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## Replacement of the NDR-30

The solar regulator on older Addco message boards is a NDR-30 which is located in the passenger side of the trailer, mounted to the battery compartment wall.



A good replacement solar regulator is a ProStar-30 with monitor, (PS-30M) from MorningStar. This part is found on many online sites including [www.mrsolar.com](http://www.mrsolar.com).

When replacing make sure you disconnect the battery power. Then remove the wires from the NDR-30, note where the wires are located prior to removal. The PV+ and – are the wires coming from the solar panels. The connections on the PS-30M are a bit smaller than the thickness of the wire on the unit. The wire can be stripped some of the wire strands down to thin it out and add a pin end connector to the end of the wire. Place these ends into the appropriate spots on the solar regulator.



This is only one way to make the wire smaller. There are many ways to reduce this size so do what feels comfortable for you and your application.

After removing the wires from the NDR-30, remove the unit itself. Now the PS-30M can be mounted using long self tapping screws or long bolts. The screws are nice since it is difficult to tighten the bolts behind the solar regulator. Next, place the wires in the appropriate positions, the PV+ and – go into the Solar + and – on the new solar regulator. Then move the battery wires to their appropriate spots. Re-connect the battery power and make sure the monitor displays the battery voltage on the screen.

There are 3 lights to the right of the display, when a light is lit up the volts/amps will be displayed in the screen for easy diagnostics.