

E140-1039-01 EV02 Cable
Upgrade/Replacement Procedure

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Document Title	E140-1039-01 EV02 16mm Cable Upgrade/Replacement Procedure
Revision Number	5
Status	Released
Issue Date	10/15/24

Document Revision History

Rev.	Date	Author	Description of changes
1	7/12/23	Liam O'Brien	Created Document
2	7/12/23	Lucas Efcavitch	Added new photos
3	7/17/23	Liam O'Brien	Minor content edits
4	7/25/23	Josh Bowes	Part # and product name update
5	10/15/24	Ron van Thiel	Update title and add additional warning



Warning: EV02 must be serviced by a trained and licensed electrician.



Warning: This procedure contains critical steps that must be followed exactly. Failure to do so could result in injury, property loss, or death.



Warning: Turn off breaker at upstream panel before opening the charger

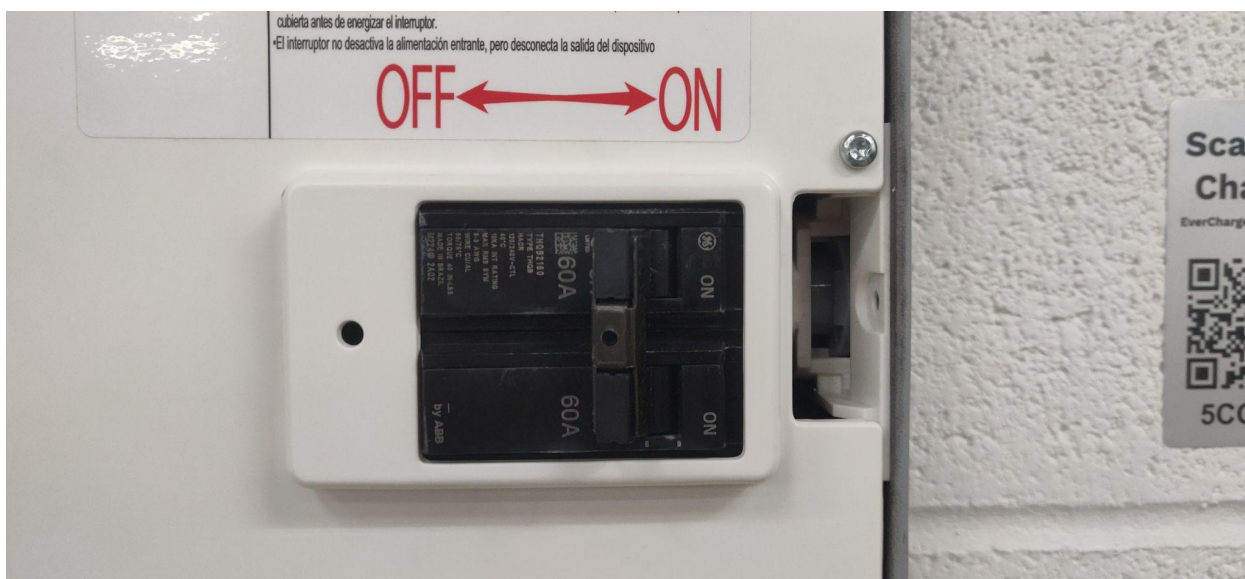
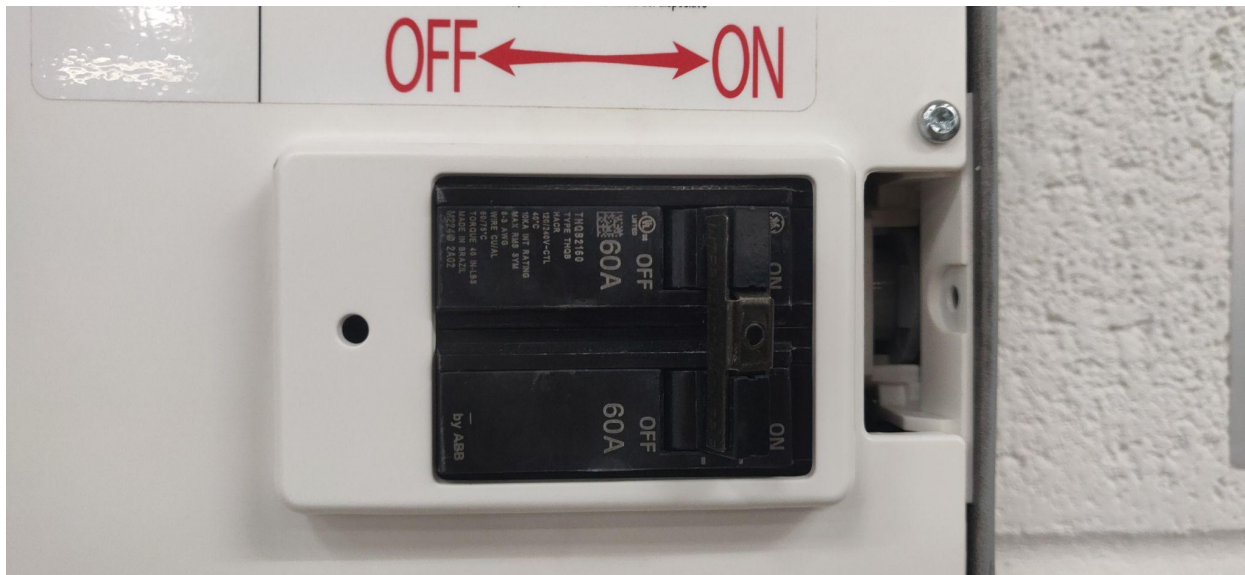
1. Secure the output cable on a stable surface, or optional cable hanger if available.



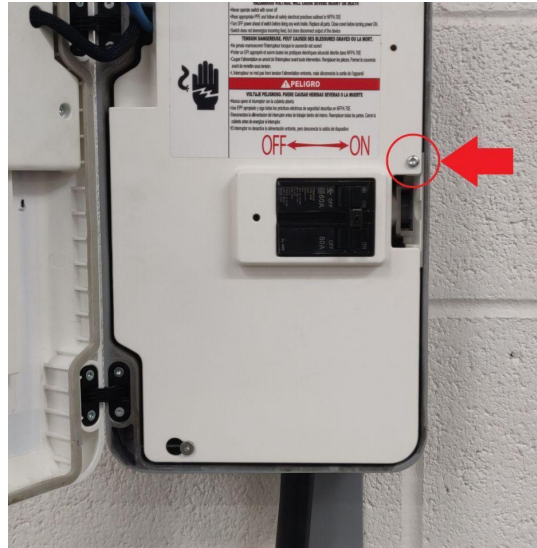
2. If installed, use a T20 Torx screwdriver to remove the security screw on the right-hand side of the enclosure. Push the button on the right-hand side of the unit and open the door.



3. Move the breaker to the OFF position. **VERIFY THAT POWER IS OFF BEFORE CONTINUING.**

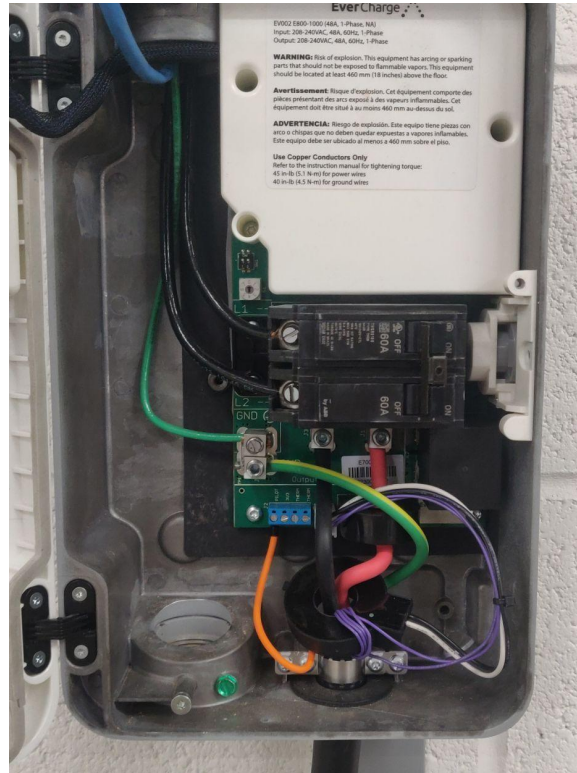


4. Remove the retaining screw on the occlusion panel using a T20 Torx screwdriver.

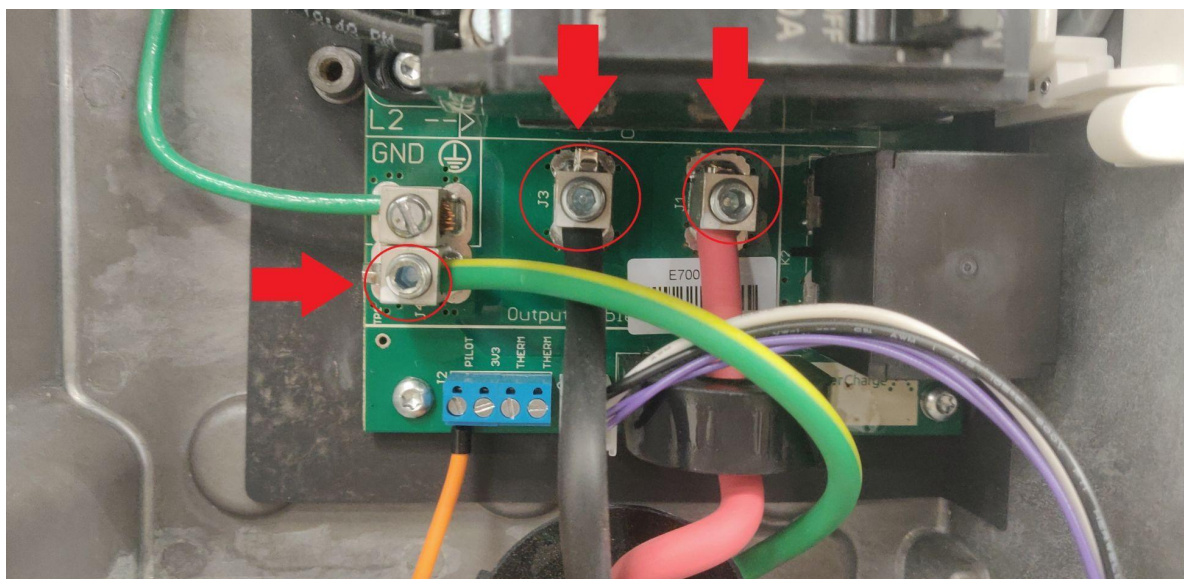


5. Remove the panel from the enclosure.

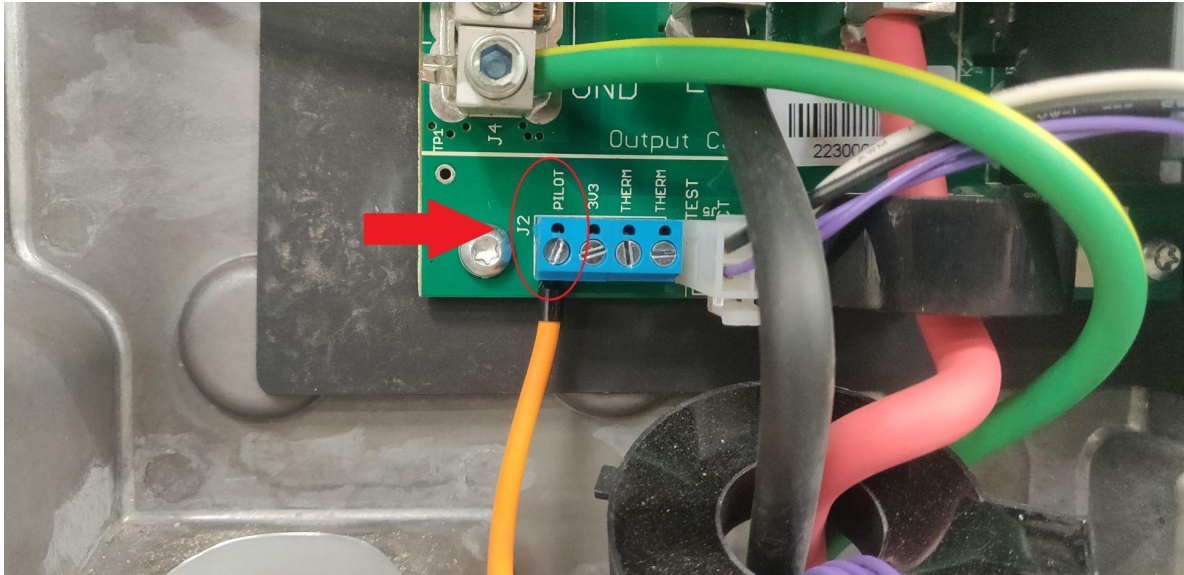
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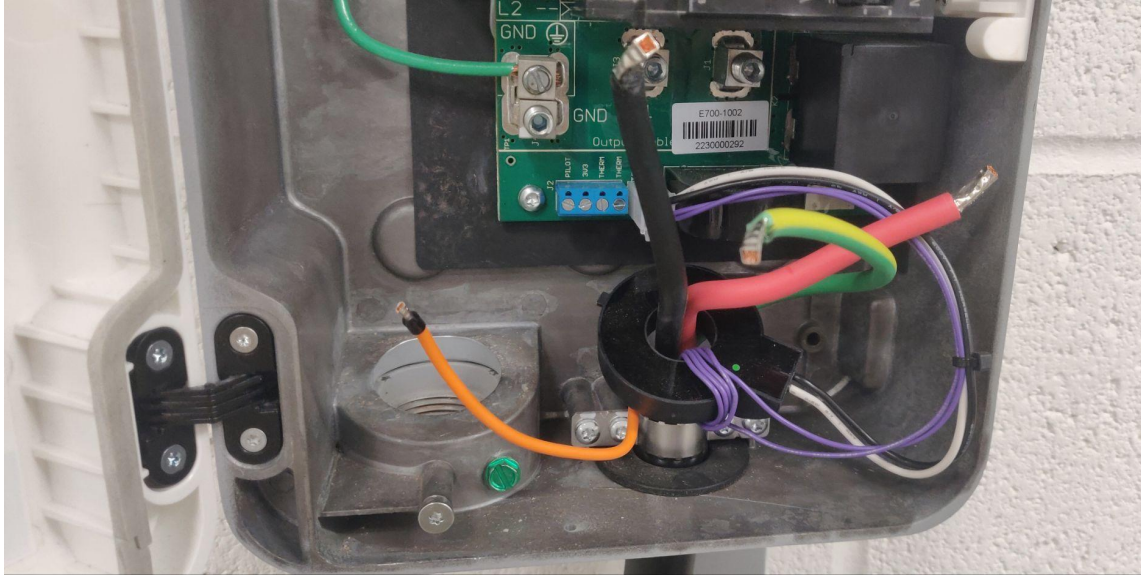
6. Loosen the lugs holding the output power wires using either a slotted screwdriver or 5/32" hex wrench.



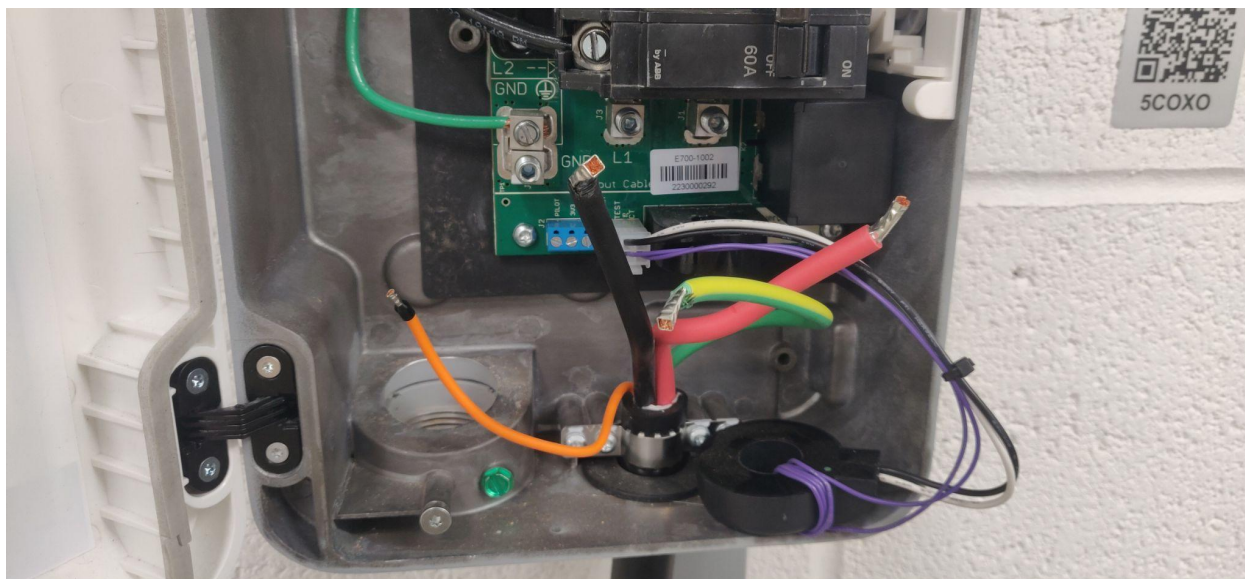
7. Using a $\frac{1}{8}$ " flathead screwdriver, unscrew the pilot wire terminal and remove the wire.



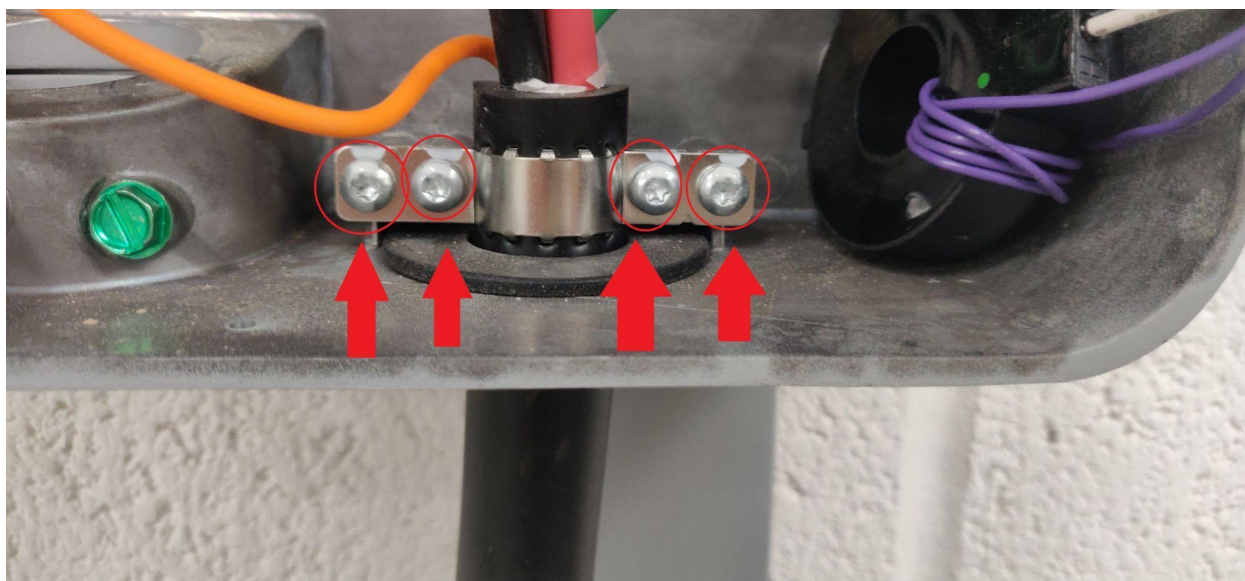
8. Remove all wires from their terminals, and remove the L2 wire from the current transformer mounted on the board.



9. Remove the L1 and L2 wires from the current transformer. Set the current transformer aside.



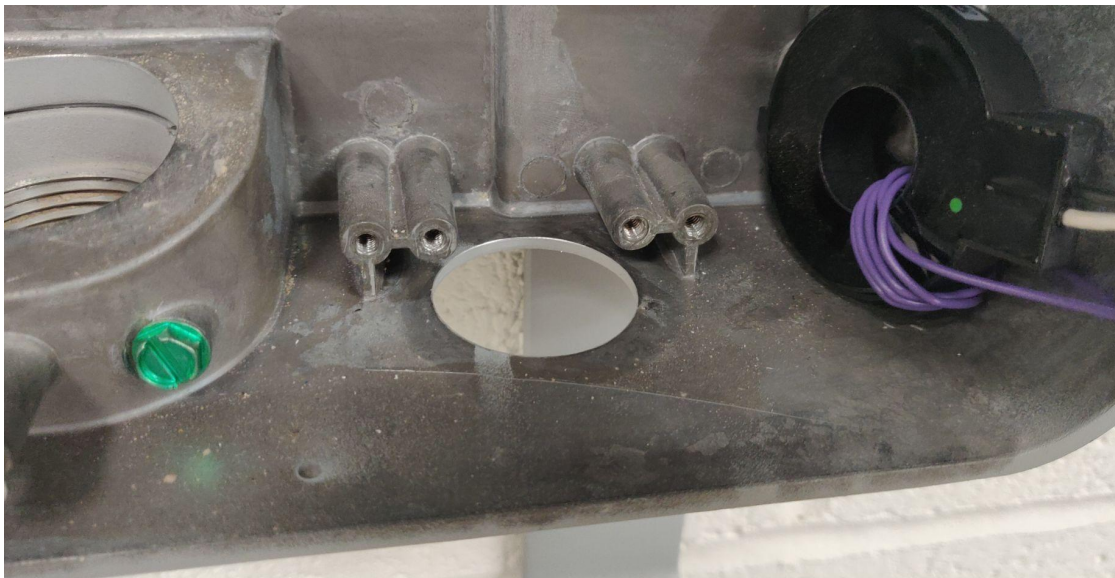
10. Remove the four screws holding on the cable bracket using a T20 Torx screwdriver.



11. Remove the cable bracket, and slide the cable out of the enclosure



12. Remove the rubber grommet.

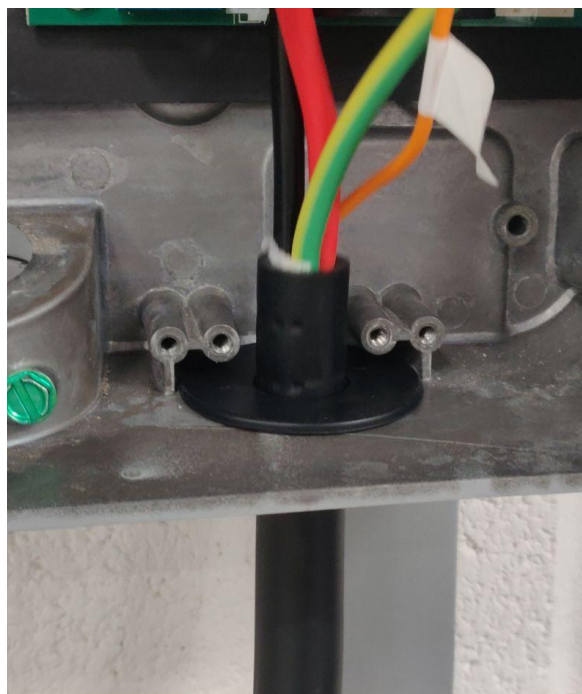


13. Discard the old cable and hardware. **Do not use any of the old hardware.**
14. Secure the new output cable to a stable surface, or optional cable hanger if available.

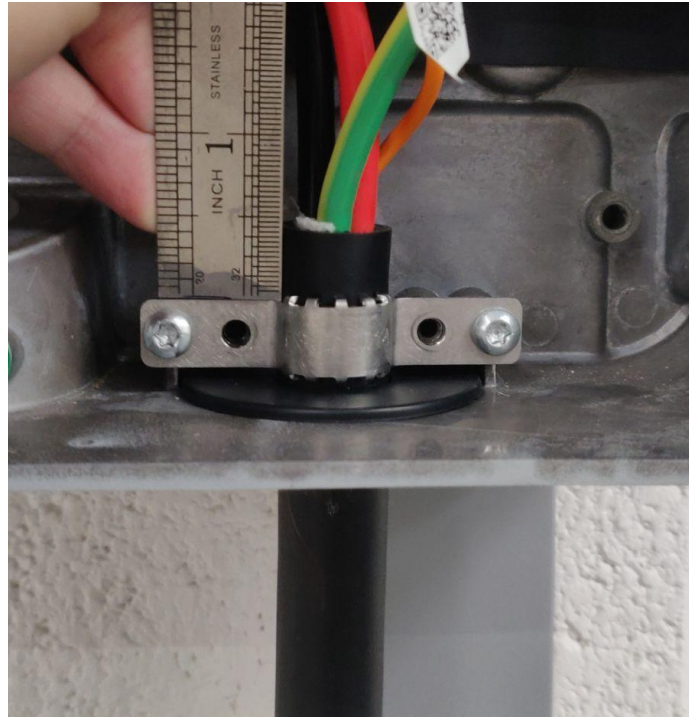
15. Install the new grommet into the hole.



16. Insert the cable through the grommet.

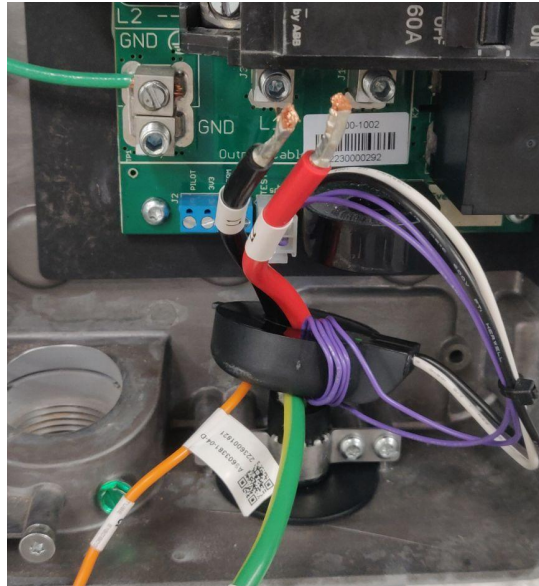


17. Attach the strain relief bracket, leaving approximately 0.5" of insulation above the cable bracket as shown. Install all four screws using a T20 Torx screwdriver.

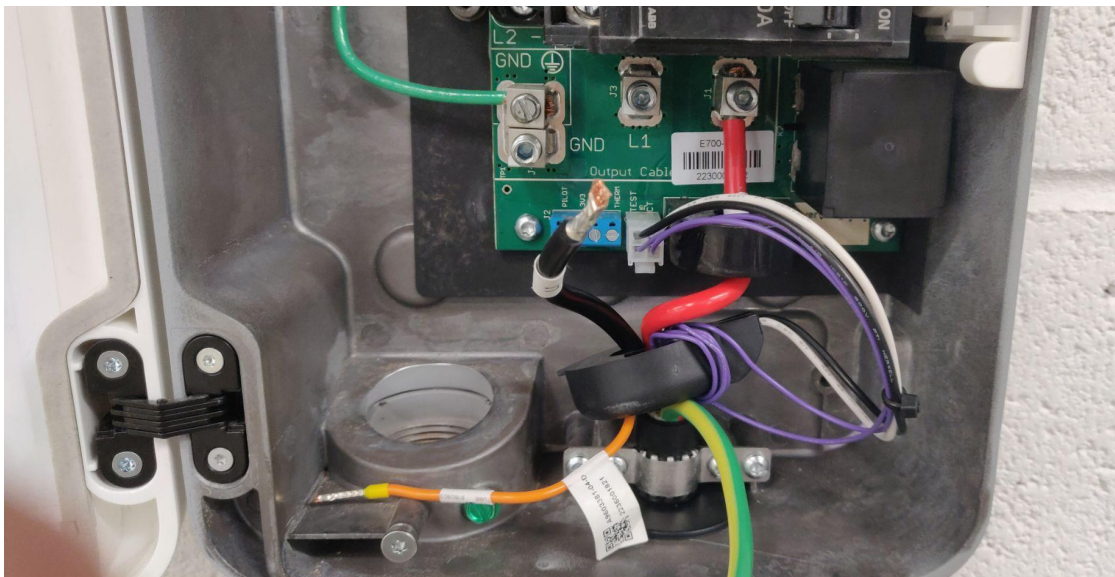


18. Pass the L1 and L2 wires through the current transformer.

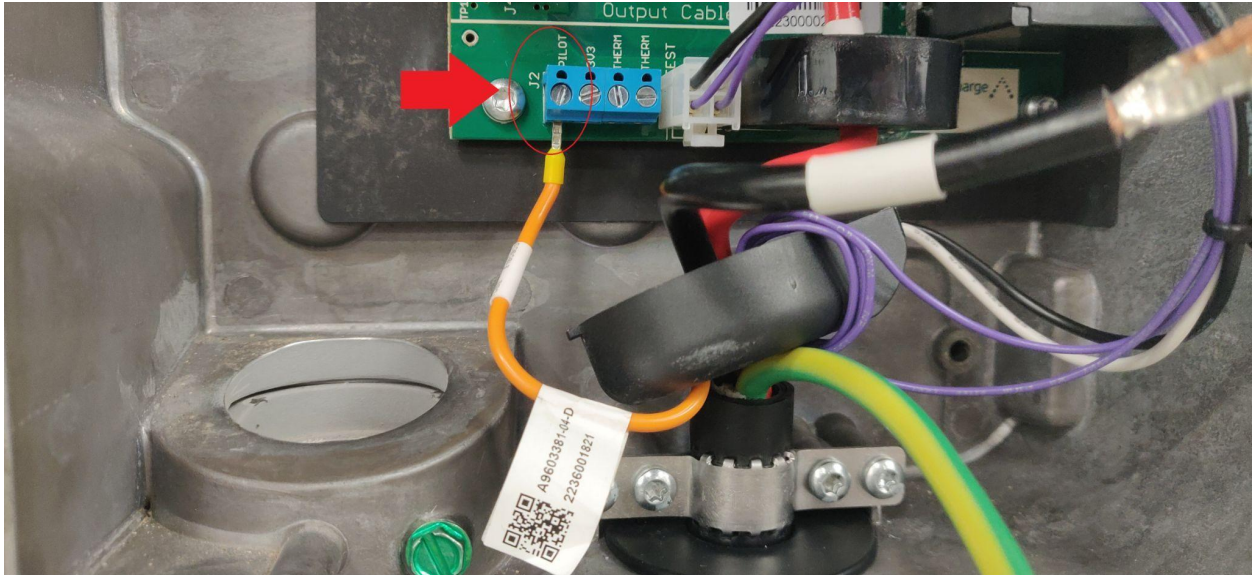
⚠ NOTE: Both L1 and L2 MUST pass through the CT as shown



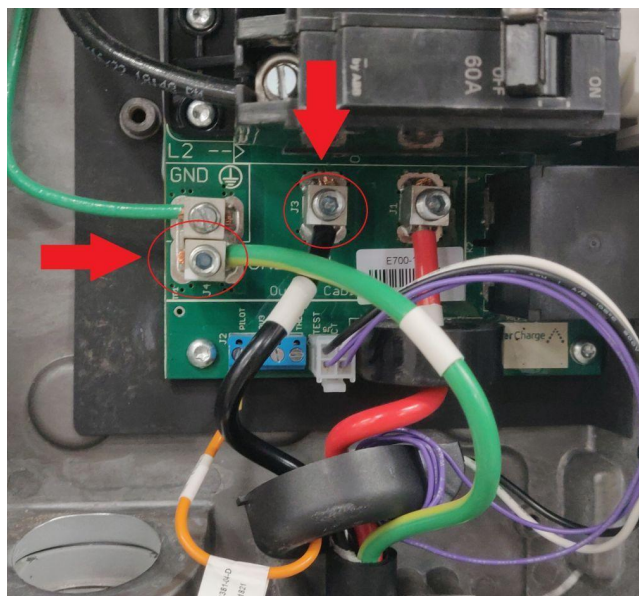
19. Pass the L2 wire through the current transformer onto the board and into the L2 lug on the board.



20. Insert the Pilot wire into the pilot terminal and screw it in with a $\frac{1}{8}$ " flathead screwdriver. For Tesla connectors only, insert the blue wire next to the pilot in the terminal labeled 3v3.



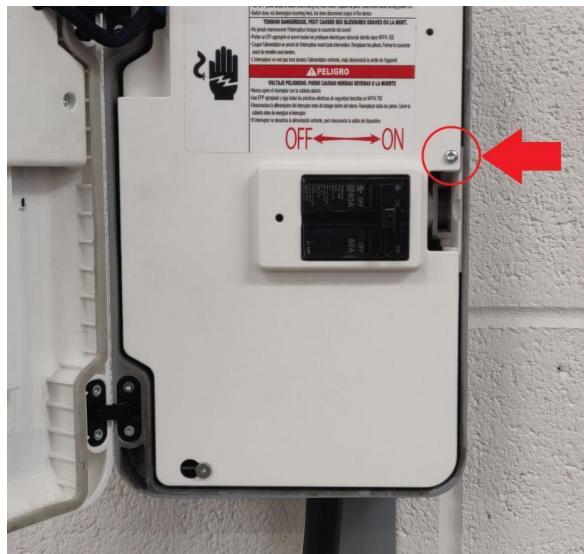
21. Insert the Earth wire into the lug labeled GND and insert the L1 wire into the lug labeled L1.



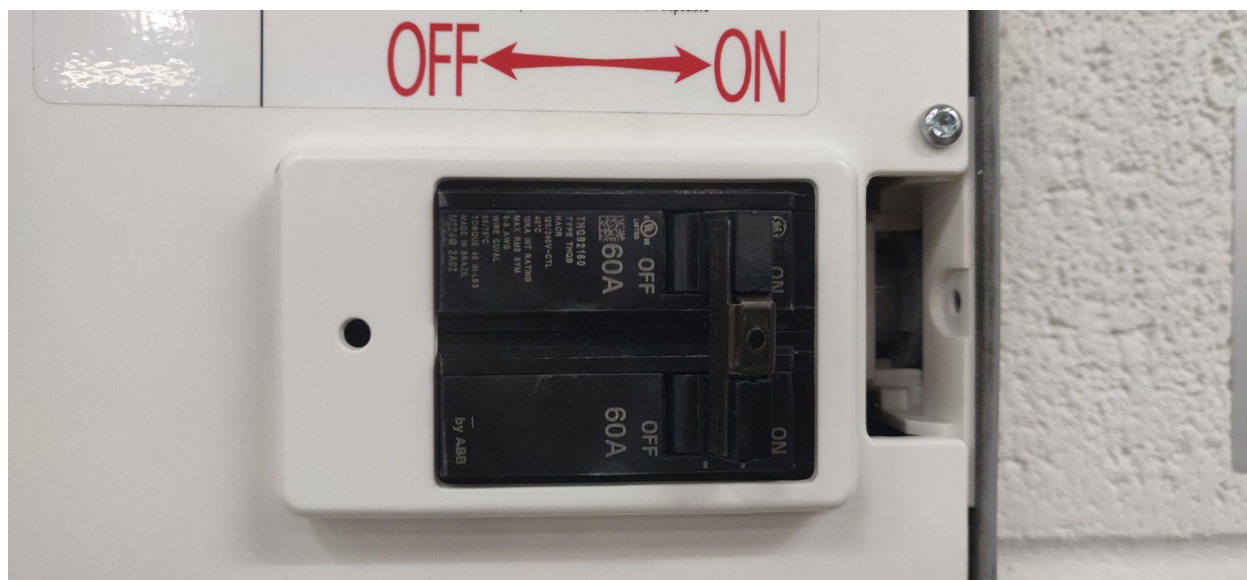
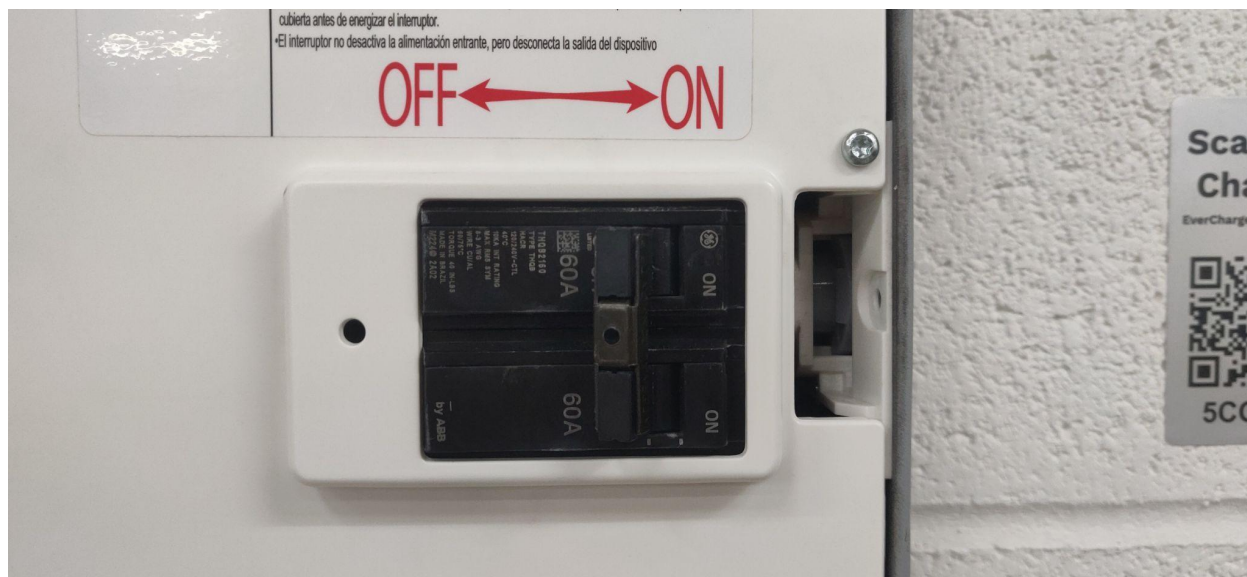
22. Tighten the GND, L1, and L2 lugs to the appropriate torques listed below:

L1 and L2	45in-lb
Ground	40in-lb

23. Replace the panel on to the enclosure and tighten the mounting screw with a T20 Torx screwdriver.



24. Switch the breaker to the ON position



25. Close the door, and replace the security screw if previously installed.



26. The LEDs go through a sequence of flashing, ending with the green LED staying steadily ON. If there is a solid or flashing Red LED, contact EverCharge.

27. Test the unit using the EverTester device and confirm that GFCI test shows **“PASS”**



NOTE: If a test device is not available, photos of the installation and the CT wiring must be sent to engineering for review before leaving the job site.