

Installation instructions for Models: EMS-HW30C

1. Unplug RV from the source and be sure generator is off.
2. Determine a location for the EMS control box.
3. Cut the RV power cord about 6 inches greater than the distance from junction box to the desired location of the EMS control box. Then strip back the outer insulation 3 inches on both the input and output cable.
4. Strip back each conductor 3/8 inch on both striped ends, and attach ring terminal to Green wires.
5. Remove control box cover. Grasp display circuit board with one hand and black connector holding it in place and pull out display. Next, back off the four setscrews from top of contactor and two groundnuts located on side of box.
6. Take your long cable with the plug end and connect it to the input side, by sliding through the input side then connect black above little black wires, white wire above little white wires, and green to ground nut. Torque down screws to secure connections.
7. The short cable coming from the junction box connects to the output in the same manner except the round sensing coil slides over the black wire. Make sure that the conductor's colors match up across from each other.
8. Double check all connections and make sure they are secure.
9. Secure cable end by tightening down strain relief's over outer jacket. Do not over tighten this could bite through insulation and cause a short.
10. Set time delay jumper on the circuit board. Factory set is for 15 seconds remove jumper to set for 136 seconds. See features section on time delay to determine which to use.
11. Reconnect Display card, with display facing you, and upright.
11. Attach lid with the six black machine screws provided.
12. Mount the control box.
13. Installation is complete. Next Plug in and follow operation instructions.

Protection from both Generator and Source power.

1. Unplug RV from the source and be sure generator is off.
2. Locate transfer switch box, and determine location of EMS control box.
3. Measure the distance between the transfer switch and the control box and add 1 foot this is the length of cable that will be required for the installation. Make sure 10 gauge 3-conductor cables are used.
4. Remove lid from transfer box and remove the output cable.
5. Take jumper cable and strip back one end 3 inches, and the other end the same as the end removed from the transfer box.
6. Cut back end removed from transfer box so that each conductor is 3 inches if needed.
7. Strip back all conductors 3/8 inches, and attach ring terminals to green wires going to EMS.

8. Remove control box cover, detach display card and back off four screws from top of contactor and two ground lugs on side of enclosure.
9. Take the jumper cable with 3 conductor strip, and slide it through the input side of the EMS control box Then connect black above little black wires, white above little white wires and green to ground screw and tighten each set screw.
11. The cable that came from the transfer switch connects to the output in the same manner except the round sensing coil slides over the black wire. Make sure that the conductor's colors match up across from each other on the contactor.
12. Connect the loose end of the jumper cable to the transfer switch. See wiring diagram on transfer switch if needed.
13. Double check all connections and make sure they are secure.
14. Secure cable ends by tightening down strain relief's over outer jacket. Do not over tighten this could bite through insulation and cause a short.
15. Set time delay jumper on the circuit board. Factory set is for 15 seconds remove jumper to set for 136 seconds. See features section on time delay to determine which to use.
16. Re-attach display card with display facing you and digits reading correctly.
17. Attach EMS lid with the six black machine screws provided, and attach transfer switch lid.
18. Mount both the control box and remote panel in desired location.
19. Installation is complete. Next, Plug in and follow operation instructions.

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