



Optical Encoder Notice

This is a notice for all of our customers who have our Sherline/MASSO controller and those who have purchased our optical encoder.

We have been made aware of two possible situations that may occur with the optical encoder

Problem 1: There may be loose wire connections at the green male connector. This can cause your RPM to fluctuate more than normal. It can also cause your RPM to run up to the maximum RPM and stay there. We suggest that you follow the instructions below and tighten all of the wire connector screws.

Problem 2: This problem has only been experienced by one of our customers. The male encoder connector is working its way loose from the female connector.

Encoder Wire Connector Instructions

⚠ CAUTION

1. Turn off the power on both the controller and the driver box before you do anything to the encoder. Failure to do this can result in irreversible damage to the encoder or the controller board!

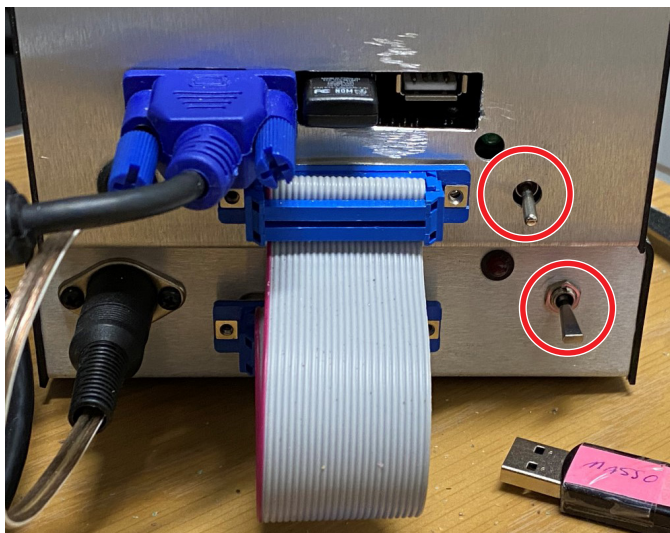


FIGURE 1—The red circles indicate the location of the power switches on the back of the MASSO controller (top) and the CNC driver box (bottom).

2. Disconnect the male side of the green encoder connector.

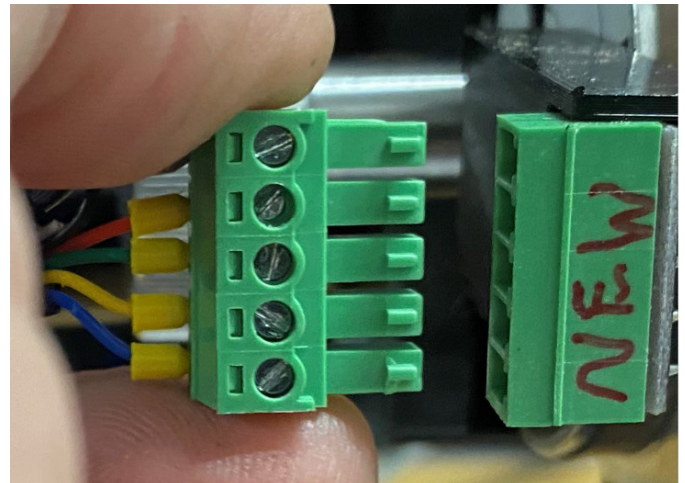


FIGURE 2—The male connector is on the left side of the photo.

3. Check to see if any of the wires are loose.
4. Using a small screw driver, tighten each of the screw in the connector.

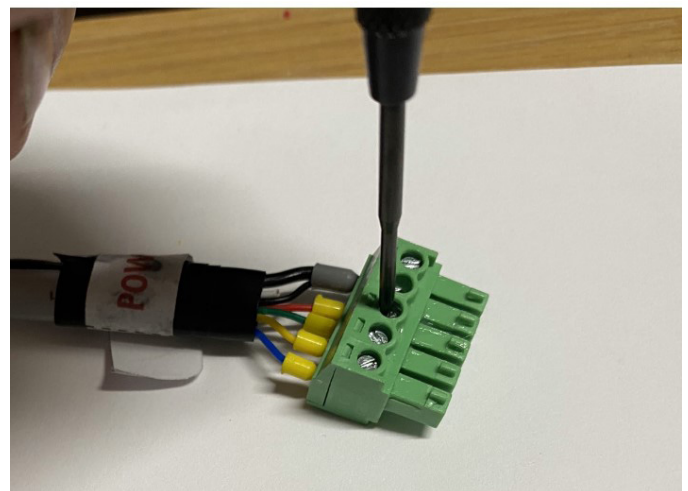


FIGURE 3

5. We recommend putting a small drop of silicone on your male connector and then plug it back into the female connector.
- A. Put a small drop of silicone on the connector by the screws as shown below.

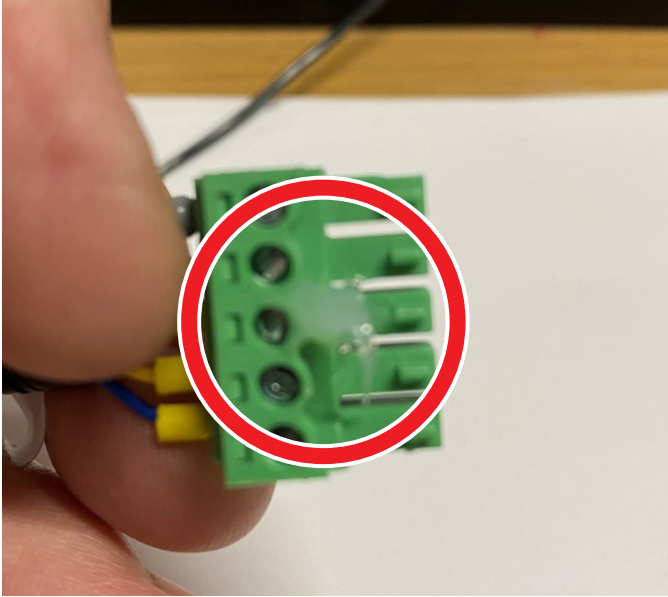


FIGURE 4—It might be difficult to see the clear silicone drop, but it is highlighted by the red circle.

- B. Insert the male connector into the female connector.

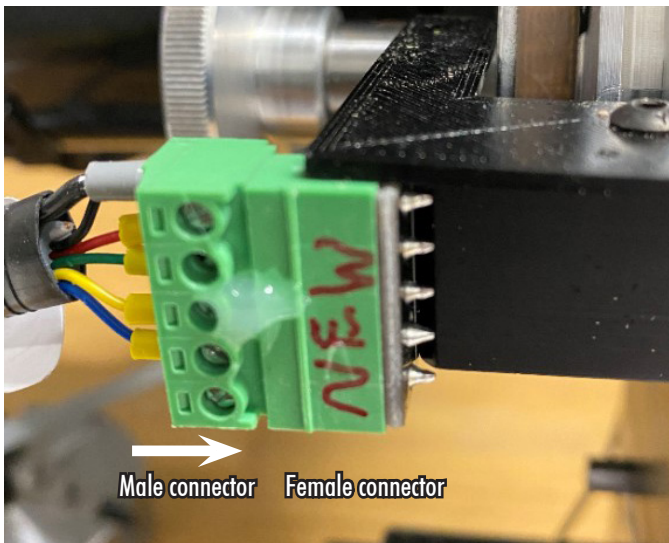


FIGURE 5

- C. Then add another drop of silicon to the top of the connector so it covers both the male and female connectors (see Figure 6).

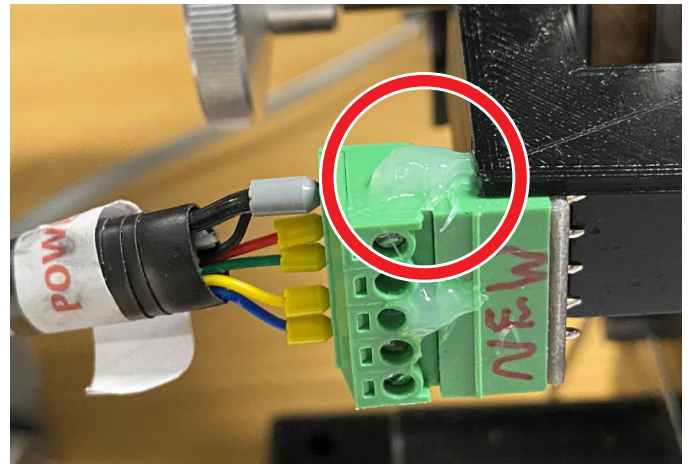


FIGURE 6—The red circle shows the drop of silicone on the top of the optical encoder connector.

⚠ CAUTION

Make sure that all (5) legs of the male connector are inserted into all (5) of the female pockets as shown in Figure 7.

If the male connector is inserted with less that (5) legs as shown in Figure 8, you will damage the encoder when you turn on the power.

7. This is the correct way.

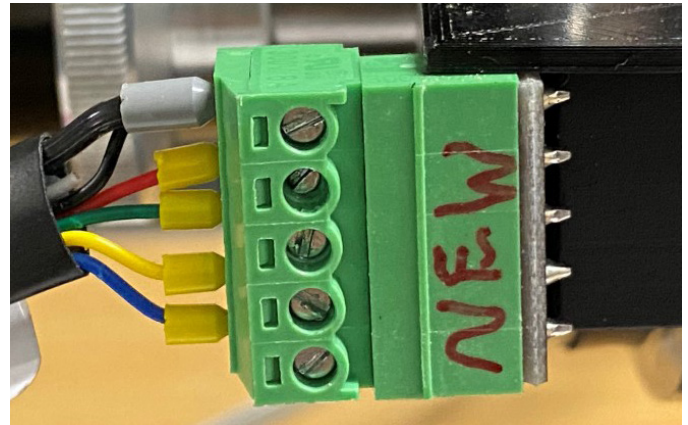


FIGURE 7

8. **THIS IS THE WRONG WAY!**

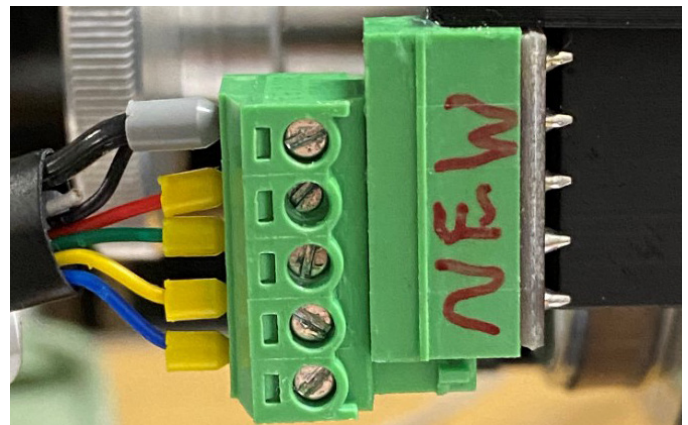


FIGURE 8—The male connector is NOT aligned with the female connection.