



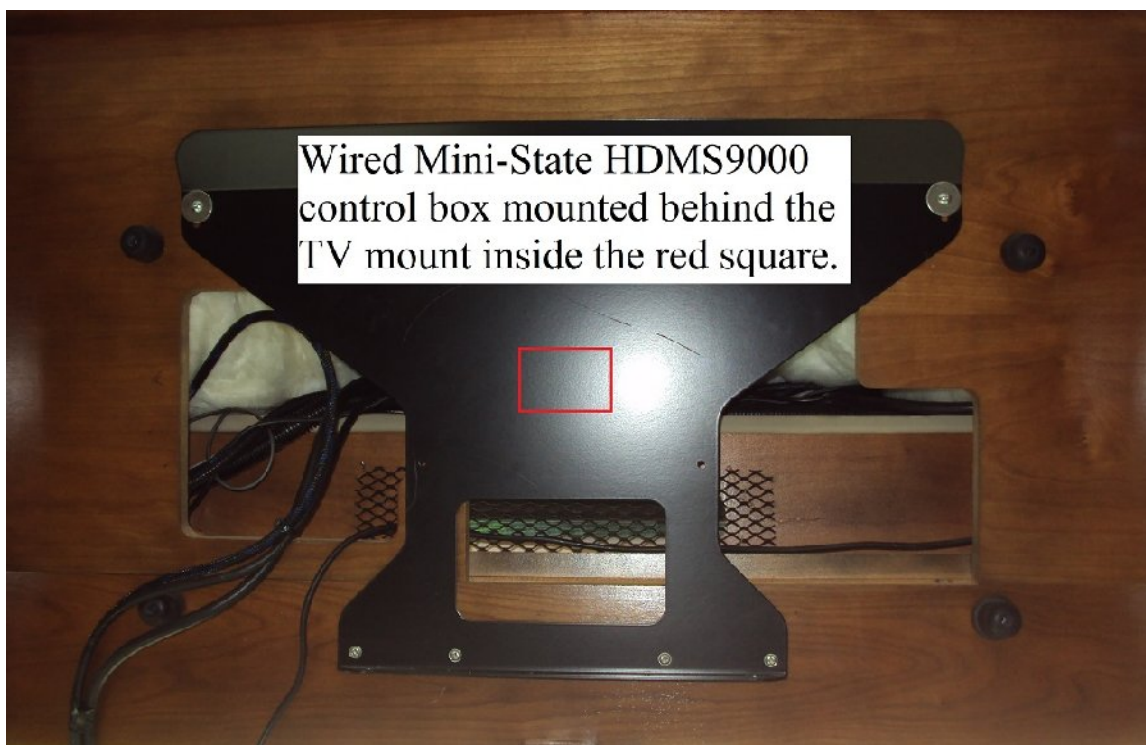
## 2010 43QGP Allegro Bus

4/22/2014

### **ONE HUNDREND-FOURTH - coach modification – REPLACING THE MINI-STATE OTA ANTENNA WIRED REMOTE WITH A**

**WIRELESS REMOTE.** Our 2010 Allegro Bus had a Mini-State HDMS9000 OTA (Over The Air) antenna installed during construction. Tiffin in recent years began installing a wireless version (HDMS91000) of the same Mini-State OTA antenna system.

During a recent Red Bay trip we found a “Like New” Mini-State HDMS9100 Antenna system still in the box for a reasonable price. This system allows the OTA antenna to be repositioned by using a small remote control where the original OTA antenna system required an operator to reach into an overhead cabinet to use a wired remote to reposition the antenna.

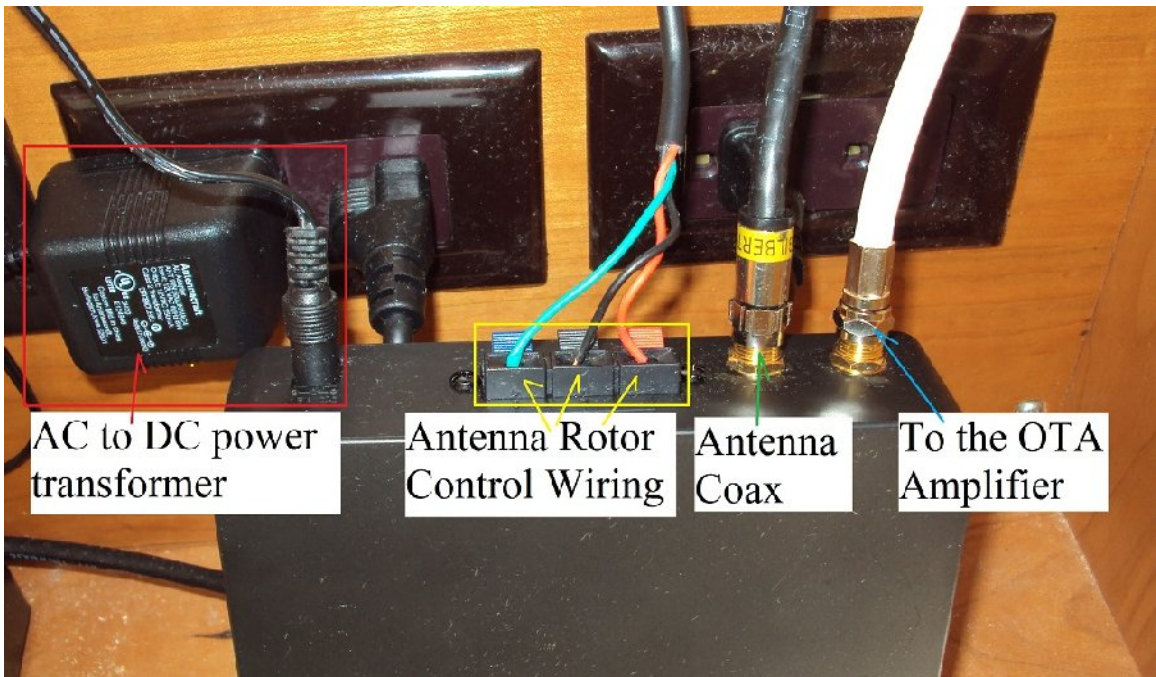


The above photo shows (red box) the location of the original OTA rotor control as a result of Tiffin installing the rotor controller in this location the TV had to be removed to access the rotor controller and its wiring for both the controllers removal and retrieval of the antenna coax and antenna rotor control cables.

The photo below shows the wired equipment for the original OTA antenna system that was removed to install the new wireless antenna system.



Below is the new wireless OTA antenna system, it is pretty much a plug and play swap out.

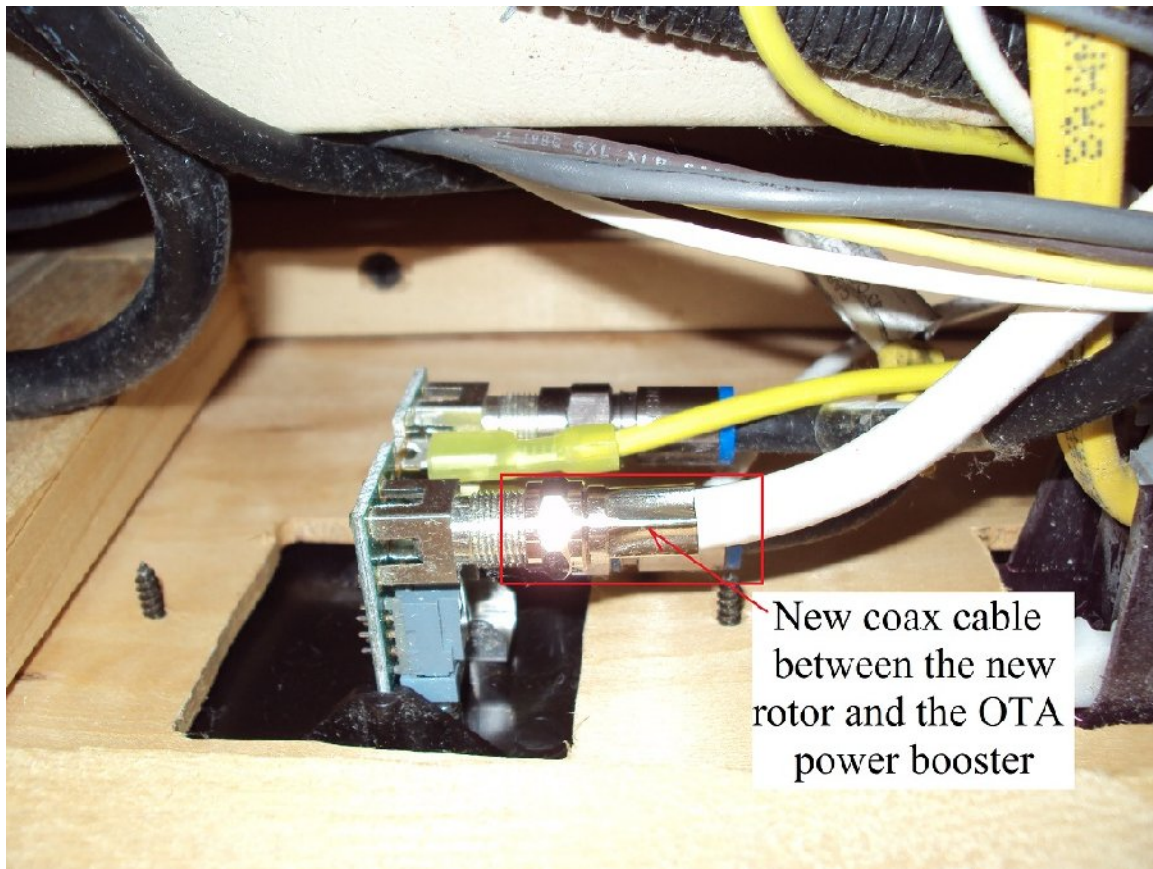




The OTA Antenna Coax Connector was moved from the old rotor to the antenna connection on the back of the new rotor.

The hard wired OTA Antenna Rotor Output Coax was replaced with a NEW short coax cable (white coax cable) this cable is connected to the back of the new rotor unit and replaces the old antenna rotor output coax connected to the back of the OTA power booster show in the below photo.

The three wires of the Antenna Rotor Control Wiring are just moved between old and new rotor units following the wiring color codes.



Plug in the new AC to DC transformer at the same 120 VAC source used by the old system then plug the 12 VDC plug into the power connection on the back of the new rotor.

IMO, it probably would not have been necessary to replace the antenna control head on top of the coach however as I had a new antenna head and wanted to verify the antenna rotor control wiring was connected the same at both ends I replaced the antenna head while on the top of the coach.

The next part of this modification took almost as long as the replacement of the equipment. Tiffin with the wireless rotor has been installing the new wireless rotor controller into the wooden back of the same overhead cabinet

used when our coach was built. In an effort to match the new rotor installation as much as possible required me to cut a non-symmetrical hole into a thin sheet of wood. I decided using a razor knife to cut the hole would be best as any of my saws would have destroyed the panel.



I decided the best location for the SMALL antenna remote control when it is not being used was to stick it to the back of the cabinet with a short piece of industrial strength Velcro.

The controller has 16 sectors each sector being 22.5 degrees of a total 360 degrees circle. The key pad allows programming of specific stations. So if you have a special place you camp you can locate the local TV stations and program those TV stations into the remote control keypad next time you are parked in that special place you will not need to find the local stations a second time, HOWEVER you will still need to run a scan on each TV AFTER the antenna rotor has been told via the wireless remote to rotate to the local TV station you want to watch.