



WORK INSTRUCTIONS

MODEL G RICH SOLAR MPPT SOLAR CHARGE CONTROLLER REPLACEMENT

RECALL:	900007 Model G Rich Solar MPPT Solar Charge Controller Replacement		
PRODUCT:	Model G Fifth Wheel	REVISION:	REV-A
DATE:	January 29, 2025	LABOR RATE:	0.6 hours

Applies to:

This document refers to all Model G Fifth Wheels with Rich Solar MPPT Solar Charge Controllers installed. It applies to 3250, 3500, 3950, 3970, 4000 and 4100 floorplans, between VINS 0004 - 1836.

Condition:

Brinkley RV has determined that under certain charging conditions, an internal component within the solar controller may fail. Upon failure, the controller may continue to accept input from the various power sources, but will not be able to properly dissipate the unused heat/energy. The remedy is to replace the suspect controllers with the latest version controller, which has been modified to prevent this failure mode.

Safety:

Safety is, and should always be observed when performing any type of repair. ANSI (American National Standards Institute) has created a standardized labeling system for different levels of safety and danger. The label below provides information regarding those levels of danger, and should be observed and adhered to at all times.

DANGER

This indicates an imminent hazard that, if not avoided or handled correctly, will result in death or serious injury.

WARNING

The "WARNING" symbol above is a sign that a procedure has a safety risk involved and may cause death, serious personal injury, severe product and/or property damage if not performed safely and within the parameters set forth in this document.

CAUTION

The "CAUTION" symbol above is a sign that a procedure has a safety risk involved and may cause personal injury, product and/or property damage if not performed safely and within the parameters set forth in this document.

+ NOTICE

This is used to address best practices that should be utilized and do not commonly result in injury but may lead to property damage if not careful.



WARRANTY INFORMATION

Prior authorization is required.

CLAIM REIMBURSEMENT PROCESSING:

All reimbursement requests with completed work orders, including any freight expenses and photographs, should be submitted via a claim in the Brinkley RV Dealer Portal. If you do not have access to our Portal, a claim can be emailed to CustomerCare@BrinkleyRV.com

REQUIRED INFORMATION FOR IMMEDIATE REIMBURSEMENT PROCESSING INCLUDES:

- The full 17 digit VIN;
- The Retail Name if retail sold;
- Dealer Name;
- Dealer Address;
- Dealer Phone Number;
- Dealer Hourly Labor Rate;
- Work Order detailing the work performed and labor time, and
- Two photographs are required:
 - One of the new controller installed with the front cover panel removed (Figure 1).
 - One of the old controller with a self-drilling screw through the display screen (Figure 2A) to prove that it was destroyed (Figure 2).

Reimbursement checks for claims submitted with all requested information are issued weekly.



Figure 1



Figure 2



REQUIRED TOOLS

1. Screw gun with #2 square drive bit
2. Insulated Phillips Screwdriver
3. Flashlight/Work light
4. **Wire cutters
5. **Wire strippers

** These tools may not be required depending on the installation.



PARTS INFORMATION

Model G Rich Solar MPPT Solar Charge Controller Kit #K115702

PART #	Description	Qty
103261	RICH SOLAR MPPT SOLAR CHARGE CONTROLLER	1
REC-2501	WORK INSTRUCTIONS	1



CONTROLLER IDENTIFICATION

****NOTE:** There are various versions of the older controller that need to be replaced. The best way to determine the controller version is to check the labels on the top of the controller (Figures 3 and 4). Any controller with a serial number that starts with anything other than V06 must be replaced.



Figure 3



Figure 4

⚠ CAUTION

Always wear Personal Protection Equipment (PPE), such as eye protection, ear protection, gloves and possibly a full face shield depending on the nature of the task to be performed.

WORK INSTRUCTIONS:

1. Open the front compartments of the unit. Setup a flashlight or work light inside the lower compartment.
2. Carefully remove and protect the unit owner's possessions from the lower front compartment.
3. Turn off the battery and solar disconnects (Figure 5A,B) in the upper compartment and make sure all power is turned off to the solar charge controller by turning off the breaker (Figure 6B) in the lower compartment.
4. Using a screw gun and a #2 square drive bit, remove the six (6) screws securing the solar charge controller enclosure to the compartment walls (Figure 6A). Save these screws as you will need them for re-installation.
5. Remove the front cover from the controller with your hands. Press in on the underside of the cover (Figure 7A) and then pull up and the cover should release from the controller. Set the cover aside.

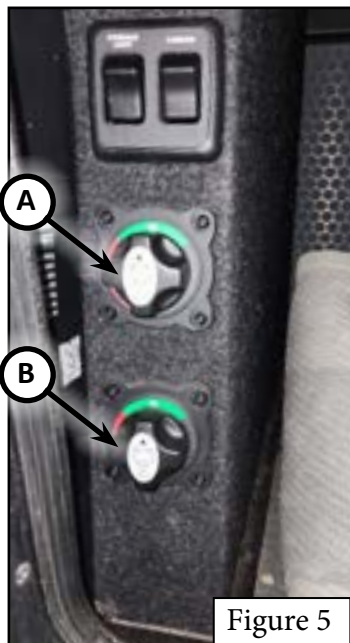


Figure 5

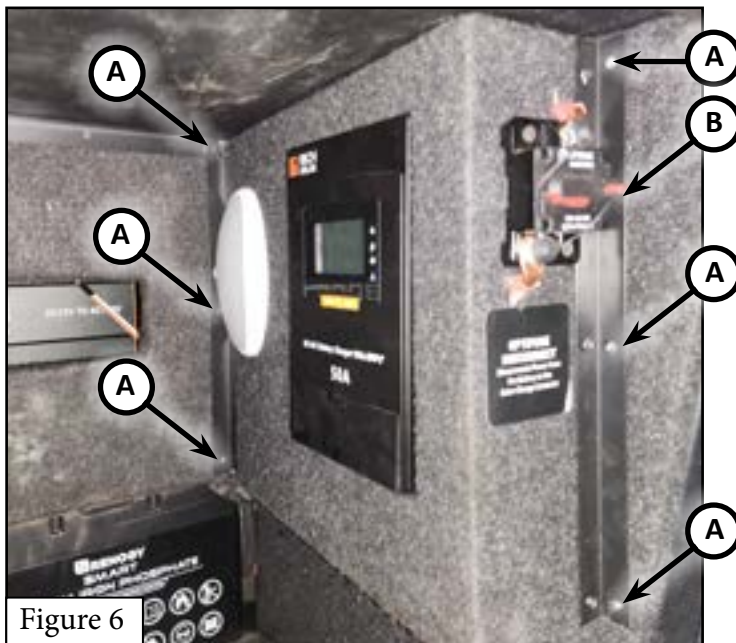


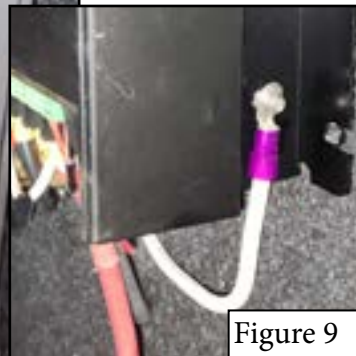
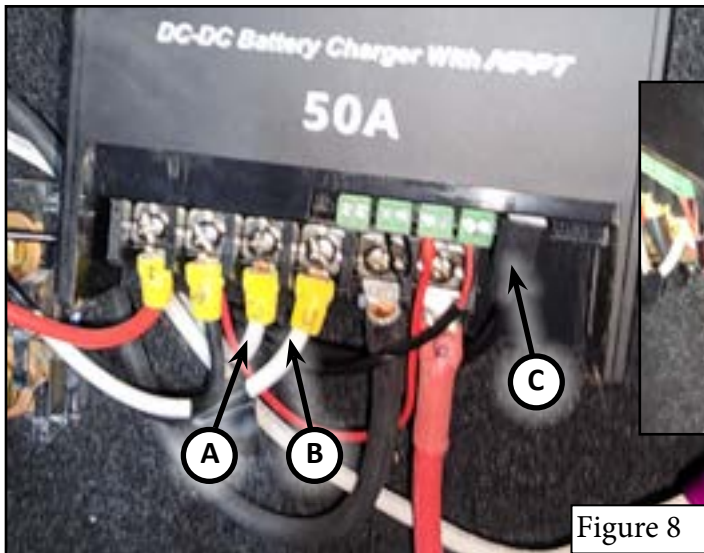
Figure 6



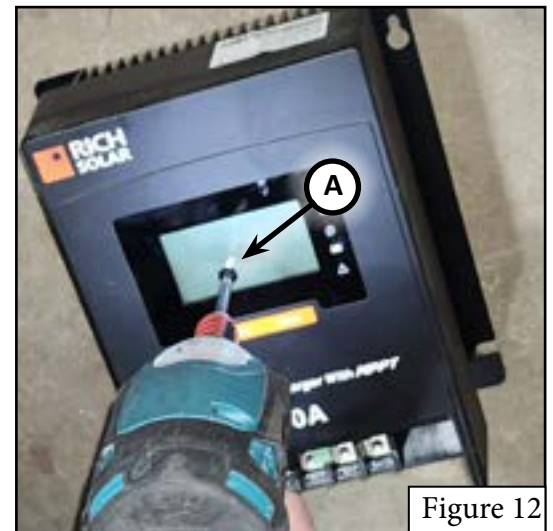
Figure 7



6. Note the orientation of all wiring to the current controller (Figures 8, 9). Label the wiring if necessary, especially the two similar sized white wires [Solar negative and Alternator negative] (Figure 8A, B).
7. Using an insulated phillips screwdriver, remove the screws on the controller wiring and remove the wiring from the controller (Figure 9). Save these screws in case they are needed for the new controller.
8. Very early models may have this additional cable plugged into the TTL port on the far right side of the controller (Figure 8C). This cord connects to a Bluetooth dongle used for a phone monitoring application. This functionality is built into the latest version of the controller, so this dongle connection is no longer necessary. As part of the Recall work, this cord should be disconnected, and the cord & dongle should be removed or abandoned in place. If the unit previously had a Bluetooth dongle installed to the controller, the owner will need to connect their previously downloaded app to the new controller.



9. Using a screw gun and a #2 phillips drive bit, remove the screws holding the controller to the compartment wall, and set the controller aside (Figure 11). Save these screws as you will need them for re-installation.
10. Using a screw gun and the appropriate drive bit, screw a 1" self-tapping screw (not provided) through the display screen of the removed controller (Figure 12A) and take a photo of the controller with the screw through the display screen (see Figure 2 on page 3 for an example). This photo will need to be submitted as part of the reimbursement documentation.



11. Dispose of the controller according to all local and federal disposal regulations.
12. Remove the new controller from the box and verify that it is the correct version (use Figures 3-4 on page 4 for reference).
13. Using a screw gun and a #2 phillips drive bit, install the new controller to the compartment wall, using the previously removed screws. The new controller should be installed in the same location, using the same screw holes, as the previous controller (Figure 13).
14. Reinstall the wiring as it was previously installed (Figures 14) with one change. DO NOT reinstall the small black wire that is looped into the green tyco connector (Figure 15). That wire is not required with the new controller.
15. Take a photo before putting the cover back on to show the completed repair (Figure 16). This photo will need to be submitted as part of the reimbursement documentation.



Figure 13



Figure 14

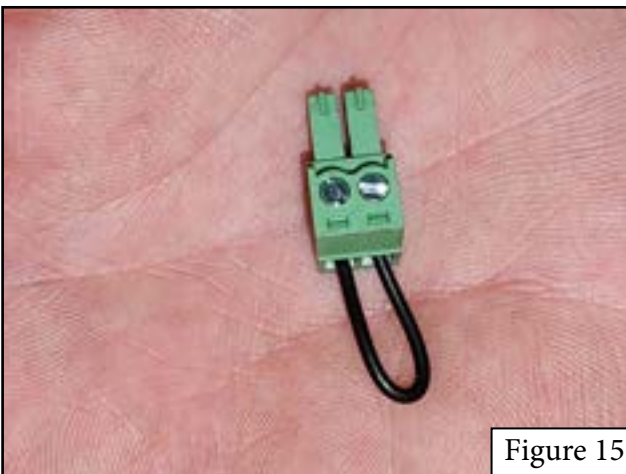


Figure 15

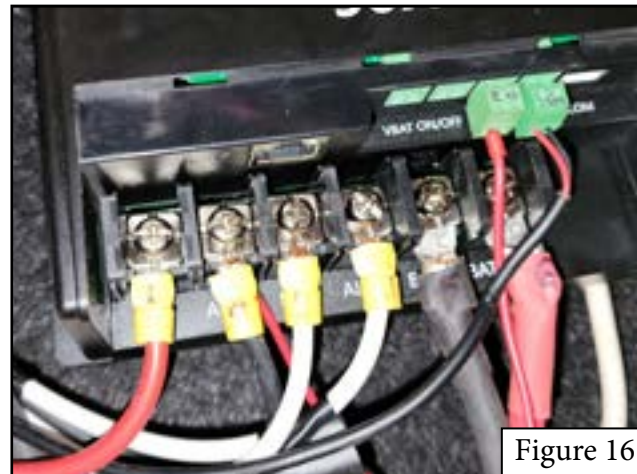
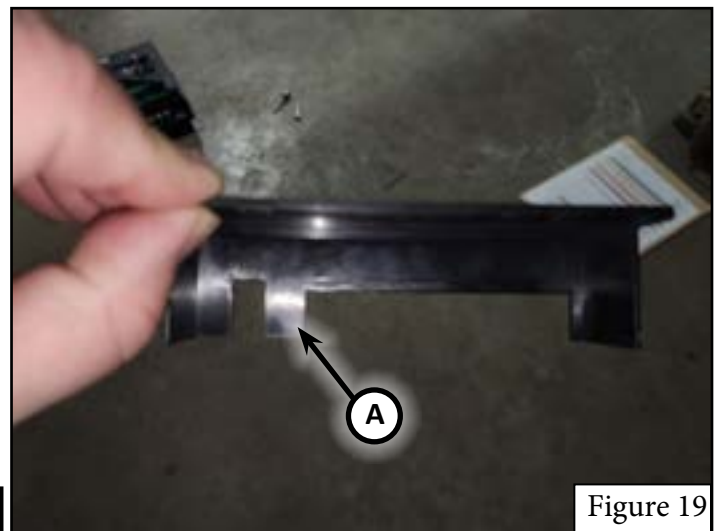
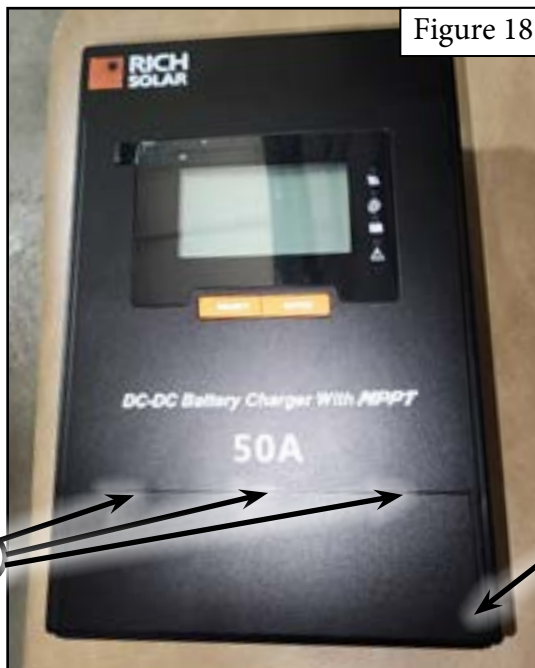


Figure 16

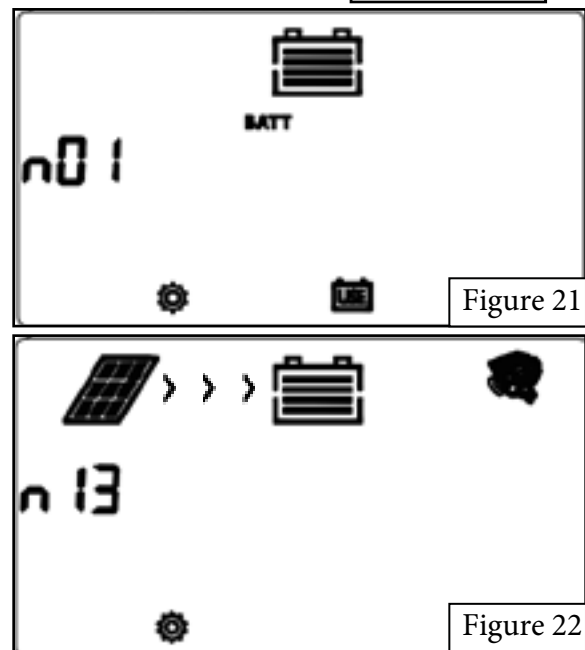
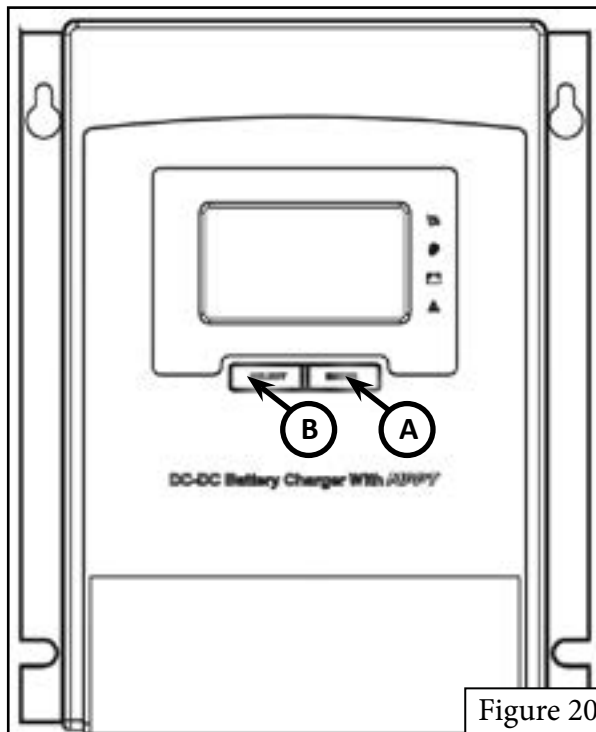
16. NOTE: The small red wire running from the green Tyco connector (Figure 17A) to the black wire second from the left (Figure 17B) may not be present on the original controller wiring. If it is not, there is a long length of that wire in the box with the new controller with a tyco connector already attached. Cut that wire to length, strip the end of the wire, and wrap that wire on the left side of the black wire screw post, underneath the eyelet for the black wire. Hold the wire in place while you tighten the screw.



17. Reinstall the cover over the controller by sliding the three tabs into the body of the controller and then snapping the bottom of the cover into place (Figure 18A). Either re-use the cover from the original controller, or cut the tab (Figure 19A) off of the new controller cover.
18. Turn all power to the controller back on.
19. Verify the controller is functioning.
20. The new controller will need to be programmed.



21. Hold the enter button (Figure 20A) until you see “n01” on the display (Figure 21). Release the enter button. You will now be in the programming mode.
 22. Tap the enter button (Figure 20A) one time to access the battery type selection on that screen.
 23. Tap the select button (Figure 20B) to cycle through the battery type options until you have highlighted the battery type on the unit.
 24. Tap the enter button (Figure 20A) again to confirm the selection. Wait ten (10) seconds for the display to return to the home screen.
 25. Hold the enter button (Figure 20A) until you see “n01” on the display (Figure 21) again. Release the enter button.
 26. Tap the select button (Figure 20B) to cycle through the programming menu until you see “n13” on the display screen (Figure 22).
 27. Tap the enter button (Figure 20A) one time to access the charging priority selection on that screen.
 28. Tap the select button (Figure 20B) to cycle through the options until you have highlighted the solar option.
 29. Tap the enter button (Figure 20A) again to confirm the selection. Wait ten (10) seconds for the display to return to the home screen.
- NOTE: If using the original supplied Go Power batteries, you will need to set the Full V (or High V) on the bedroom battery monitor panel to 14.2V. Click here for the [User Manual](#) or scan the QR Code below and look at the “Basic Setup” instructions section.
30. Programming is completed.



31. Replace the unit owner's possessions into the unit in the same manner they were removed.
32. Close the front compartment of the unit.
33. Installation completed.