



WORK INSTRUCTIONS

MODEL Z FIFTH WHEEL

OVERCURRENT PROTECTION ONLY

| | | | |
|-----------------|---|--------------------|----------|
| RECALL # | 900003: Z 2900/3100/3110/3400 Overcurrent Protection Only - REV-A | | |
| PRODUCT: | Model Z 2900/3100/3110/3400 VIN 1441-3058 | | |
| DATE: | June 21 2024 | LABOR RATE: | 1.0 hour |

Current Wiring Protection

Brinkley RV has determined that within the 12 volt DC system, there may be a lack of over current protection. The following instructions provide wiring locations, connections and components to reconfigure the mini breakers. The model and VIN of the unit will dictate the appropriate kit for this service. The VIN is required to order parts.

SAFETY:

Service, repair and installation instructions are written specifically for the use of professionally trained technicians, using proper tools in a shop environment. For safety, and to ensure the best results, **only professionally trained technicians** should perform the work described in this document.

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 labels below provide information regarding those levels of danger, and should be observed and adhered to at all times.

⚠ DANGER

The “DANGER” symbol above 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

The “NOTICE” banner above 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.

**ADVANCED CONTACT OR PRIOR AUTHORIZATION IS REQUIRED
CLAIM REIMBURSEMENT PROCESSING:**

All reimbursement requests with completed work orders, including any freight expenses, 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 Warranty@BrinkleyRV.com.

REQUIRED INFORMATION FOR IMMEDIATE REIMBURSEMENT PROCESSING INCLUDES:

1. The full 17 digit VIN;
2. The Retail Name if retail sold;
3. Dealer Name;
4. Dealer Address;
5. Dealer Phone Number;
6. Dealer Hourly Labor Rate;
7. Work Order detailing the work performed and labor time;
8. Photo of completed repair required.

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

Model Z Circuit Protection Parts Kit # 110813 (VINs 1441 - 3058)(2900/3100/3110/3400)

| Part Number | Description | Qty |
|-------------|---|----------|
| 101605 | BREAKER 12V 50A RED AUTO RESET TYPE 1 W/BRACKET E518-50A | 2 |
| 100468 | BREAKER 12V 30A GREEN AUTO RESET TYPE 1 W/BACKET E518-30A | 1 |
| 106328 | BREAKER 12V 30A GREEN MANUAL RESET W/BRACKET E538-30A | 1 |
| 101093 | BREAKER 12V 15A BLUE AUTO RESET TYPEW/BRACKET E518-15A | 1 |
| 100948 | FASTENER NUT 10-32 ZINC HEX KEPS NUT | 8 |
| 102274 | TERMINAL BUS BAR 6 POSITION COPPER | 1 |
| 100033 | WIRE TEW 8 GREEN UL/CSA 105C 1000' REEL | 0.667 LF |
| 101656 | TERMINAL RING 8GA #10 NYLON INSULATED STUD 50610N | 3 |
| 100029 | WIRE TEW 6 RED UL/CSA 105C 500' REEL | 1 |
| 100979 | TERMINAL RING 6GA #10 NYLON SULATED STUD EL 50615N | 1 |
| 100975 | TERMINAL RING 6GA 3/8" NYLON INSULATED STUD EL 50618 | 1 |
| 109801 | INSTRUCTION FOR BRV KIT | 1 |



Required Tools

1. Screw gun with #2 square drive bit
2. Flat head screw driver
3. Phillips head screw driver
4. Wire cutters
5. Wire strippers
6. 3/8" socket with extension
7. Mechanics creeper (optional)
8. Torque wrench (that measures in inch-lb)



1



2



3



4



5



6



7



8

⚠ WARNING

Make sure the battery disconnect switches are turned off and the unit is unplugged from shore power before beginning! Failure to do so may cause equipment damage and serious injury or death!

⚠ CAUTION

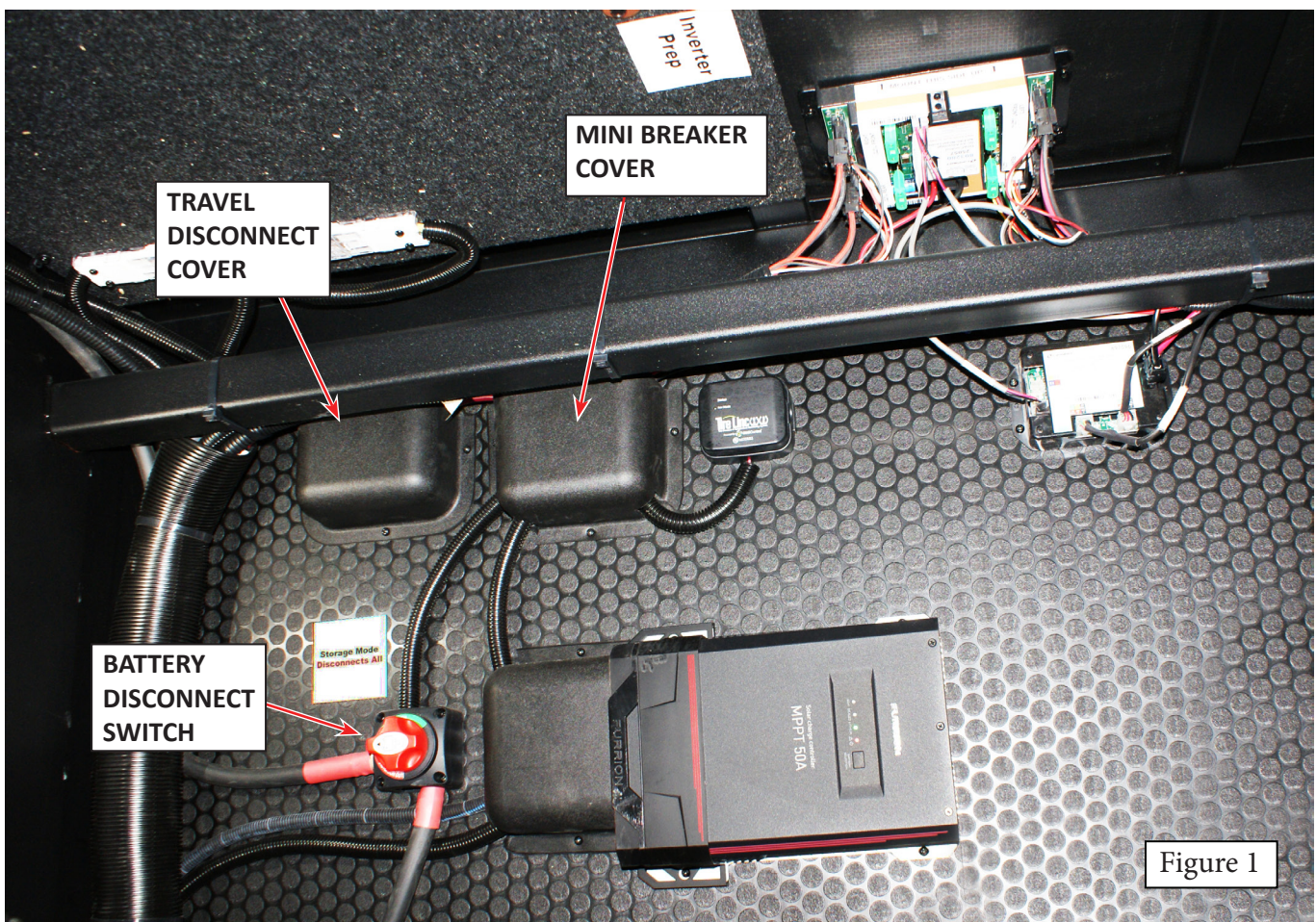
Always wear Personal Protection Equipment (PPE), such as eye protection, ear protection, gloves and possibly a full face shield depending on the nature of the task to be performed.

+ NOTICE

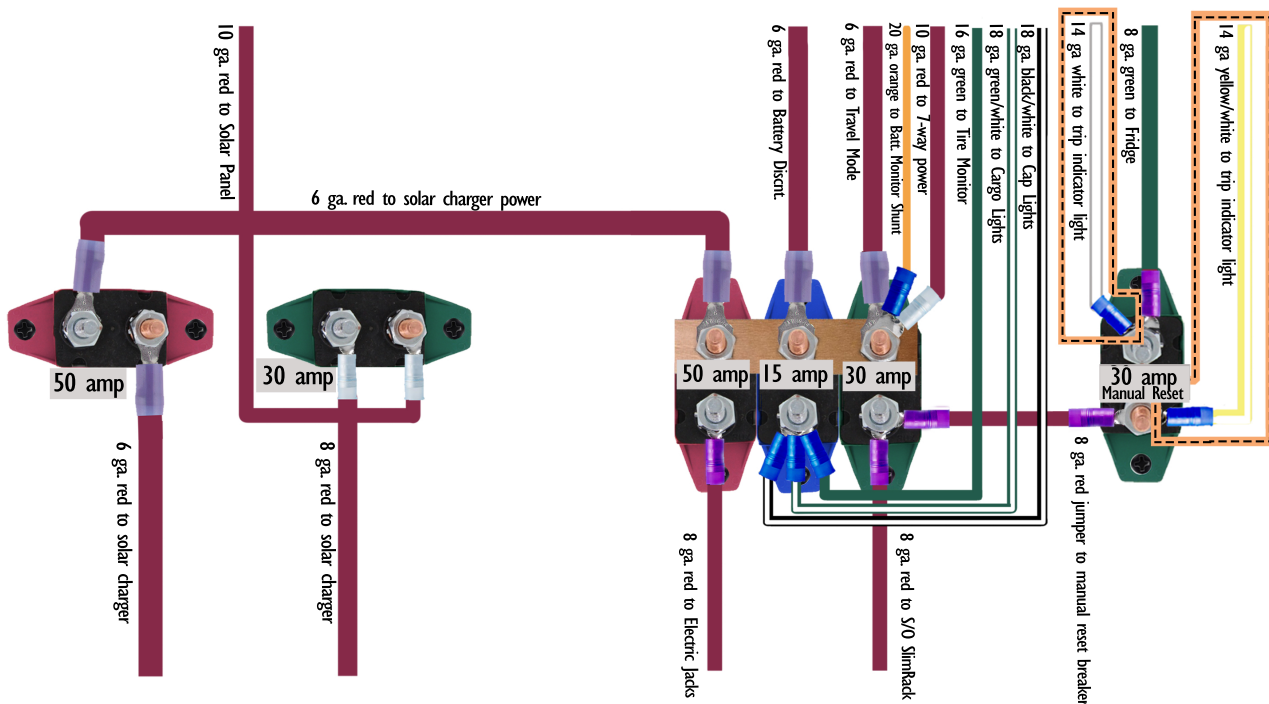
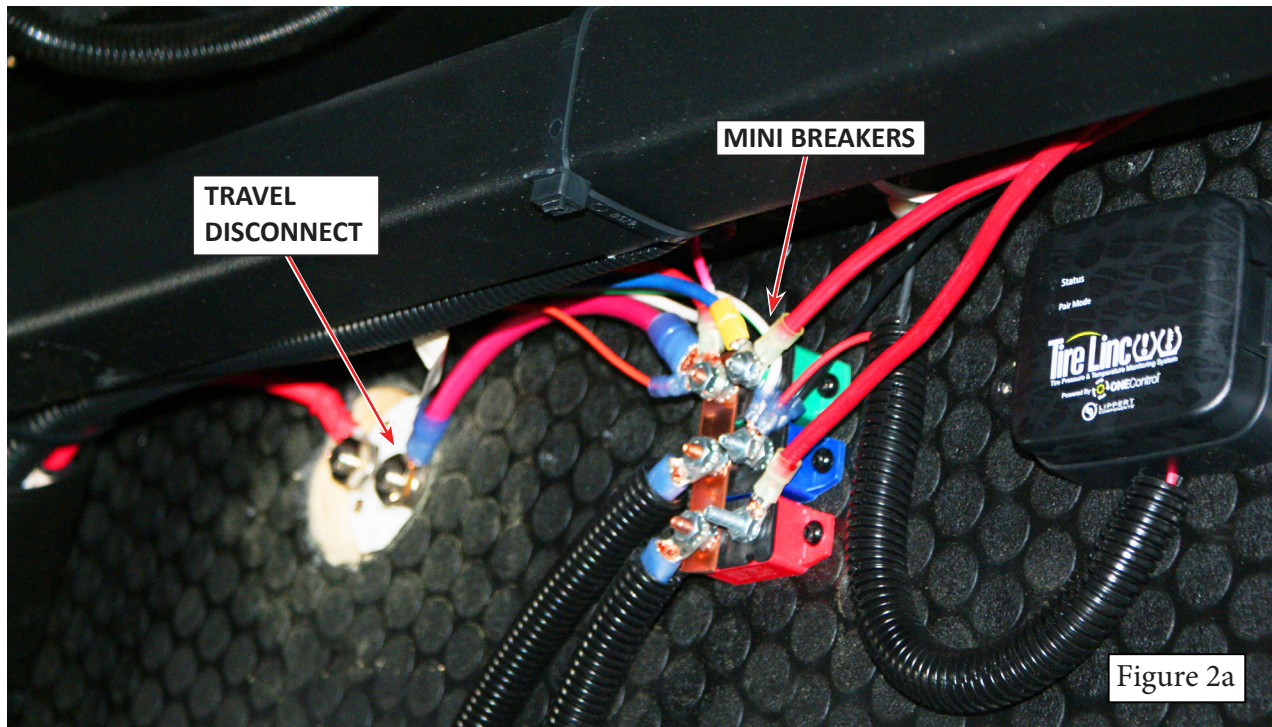
Retain all fasteners for reuse unless specifically stated in these instructions.

WORK INSTRUCTIONS:

1. READ AND UNDERSTAND ALL INSTRUCTIONS PRIOR TO BEGINNING WORK.
2. Make sure Battery Disconnect (Figure 1) is turned off and the RV is unplugged from shore power .



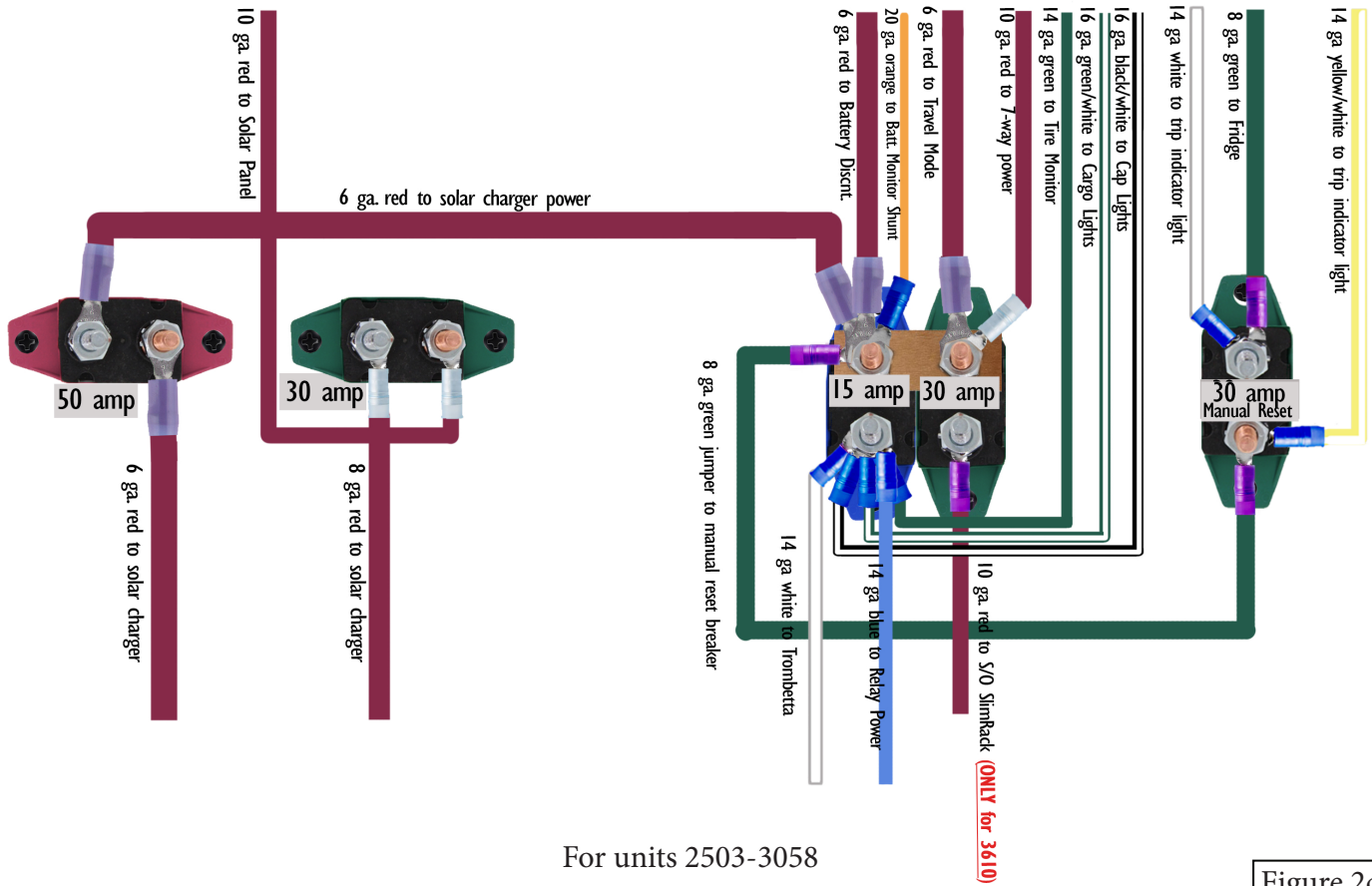
- Remove the wiring covers for the “Travel Disconnect” switch and the “Mini Breakers” (Figure 2a).
- Label all wires per Figure 2b or 2c prior to disconnecting from the mini breakers (Figure 2b and 2c- see prints provided).



For units 1441-2502

Figure 2b

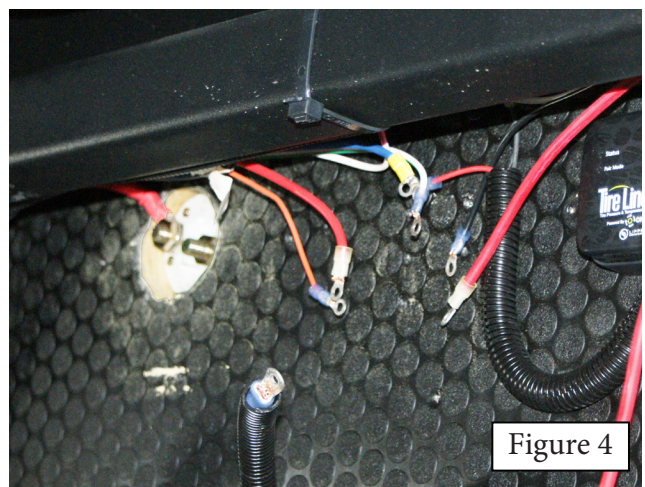
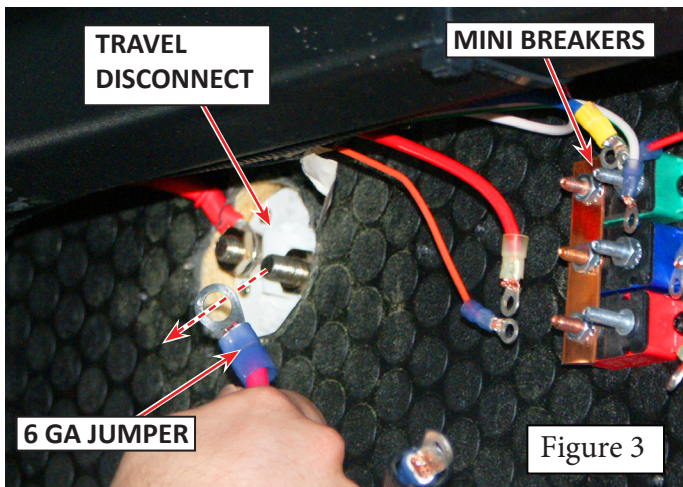




For units 2503-3058

Figure 2c

- Remove red 6 GA Jumper from travel disconnect to mini breaker (Figure 3). Discard the jumper, but retain the lock washer and nut from Travel Disconnect.
- Remove all wires from mini breakers after labeling and remove mini breaker stack (Figure 4). Retain all fasteners.



7. Combine the new mini breakers by attaching them to the provided copper bus bar; assemble them per diagram (Figure 5). Ensure the copper side of the mini breakers are attached to the copper bus bar (P/N 102274):

- Two (2) 30 AMP mini breaker (green) (P/N 100462)
- Two (2) 15 AMP mini breakers (blue) (P/N 101093)
- Two (2) 50 AMP mini breakers (red) (P/N101605) **NOTE: ONLY for units with electric leveling. Units without electric leveling will have only one (1) 50 amp mini breaker.**

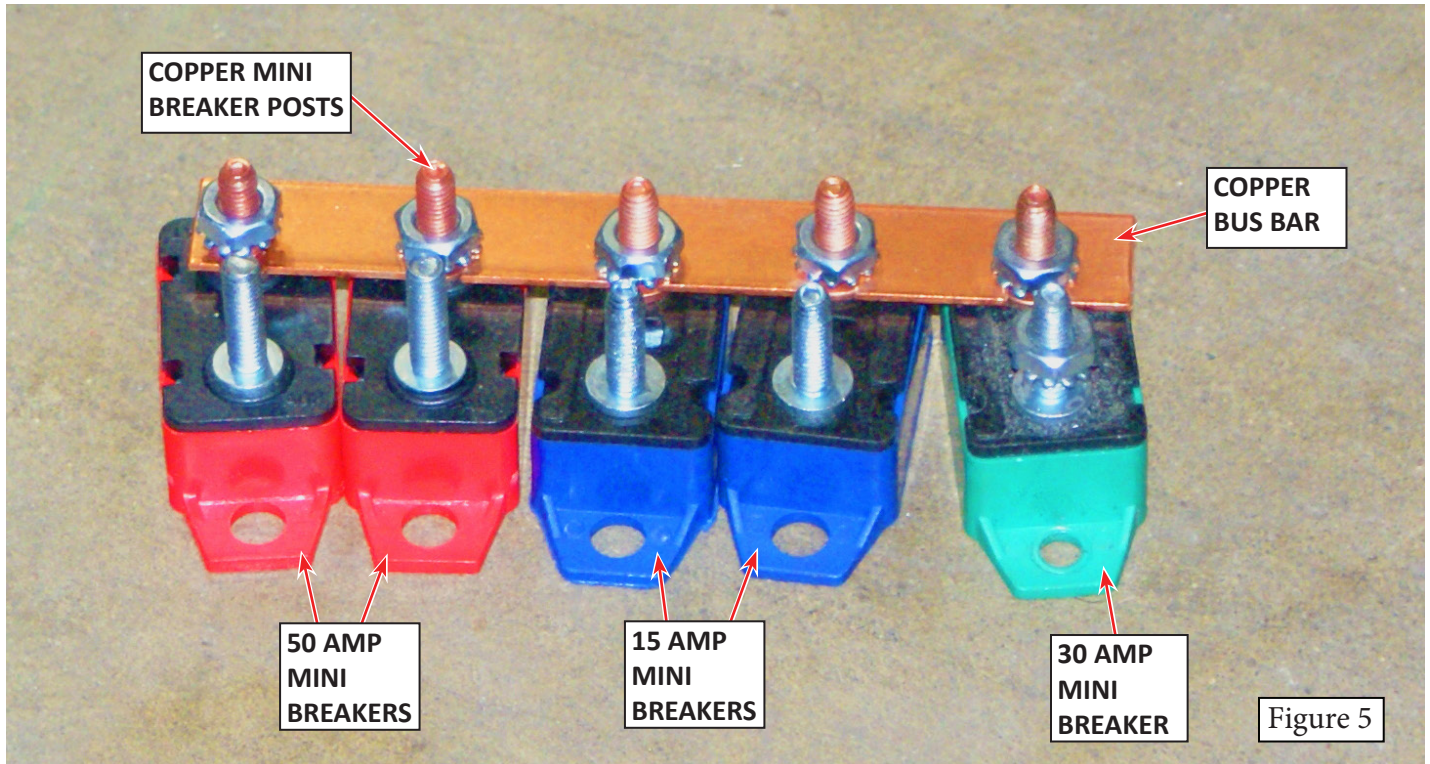
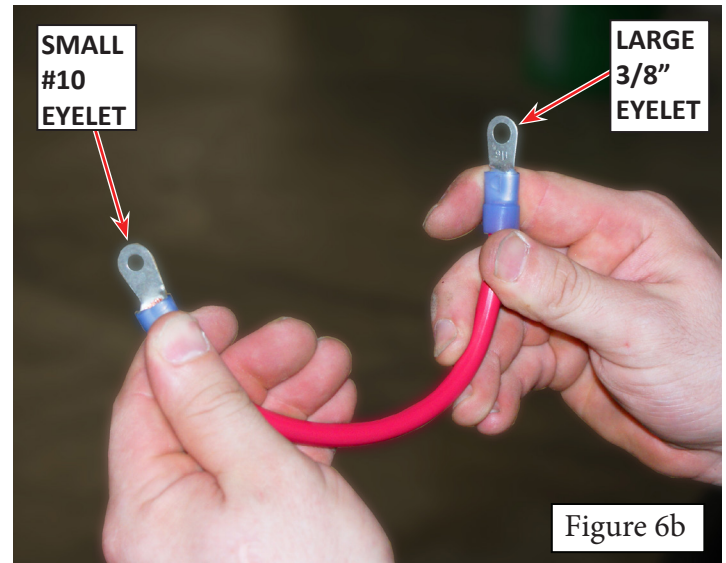
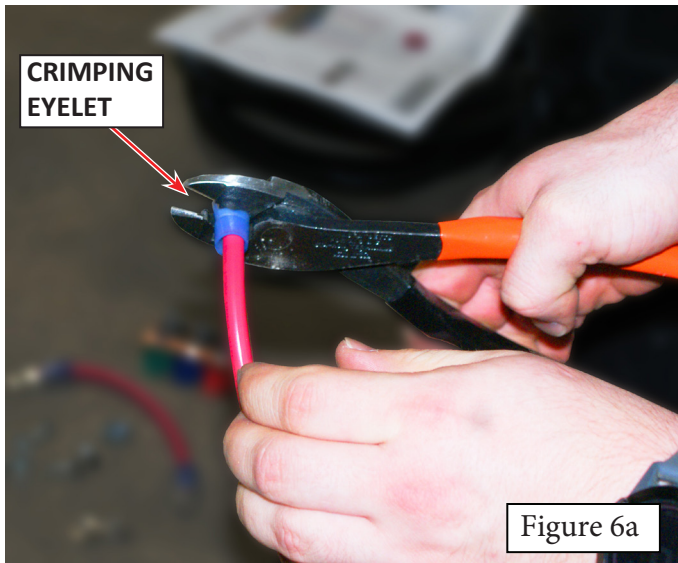
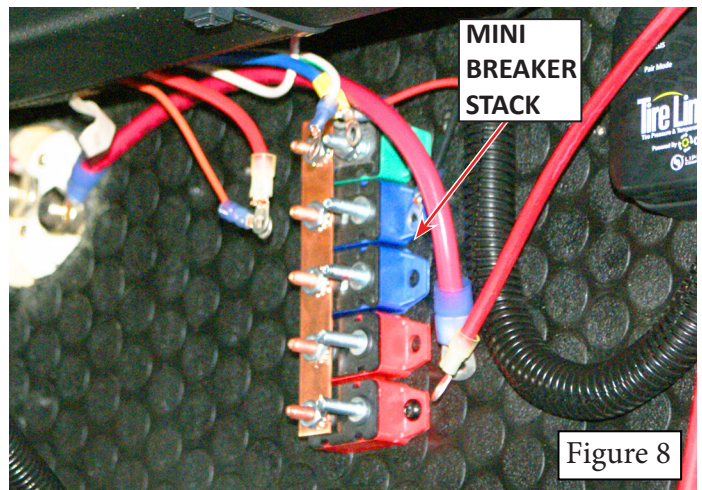
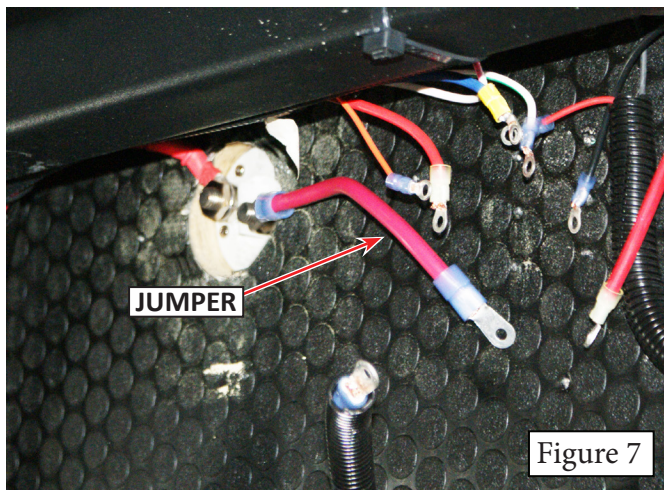


Figure 5

8. Make a new jumper for the travel disconnect to mini breaker connection using the provided length of 6 GA wire (P/N 100029). Install a small (#10) eyelet ring terminal (P/N100979) on one end, and a large (3/8") eyelet ring terminal (P/N 100975) at the other end (Figure 6a and Figure 6b).



9. Attach the jumper end with the large eyelet terminal to the travel disconnect using the original fasteners (Figure 7).
10. Install the mini breaker stack on the back wall in the same location as the original, using the original fasteners (Figure 8). Torque the travel disconnect lug to 66 in-lbs.



11. Attach the wire terminals to the mini breakers per Figure 9 and Figure 10:
12. Run 6 GA red jumper assembly from step 8 from travel disconnect to the protected (silver) side of the 2nd from the bottom 50 amp mini breaker (Figure 5), or to the only 50 amp mini breaker if the unit is NOT equipped with electric leveling.

+ NOTICE

For units with electric leveling, two (2) 50 amp mini breakers may need installed, in this case, 6 GA will go on 2nd from bottom 50 amp mini breaker. 8 GA red for electric jacks to bottom 50 amp protected (silver) side.

13. Run 10 GA red from Slim Rack and 10 GA red from 7-way to protected(silver) side of the top 30 amp mini breaker.
 14. Run 10 GA red from second Slim Rack system to protected (silver) side of the lower 30 amp mini breaker.
 15. Run 6 GA red from Solar Charger to the power (copper) side of the upper 50 amp breaker (if two (2) exist).
 16. Run 6 GA red Battery Disconnect to the power (copper) side of the lower 15 amp breaker.
- *NOTE:** Depending on placement, may need to replace 6 GA wire from Battery Disconnect to mini breaker.
17. Run 16 GA black/white (cap lights) and green/white (cargo lights) to bottom 15 amp protected (silver) side of the mini breaker. If included with the original install, additionally reattach the blue 14ga wire (relay power) to the silver protected side of the bottom 15 amp mini breaker.
 18. Run 16 GA red tire monitor and 20 GA orange battery shunt to top 15 amp protected (silver) side of the mini breaker.

NOTE: The color of the tire monitor wire may vary. For units with hydraulic leveling, connect the 16 ga wire (Trombetta) to the silver side of the top 15 amp mini breaker.

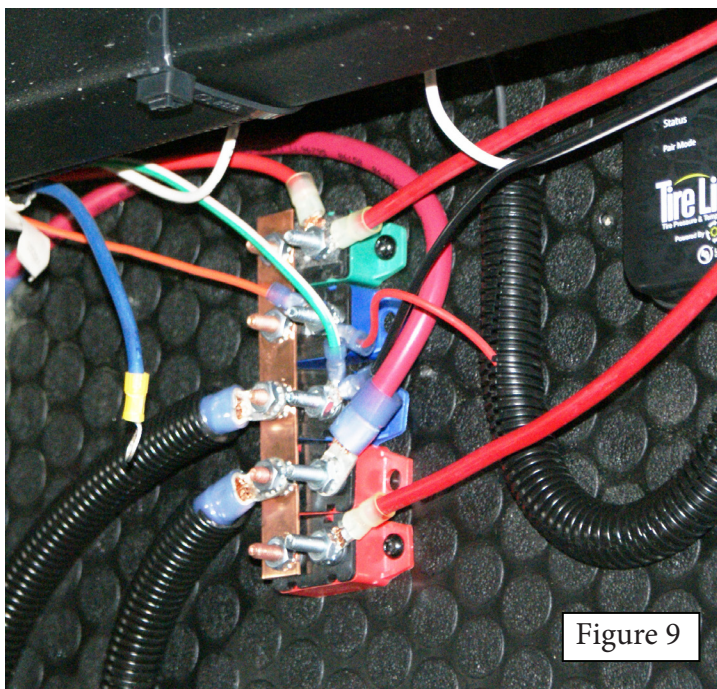


Figure 9

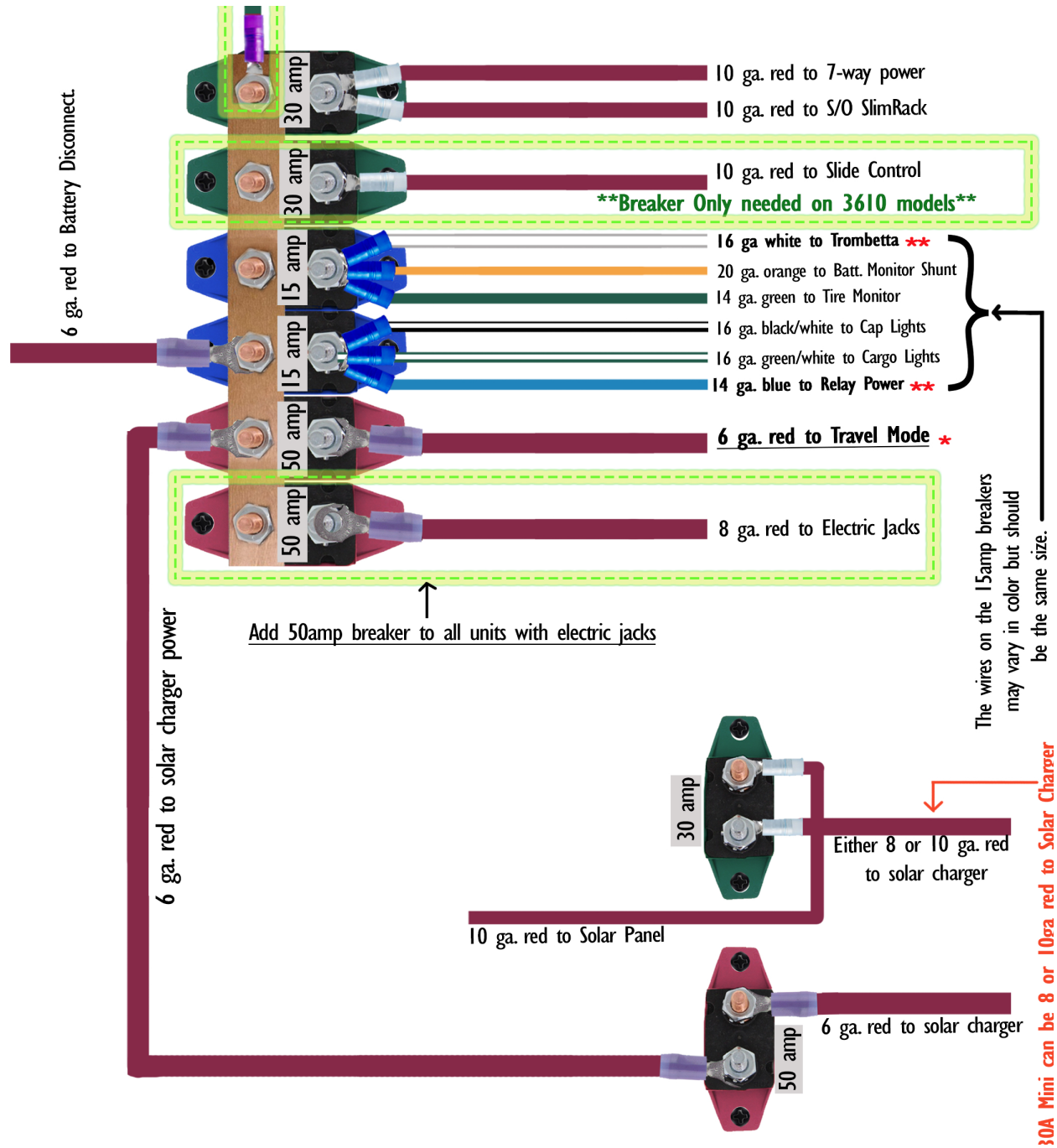


Figure 10

19. Turn on battery disconnects and plug RV in.
20. Install plastic covers over Travel Disconnect and mini breaker wiring.
21. Repair complete (reference Figure 11 - final diagram on the final page).



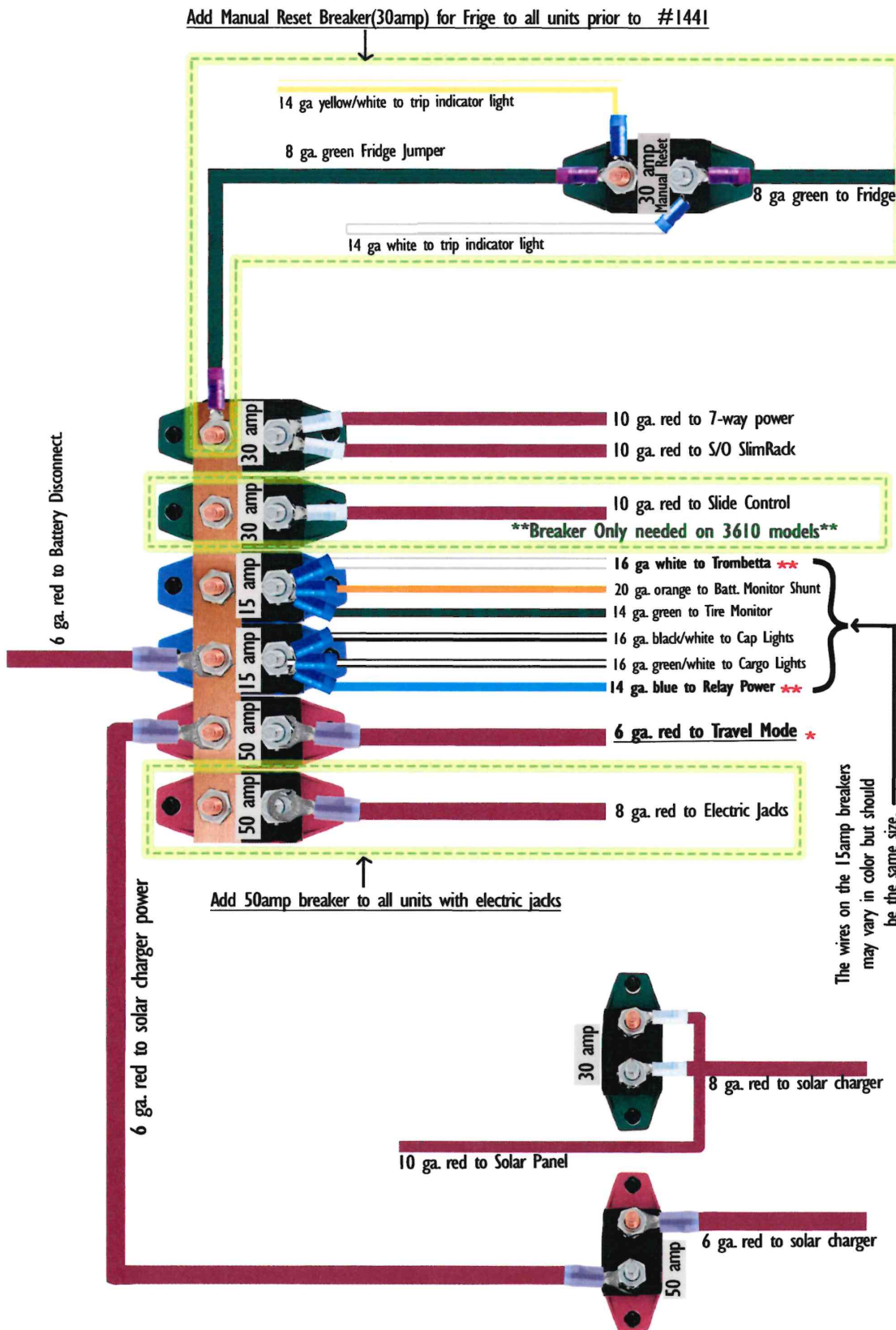


Figure 11