

Tech Note:

Optional: Hard-Wiring the Charging System into the Vehicle Electrical System

Depending upon how your vehicles have been outfitted, there may already be a 12Vdc car adapter socket in the vehicle; or an inverter that is providing 110Vac. If the former, the 12Vdc charging cable would just plug into the socket in the vehicle without modification. If the latter, you can order an AC/DC adapter cable (available from us) and plug that into the 120Vac outlet on the inverter.

However, should you need to hard-wire the charging system, the following instructions outline one method of modifying the cigarette adapter cable to splice directly into a 12V vehicle's electrical system.

Our car adapter cables have a 5 amp inline fuse in them, so make sure you have an inline fuse as part of the modification. Basically, you would cut off the cigarette lighter plug end of the cable, and then strip and connect the ends of the cable to the positive (+) and negative (-) of the vehicle's electrical system.

Again, you'll need to install an inline 5 Amp fuse on the positive (+) side between the positive end of the cable and the positive (+) 12Vdc terminal in the vehicle. Use a commercially available inline fuse holder - see example in the picture section below. You can use the 5 amp fuse that's in the adapter plug you cut off. The negative (-) end of the cable would of course be connected to the negative (-) terminal in the vehicle.

Figure 1 below is a picture of the vehicle charging adapter that shows the fuse and end tip removed. Simply unscrew the tip from the body, and the fuse can be removed. The tip will be on tight, so you may need pliers to unscrew it. Figure 2 below is a picture of an example inline fuse holder.



Figure 1.



Figure 2. Picture of example inline fuse holder.



Figure 3. Symbol showing center pin of connector is positive (+).

Note that the center contact in the connector end of the cable that plugs into the charging system goes to the positive (+) side of the power source. Your shop's mechanics should be more than capable to perform this hard-wired modification.

Should you have additional questions, please feel free to contact us: admin@PFDistributionCenter.com.