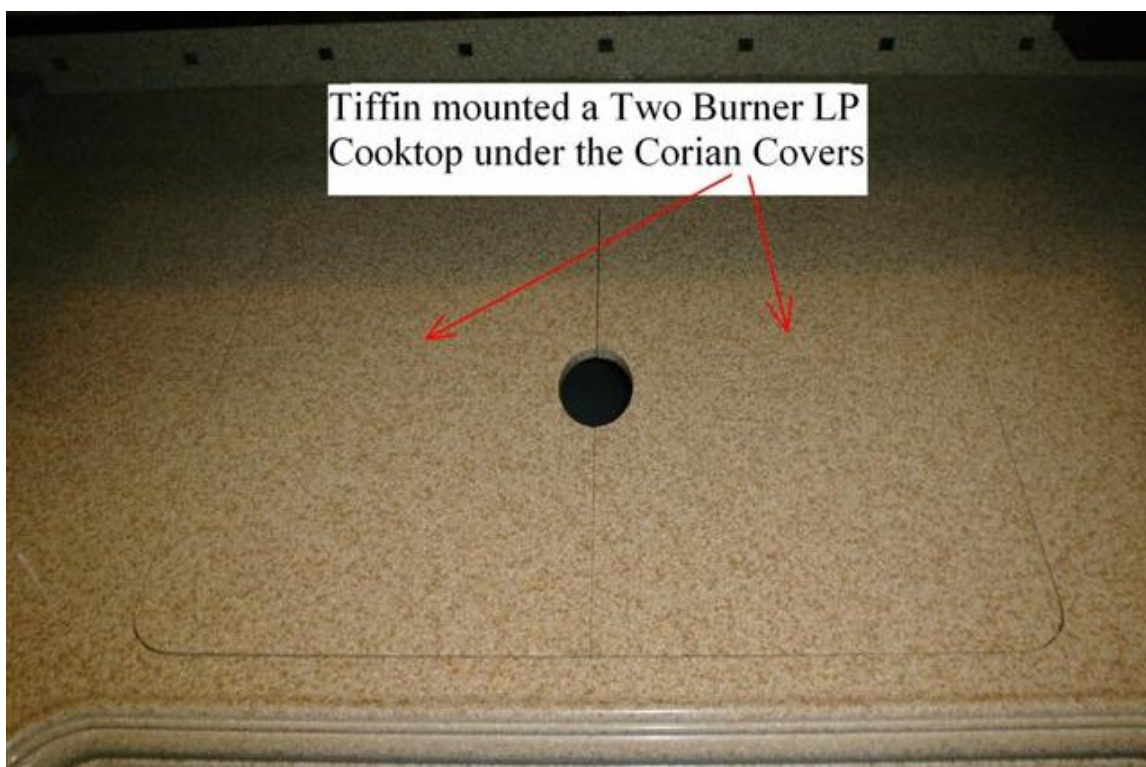




2010 43QGP Allegro Bus

3/7/2011

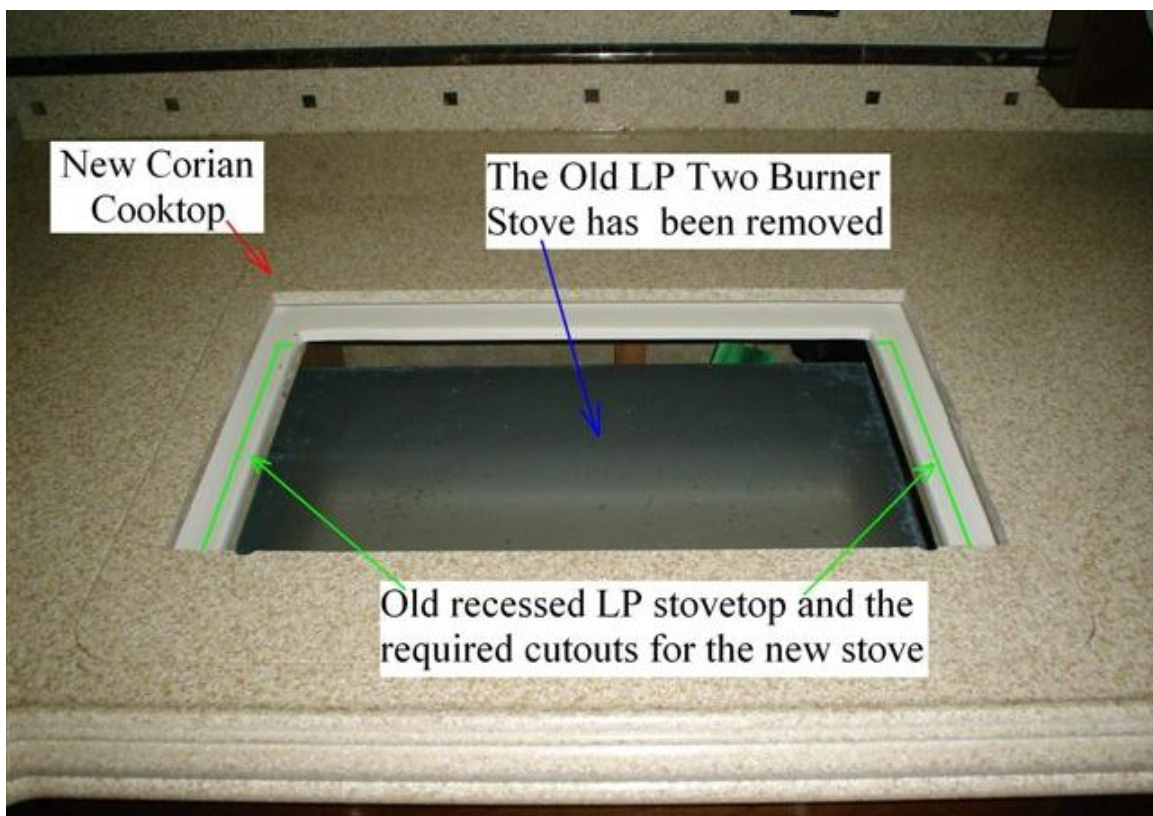
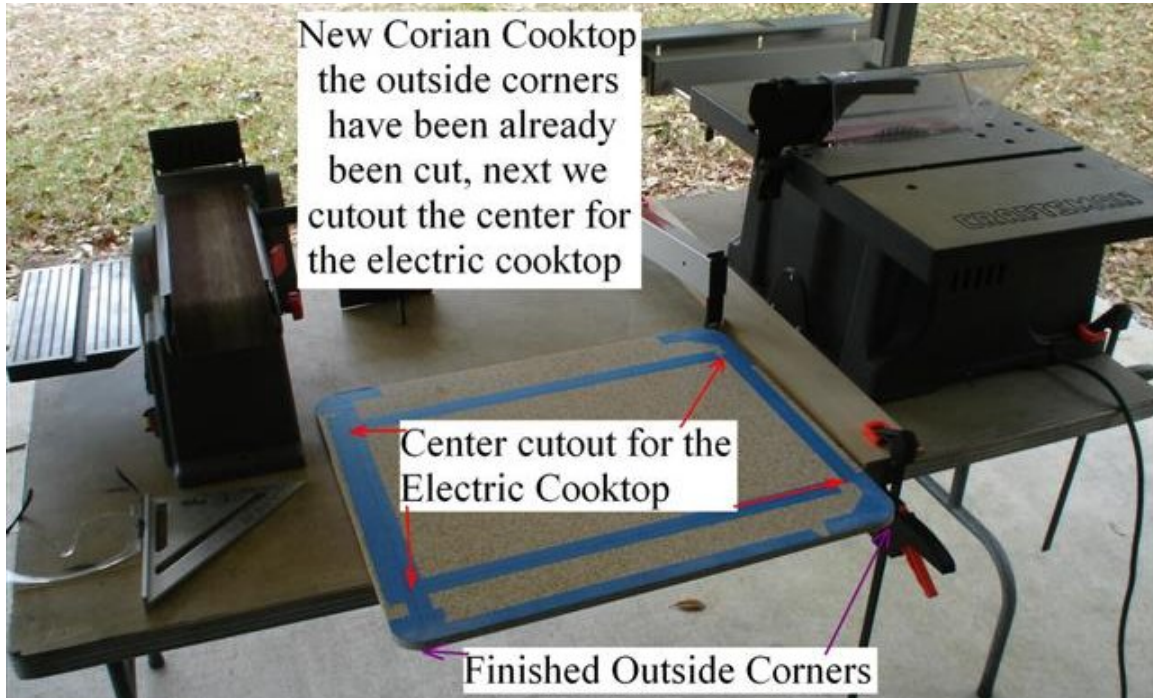
EIGHT coach modification **JEN-AIR TWO BURNER ELECTRIC COOK-TOP** When we purchased our 2010 Allegro Bus this was one of many modifications we had planned replacing the Tiffin installed two burner LP cook-top. The cook-top was the **ONLY LP** appliance on board replacing the cook-top would allow the LP tank to be removed making the coach totally LP free, and an **ALL ELECTRIC COACH**. Tiffin mounted the LP cook-top recessed which allowed the cook-top to be covered with two Corian covers and the counter top to remain flush.



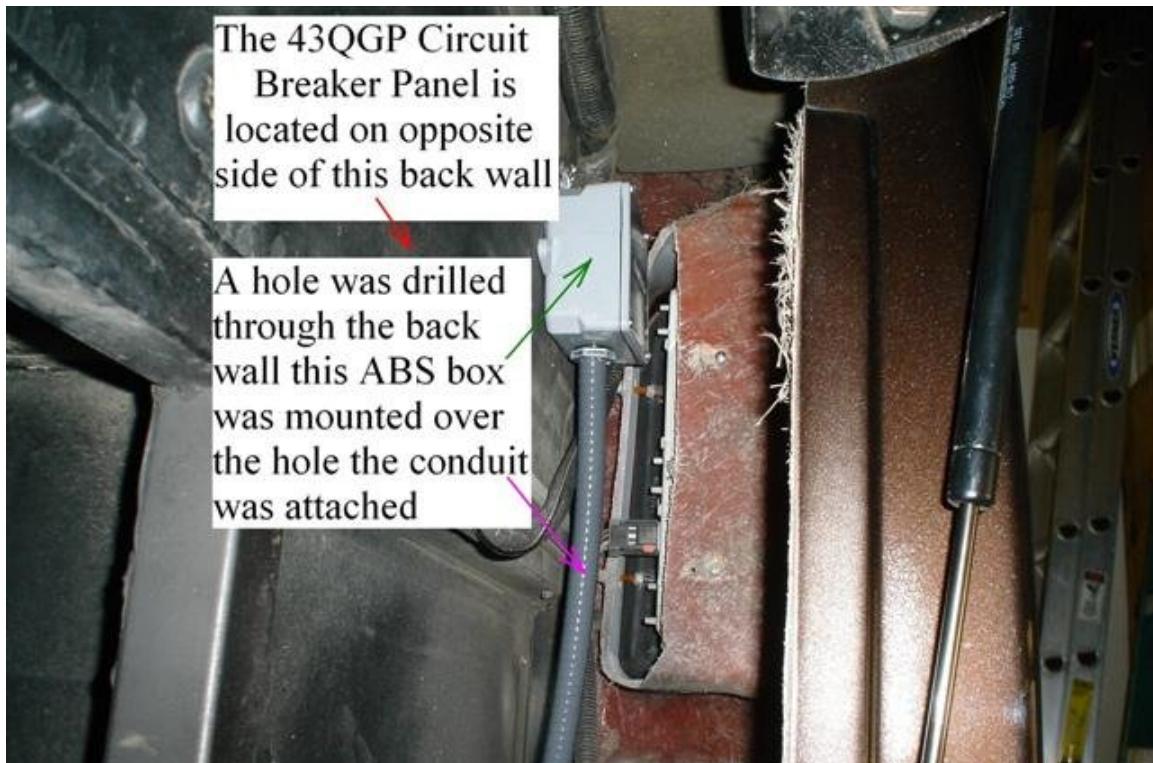
A 24" by 24" piece of Corian was obtained from Tiffin to be used in the installation of our new Jen-Air Electric Cook-top.

The first part of this modification was to cut the new Corian to replace the two LP stove-top covers. To make pencil marks easier to see blue painters tape was stuck on the new Corian then both LP covers were placed on top of the new Corian. The outline of the OEM covers was drawn on the new Corian with special care taken on marking the outside rounded corners.

After marking the new cover the outside corners were cut using a saber saw with a fine tooth blade, a 36" table belt sander was used to finish the corners. A table saw with a carbide blade was used to cut MOST of the Electric stove-top inside cutout leaving about three inches of each inside corner, the inside corner cuts were then finished with the saber saw.

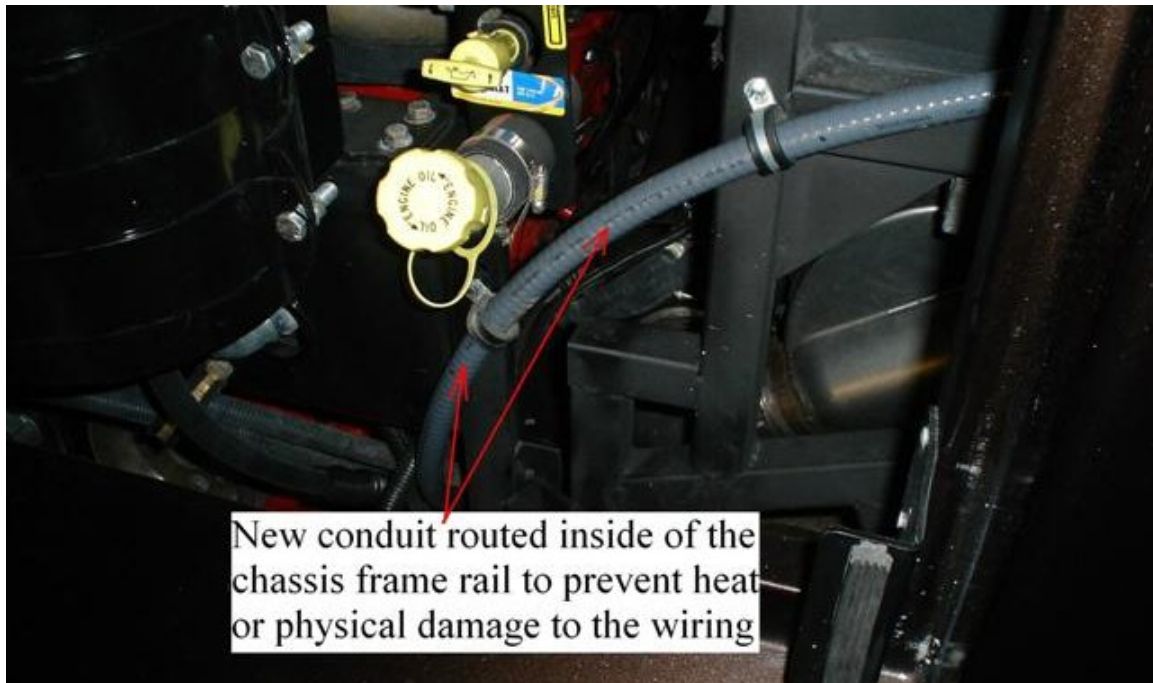


After checking the new cook-top cover for proper fit, the new cover was removed. The old recessed (white) LP cook-top was marked for cutting (the new electric cook-top is wider than the old LP cook-top) a air powered saw was used to cut about 3/8 inch from each side of the old cook-top to allow the new electric cook-top to be lowered into the new cook-top cover. At this point I took a break from the inside counter top work to install the conduit and wiring for the cook-top. The cook-top requires the use of 10 gauge wiring protected by a 20 amp circuit breaker. Our 2010 43QGP was built with the 120 VAC electrical panel installed on the passenger side closet floor. This required the installation of the above wiring from that panel through the back wall of the closet under the coach through the wet bay into the Aqua-hot storage compartment up through the floor into the half bath floor cabinet into the slide plumbing/wiring then into the kitchen cabinet.

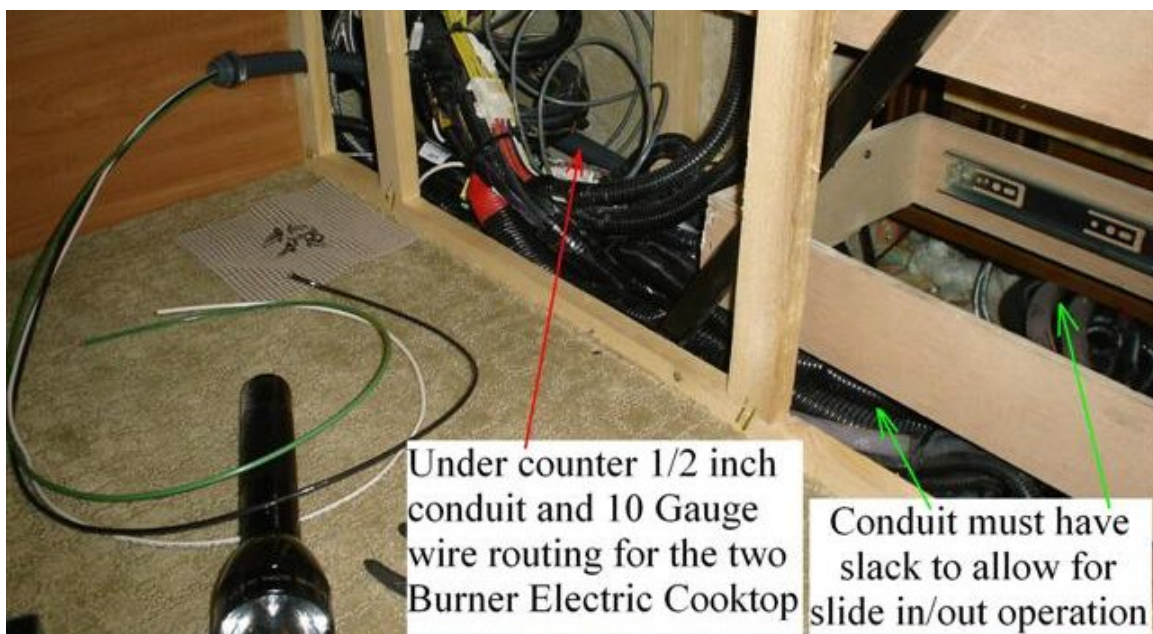


ABS plastic boxes along with 1/2 inch PVC flex-conduit were used to protect the wiring. 10 gauge stranded wire for the black, white and green conductors was used for the wiring. The use of stranded wire goes back to my 35 years of experience in a previous work environment. Tiffin and many other coach builders usually install solid wiring (Romex) protected with a split-loom cover for this application.

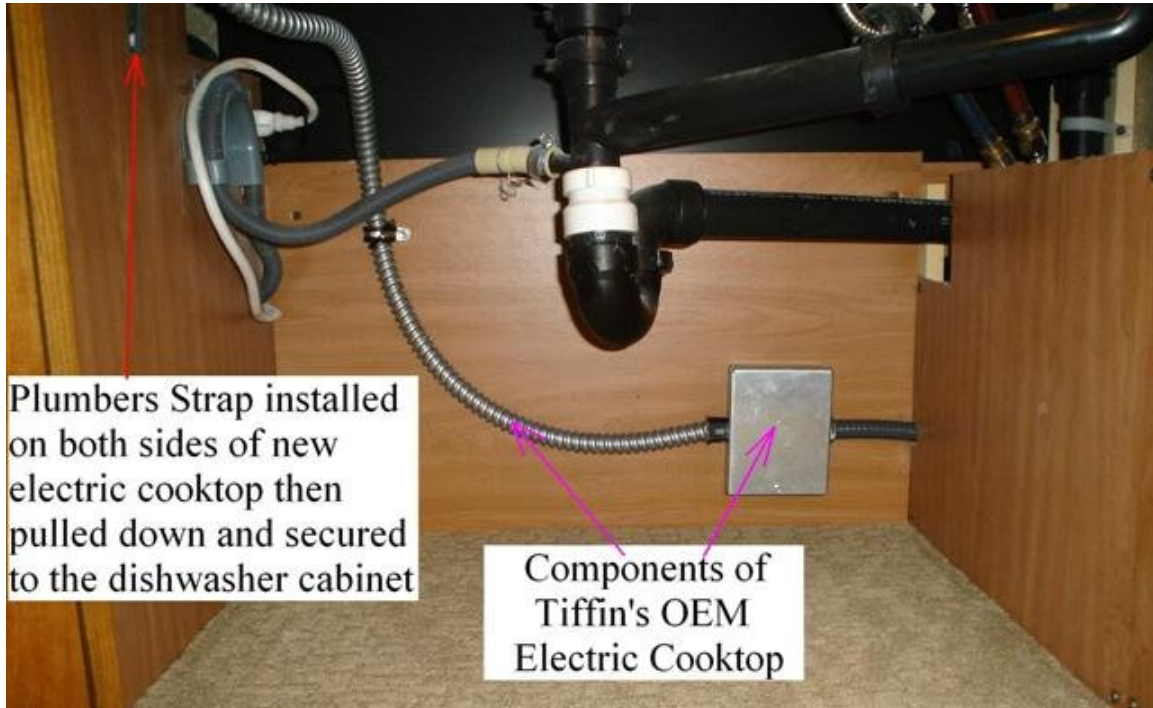
The conduit was routed inside of the chassis frame rail this was done to protect the wiring and conduit from the high temperatures found in the exhaust area.



The conduit and wiring is routed through the wet bay into the Aqua-hot compartment where a second ABS box was installed. Another run of conduit was snaked up through the floor into the slide area where a loop was provided to allow the slide to open and close. The conduit was routed into the under sink compartment.



A 12 inch piece of plumber's strapping was attached to each side of the new cook-top. After the cook-top was installed in the new Corian cover the plumber's straps were pulled down and screwed to each side of the dishwasher cabinet.



Total power consumption is 19 amps when both burners are ON and turned to HIGH. I did NOT wire the new electric cook-top through the inverter, although the cook-top MAY/CAN be wired that way.

The stove-top seam was sealed with almond colored silicone caulk after the caulk had cured and shrunk a clear silicone caulk was installed over the almond caulk and as a seal around the edge of the Jen-Air cook-top where it meets the counter.

Below is a picture of the completed modification which makes our 2010 43QGP Allegro Bus an “All Electric” coach.



Materials list:

- 1 - Jen-Air (JEC6277) Cook-top
- 1 - 24" x 24" piece of Corian
 - OR the OEM LP cook-top covers may be used in place of new Corian
- 1 - 24" piece of plumber's strapping
- 35 feet of black, white, and green 10 gauge stranded wire
- 35 feet of 1/2 inch flex PCV conduit
- 2 - PVC 4" boxes
- 4 - 1/2 inch liquid tight PVC connectors
- 2 - 1 inch conduit straps
- 12 - Large cable ties, used to secure the conduit to prevent it moving