

VEX-8 NEMA Series

Installation Instructions



IMPORTANT SAFEGUARDS READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

When using electrical equipment, basic safety precautions should always be followed including the following:

- **DISCONNECT AC POWER SUPPLY BEFORE SERVICING.**
- Installation and servicing of this equipment should be performed by qualified service personnel only.
- Ensure that the electrical wiring conforms to the National Electrical Code NEC® and local regulations, if applicable.
- Do not mount near gas or electrical heaters.
- Equipment should be mounted in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Any modification or use of non-original components will void the warranty and product liability.
- Do not use this equipment for other than intended use.
 - Allow battery to charge for 24 hours before first use.

SAVE THESE INSTRUCTIONS!

Technical Support ■ (623) 580-8943 ■ technicalsupport@barronltg.com

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Assembly of VEX-8 inside NEMA enclosure for NY

1. Open the clear cover of the NEMA enclosure by flipping the plastic latches up. (Fig. 1)

2. Remove the metal mounting plate within the enclosure and set aside for later use. (Fig. 2 and 3)

Fig. 1



Fig. 2



3. Using the supplied enclosure mounting template on Page 11, choose the necessary holes for the J-box. (Fig. 4)

Fig. 3

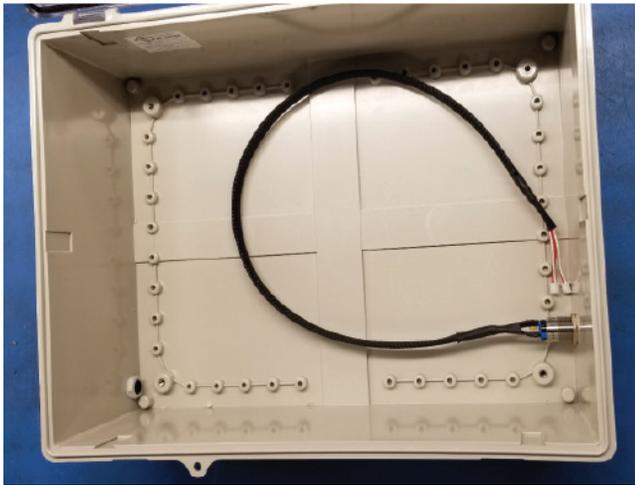
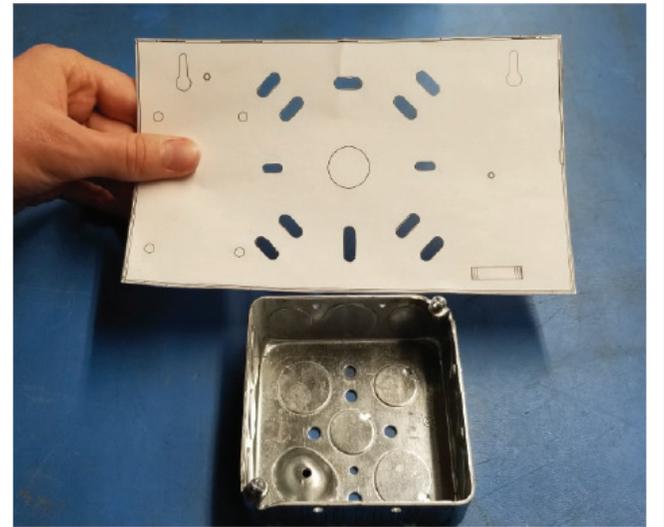


Fig. 4



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4. Center the template on the back of the NEMA box. (Fig. 5)

5. After centering the template, mark the location of the necessary holes onto the NEMA box. (Fig. 6)

Fig. 5

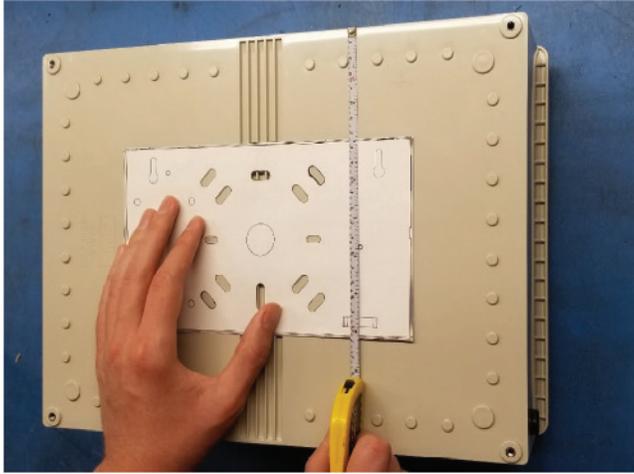
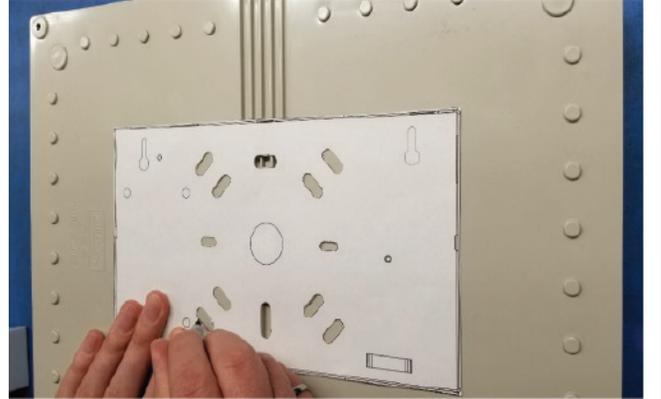


Fig. 6



6. Drill holes at the marked locations, as well as a hole in the center for the wires to pass through. (Fig. 7)

7. With the holes drilled, pass the wires from the J-box through the center hole. (Fig. 8)

Fig. 7



Fig. 8



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8. Secure the NEMA enclosure to the J-box using the necessary hardware (provided by others). (Fig. 9)

9. Reinstall the metal mounting plate using the supplied screws. (Fig. 10)

Fig. 9

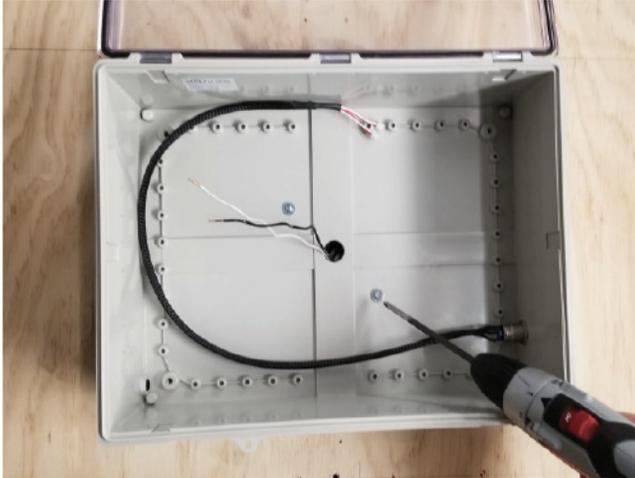
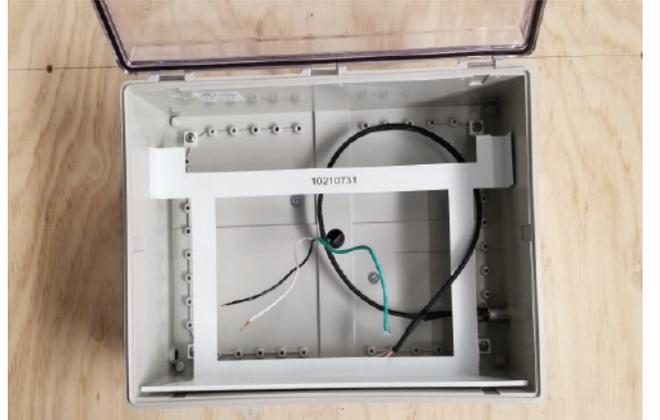


Fig. 10

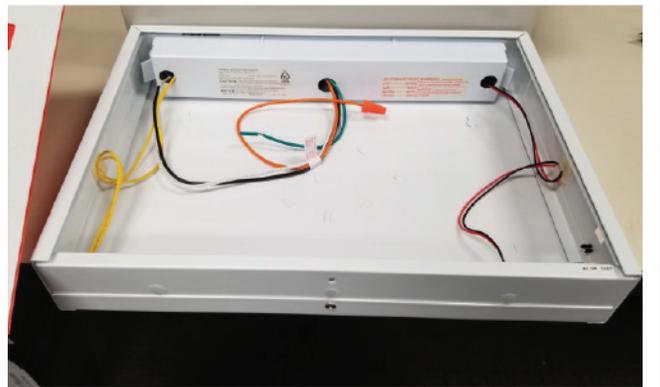


10. Remove the front face of the VEX fixture using a screwdriver. (Fig. 11 and 12)

Fig. 11



Fig. 12

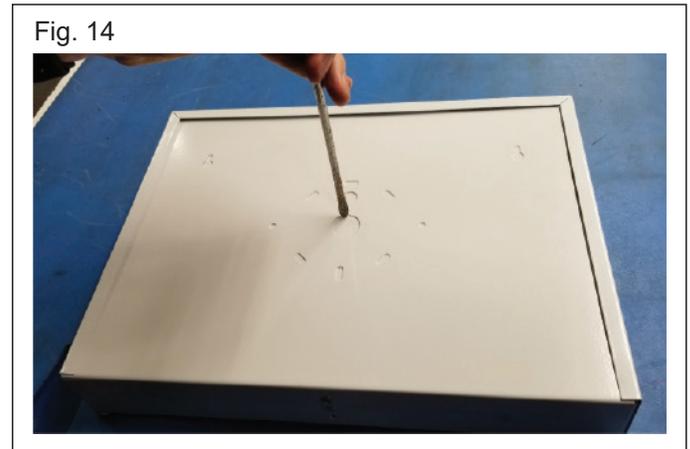
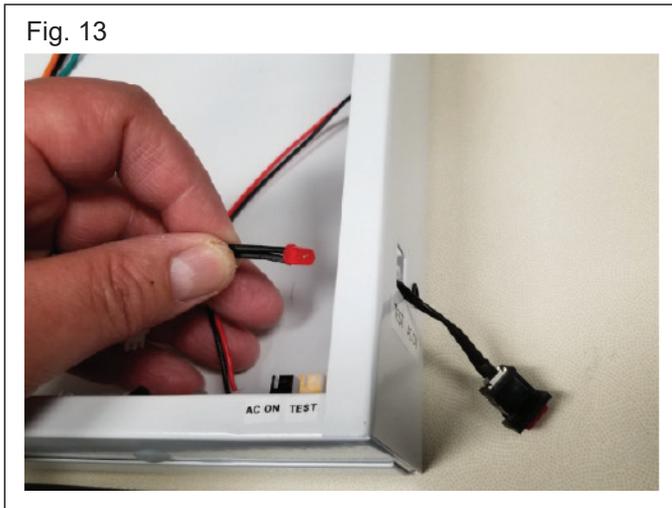


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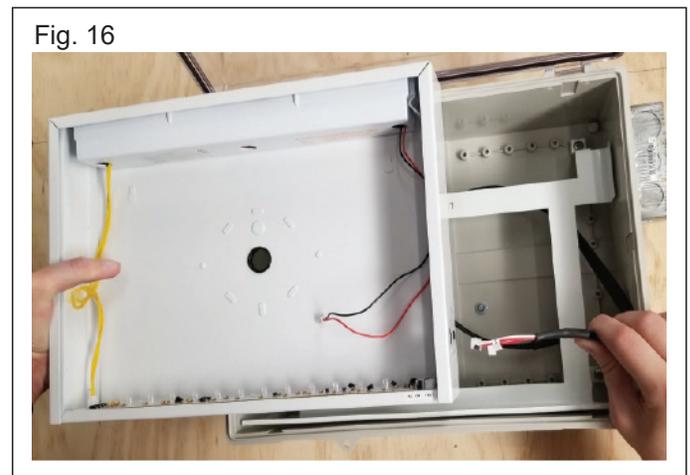
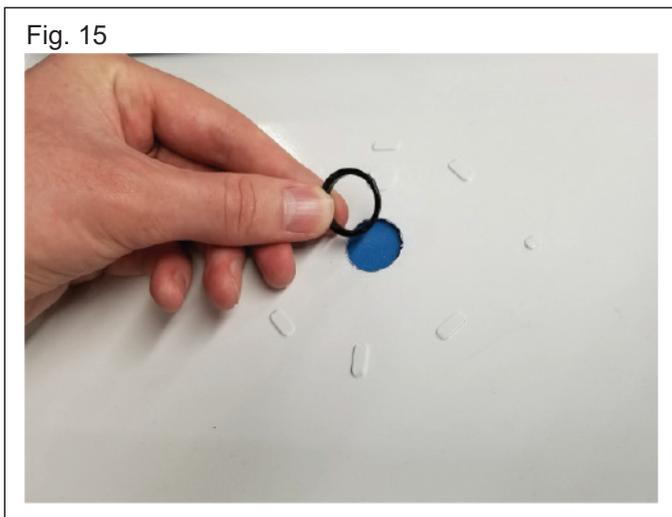
11. Remove the LED indicator and test button from the side of the enclosure, making note of the location on the PCBA where they are plugged in and discard. (Fig. 13)

12. Remove the center knockout from the back of the fixture. (Fig. 14)



13. Remove any burrs from the hole (if necessary) and insert the plastic grommet. (Fig. 15)

14. Pass the wires from the NEMA enclosure's test button through the square hole on the side of the fixture where the test button was, making sure to pass it around the right side of the mounting plate. (Fig. 16)



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15. Pass the wires from the J-box through the center hole of the fixture. (Fig. 17)
16. Place the fixture on the mounting plate, making sure the fixture sits behind the front lip of the mounting plate. This will make it easier to make the wire connections. (Fig. 18 and 18a)

Fig. 17

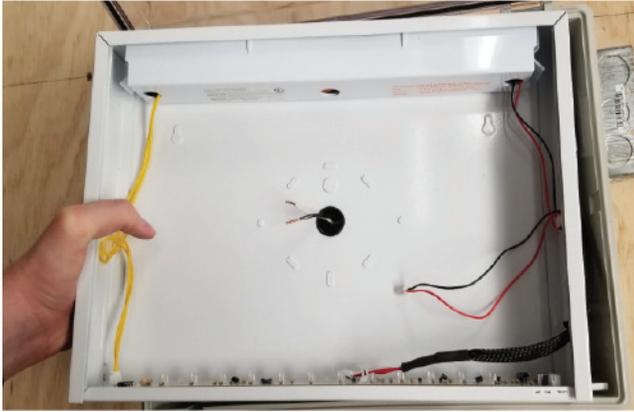
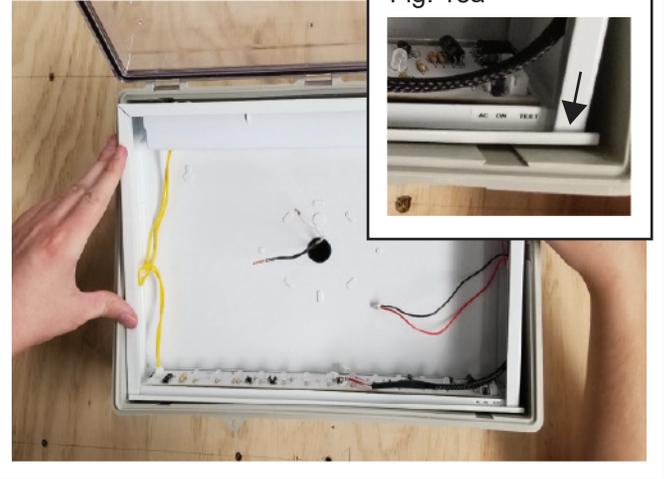


Fig. 18



17. Remove the battery compartment within the top of the fixture. (Fig. 19)
18. Pass the power wires found within the battery compartment through the hole in the bottom of the wire housing. All electrical connections should be made inside the J-box. Make electrical connections as follows: (Fig. 20)

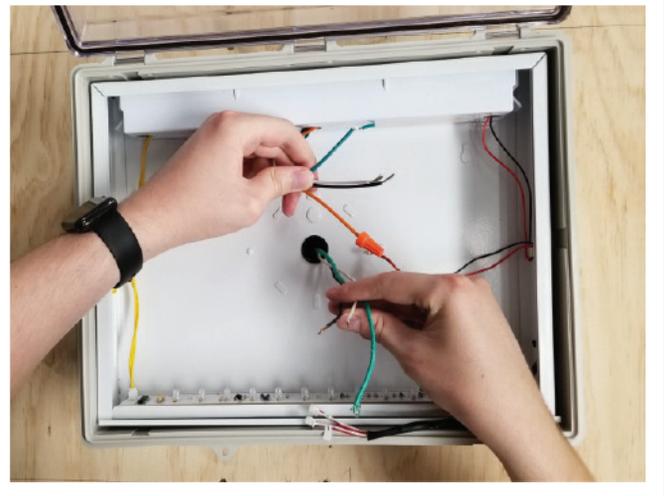
Black - 120VAC
Red or Orange - 277VAC
White - Common
Green - Ground

Note: Cap unused leads to prevent shorting.

Fig. 19



Fig. 20



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19. With the proper connections made, push the wires through the backplate. (Fig. 21)

20. Snap the battery compartment back into place so that the tabs on both sides are locked and secured. (Fig. 22)

Fig. 21

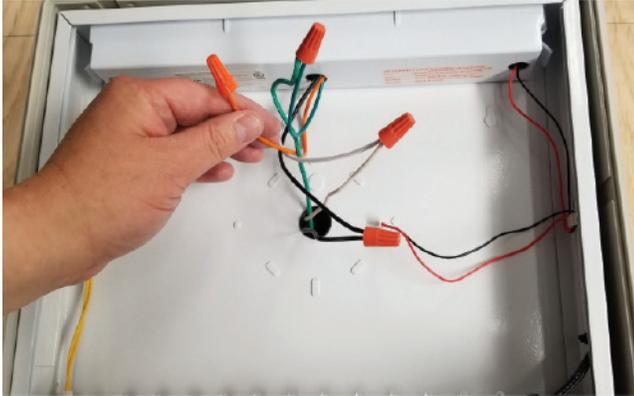


Fig. 22



21. Locate the battery wire coming from the battery compartment and plug the connector into the PCBA connector at the location shown. The PCBA connector for the battery is located behind the connector for the test switch, labeled "TEST" (Fig. 23 and 23a)

22. Locate the wire labeled "TEST" from the button wire harness and plug it into the corresponding PCBA connector labeled "TEST". (Fig. 24 and 24a)

Fig. 23

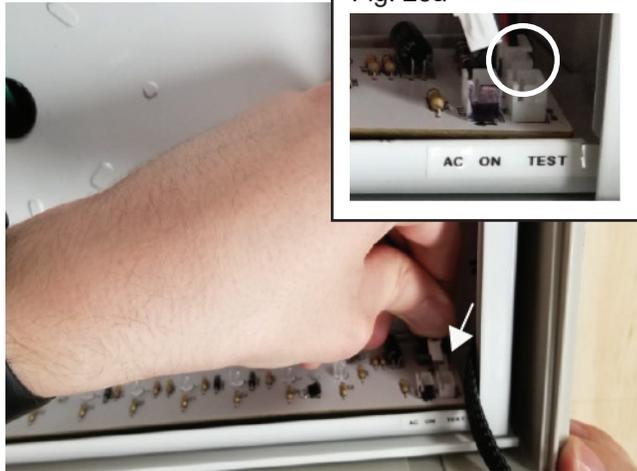


Fig. 23a

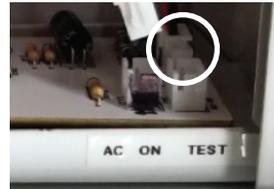


Fig. 24



Fig. 24a



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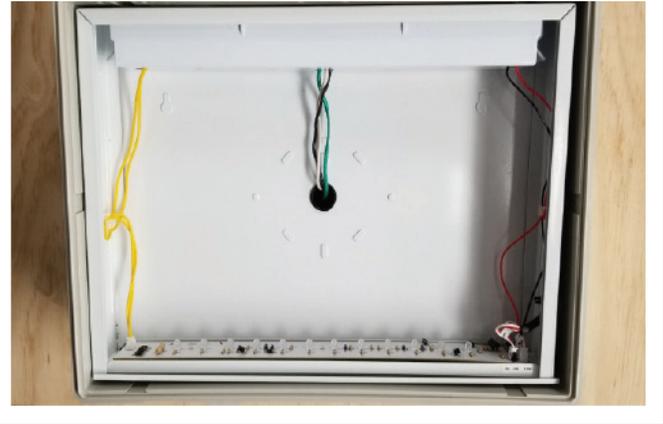
23. Locate the wire labeled “AC ON” from the button wire harness and plug it into the corresponding PCBA connector labeled “AC ON”. (Fig. 25)

24. The fixture is now completely wired. (Fig. 26)

Fig. 25



Fig. 26



25. Lift the fixture out of the metal mounting plate. At this time, the wires can be concealed within the J-box (all power supply wire connections need to be made inside the J-box). (Fig. 27)

26. Reinstall the front face of the fixture. (Fig. 28)

Fig. 27



Fig. 28



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27. Place the fixture back onto the metal mounting plate, again being sure it sits behind the front lip of the mounting plate. Slide the two plastic stoppers into the slots in the NEMA enclosure, as shown. These prevent the fixture from falling forward. (Fig. 29)

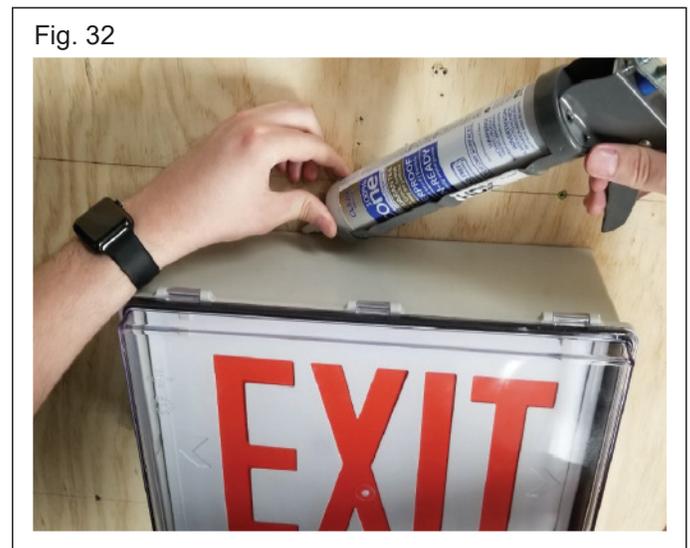
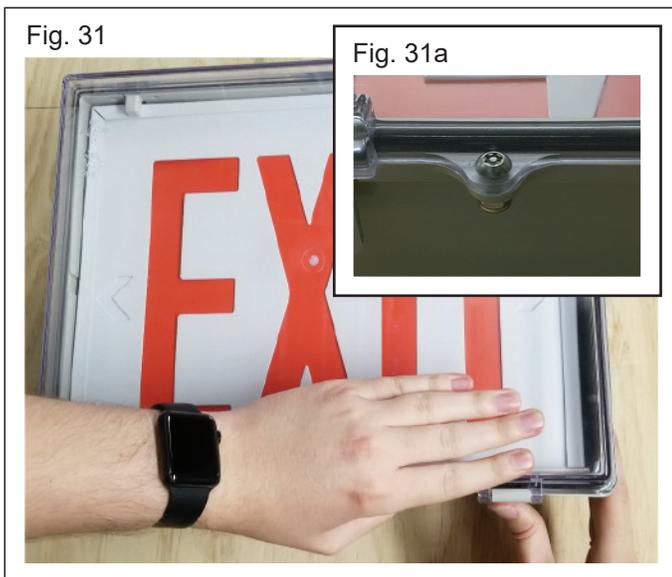
28. Close the lid of the NEMA enclosure. (Fig. 30)



29. Secure the lid by closing the two plastic latches. (Fig. 31)

30. Install tamper resistant screw through the holes found within the lid. (Fig. 31a)

31. Apply silicone to seal the enclosure against the mounting surface in order to prevent water from getting to the J-box. (Fig. 32)



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32. Turn the power ON and ensure that the sign and test button are both illuminated. Perform a test of the fixture by depressing the test button for 1 second, checking that the sign briefly flashes once. (Fig. 33 and 34)

Fig. 33



Fig. 34



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Mounting Template

