

## ***Metropolitan Restoration Service, Inc.***

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### **Polarity Change Instructions**

**This procedure will your change your Metropolitan's ground from the factory positive ground to negative ground. If done properly, this will allow you to run modern 12v accessories in your car. Be sure to check the four notes below before you start.**

1. Turn off all electrical items; i.e. ignition switch, headlights, radio, etc.
2. Disconnect both positive and negative cables from your battery.
3. Switch around the wires at the coil.
4. Turn your battery around and attach the positive cable (hot feed to starter switch - insulated black cable) to the positive terminal on the battery
5. Connect the negative cable (typically bare ground strap, attached to the body ground bolt) to the negative terminal on the battery. This makes the battery negative ground.
6. Use a 12 volt insulated wire long enough to run from the hot terminal of the starter switch (battery cable side) to the F terminal on the voltage regulator.
7. Have someone hold one end of the wire from number six above (strip short section of insulation off each end the wire) and strike it against the F terminal on the voltage regulator until you see a few sparks.
6. Now your car will be negative ground and can use modern accessories like a CD player and also use your cigar lighter for a cell phone charger, spot light, etc.
7. Check all your fuses to make sure none were blown out and if you have gauges (aftermarket only - not original gas gauge) you will have to reverse the wires or they will read backwards.

#### **Please note the following:**

1. If you radio has the original mechanical radio vibrator it can be reused after this procedure.
2. If you are switching to the current replacement solid state radio vibrators you must use a negative ground vibrator after completing the above procedure.
3. Please feel free to call or email if you have any questions.
4. **Complete this procedure at your own risk!** Metropolitan Restoration Service, Inc. will not be responsible for any incidental or consequential damages. Consult a local mechanic competent in electrical repairs, if you are not sure of what to do or are concerned about possible damage to your electrical system.

***Dedicated to the restoration and preservation of the Metropolitan automobile***