

Cougar West Coast Inverter Prep

The information and instructions in a Keystone Service Bulletin (KSB) are intended to inform RV dealership Service Managers/Technicians of situations that may occur with some Recreational vehicles so dealership personnel can perform proper and efficient service. KSB's are intended to be used by trained RV technicians with the knowledge, tools and equipment to do the job properly and safely, not "do-it-yourselfers".

- Information is not presented as a repair guaranteed to be covered by warranty.
- Keystone's P & P (Policy & Procedures) must be followed for any requested warranty work.
- Do not assume this repair is covered by warranty.
- Not every unit listed requires a repair.

It has been determined the vehicles in this KSB population may have been manufactured with an inverter prep and only one receptacle is connected through the inverter. Only units that are being set up with an inverter will require this repair, otherwise the unit works as designed.

Models Included: 2020 Cougar: 22RBSWE, 29RLKWE, 31BHKWE

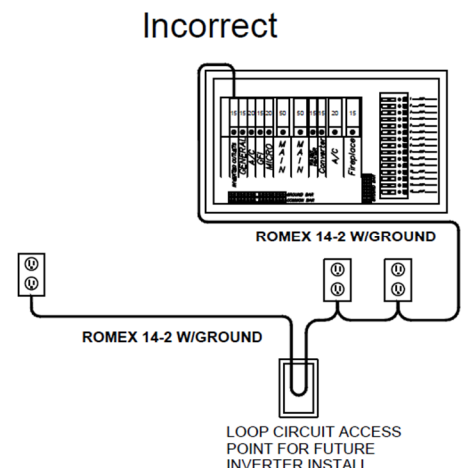
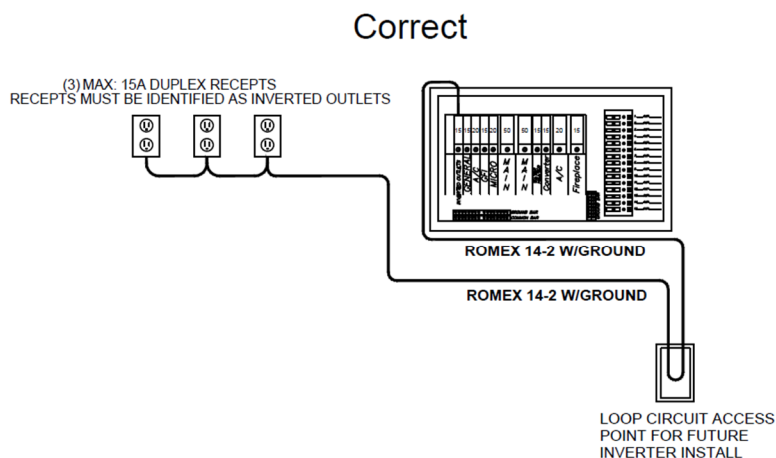
Serial Number Range: LC503030 - LC504734

Local parts: – Romex wiring – Wiring Connectors

Tools Required: – Screw gun – Screwdriver – Wire Cutter/Stripper

When performing this KSB, please make certain that appropriate Personal Protective Equipment (PPE) is used.

The remedy is to run a new wire from the power center to the inverter prep area. The circuit wiring will continue to the front off-door side bedroom receptacle, then to the kitchen sink base receptacle, and the main TV receptacle.



REPAIR INSTRUCTIONS

Step 1

Locate the trailer on a level, flat, hard surface. Chock the wheels.

Step 2

Disconnect RV battery and unplug the shore cord power.

Step 3

Remove the power center, then remove the wire going to the inverter breaker, remove the neutral from the neutral bar, remove the ground from the ground bar, attach the hot wire (black wire) and the neutral wire (white wire).

Step 4

22RBSWE and 31BHKWE: Locate the main TV and remove the receptacle to expose the wiring.

Disconnect the wiring from the receptacle and use a multi-meter to check for continuity on the wires between the hot wire (black wire) and neutral wire (white wire) to determine the Romex wire that comes from the power center. This wire will not be used again, cut it back and remove it out of the box. Do the same with the wire at the power center.

29RLKWE: Locate the GFCI on the kitchen base and remove the receptacle to expose the wiring. Disconnect the wiring from the receptacle and use a multi-meter to check for continuity on the wires between the hot wire (black wire) and neutral wire (white wire) to determine the Romex wire that comes from the power center. This wire will not be used again, cut it back and remove it out of the box. Do the same with the wire at the power center.

Step 5

Install a new 14-2 Romex wire from the power center to the inverter prep area in the front of the unit. It is located on the off door side front pass-through compartment. Following the shortest route, remove the fasteners in a couple of spots in the underbelly to run the wire from the power center to the off-door side front corner. Fasten the Romex to cross members whenever possible using zip ties (shop supplied part). Reconnect the new 14-2 Romex to the power center inverter breaker, reinstall the load center.

Step 6

Remove the lower metal on the front wall. Install the 14-2 Romex from the power center through the front wall framing into the pass-through inverter prep area. Once the 14-2 Romex wire is run into the inverter prep area, the lower front metal can be reinstalled and properly sealed to prevent water intrusion. Refasten the underbelly.

OVERVIEW OF 22RBSWE 31BHKWE INVERTER CIRCUIT

Originally the TV receptacle was wired to the load center. Now that wire is removed and cut back so that it cannot be used again. This will make the TV receptacle a single wire receptacle and it is connected to the front bedroom receptacle. The kitchen base receptacle is already wired to the front bedroom receptacle also. The front bedroom receptacle will now become a three wire receptacle and is wired to the inverter.

OVERVIEW OF 29RLKWE INVERTER CIRCUIT

Originally the kitchen base GFCI receptacle was wired to the load center. Now that wire is removed and cut back so that it cannot be used again. This will make the kitchen base GFCI receptacle a two wire receptacle and it is connected to the front bedroom receptacle and the TV receptacle. The front bedroom receptacle will now become a two wire receptacle and is wired to the inverter and the kitchen base GFCI.

44

U DINETTE TOP

Furn.30

3 COAT HOOKS THIS WALL

CLOSET

H/M

DP

FB

PWR CTR

NEW WIRE FROM POWER CENTER TO INVERTER

TV

BAR TOP

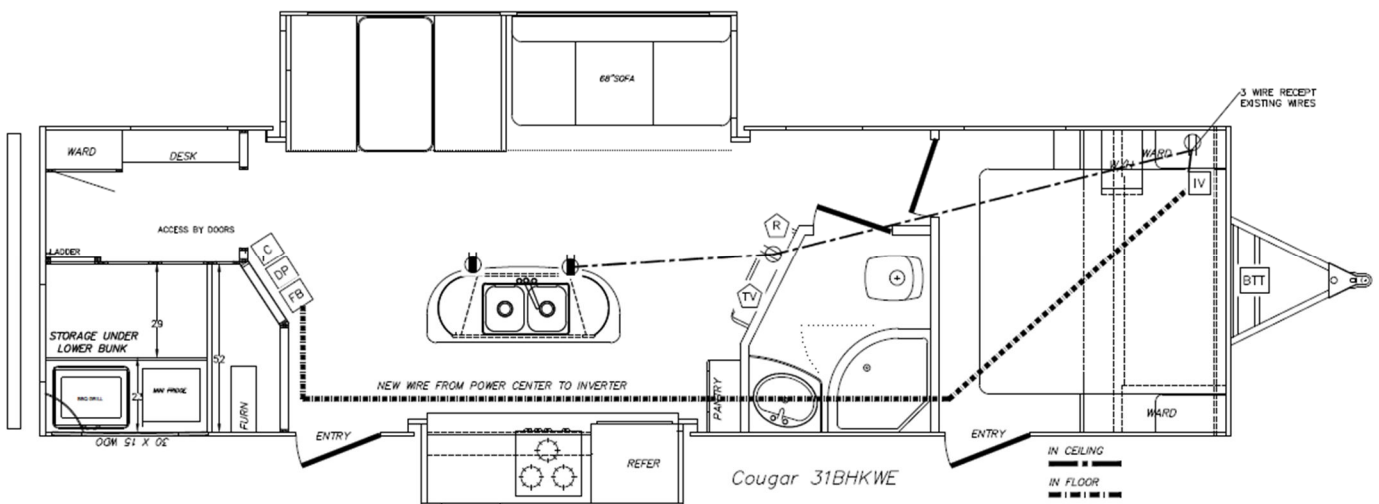
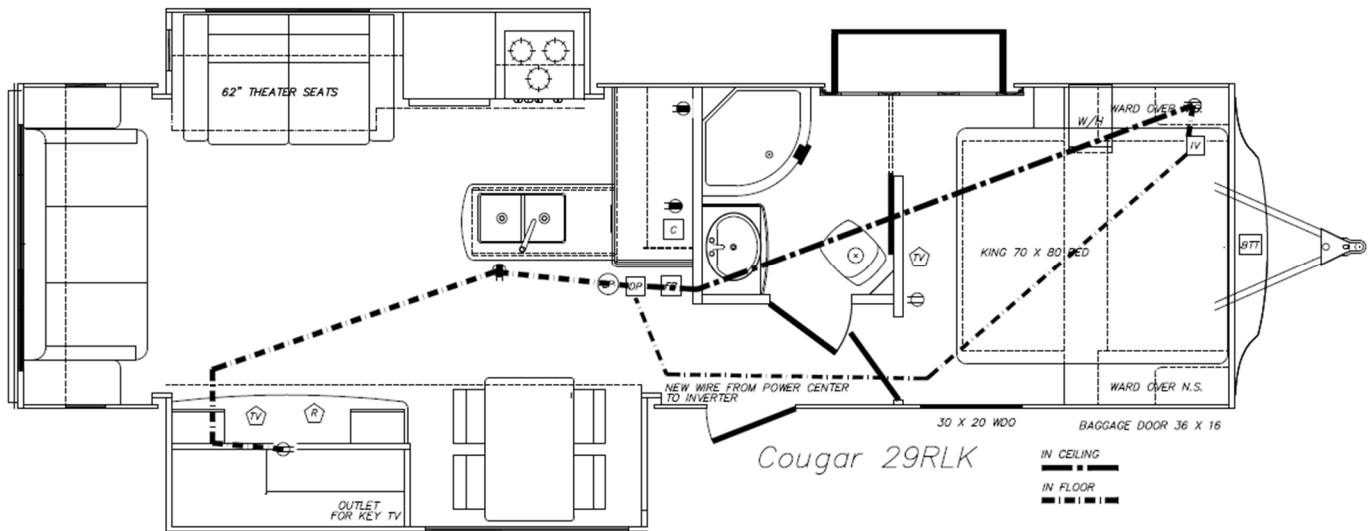
WAP

WAPB

3 WIRE RECEPT EXISTING WIRES

Cougar 22RBS

IN CEILING
IN FLOOR



WARRANTY REIMBURSEMENT

This KSB is for repair purposes only. If this is a warranty repair, the flat rate code is **7301042A**

Submit a pre-authorization and claim on Key Express, **Flat Rate Code # 7301042A** with **KSB #200117** noted in the customer complaint section. The time authorized for this repair is **4.5 hours**.

No part return required.

If you have questions, please contact Customer Service: **(866) 273-1454**