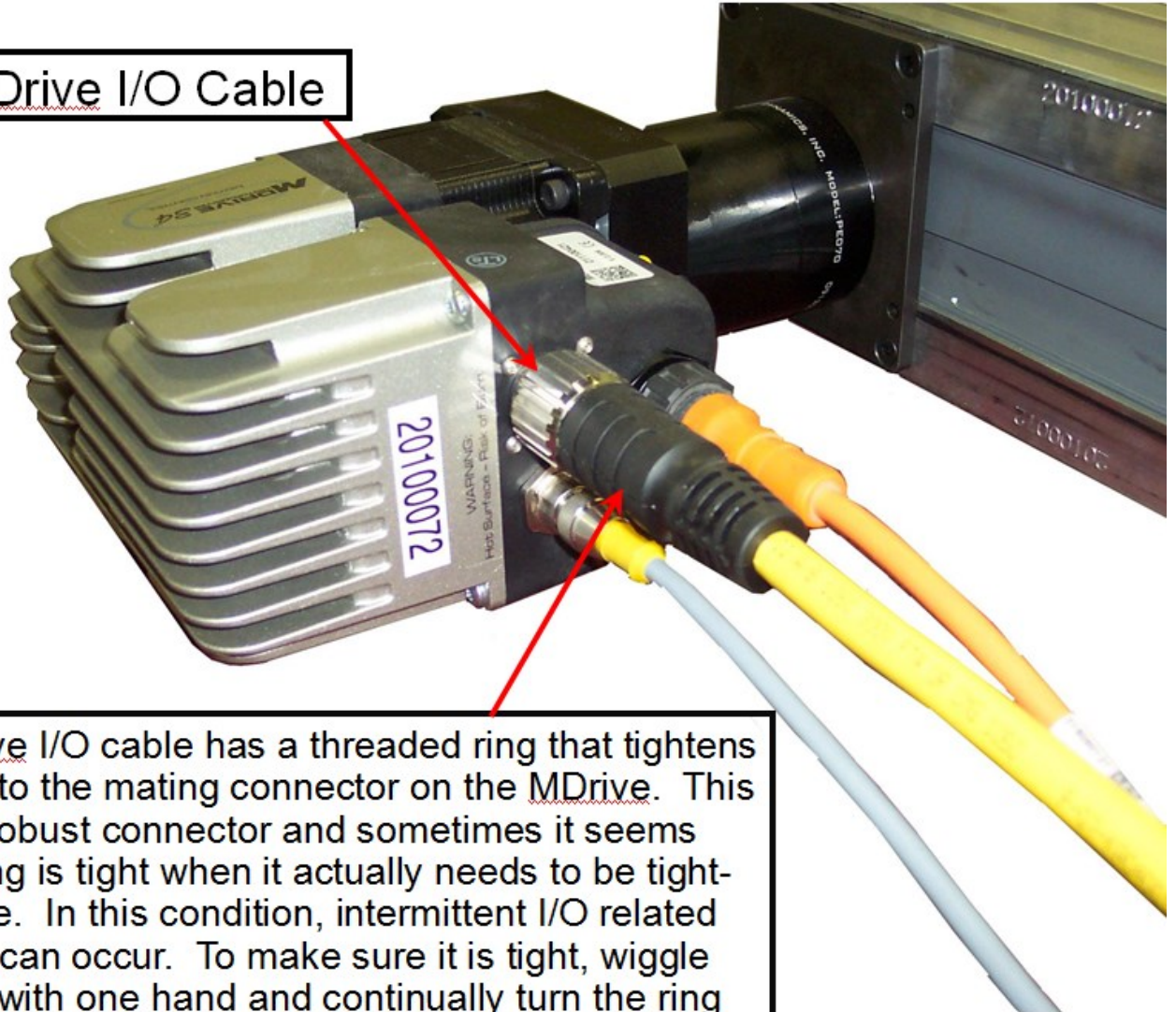


If you are getting the SAW NOT IN SAFE POSITION error then the RazorGage isn't seeing the TOOL SAFE input from the saw. The first step in troubleshooting this problem is to tighten the MDrive I/O cable. See instructions below.

MDrive I/O Cable



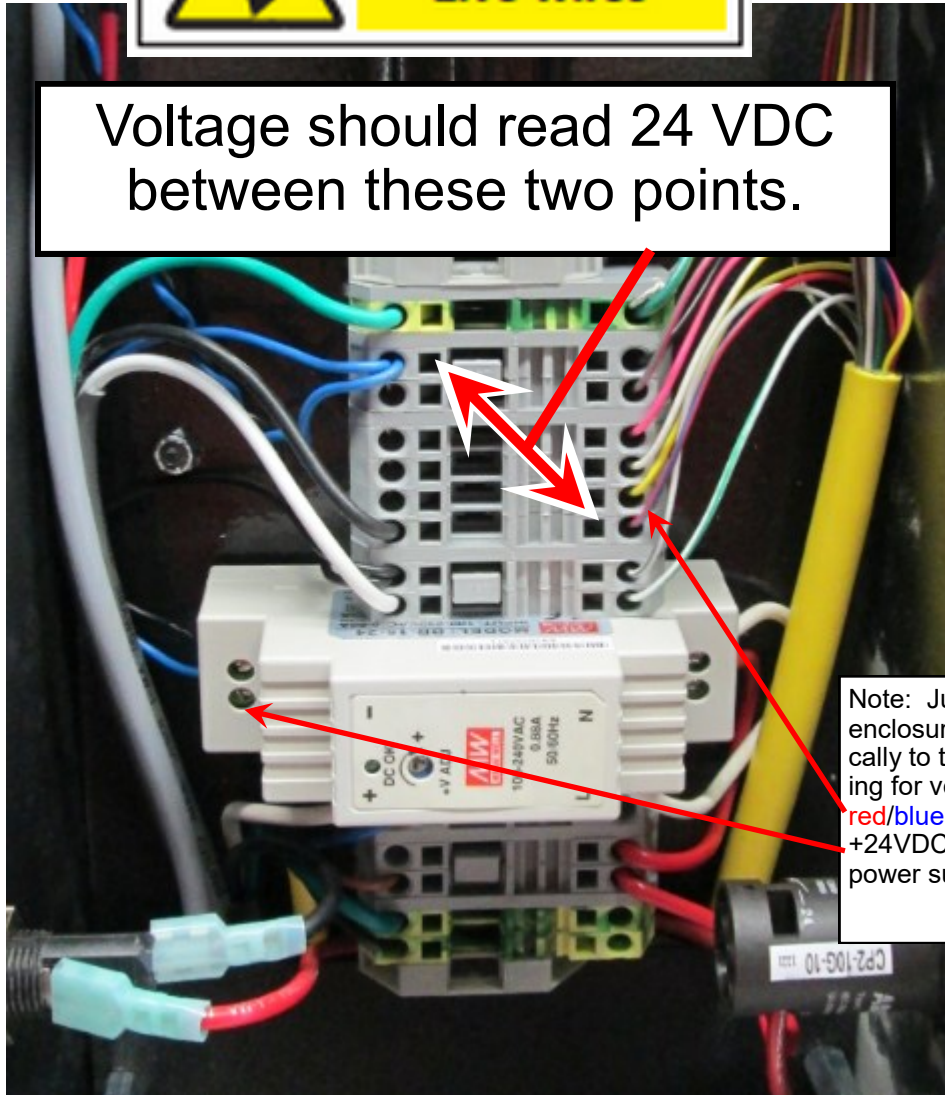
The MDrive I/O cable has a threaded ring that tightens the cable to the mating connector on the MDrive. This is a very robust connector and sometimes it seems like the ring is tight when it actually needs to be tightened more. In this condition, intermittent I/O related problems can occur. To make sure it is tight, wiggle the cable with one hand and continually turn the ring clockwise until you are certain it is tight.

If you are confident that the I/O cable is tight then we need to determine if the device sending the signal is working. The Tool Safe sensor is a switch that tells the RazorGage that the saw is in its HOME position. On a down cutting saw the HOME position will be the UP position. On an up cutting saw the home position will be with the saw down. Many of these sensors have an LED to indicate their state. With the saw in the home position, try to locate the sensor that tells the RazorGage that the saw is out of the way and look for an LED. If that LED is lit then the sensor is working. The following page shows how to use a meter to determine if the RazorGage is receiving the Tool Safe signal.

To check the Tool Safe signal with a meter, first set the meter to read DC voltage of at least 24V. Open the enclosure door on which the tablet is mounted by removing the two screws near the bottom of the door. We'll need the power to be turned on to do this test to follow standard safety practices for working around live wires. With your meter set to DC, put the probes between the tool safe input terminal and the DC+ terminal. You can access the connection inside the terminal block by inserting the probes in the small square hole next to the round hole in which the wire is clamped. See the diagram below.



Voltage should read 24 VDC between these two points.



Note: Just in case your enclosure isn't wired identically to this one, we're looking for voltage between the red/blue wire and the +24VDC terminal from the power supply.

If you see +24 volts across these two points, have someone cycle the saw and ensure that the signal drops out when the saw comes off the switch. If all this proves good then the problem is most likely with the MDrive input. The MDrive will need to be repaired or replaced. Go to our online store by going to www.razorgage.com, click REPLACEMENT PARTS, and search for MDrive. You will see the options for buying a new one, a repaired one, or for sending yours in for repair.