

E-STOP Trigger

This document provides installation instructions for the GRIT E-Stop Trigger.



Installation Overview

The E-Stop Trigger is a versatile device to measure whether your tool is running. It has various installation options based on your machine and which components are most accessible.

Installation consists of three primary steps:

Step 1: Power the GRIT E-Stop Trigger Device

- use the AC Mains power wires from the GRIT device.

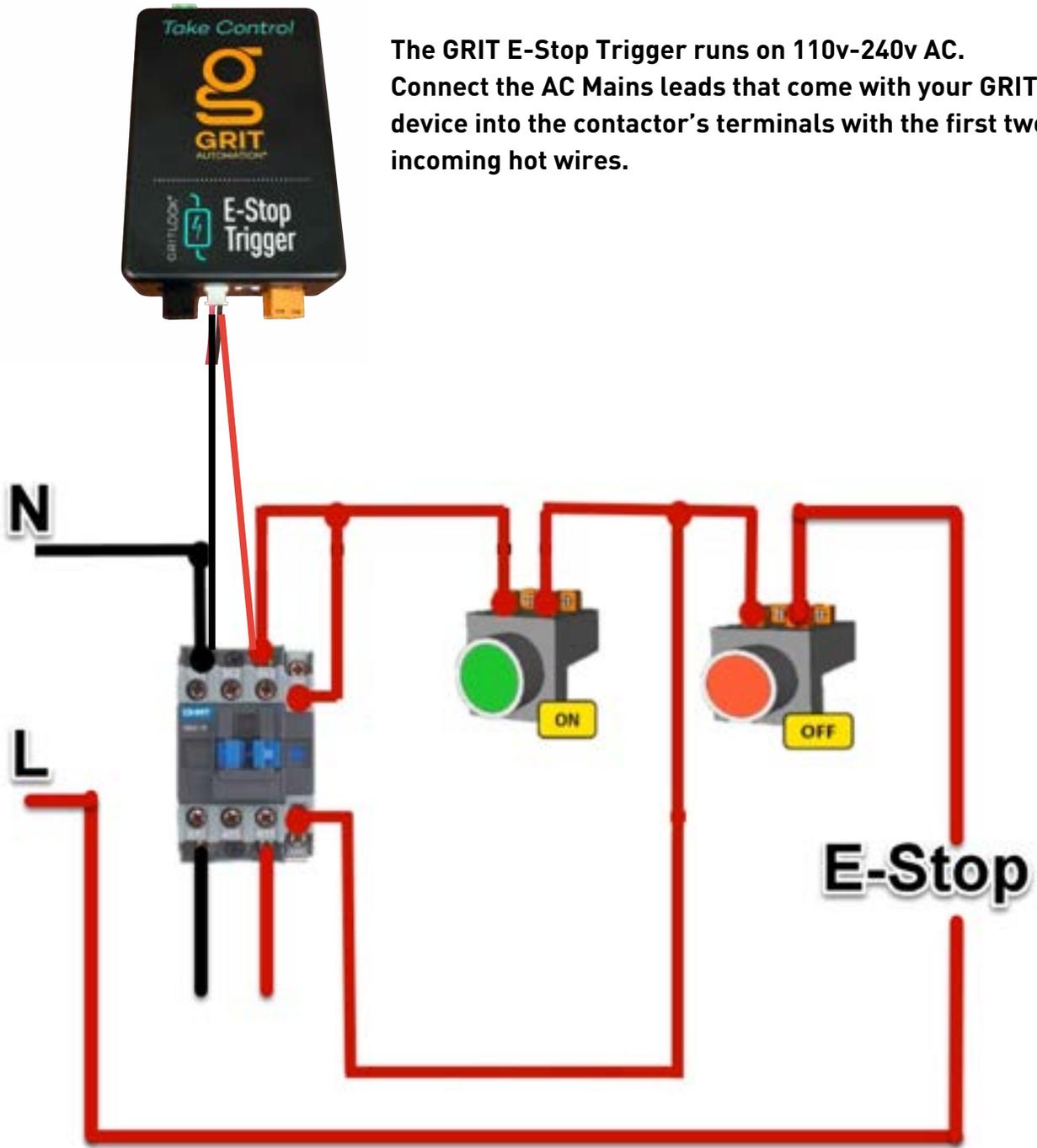
Step 2: Measure Whether the Tool is Running

- Option 1: use the CT from the GRIT device to measure the tool's current, or;
- Option 2: wire the Removable Tool Running Signal from the GRIT device inline with the tool's running signal.

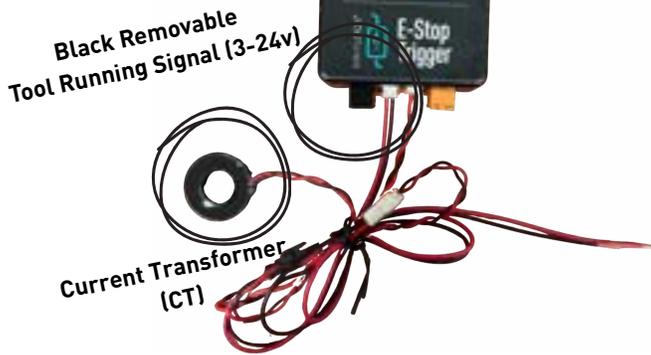
Step 3: Control the Tool's Power

- wire the Removable Orange E-Stop Contact from the GRIT device inline/ in series with the tool's emergency stop button or anywhere in line with the tool's off button

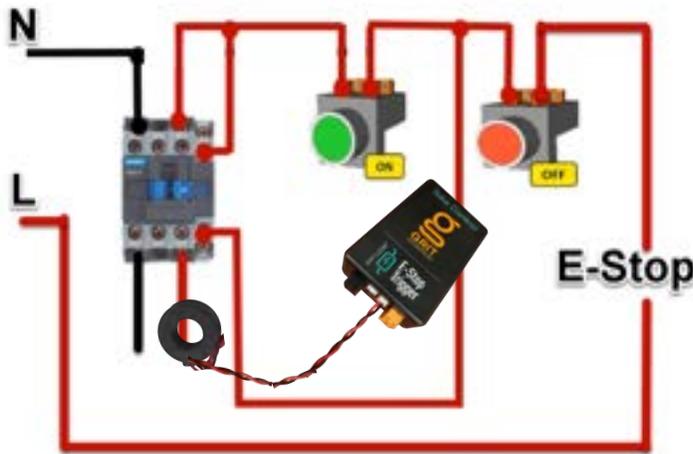
Step 1: Power the GRIT E-Stop Trigger Device



Step 2: Measure Whether the Tool is Running



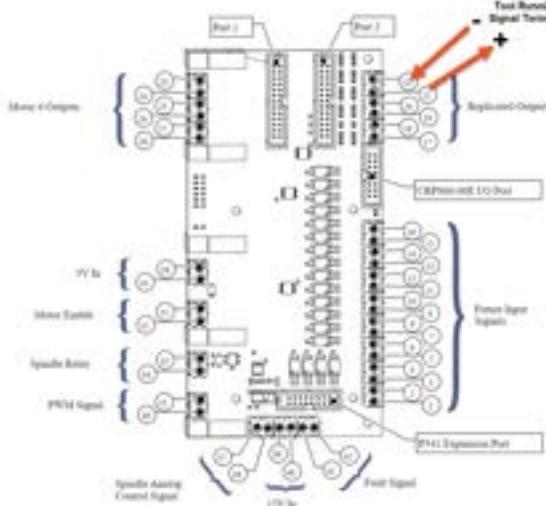
Option 1: Measure with the CT



Unscrew one of the load wires leading to the motor.
Insert it through the middle of the CT, then re-secure the wire in its terminal.

Option 2: Measure with the Tool's Low-Voltage Running Signal

CRP850-00E Breakout Board



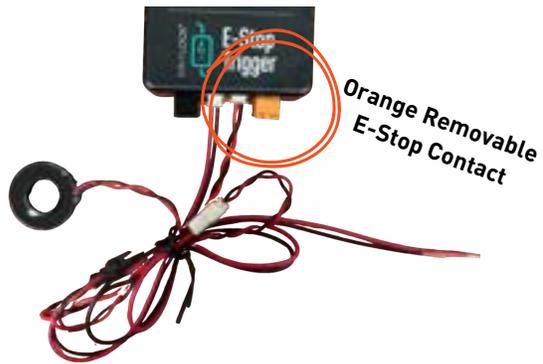
This is a schematic for an AVID CNC. Please, consult the manual for your specific tool to locate the Tool Running Signal in your machine, if applicable.

Using the Tool Running Signal (this is 5v on your AVID), insert the positive signal wire from terminal 21 into the right side of the black terminal (marked with a +) on the GRIT device.

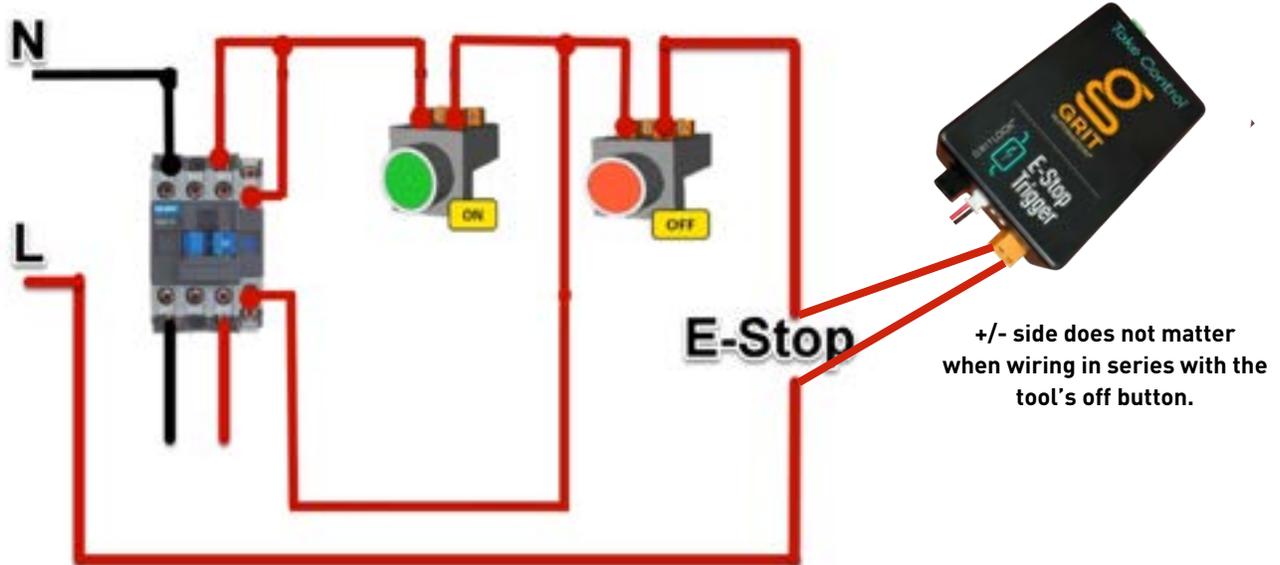
Connect the negative ground from terminal 22 to the left side of the same black terminal (marked with a -) on the GRIT device.

Plug the black terminal back into the E-Stop Trigger.

Step 3: Control the Tool's Power



Wire Inline/In Series with the Emergency Stop Button or the tool's Off Button*



*Extra wire and a wire nut are provided if an extension is required.