

XR Remote E-Stop Installation Guide

1: Install Cable on to the Enclosure

The first step in the Remote E-Stop Kit is to install the Cable for the Remote E-Stop on to the Electrical Enclosure.

MATERIALS

Parts

- (1) Existing XR Electronics Box

Hardware

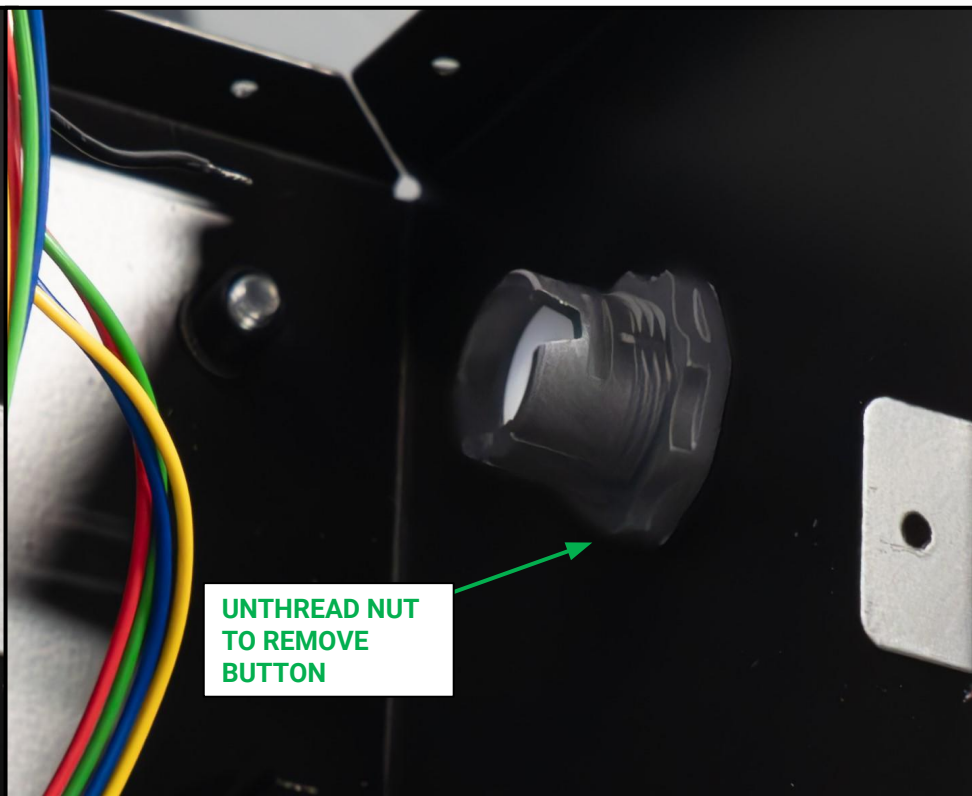
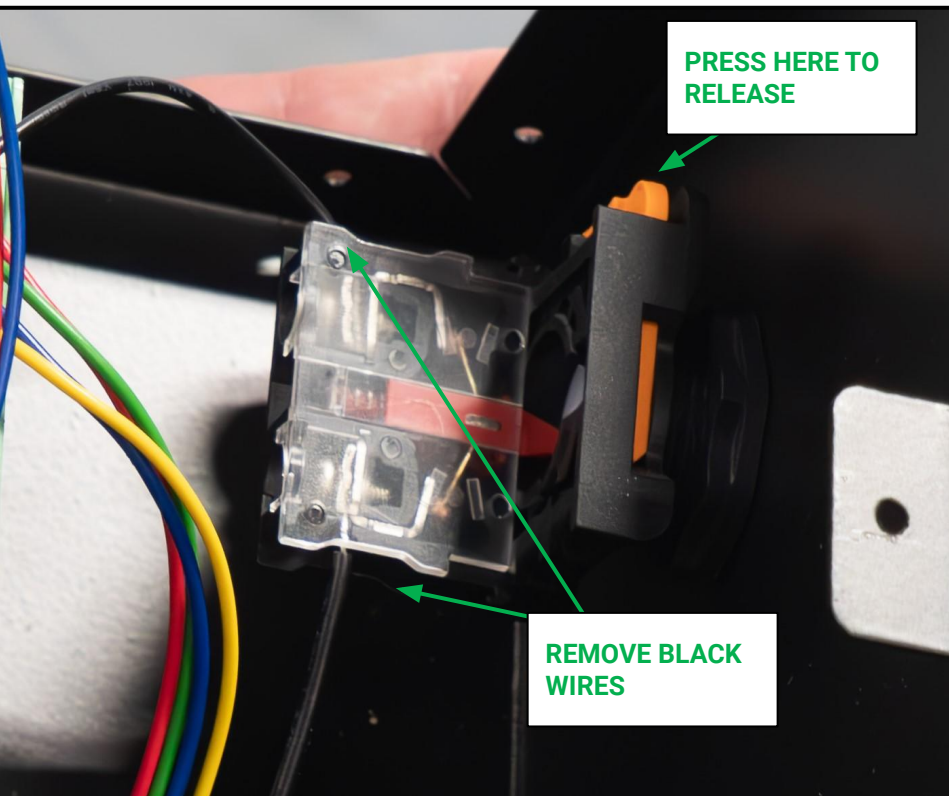
- N/A

Tools

- Flat Head Screwdriver and ½" Wrench

Instructions

- A1. Ensure your XR is completely powered off and unplugged before beginning installation of the Remote E-Stop kit.
- A2. Unscrew fasteners on the electrical enclosure panel.
- A3. Remove the electronics panel and set aside for re-installation later.



Instructions

- B1. Depress the orange lever on the **E-Stop Switch Base** and pull it away from the button until it separates.
- B2. Unthread the **E-Stop Switch Nut** and remove the **E-Stop Switch Button** from the enclosure.
- B3. Loosen the clamping screws on the **E-Stop Switch Base** screw terminals and remove the two black wires shown.
- B4. Set loose components aside for re-assembly later.

MATERIALS

Parts

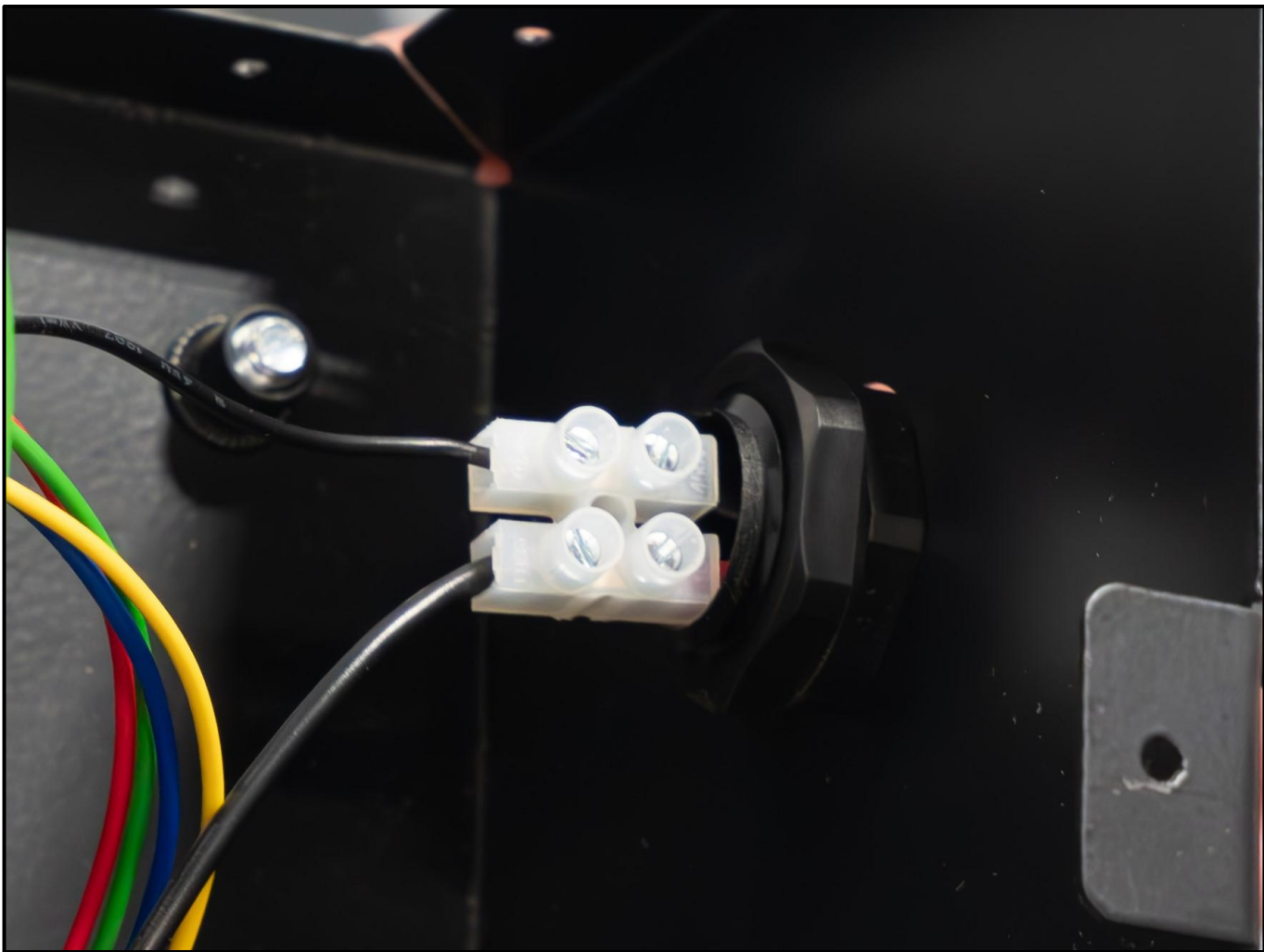
- (1) Extension Cable Assembly

Hardware

- (1) ½ NPT Cable Gland

Tools

- (2) 24mm Wrench or Adjustable Crescent Wrench
- 27mm Wrench or Adjustable Crescent Wrench



Instructions

- C1. Locate the end of the **Extension Cable Assembly** without a terminal block.
- C2. Remove the Panel Nut from the $\frac{1}{2}$ **NPT Cable Gland** and slide the end of the **Extension Cable Assembly**, without a terminal block, through the gland, such that the head of the gland faces away from the terminal block as shown.
- C3. Insert the cable gland into the E-Stop mounting hole in the electronics box, and secure it in place by threading on the Panel Nut. Tighten the Panel Nut with a 27mm Wrench or Adjustable Crescent Wrench.
- C4. Ensure the terminal block sticks out only slightly from the cable gland, as shown, and tighten the gland head until it firmly grips the cable. Tighten the head with 2 adjustable crescent wrenches, or 24mm wrenches, one to hold the body in place and one to turn the head.

MATERIALS

Parts

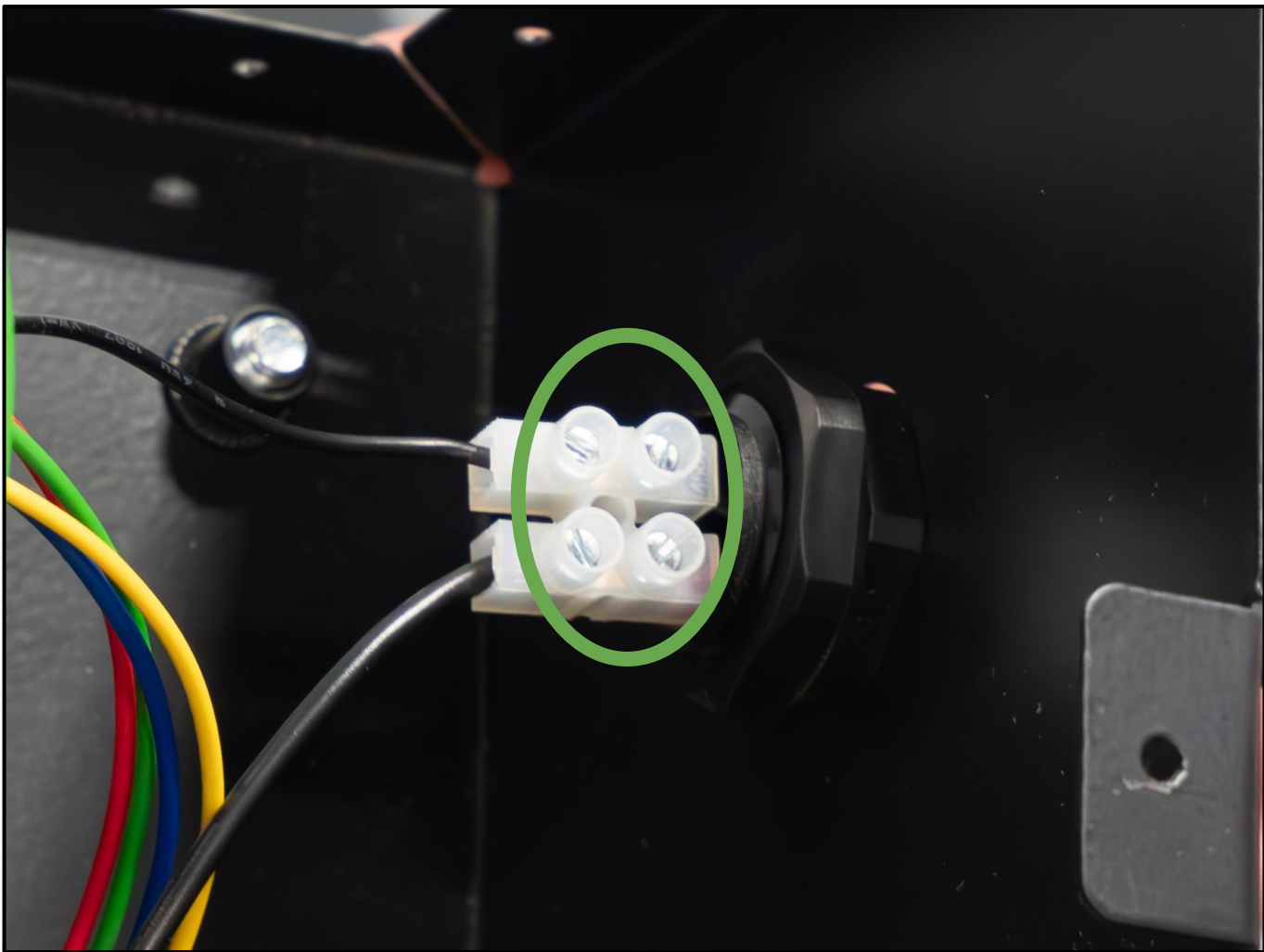
- N/A

Hardware

- N/A

Tools

- Flat Head Screwdriver



Instructions

- D2. Loosen the clamping screws on the empty end of the terminal block and insert the previously removed black wires. Set the **E-Stop Switch Base** aside for later use.
- D3. Tighten the clamping screws on the terminal block until the ends of the black wires are securely held in place.
- D4. Re-Install the electronics box cover.

2: Assemble E-Stop Box

The second step in the Remote E-Stop Kit is too assemble the box that will now hold the E-stop.

MATERIALS

Parts

- (1) E-Stop Box Bottom Half

Hardware

- N/A

Tools

- Hammer
- Punch



Instructions

- E1. Use a hammer and punch to open one of the two knockout holes on the **E-Stop Box Bottom Half** as shown.

MATERIALS

Parts

- (1) E-Stop Box Bottom Half
- (1) Extension Cable Assembly

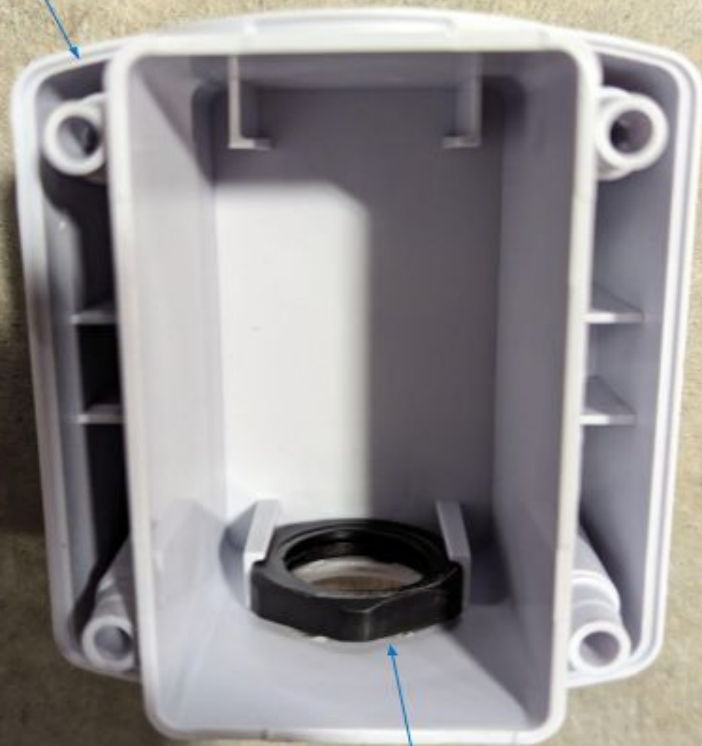
Hardware

- (1) ½ NPT Cable Gland

Tools

- 24mm Wrench or Adjustable Crescent Wrench

**E-STOP BOX BOTTOM
HALF
QTY = 1**



CABLE GLAND NUT



**½ NPT CABLE GLAND
QTY=1**

**EXTENSION CABLE ASSEMBLY
QTY=1**



Instructions

- F1. Remove the cable gland nut from the **½ NPT Cable Gland** and insert it into the holding slot in the **E-Stop Box Bottom Half**, next to the previously cleared knock out hole, as shown.
- F2. Insert the free end of the **Extension Cable Assembly** into the cable gland, such that the head of the cable gland faces away from the wires ends.
- F3. Thread the cable gland into the cable gland nut as shown. Tighten the head with a 24mm wrench or adjustable crescent wrench until the gland firmly holds the cable.

MATERIALS

Parts

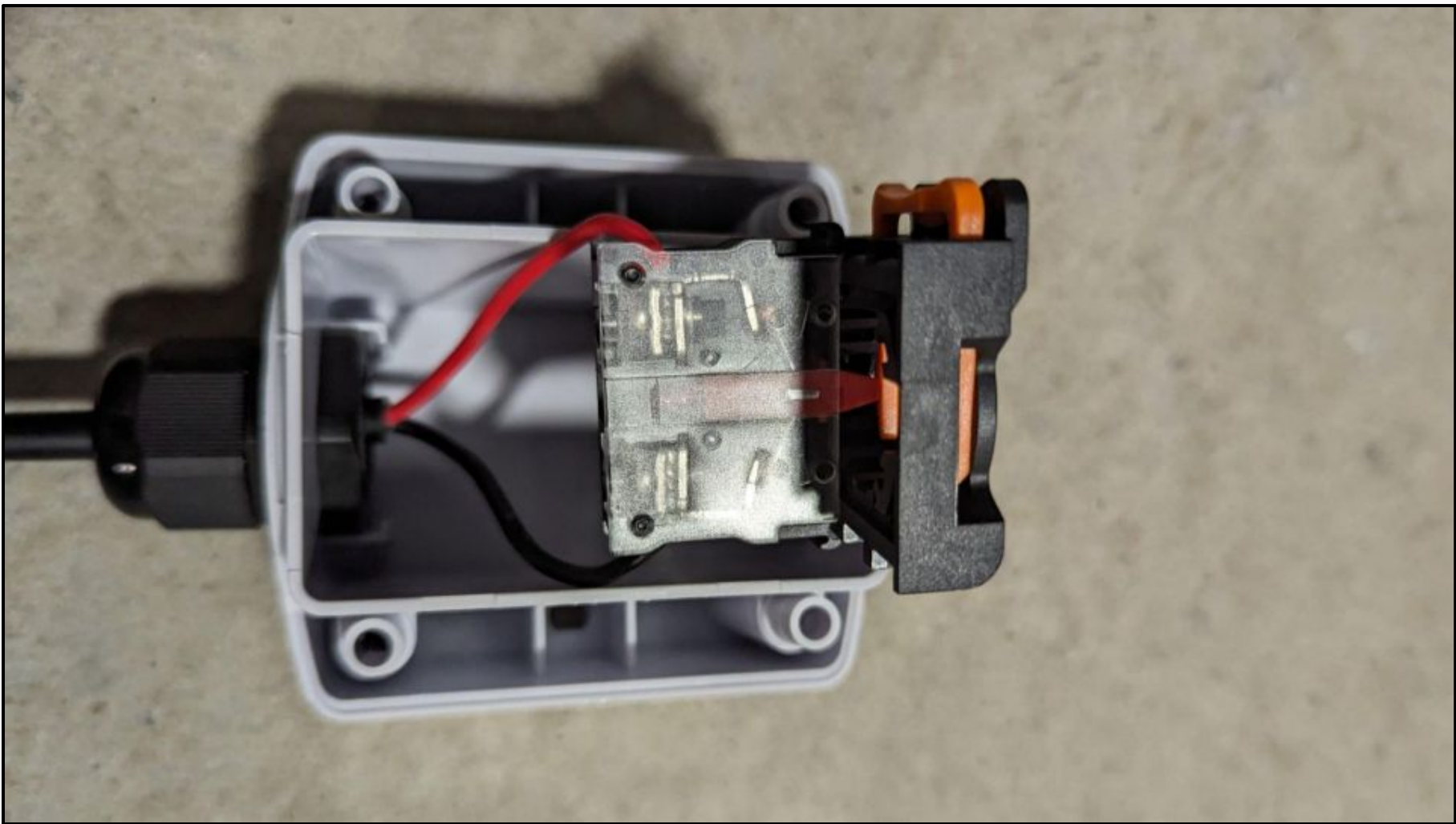
- (1) E-Stop Switch Base
- (1) Extension Cable Assembly

Hardware

- N/A

Tools

- Flathead Screwdriver



Instructions

- G1. Insert the two wire ends into the screw terminals of the **E-Stop Switch Base** and tighten until the terminal plates clamp down firmly on the wire ends as shown. The system has no polarity, either wire can be inserted into either terminal, as long as one wire is inserted into each terminal.

3: Mount the Remote E-Stop to Computer

The third step in the Remote E-Stop Kit is to mount the E-Stop to the Computer Mount.

MATERIALS

Parts

- (1) E-Stop Switch Base
- (1) Remote E-Stop Mounting Bracket

Hardware

- (2) 8-32 Flange Nuts
- (2) Socket Head Cap Screws, 8-32 X 0.75"

Tools

- 9/64 Hex Key



Instructions

- H1. Bolt the **E-Stop Box Bottom Half** to the Remote E-Stop Mounting Bracket as shown.

MATERIALS

Parts

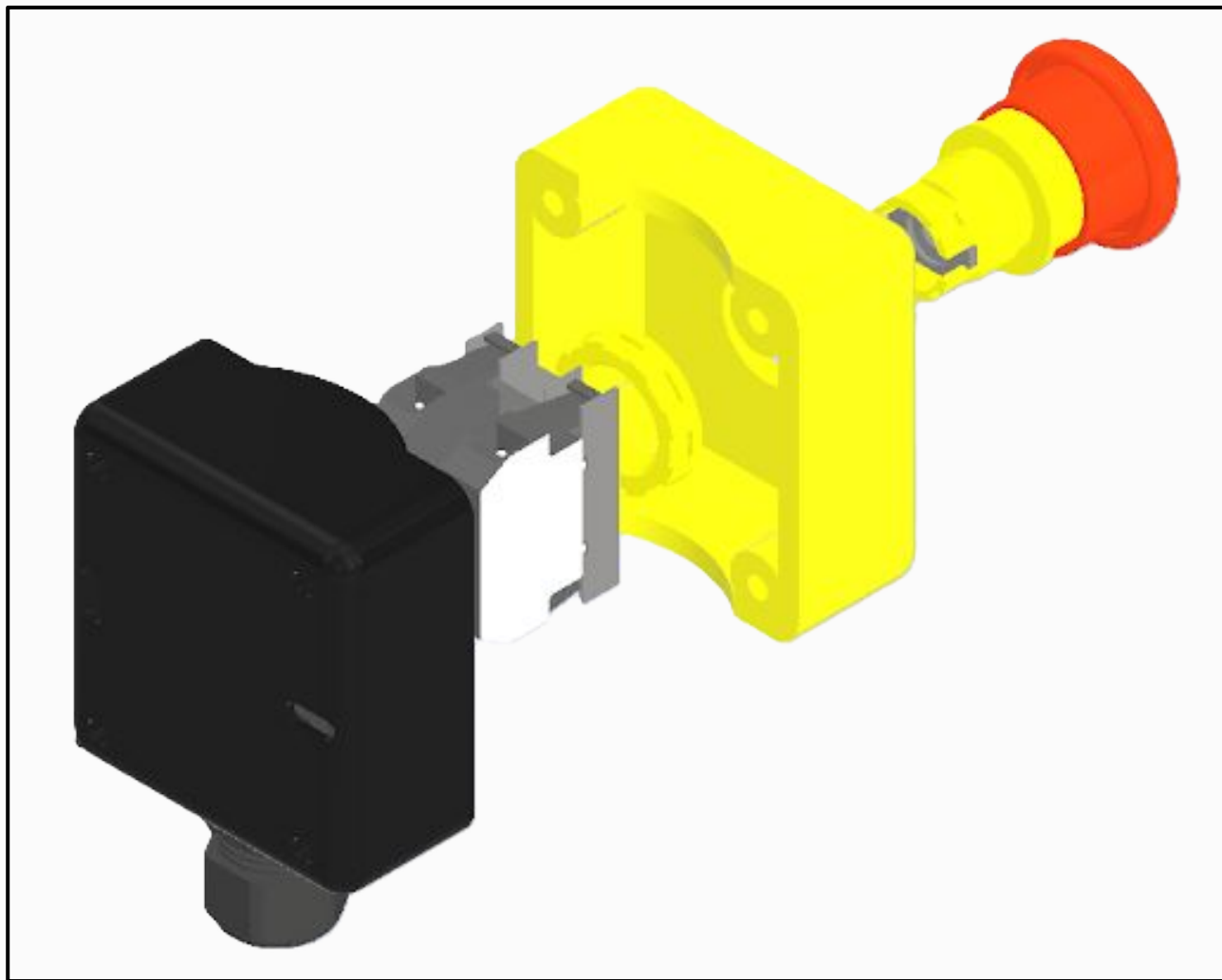
- (1) E-Stop Switch Button
- (1) E-Stop Switch Nut
- (1) E-Stop Switch Button Base
- (1) E-Stop Box Top Half

Hardware

- N/A

Tools

- N/A



Instructions

11. Secure the **E-Stop Switch Button** to the **E-Stop Box Top Half** using the **E-Stop Switch Nut** as shown. Ensure the slot in the E-stop is oriented as shown so it can be installed into the **E-Stop Switch Base**.
12. Depress the orange lever on the **E-Stop Switch Base** and insert the **E-Stop Switch Button** into the Base.

MATERIALS

Parts

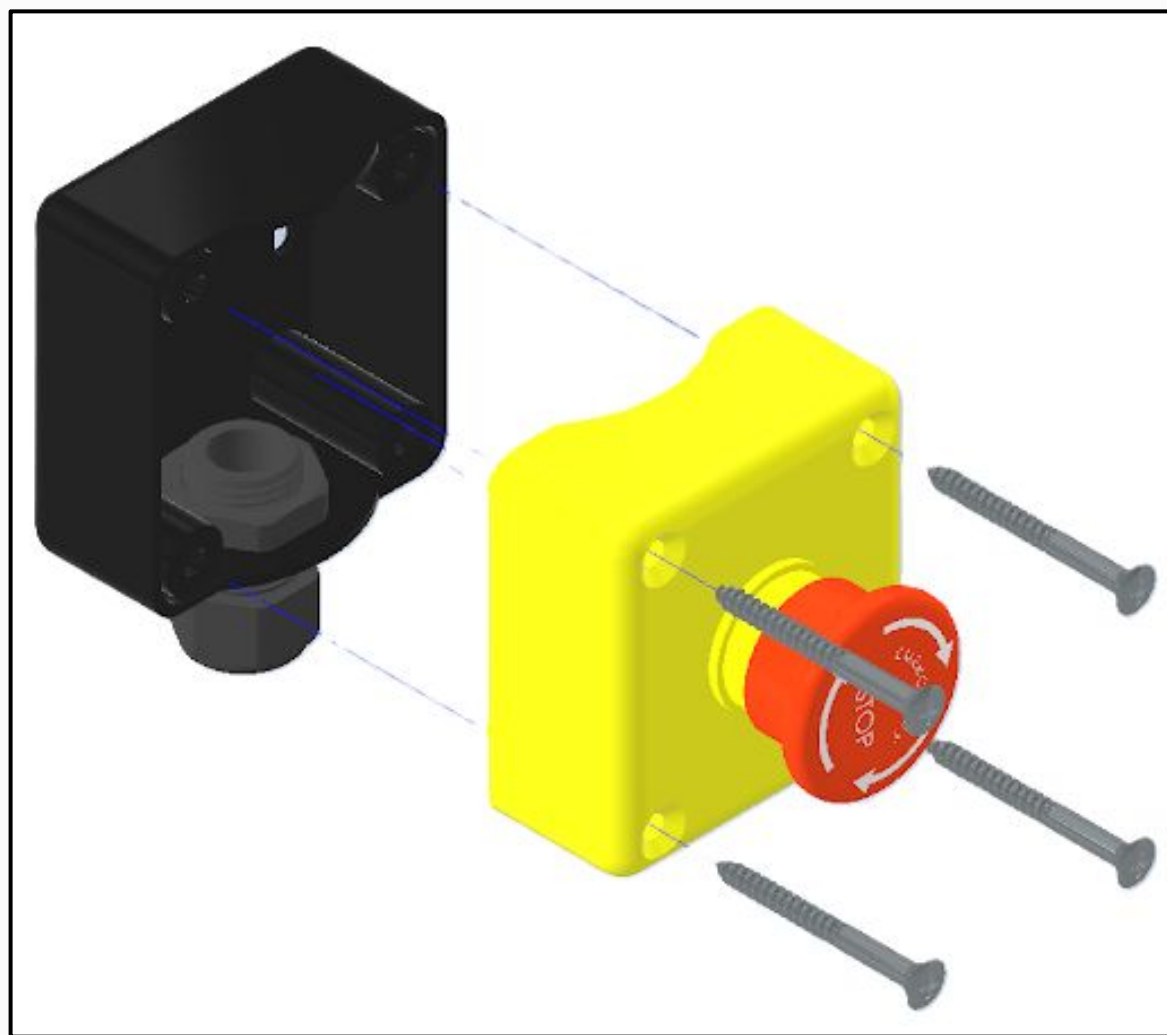
- N/A

Hardware

- (4) E-Stop Box Screws

Tools

- Phillips Head Screwdriver



Instructions

11. Install the **E-Stop Box Top Half** on to the **E-Stop Box Bottom** half using the **E-stop Box Screws** as shown. take care not to pinch any of the E-Stop wiring during installation.

MATERIALS

Parts

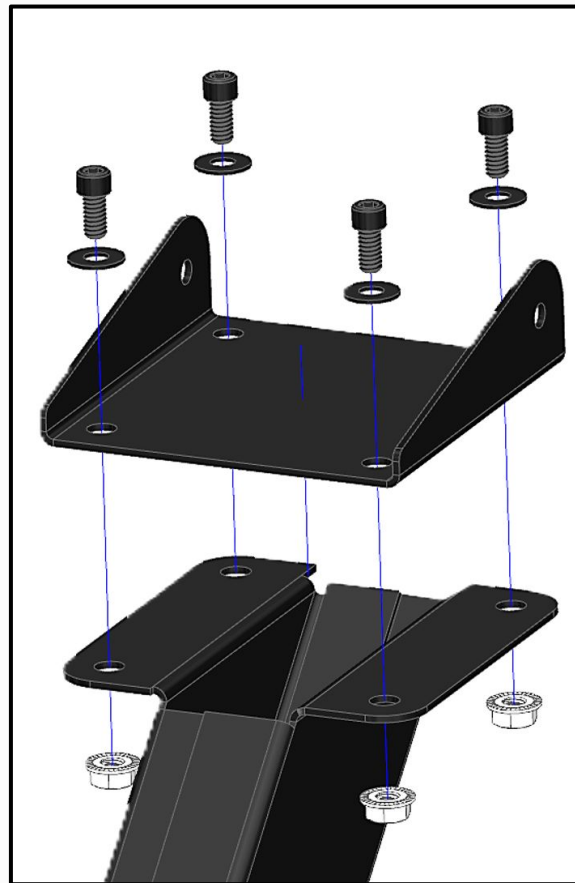
- (1) Touchscreen Pivot Bracket

Hardware

- (2) Socket Head Cap Screws $\frac{1}{4}$ -20 X $\frac{3}{4}$ "
- (2) Washer, $\frac{1}{4}$ "
- (2) Serrated Flange Nut, $\frac{1}{4}$ -20

Tools

- $\frac{3}{16}$ " Hex Key
- $\frac{7}{16}$ " Wrench or Socket



Instructions

- K1. Remove the Touchscreen Monitor from the Computer Stand.
- K2. Unfasten Touchscreen Pivot Bracket from the Computer Stand.

MATERIALS

Parts

- (1) E-Stop Box and Bracket Assembly
- (1) Touchscreen Pivot Bracket

Hardware

- (2) Socket Head Cap Screws $\frac{1}{4}$ -20 X $\frac{3}{4}$ "
- (2) Washer, $\frac{1}{4}$ "
- (2) Serrated Flange Nut, $\frac{1}{4}$ -20

Tools

- $\frac{3}{16}$ " Hex Key
- $\frac{7}{16}$ " Wrench or Socket



Instructions

- L1. Install the **E-Stop Box and Bracket Assembly** with the fasteners as shown.
- L2. Plug in and power on the XR.
- L3. Press the **E-Stop Button** and ensure power to the machine is cut.
- L4. De-Latch the **E-Stop Button** and ensure power returns.
- L5. Install Touch Screen Monitor Mount.