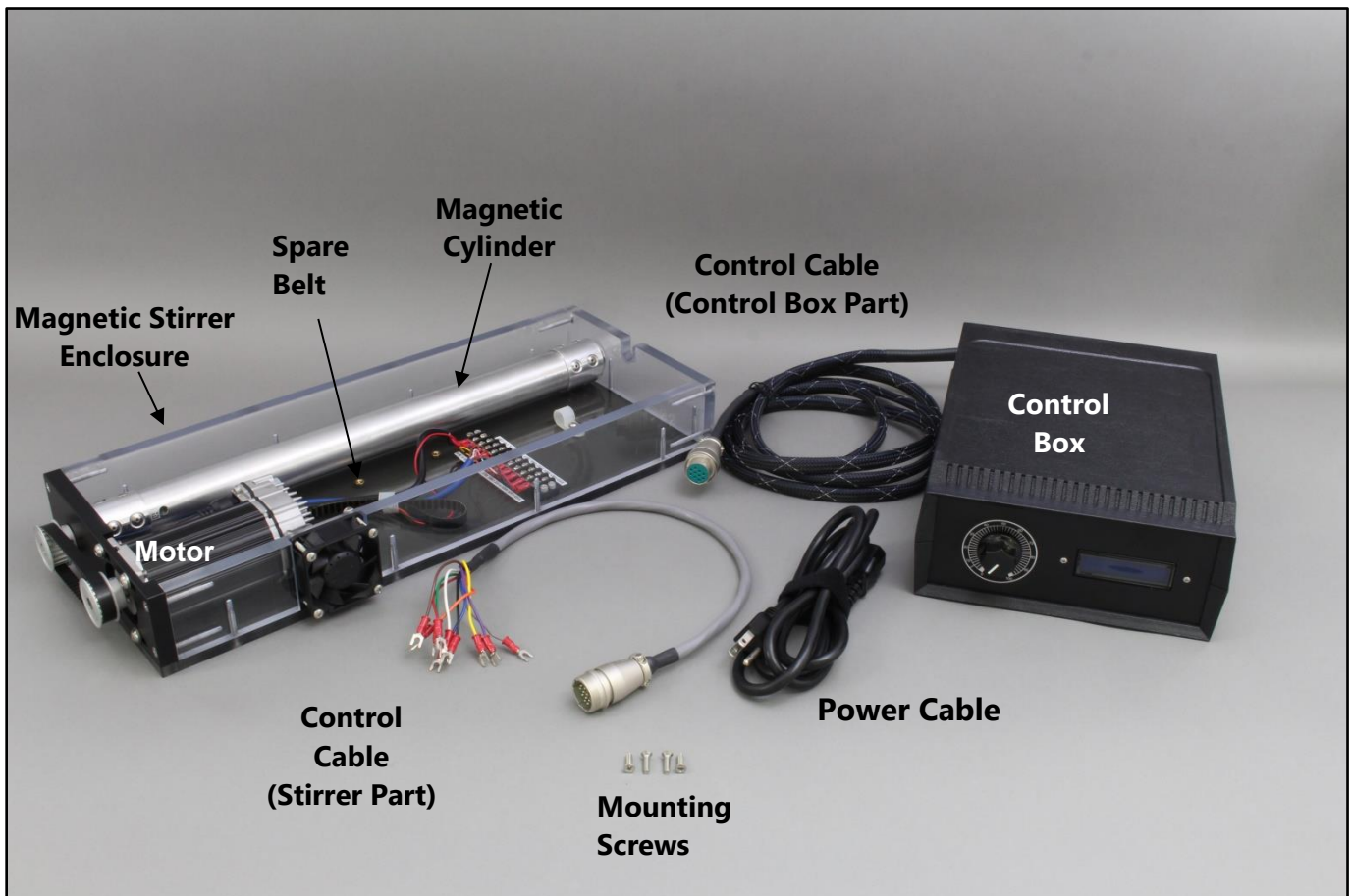
- **Make sure the stirring unit is not connected to a power source during assembly.**
- **Remove any ferrous material from the work area:**

The strong magnetic cylinder of the Tumble Stirrer is exposed and will attract any magnetic material nearby.

- **People with pacemakers should not get closer than 24 inches.**

Each stirring system includes the following:

- Magnetic Stirrer VP 710H5 (magnetic cylinder and motor, open top enclosure)
- Control Box (integrated power supply)
- Control Cable (shipped attached, will need to be removed for assembly into Stir Base)
- Power Cable
- Spare Belt (inside of magnetic stirrer)

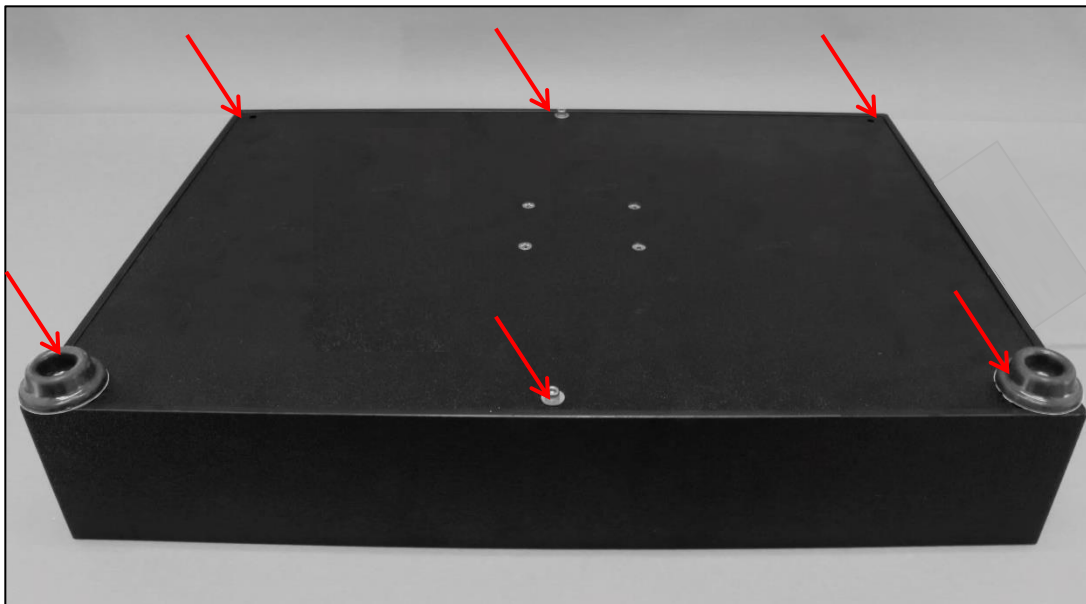


Stir Base is provided by Environmental Express

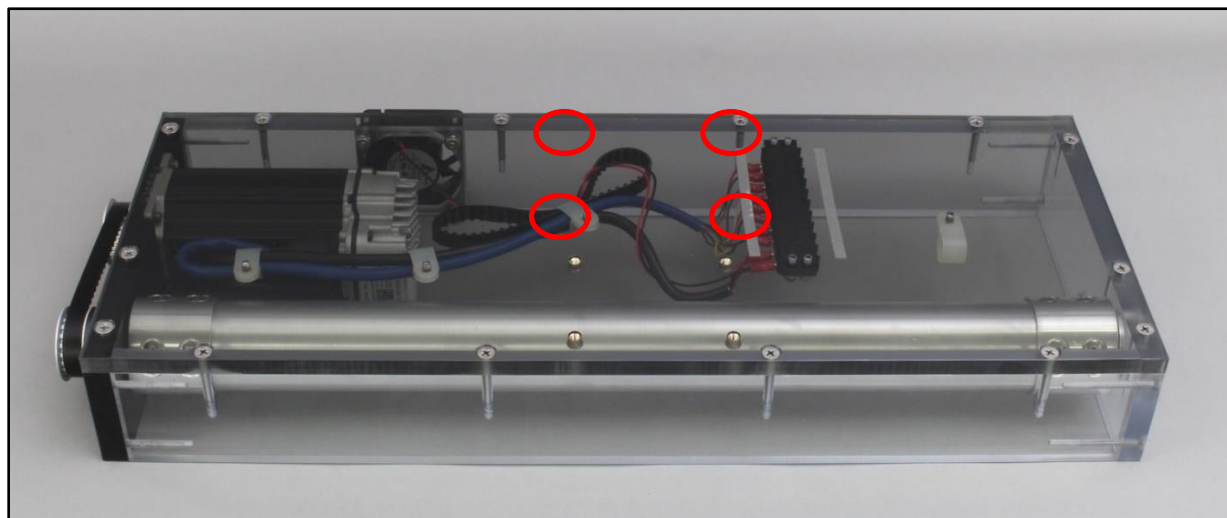
Attaching Tumble Stirrer to Stir Base

Caution: Be sure that work area is free of any ferrous material including any table/bench surface and any steel support material under the surface. If such material is present be careful as the magnetic cylinder in the Tumble Stirrer can pull down forcefully to table/bench surface.

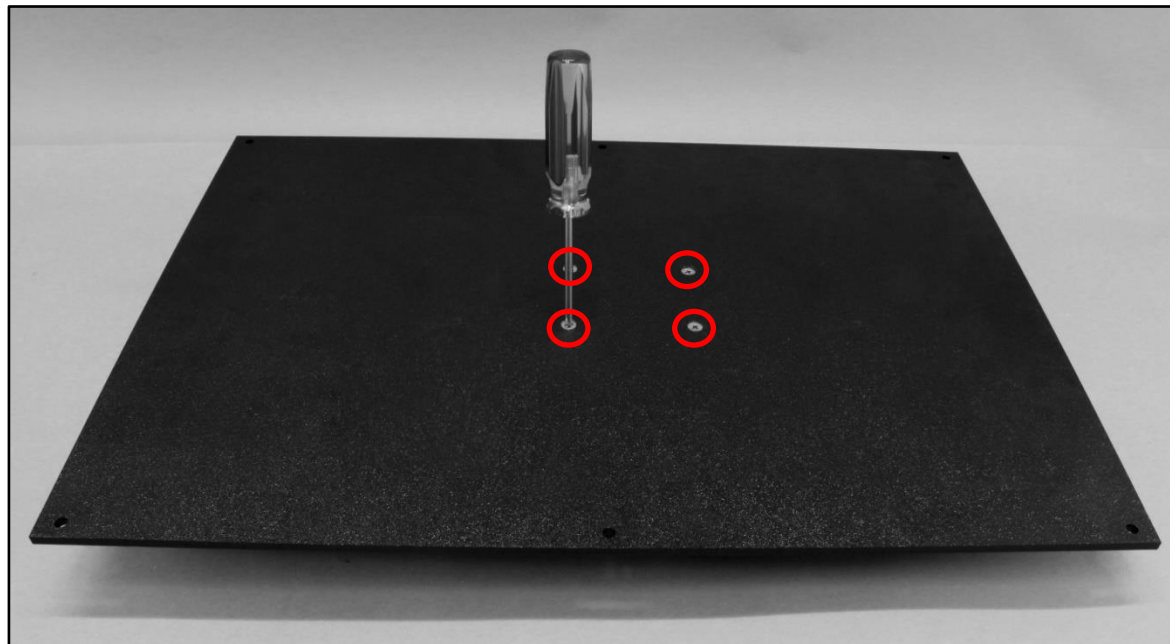
1. Disassemble StirBase by removing by removing six screws that hold bottom plate on.



2. Turn the Magnetic Tumble Stirrer upside down.
3. Place the bottom plate of Stir Base onto Magnetic Tumble Stirrer, aligning the set of four screw holes (red circles)

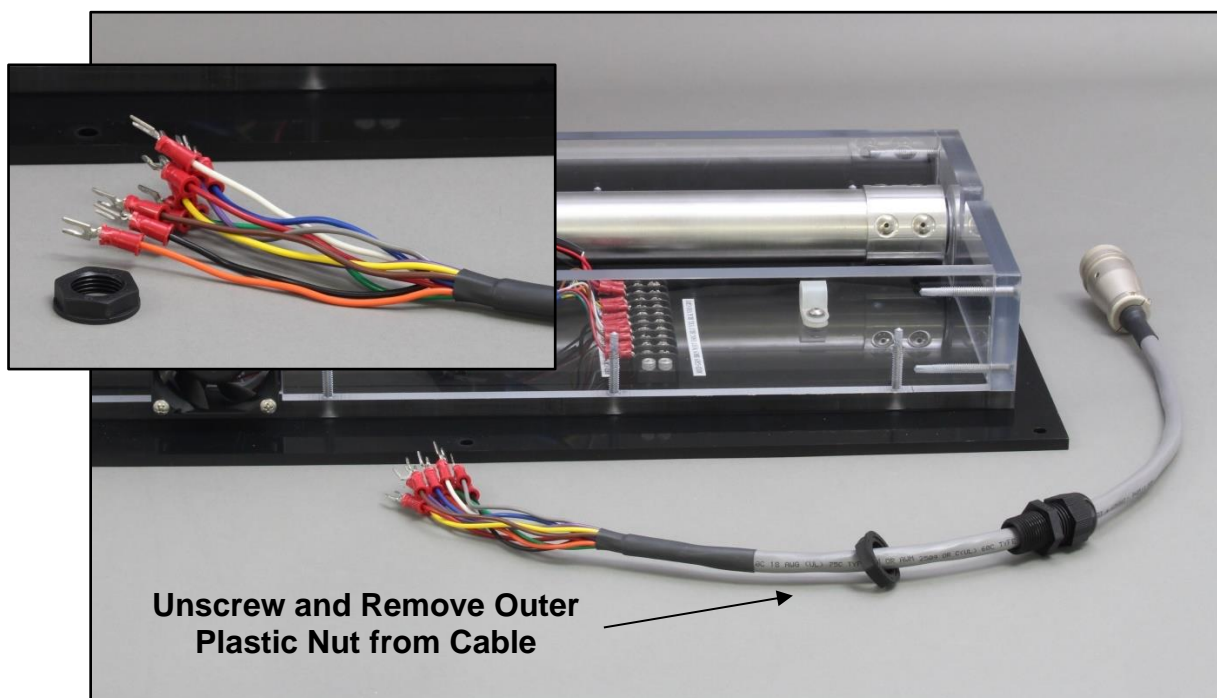


- Using 4 screws (10-32 x 1/2") secure Stir Base bottom plate to the Magnetic Tumble Stirrer.

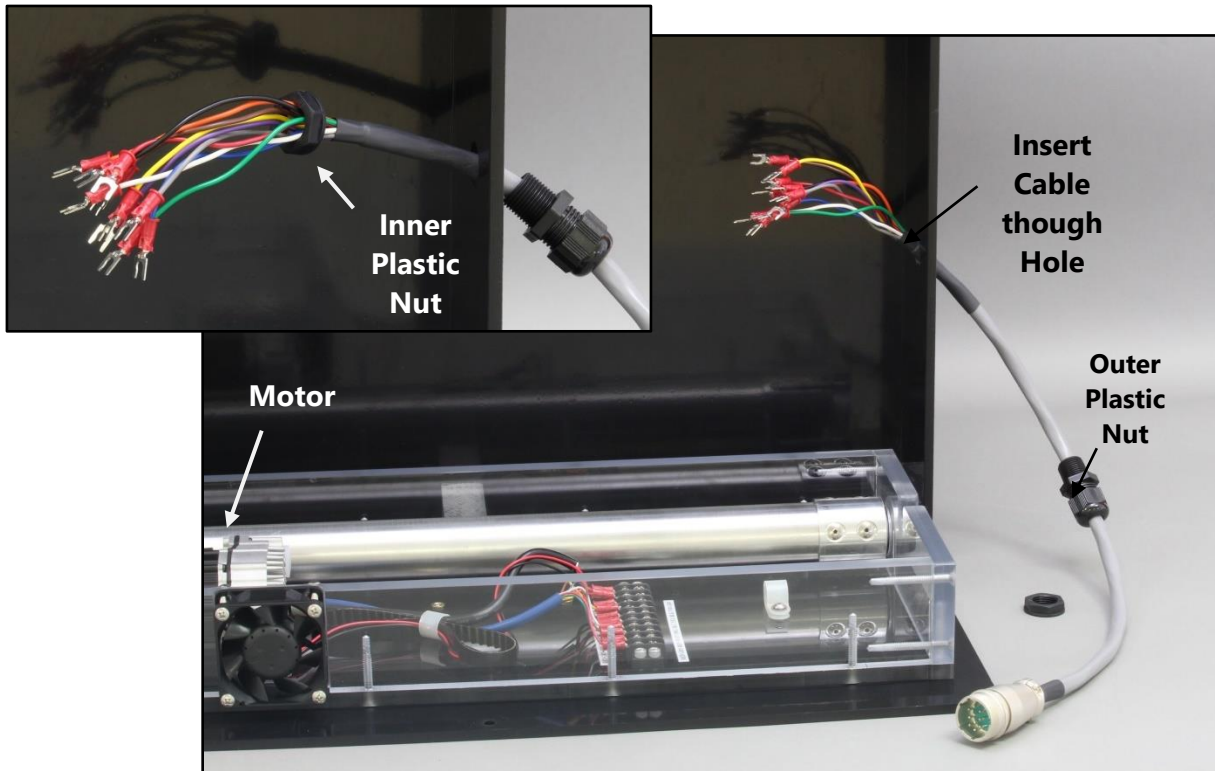


Attaching Tumble Stirrer Control Cable to Stir Base

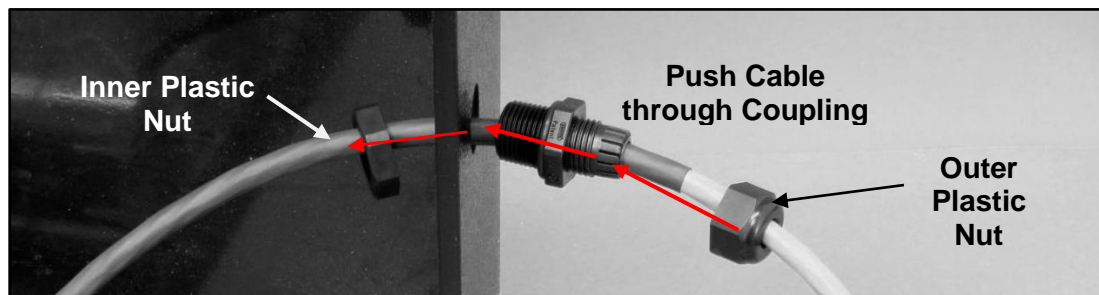
- Unscrew the plastic nut from the Tumble Stirrer Control Cable (gray one with protruding wires of various colors) and remove from cable.



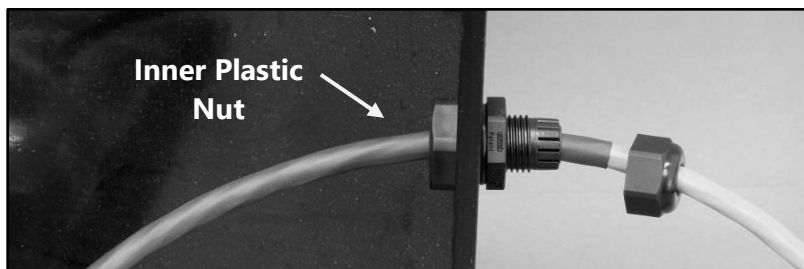
2. Orient the Environmental Express Stir Base top so that the hole in the side is opposite of the Tumble Stirrer motor (as shown in photo below). Insert Control Cable through the hole. Then slip the inner plastic nut over the end of the cable.



3. Unscrew the outer plastic nut. Then push the gray cable through the nut and the coupling. Push enough cable into the StirBase top to work within the next step of connecting wires in the Tumble Stirrer enclosure. The final length of the cable can be adjusted, and the outer plastic nut replaced after wires are connected.



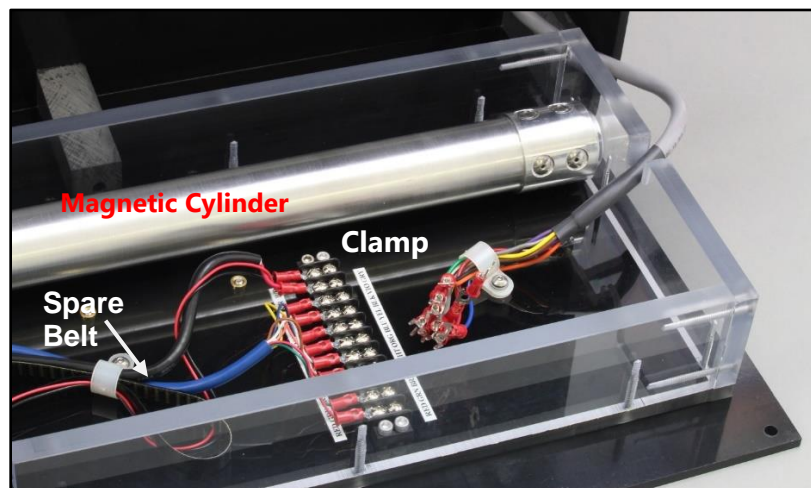
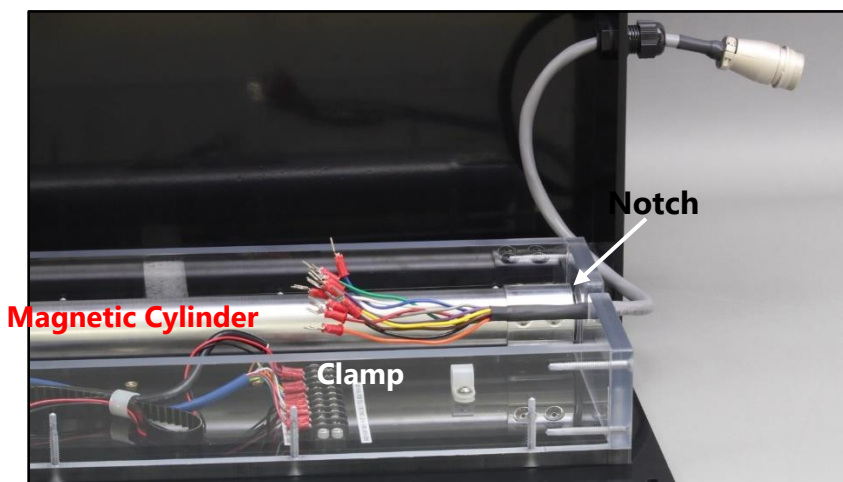
4. Tighten the plastic nut on the inside of the box to the coupling to secure coupling to Stir Base top.



Connecting Tumble Stirrer Control Cable Wires to Tumble Stirrer Wires

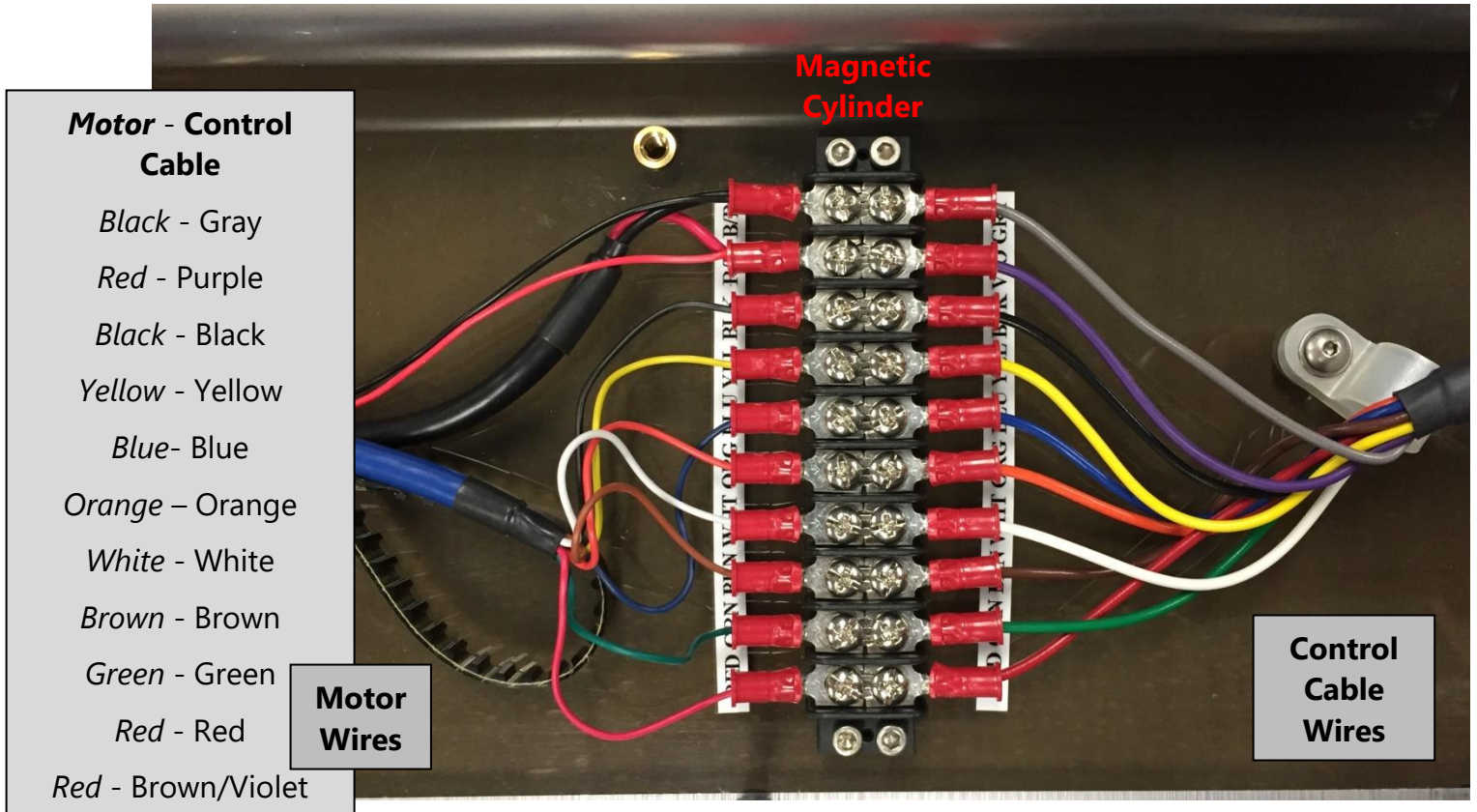
1. Lay the control cable in the notch in the side of the Magnetic Stirrer enclosure. Remove the cable clamp using a Philips screwdriver.

Caution: Be aware that the magnetic cylinder is near the clamp and will attract the screwdriver and screw. Use two hands to hold the screwdriver.



2. Insert the wires into the appropriate slot. In this order, starting next to Magnetic Cylinder: Gray, Purple, Black, Yellow, Blue, Orange, White, Brown, Green. Red. See wiring diagram label in stirrer and photo below.

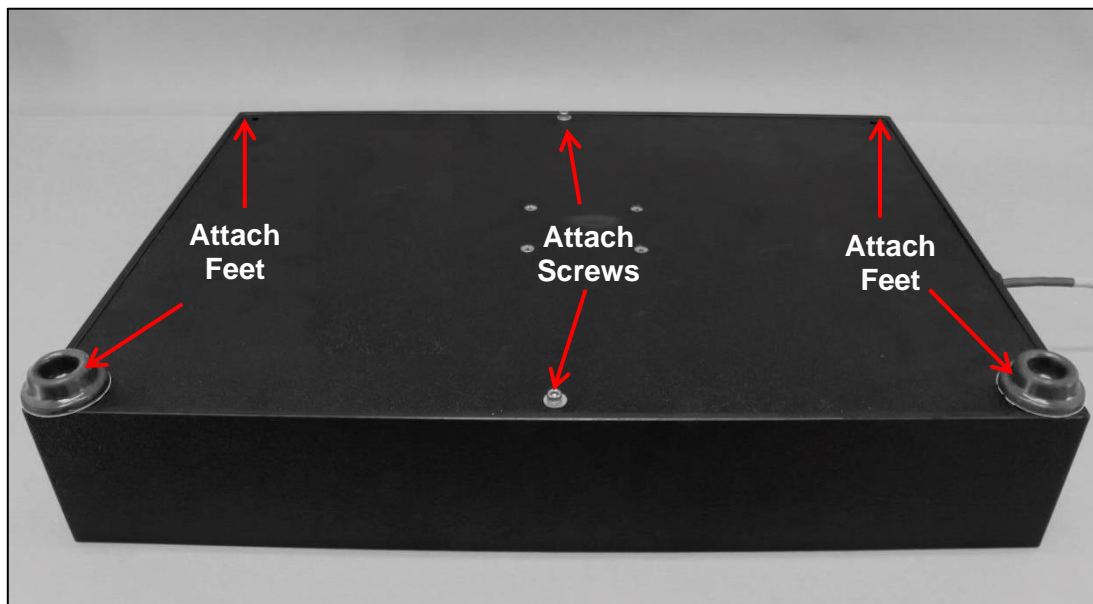
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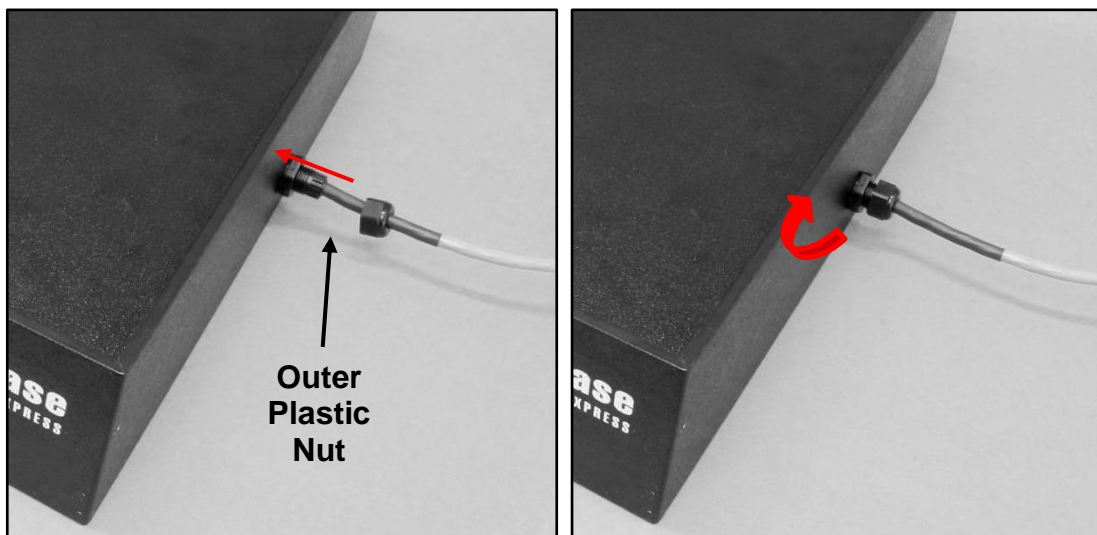
3. Tighten screws on each wire connector.
4. Slip the clamp back over the gray cable and tighten screw into the base of the Magnetic Stirrer enclosure.

Closing up Stir Base with Tumble Stirrer inside.

1. Place the top cover on the Stir Base bottom plate that has the Tumble Stirrer attached. Carefully flip the entire unit upside down.
2. Secure the bottom plate into the top using the appropriate screws and feet.

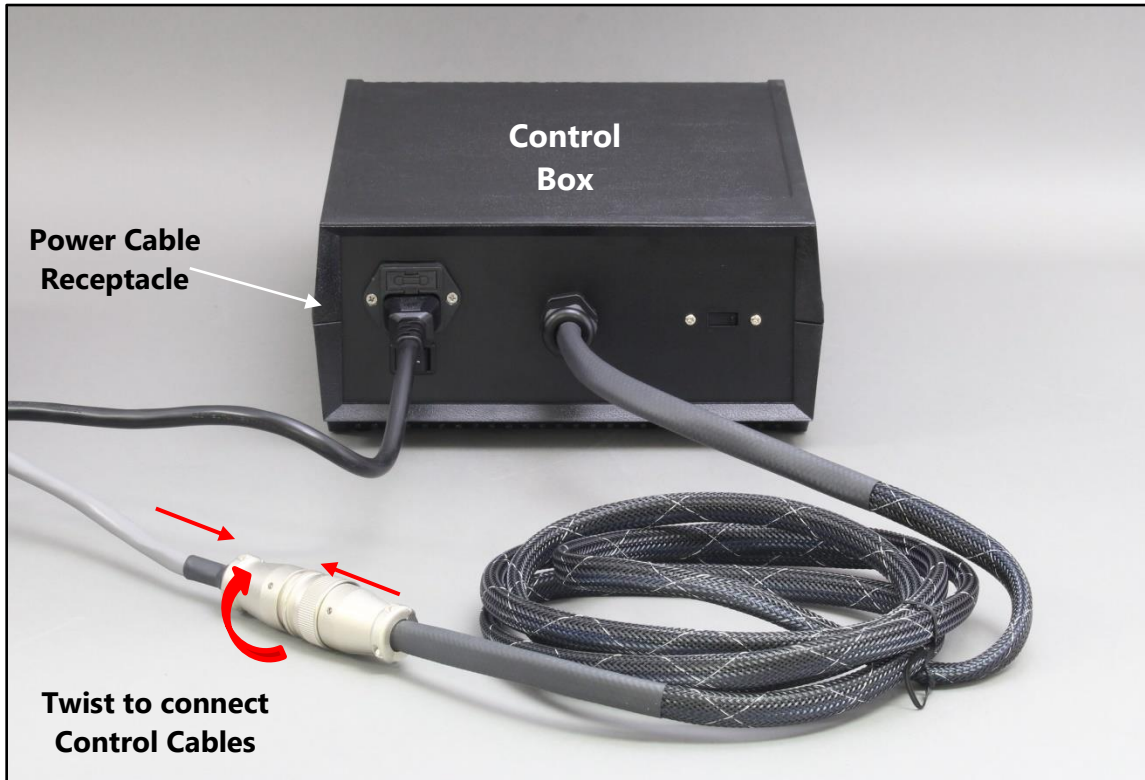


3. Pull the controller cable out to relieve any slack inside the Stir Base.
4. Tighten the plastic nut to secure the cable from moving.



Connection to Control Box

1. Connect the Control Cables together, as shown below, and twist knurled ring tight to secure.
2. Plug the Power Cable into the Power Cable Receptacle on the Control Box as shown below.



WARRANTY

There is a one-year warranty against defective parts. We will replace or repair the defective part and not charge a Labor fee. Damage to the machine caused by user negligence is not covered. We ask that you keep the special shipping carton in case you need to send the unit back to us.

If technical assistance is required, contact V&P Scientific, Inc. at 858-455-0643 or sales@vp-sci.com.

WARNING

To avoid personnel injury caused by electrical shock, do not remove the cover of the stirrer when the power is ON.