

SERVICE ADVISORY # 14-203

Mountaineer Water Heater

It has been determined some Montana Mountaineer FW units have been manufactured without a power source to allow 120 volt function of the water heater. This service advisory will explain the changes to correct the wiring.

Models Included: 2014 Montana Mountaineer 291RLT, 295RKD, 310RET, 331RLT, 356TBF, 375FLF
Serial Number Range: E4730782 – E4731017
Parts Required: Pick up locally - (2) Bell Caps for 14 AWG wire
 - (8') 14 AWG wire - (2) Zip Ties
 291RLT only - (1) KRV #101547 - Access - Door - Brown
Tools Required: - Wire cutters/ stripper/ crimper - Screw gun with square bit

REPAIR INSTRUCTIONS – 291RLT

ONE: REPAIR

Step 1 Locate the curio cabinet and cut a 4"x 6" hole in the shelf of the base cabinet to allow access to the water heater wire harness. See Figure 1.



Fig. 1



Fig. 2

Wire Harness

Step 2 Locate the water heater wire harness on the top corner of the water heater closest to the hole. Pull the wire harness through the hole in the shelf. See figure 2. Separate the orange wire from the harness.

Step 3 Cut an 8' piece of 14AWG. wire and pass it through the cut hole down to the bottom corner of the base cabinet into the pass-through compartment. One end of this wire will be connected to the orange wire of the water heater wire harness; the other will be connected to 12 volt power in the pass through compartment. Strip the wire ends, use a bell cap to join the orange wire from the harness to the new wire.

- Step 4** In the pass-through compartment, locate and remove the white cover and divider panel to gain access to the back of the convenience center. See figures 3 & 4.

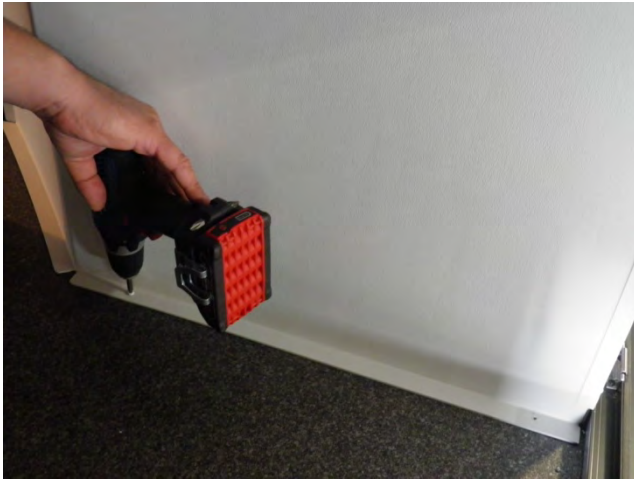


Fig. 3



Fig. 4

- Step 5** Locate the purple 12 volt wire that is connected to the storage compartment light. Connect this to the wire from step 2. See figure 5.
- Step 6** Secure the new wire to the floor of the pass through compartment with zip ties. See figure 6.



Fig. 5



Fig. 6

- Step 7** Test the 120 volt function of the water heater. A click should be heard from the relay located on the water heater.

Important – Do not activate the 120 V element unless there is water in the water heater. The water heater 120V element will be controlled by the switch on the outside of the water heater.

- Step 8** Replace the convenience center cover.

- Step 9** Use KRV # 101547 - Access door to cover the access to the water heater.

REPAIR INSTRUCTIONS – 210RLT, 295RKD, 331FLP, 356TBF**ONE: REPAIR**

Step 1 Remove the white cover from the back of the convenience center in the pass through compartment. See figure 7.



Fig. 7



Fig. 8



Fig. 9



Fig. 10

Step 2 Locate the water heater wiring harness, separate the orange wire from the harness. See Figure 8.

Step 3 Connect a 6' piece of 14AWG wire from the purple wire of the 12 volt compartment light to the orange wire of the water heater wire harness. See figures 9 & 10.

Step 4 Test the 120 volt function of the water heater. Replace the convenience center cover.

Important – Do not activate the 120 V element unless there is water in the water heater. The water heater 120V element will be controlled by the switch on the outside of the water heater.

REPAIR INSTRUCTIONS –375FLF**ONE: REPAIR**

Step 1 Locate the water heater, behind the fresh air return grill in the hallway closet. Remove the fresh air return grill. See figure 11.



Fig. 11

Step 2 Remove the CO detector from the kitchen base below the stove. Splice a 14AWG wire approximately 6' long to the 12 volt positive lead (red wire) of the CO detector. Feed the wire through the hole behind the CO detector. Reach through the water heater vent hole to pull the wire through the CO detector hole. See figures 12 & 13.

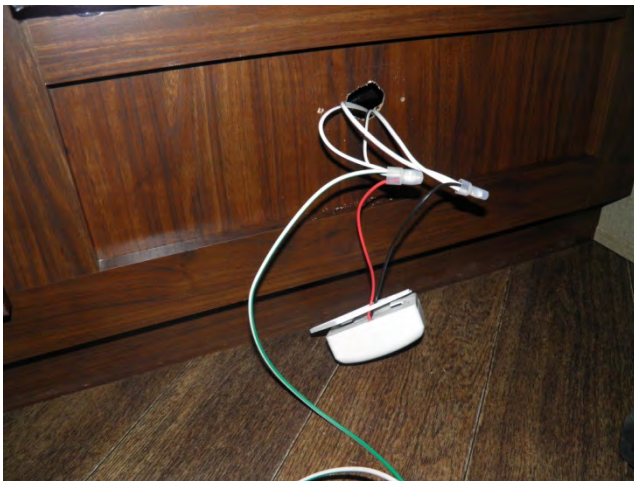


Fig. 12

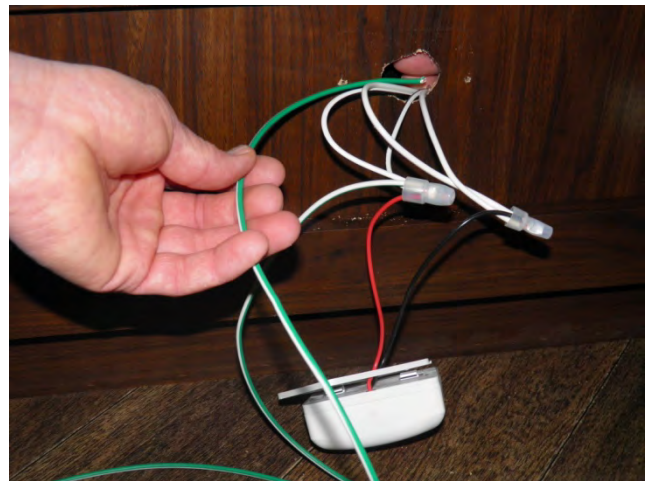


Fig. 13

Step 3 Locate the water heater wire harness on the back of the water heater. Separate the orange wire from the harness (see figure 14) and connect the orange wire to the new from step 2. See figure 15.

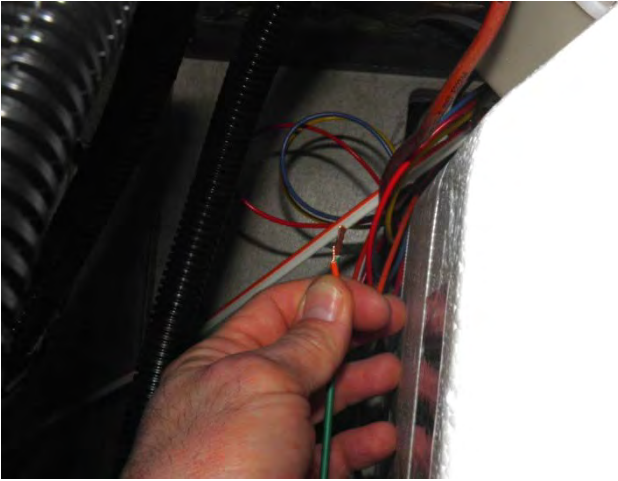


Fig. 14

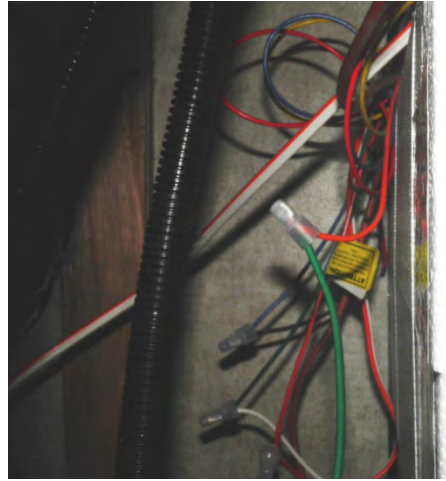


Fig. 15

Step 4 Test the 120 volt function of the water heater. Refasten the CO detector to the kitchen base. Replace and secure the grill to the water heater cover.

Important – Do not activate the 120 V element unless there is water in the water heater. The water heater 120V element will be controlled by the switch on the outside of the water heater.

TWO: WARRANTY REIMBURSEMENT

Submit the claim on Key Express or on a Keystone Warranty claim form using **Flat Rate Code # 7120342C** with **Service Advisory # 14-203** noted in the customer complaint section of the form. The amount of time authorized for this repair is 1.0 hour.

Please call Keystone RV Customer Service at **(866) 273-1450** if you have any questions.