



## 2010 43QGP Allegro Bus

5/24/2012

**FIFTY-SIXTH** - coach modification – **REAR BATH 20 AMP GFCI HAIR DRYER OUTLET.** Cathey made a recent request for me to install an additional outlet for her hair dryer in the rear bath. Our coach has a GFCI duplex outlet on the backsplash, but she desires to use those two outlets for two curling irons therefore a need for at least one more high amperage outlet for her hair dryer.

A GFCI outlet was purchased and installed in the closet wall adjacent to the sink top. This outlet was wired back to the Sub-Electrical Panel located in the closet passenger side corner. A tandem 20 amp circuit breaker was purchased from Home Depot and installed in place of the OEM 20 Amp Audio Video System circuit breaker.



The closet wall required additional strength as there are two thin sheets of veneer separated by about one inch of air space in the above wall.



The following photo shows the 120/240 VAC Electrical Panel in our 2010 43QGP Allegro Bus which is located on the floor in the corner of the passenger side rear closet, as shown in the previous photo. This electrical cabinet contains both the 12 VDC HOUSE fuse panel and the COACH 120/240 VAC Circuit Breaker panel.



As shown above, the **GREEN OUTLINED** area is the MAIN electrical panel which when connected to 50 Amp shore power or when the 10KW 120/240 VAC generator is running this panel contains UP TO 100 AMPS of power in its two 120 VAC legs.

The **INVERTER OUT #1** and **INVERTER OUT #2**, 30 Amp circuit breakers route shore power or generator power to the **INVERTER**. The **INVERTER** uses some of that power to re-charge the house batteries, the balance is sent back to the Sub-Electrical Panel which is shown in the **RED OUTLINED** area above. That power comes into the Sub-Panel on **INVERTER IN #1** and **INVERTER IN # 2**, 30 Amp circuit breakers which feed the other circuit breakers labeled in **RED**. The Sub-panel circuit breakers control power to the GFCI #1, GFCI # 2, Microwave, Refrigerator, Audio/Video System and the new rear bath GFCI outlet circuit.