

## 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 and the remote panel making sure that ultimately they are within 13 feet of each other.
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. Attach ring terminals to green wires.
5. Remove control box cover, and back off the four set from top of contactor and two ground nuts 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 the little black wires, white wire above little white wires, and green to ground screw 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 for 15 seconds remove jumper to set for 136 seconds. See features section on time delay to determine which to use.
11. Attach lid with the six black machine screws provided.
12. Mount both the control box and remote panel in desired location.
13. Next attach cable to the remote and control box, then mount remote panel in desired location.
14. 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 where the EMS control box and remote will be mounted.
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

8. Remove control box cover, and back off four screws from top of contactor and two ground nuts 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.
10. 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.
11. Connect the loose end of the jumper cable to the transfer switch. See wiring diagram on transfer switch if needed.
12. Double check all connections and make sure they are secure.
13. 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.
14. Set time delay jumper on the circuit board. Factory set is for 15 seconds; pull head of jumper to set for 136 seconds. See features section on time delay to determine which to use.
15. Attach EMS lid with the six black machine screws provided, and attach transfer switch lid.
16. Mount both the control box and remote panel in desired location.
17. Next attach cable to the remote and control box, then mount remote panel in desired location.
18. Installation is complete. Next, Plug in and follow operation instructions.