



UNTERMINATED WIRING HARNESS INSTRUCTIONS

REVISION 0

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Hull Marine Products

Preface:

Thank you for purchasing a Hull Marine Products product. This instruction manual is to inform you on the best practice for installing the jack plate wiring harness. Alterations may be made to best suit your application, however any deviation from these instructions may invalidate the warranty on the product. Keep in mind that the relays of this harness are designed for 40-amp continuous duty, and 80-amp intermittent peak.

Warning:

A fuse is included between the relays and the switch, as well as a breaker for installation between the battery and the relays. Removal or non-installation of the breaker between the battery and the relays will not only invalidate the warranty on the product, but may cause damage, fire or even destruction of your boat.

Tool Required:

- Phillips Screwdriver
- Crimpers for Insulated Connectors
- Crimpers for Open Barrel Crimps
- Heat Gun

Note:

- When crimping connectors for the switch, utilize the insulated crimpers. Trim off any insulation that protrudes beyond the end of the connector with a razor blade.
 - o When removing insulation from the wire, trim off just enough to fit within the crimp section of the connector.
- When crimping connectors for the Jackplate connector (Amphenol/Deutsh), utilize the open barrel crimpers.
 - o When removing insulation from the wire, trim off just enough to allow the inner crimps to cover the exposed wire.

Suggestions:

- Mount the relays in an area that is not susceptible to flooding or submergence of water.
- Mount the breaker as close to the battery as possible. This distance should be less than 24".
- Mount the relays as close to the battery/breaker as possible.
- Keep in mind, the relay location needs to still be within distance to reach the jackplate.

Instructions:

1. Mount the relays in a secure location such that they will not be subjected to submergence in water.
2. Run the 16AWG red, blue, and green wires to the console where the switch will be located.
3. Strip all three wires back and attach the blue insulated spade connectors with insulated connector crimpers.
4. Attach the red wire to the center terminal of the switch.
5. Attach the blue wire to the top terminal of the switch.

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6. Attach the green wire to the bottom terminal of the switch.
7. Run the 10AWG black and red wires to the battery location.
8. Mount the breaker in an appropriate location within 24" of the battery.
9. Route the positive (red) 10AWG wire to the breaker and trim the wire.
10. Strip the wire and attach a ring terminal with the appropriate ring size for the breaker. Fasten to the output side of the breaker.
11. Use the remaining positive (red) 10AWG wire, strip one end and attach a ring terminal with the appropriate ring size for the breaker. Fasten to the input side of the breaker.
12. Route the positive (red) 10AWG wire to the battery. Strip the end and attach a ring terminal with the appropriate ring size for the battery to the wire. Fasten to the positive terminal of the battery.
13. Route the negative (black) 10AWG wire to the battery. Strip the end and attach a ring terminal with the appropriate ring size for the battery to the wire. Fasten to the negative terminal of the battery.
14. Route the blue and green 10 AWG wires back to the transom of the boat, such that they reach the connector of the jackplate.
15. Trim the blue and green wires to the appropriate length to allow connection to the jackplate.
16. Strip and use open barrel crimpers to attach the supplied female connectors to the blue and green wires.
17. Push the crimped ends of the wires into the amphenol/Deutsch connector for the jackplate.
 - a. Blue goes to pin 1 and Green goes to pin 2.
 - b. You can push the terminals through the orange insulation at the rear of the connector. Push until you hear a click, and the terminal has seated into the connector.
 - c. The barrels should be close to flush with the end of the connector.
18. Once both terminals have been inserted into the connector, install the orange wedge into the connector to secure the terminals.
19. Plug the connector into the jackplate.
20. Ensure the breaker is closed and test the jackplate motion.
21. If the motion is reversed from the switch, swap the blue and green wires on the switch.