



**Glendinning CRR50, CRMA50/63 Power Cable Assembly
– Instructions for changing cable in the field.**

NOTE for RV applications

The power cable can be changed if the below assumptions are true:

1. The unit has not been damaged due to a drive off or similar action that would bend or distort the CRR-50 main unit or its guide roller assembly.
2. The cable assembly ONLY has been damaged through severance of the plug from the cable and/or the cutting of the cable off the unit, being done without force being applied to the main body of the CRR-50 unit or its guide roller assembly.
3. The slip ring leaf plate assembly nor any components around it such as cover, clamps, or studs have been damaged in any way.

If any of these assumptions are violated on the unit being repaired, the complete unit must be removed and shipped back to Glendinning for analysis and possible repair.

CAUTION

**INSURE THAT THE UNIT IS DISCONNECTED FROM AC POWER
BEFORE CONTINUING THIS PROCESS.**

Tools needed:

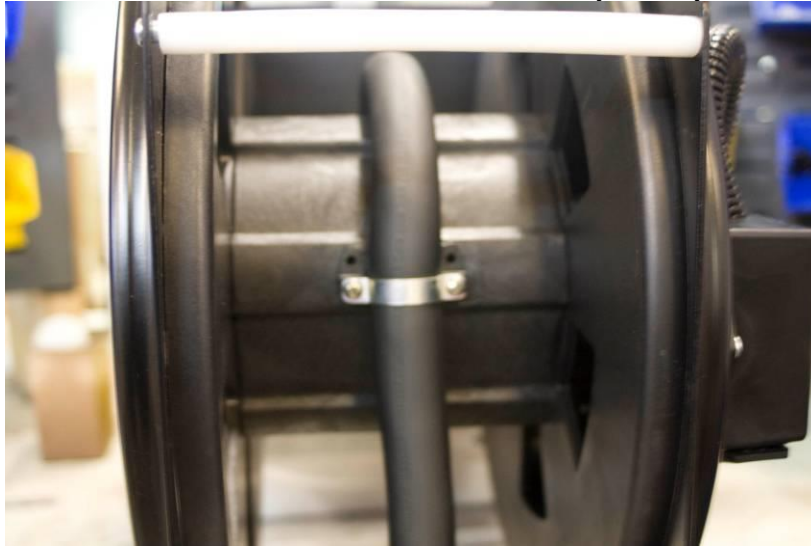
- #2 Phillips screwdriver
- 3/8" socket and ratchet wrench or 3/8" nut driver.

Items supplied:

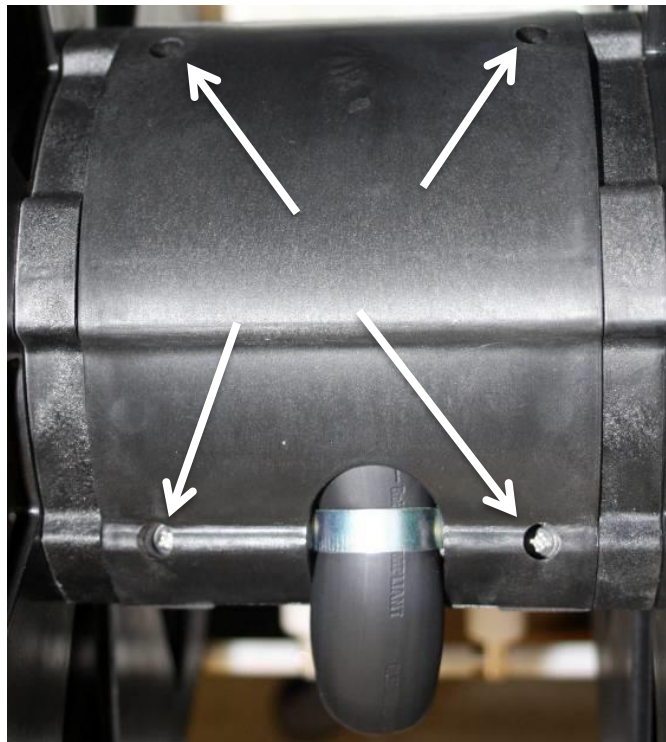
- 5 - Nuts for the slip ring leaf plate studs
- 5 – Star Lockwashers for the slip ring leaf plate studs
- 5 - #6 screws for the hub cover
- 5 - #8 Plastite screws for the cable clamps
- 1 – Gasket for the hub cover
- 1 –Shore Power Cable assembly

Remove Cable Assembly from Unit

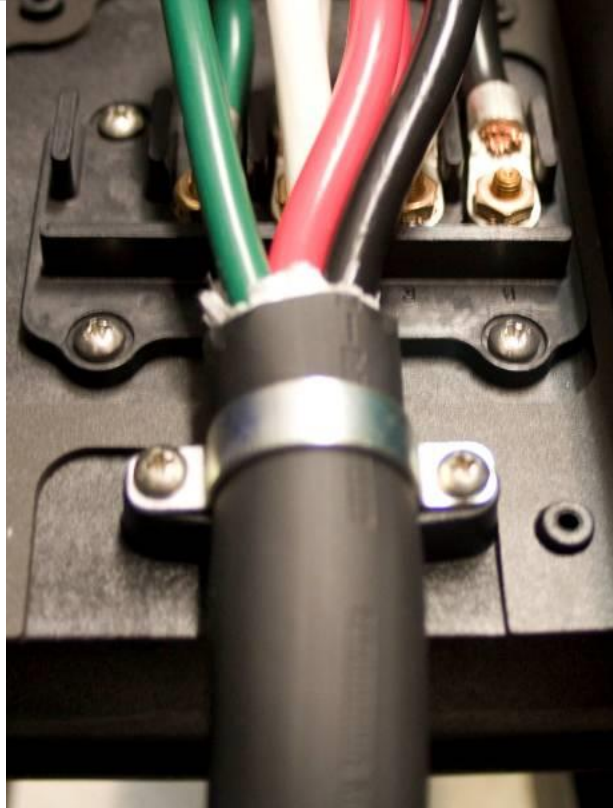
1. Unspool the cable from the unit until the first clamp is exposed.



2. Remove the 2 screws from the clamp and save the clamp for reuse.
3. Rotate the spool further to expose the Hub Cover and its (4) #6 Phillips screws, one in each corner.



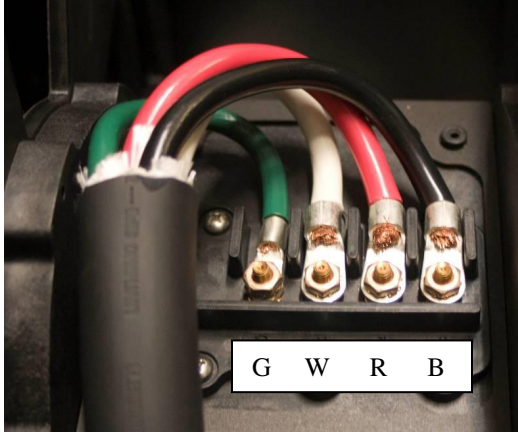
4. Remove the 4 screws from the cover and lift off the cover exposing the inside cable clamp. Note the way in which the cable wires are groomed.



5. Remove the 2 screws from the clamp and save the clamp for reuse.
6. At this point, you are looking at the conduction wires that connect to the cord reel's slip ring leaf plate assembly. This is a very important and critical part of the cord reel as the voltage from each leg passes through this area. Notice that each wire connection point is marked with a B, R, W, G. This stands for: B - Black, R - Red, W - White, G - Green.
7. Note what color wire is attached to which position. See next page.

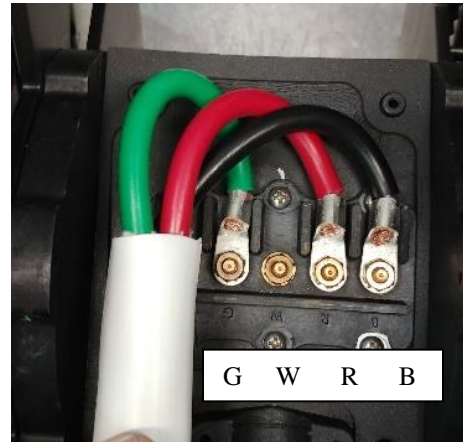
8. The pictures below show the various wire color connections.

RV CRR50 50amp 125/250 volt
Marine CRMA50 50amp 125/250 volt
Black to B, Red to R, White to W, Green to G



9.

Marine CRMA50 50amp 125/250 volt
6/3 cable for Isolation Trans. Application
Black to B, Red to R, W-nothing, Green to G



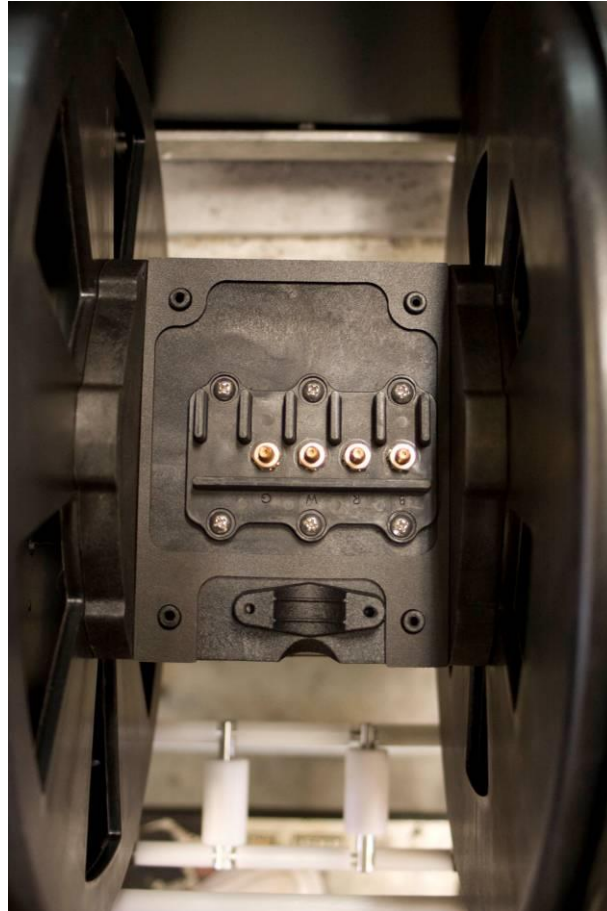
Marine CRMA50 63amp 250 volt
Brown to B, R-nothing, Blue to W, Green to G



- 10. Using the 3/8" socket, remove the 4 nuts from the studs on the plate by turning each counter-clockwise.
- 11. After removing the nuts, remove the lockwashers and wire terminals from each stud and pull the cable assembly through the guide roller assembly removing it from the cord reel completely.

RESIST THE TEMPATATION TO RE-TIGHEN THE NUTS UNDERNEATH THE TERMINALS AS DAMAGE WILL OCCUR TO THE UNIT SUCH AS A DROPPED LEG.

12. The view you now have is that of the slip ring leaf plate looking like the following:



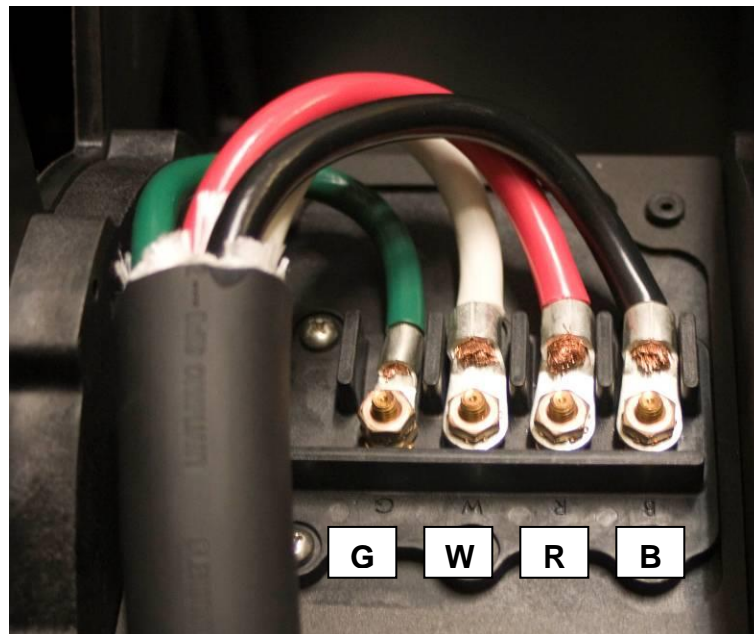
13. Inspect and replace the gasket at this point. Note the orientation of the gasket and that the cable assembly when installed makes replacement a bit difficult.
14. All the fasteners removed may be disposed of as you will use the new ones supplied for reassembly



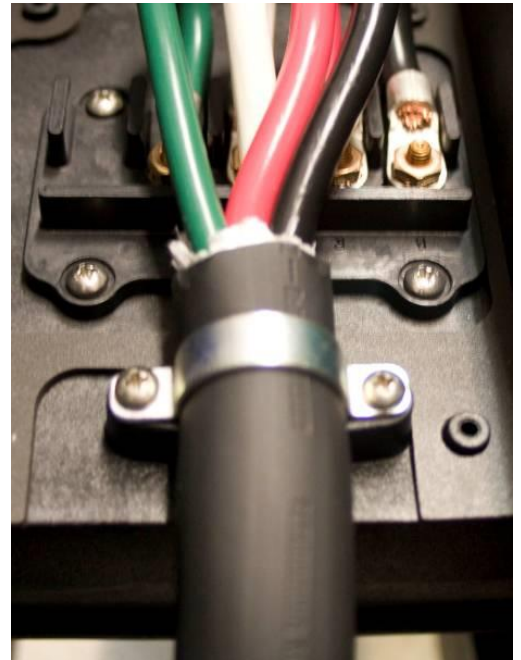
15. Install the replacement cable assembly and thread the terminal wire ends of the cable through the various guide roller assemblies, Hawse Pipe, etc... in the installation (RV unit is shown).

16. Groom the cable assembly terminal ends (as shown below) over the slip ring leaf plate, matching up the wire color with the respective plate letter for each. As a point of reference, the electric motor is on the right in this view below. Black wire is closest to the motor assembly. (RV unit shown below)

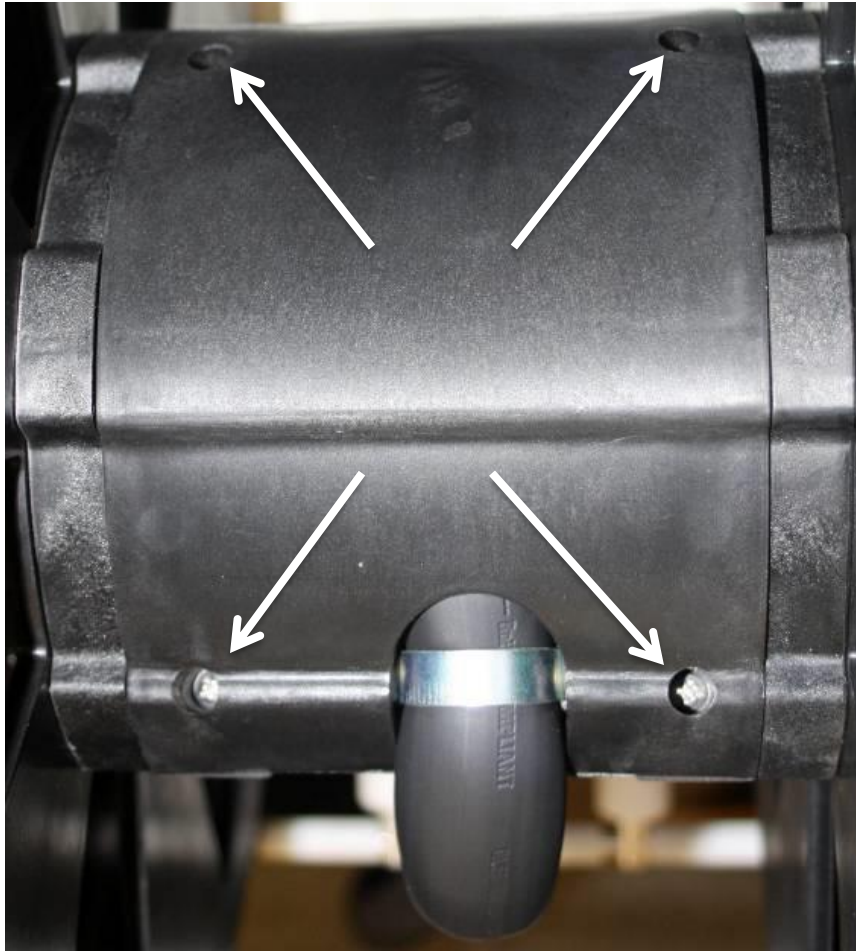
17. See step 8 above for other RV and marine Connections)



18. For each stud, place the terminal, place one NEW star lockwasher, one NEW nut. FINGER-tighten clockwise the nut down to the lockwasher while ensuring the terminal plate is flat against the nut under it.
19. Tighten each nut ONLY 7/8 TO 1 TURN to complete each terminal attachment. If you have a calibrated torque wrench, this equates to 23 to 28 inch-pounds. Do not go beyond or under these values.
20. Next groom the cable assembly to the clamp saddle and place the clamp over the cable as shown leaving approximately the same amount of black insulation on the outer jacket to the top side of the clamp.
21. Insert 2 NEW #8 Plastite screws into the holes of the clamp and into the hub. Tighten these two screws manually with a #2 Phillips screwdriver until the clamp is flat. Work each side equally to keep from pinching the material or bending the clamp in the process. This should look like the following when complete.



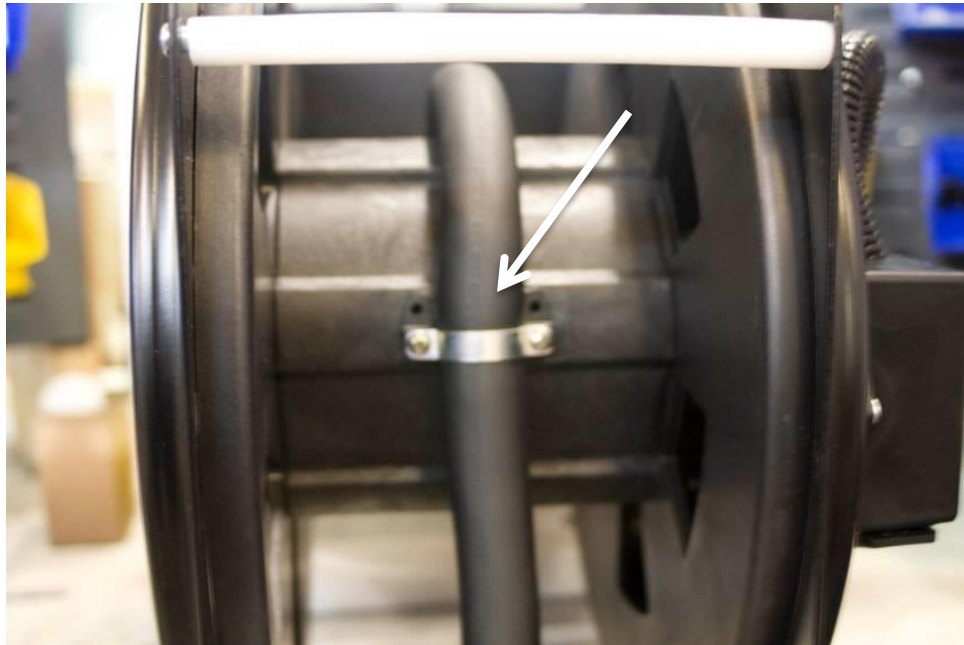
22. At this point, replace the hub cover ensuring that the gasket is seated properly beneath as shown below and CAREFULLY SNUG each of the 4 outer #6 screws into each corner hole.



23. Rotate the Hub until the holes for the bottom clamp screws are visible.

24. Place the cable into the saddle and place a clamp and 2 NEW #8 Plastite screws to mount the clamp as done with the other clamp. Tighten until the clamp is flat, doing this evenly to prevent pinching or other damaging actions. Note the bottom holes are used for the clamp in this view – assuming the DC motor assembly is on the right in this view.

25. Rotate reel 180 degrees and install cable clamp as shown



26. Using the DC power, reel the cable back onto the cord reel to finish the cable replacement.

27. Cable change is now complete and you can re-connect the AC power to the unit.

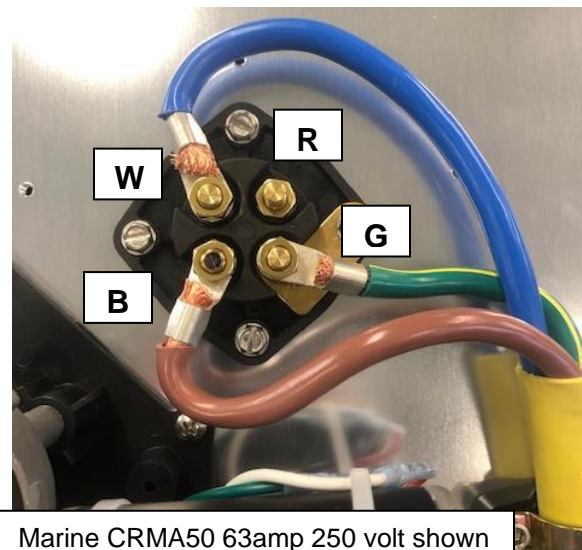
28. ALSO NOTE: the wire connections shown above in Step 8, are the same if you are replacing the pigtail assembly.

29.

RV CRR50 50amp 125/250 volt
Marine CRMA50 50amp 125/250 volt
Black to B, Red to R, White to W, Green to G

Marine CRMA50 50amp 125/250 volt
6/3 cable for Isolation Trans. Application
Black to B, Red to R, W-nothing, Green to G

Marine CRMA50 63amp 250 volt
Brown to B, R-nothing, Blue to W, Green to G



Marine CRMA50 63amp 250 volt shown