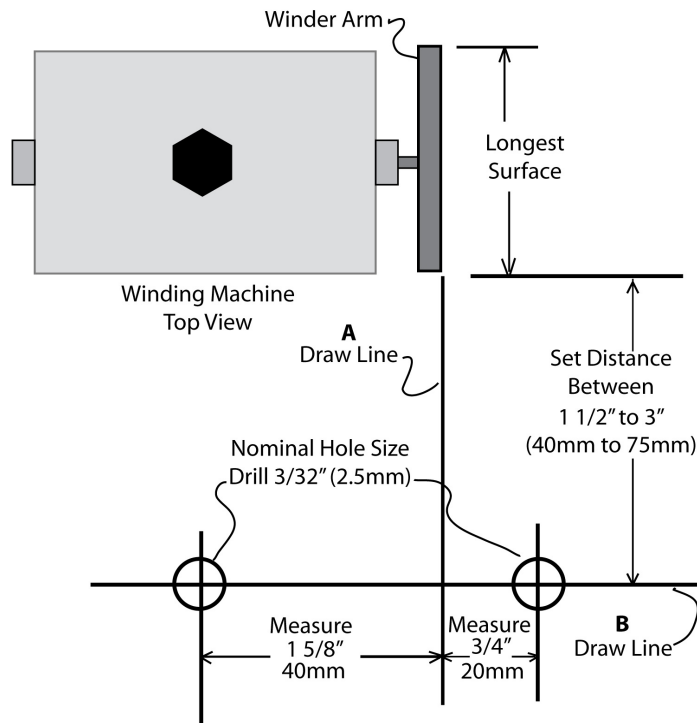


The Winder Traverse is a semi-automatic device running a small micro controller. Set up of the Winder Traverse is crucial to having it run properly. Please read through these instructions prior to set up.

The winding machine and the Winder Traverse must be secured to the same horizontal work surface. The diagram below shows the layout for drilling the 2 mounting holes required to secure the device to the work surface.

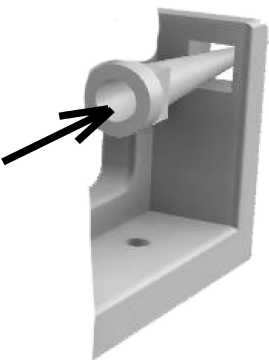


On the work surface:

- 1) Draw Line 'A' parallel to and even with the outer surface of the winder arm.
- 2) Depending upon the size of the work surface, measure down that line a distance of between 1.5" to 3" (40 to 75mm) from the furthest extent of the winder arm and draw Line 'B' at 90 degrees across Line 'A'.
- 3) Measure 3/4" (20mm) to the right of Line 'A' along Line 'B' and mark that spot for drilling.
- 4) Measure 1 5/8" (40mm) to the left of Line 'A' along Line 'B' and mark that spot for drilling.
- 5) Drill 3/32" (2.5mm) holes in the marked locations.
- 6) Put a washer on each of the small supplied screws, insert them through the mounting slots of the unit and turn the screws in about halfway. Do not fully tighten them down.

Important Note: The space between the unit and the winding machine will vary depending upon the size of the work surface. Line 'B' can be drawn a minimum distance of 1.5" (40mm) from the furthest extent of the winder arm up to a maximum distance of 3" (75mm) from the furthest extent of the winder arm. The original

work surface as supplied with a Model B winding machine barely allows the 1.5" distance. You may wish to mount both the Model B and the Winder Traverse to a slightly larger work surface that will allow a bit more room to work.



7) The blue nozzle is a simple press fit into the square hole at the front of the traverse head. Note that the four lines on the nozzle will align with the shape of the square hole. Take one of the two supplied nozzles and press it into place while holding and supporting the traverse head.

8) If you are securing bobbins directly to the winder arm, position the Winder Traverse so that the blue nozzle of the unit is approximately 1/4" (6mm) to the right of the winder arm surface. Tighten the screws to secure the unit to the work surface.

9) If you are using our Bobbin Holder on your winder, mount it to the winder arm. Slide the Winder Traverse to the right so that the blue nozzle of the unit is approximately 1/4" (6mm) to the right of the surface of the Bobbin Holder. Tighten the screws to secure the unit to the work surface.

10) Note that the slots provided for mounting the unit are meant for gross adjustments to the positioning of the unit only and for its initial positioning.

Controls

On the left side of the enclosure is the main power switch. Front panel controls consist of a tactile push mode SET switch, a SPEED control for the traverse movement, and two controls for setting the distances for the SWEEP to the left and right of center. Note that the two controls are inter-dependent. The Left control must always set counter clockwise from C and the Right control must always be set clockwise from C.

Getting Familiar With The Unit

Before plugging in the power supply and turning the unit on: Set the Speed control to C, set the Right control so it points to the 'R' in Right, set the Left control so that it points to the 'T' in Left

The unit comes supplied with a 9 volt 500 milliamp center positive wall plug in power supply. Plug the power supply into the wall outlet and plug the power jack into the unit. If the LED is not lit, turn the power switch on. The unit will cycle first to the left and then to the right. It will then stop moving.

Setting Steps

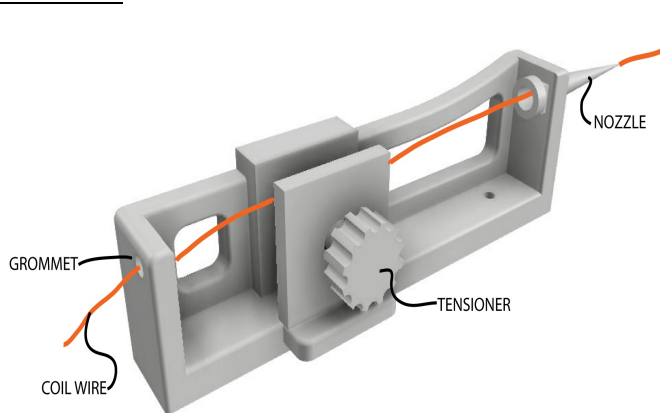
- 1) Press the SET button once and adjust the Right sweep limit.
- 2) Press the SET button a second time and adjust the Left sweep limit.
- 3) Press the SET button a third time and the unit will sweep back and forth between the left and right limits. The Speed should be adjusted as required while the unit is sweeping back and forth.
- 4) Press the SET button a fourth time and the unit will stop the sweep.

If you wish to use the same limit settings: Pressing the SET button three times will start the sweep again within the same limits as before. If you wish to reset the limit settings: Go back to Setting Steps 1 and 2.

Important Notes:

- 1) Do not use the power switch to turn the unit off if it is still sweeping back and forth. Press the SET button to stop the sweep and then use the power switch to turn things off. If you stop the unit by turning off the power while it is still sweeping it may cause the unit to get hung up between cycles and make it unable to get back to a 'start' position. It may then be necessary to reset the cycles. Flip the power switch back on and then go back through the Setting Steps as the unit is looking for input as to what the settings should be. On occasion it may be necessary to repeat this process several times to get the unit back to a 'start' position and the cycles back to normal.
- 2) The shorter the height of the bobbin, the closer to C (center) each of the SWEEP controls will be set. At these closer settings it takes less time for each sweep to be completed relative to where the SPEED control might be set. In other words the sweep speed is not independent of the sweep distance - the closer the limits, the faster the sweep will be for a given speed setting.

Wire Feed



- 1) The diagram at left shows the wire feed.
- 2) Back off the tensioner screw so that the coil wire can be run between the two felt pads, feed the wire along its course and out through the nozzle.
- 3) In setting the tension on the wire, one should be able to feel some resistance when pulling on the wire. It will take a bit of practice to get the feel for the correct amount of resistance that needs to be set.

Setting The Limits

- 1) With the bobbin attached to the winding machine and the wire fed through the Winder Traverse unit and secured around the bobbin, turn the Winder Traverse on.
- 2) Press SET to allow setting of the right limit of the sweep. Rotate the winder arm by hand to track the wire

as it winds onto the bobbin. Rotate the 'Right' knob to adjust the right limit.

- 3) Press SET again to enable setting of the left limit of the sweep. Rotate the winder arm by hand to track the wire as it winds onto the bobbin. Rotate the 'Left' knob to adjust the left limit.
- 4) Press SET to set the sweep in motion. Adjust the SPEED as desired. It does not matter to the winding machine if the traverse is going back and forth without the winder running.
- 5) Turn the winding machine on and bring the speed of the machine up to where you want it.
- 6) Adjust the speed of the traverse as required.
- 7) When winding is completed press the SET button to stop the sweep.
- 8) When finished with all winding flip the power switch to off.

Notes:

- 1) Do not try to readjust the limits while your winding machine is running. Stop the winder, adjust the limits and resume winding.
- 2) You can produce more or less of a scatter wind process by varying the speed of the traverse at various points in the wind.