

# **GPS/Cell Phone on a Positive Ground Car**

**By Sean Miller**

**Ever want to charge your cell phone or use your GPS in your positive ground Austin Healey? Well you can. Wal-mart sells a 3M Automotive twin power cord for around \$7.00 that can be modified to work. The reason this power cord is so nice for this application is that it NEEDS to remain isolated from any metal (grounding surface) on the rest of the car. This particular power cord is covered in plastic and has a nice rubber end cap. Additionally it has two outlets, so you can make aux outlets for two cars. The other thing to keep in mind is that the cell phone or GPS MUST remain isolated from any grounding sources (metal) on the car. If a metal part of the GPS or cell phone (usually just the charging USB port, or an outlet on some GPS units- most other parts are plastic) touches any metal on the car, you WILL fry it! It would be suggested to charge the cell phone on the passenger seat or on a well covered parcel shelf and use the GPS on a well secured suction windscreen mount.**

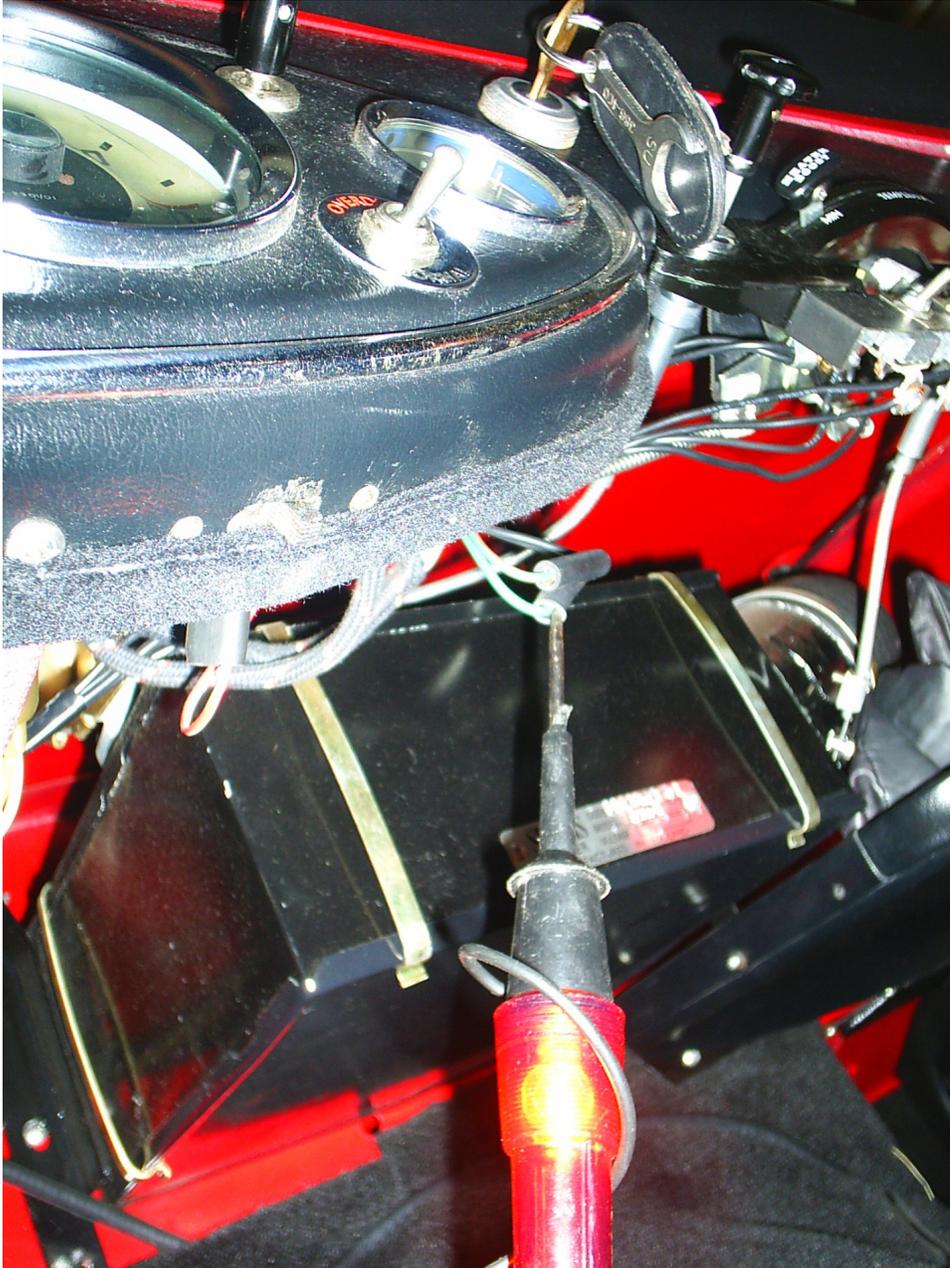


**After cutting the two aux power outlets off the twin power cord identify the marked wire by the raised ribbed markings- this is the wire that goes to the center of the aux power outlet. Solder a grounding connector to this wire end. On the other wire solder a bullet connector. It is important that the grounding wire is the wire that goes to the center of the outlet- if not you could fry your devise. It would be advisable to test your cell phone charger (as most have an**

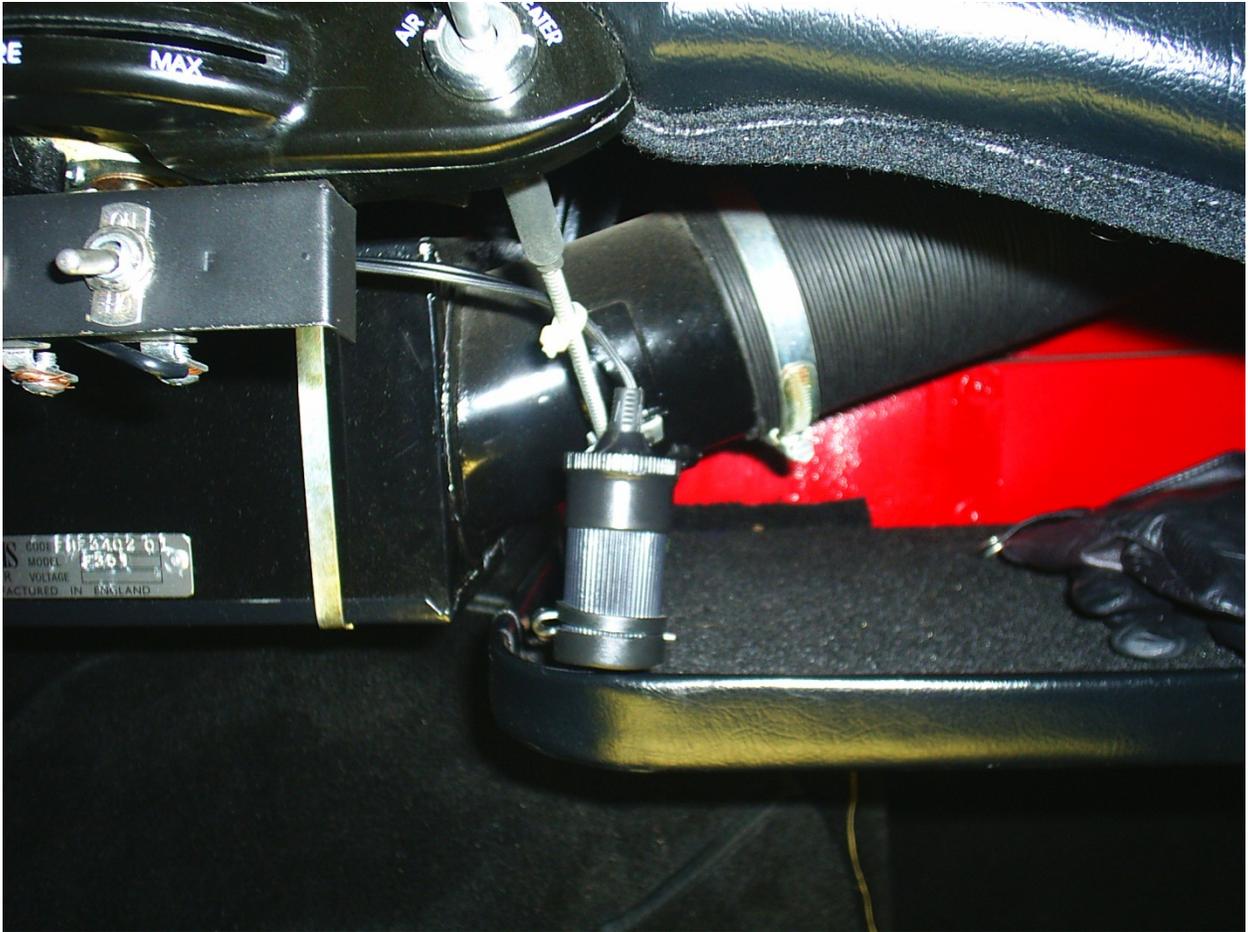
**indicator light on them) first to see if it works. If the light blows, then it isn't wired correctly.**



**Next find the ignition controlled heater blower fan connection/ power source under the dash and near the heater controls. Remove the Lucas single connector and install a four way Lucas connector. Plug the new aux power outlet bullet connector into the Lucas four way connection. Attach the grounding wire onto the back of the fuel gauge mounting bracket or some other grounding source.**



**Lastly use a zip tie to attach the aux power outlet wires to the heater control panel cable allowing it to dangle over the parcel shelf.**



**Again be very careful that the device does not ground out on any metal part of the car. It may also be advisable to add an inline fuse on the power source wire.**