

54EL057

110 VOLT POWER FOR THE EUROPA

by Jim Gallagher

A cheap, simple addition to any car equipped with an alternator is an AC outlet. The alternator actually puts out variable frequency DC, but this is sufficient for light arc welding directly from the power outlet or for powering 110v lights and tools.

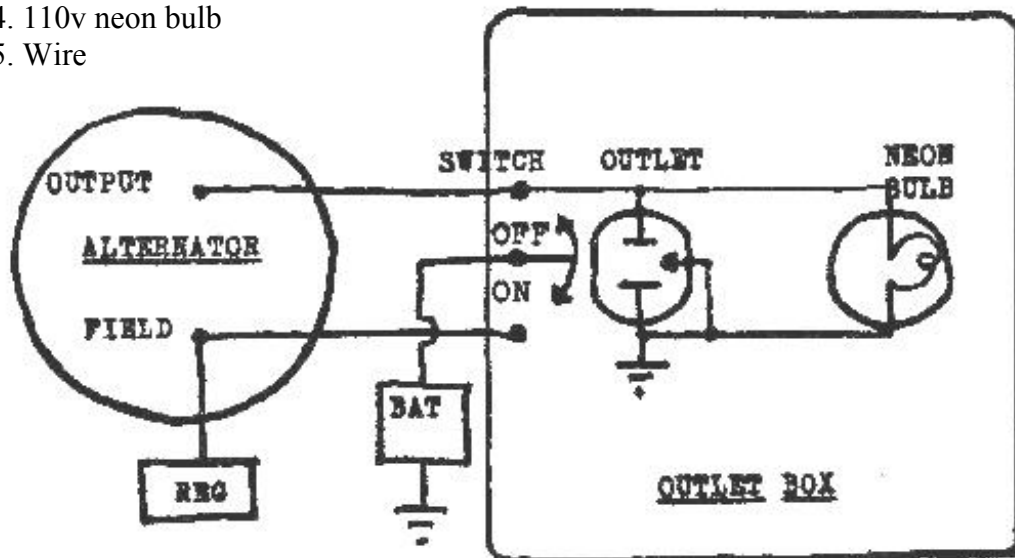
Every wrecker in San Diego County is equipped with a similar device, which was marketed for \$30. You can duplicate the device for about \$2 at your local hardware store and install it in an hour or so.

Normally it takes 1500-1800 engine RPM for arc welding and 2500 RPM for 110v operation (as indicated by the neon bulb). Below is the schematic for converting the Renault-Europa to 110v power.

***CAUTION:** You will burn out the switch if you turn it on or off with the engine speed above idle. A circuit breaker can be installed between the alternator and the switch to prevent such momentary overloads, which could cause damage.

Parts List

1. Double throw switch
2. Outlet box & cover plate
3. 110v receptacle
4. 110v neon bulb
5. Wire



Note: Neon bulb lights up when 110v is available but remains off when using system for welding.