

Alliance RV 7-Way Plug Junction Box Wiring



The information provided here is to address the correct wiring configuration of the 7-way plug junction box and specifically the difference between Valor and Paradigm coaches. During dealer PDI's Alliance has been receiving pre-authorization requests to fix perceived wiring errors on Valor models due to the positive wire not being connected to allow the tow vehicle to charge the battery(s) during transit.

Valor

Except for very early VIN numbers all Valor models come from Alliance with a least one installed lithium-ion phosphate battery and two solar panels.

Valor has two current packages

Standard:

- 640 watts of solar. 2-320 Watt Monocrystalline solar panels from DEHCO electronics.
- 100Ah lithium-ion phosphate battery from Renogy.
- 40 Amp MPPT solar charge controller from Renogy
- 500A readable battery monitor

Solar Package Plus:

- 1 additional 320 watt solar panel
- 2 additional 100Ah lithium-ion phosphate batteries from Renogy.
- Upgraded 60 Amp MPPT solar charge controller from Renogy
- 3000 watt Inverter from Renogy. This is wired to approx 90% of the 110v plugs in the unit and wired to Main A/C in living room.

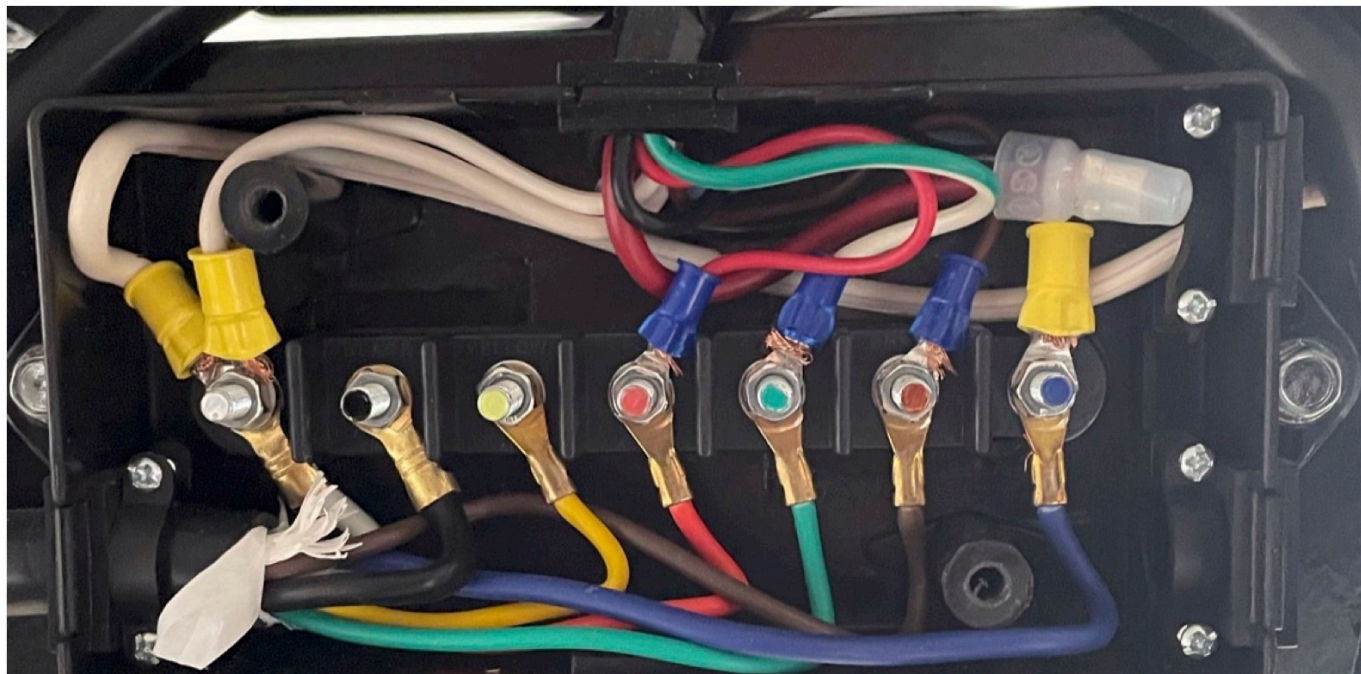
With these systems installed, the coach battery(s) does not require charging through the 7-way plug from the tow vehicle, and most importantly this was done to protect back feeding the system from the tow vehicle. Please reference the pictures of the junction box wiring configuration on the following page for the correct wiring configuration based on model.

Paradigm

Paradigm and Avenue coaches 7-way plug junction boxes are wired to allow the tow vehicle to charge the battery(s) as seen below.

SEE NEXT PAGE FOR CORRECT WIRING EXAMPLES

VALOR CONFIGURATION



PARADIGM CONFIGURATION

