

THE USE OF CIGARETTE LIGHTER RECEPTACLES AS A VOLTAGE SOURCE FOR ELECTRONIC INTELLIGENCE EQUIPMENT

When operating electronic intelligence equipment from a vehicular power source through the cigarette lighter, many operating problems can be traced to an inefficient lighter receptacle. In some cases, this is due to tobacco residue, corrosion or poor contact in the receptacle. In other cases, the cigarette lighter receptacle may contain a built in resister that limits the available current, lowers the voltage or limits the current capacity, which may occur in newer model vehicles.

AID equipment designed for operation with 12-15 VDC power sources may not function optimally at reduced voltages. When the equipment is operated at a reduced voltage or current, reduced performance occurs causing poor signal reception, the received or transmitted signal may "break up," causing poor intelligibility, etc. Reception may also be adversely affected by vehicular ignition "noise." In addition, receiver sensitivity, distortion, etc. may be adversely affected under such conditions.

If the cigarette lighter receptacle is to be used as the voltage source, consider the following suggestions:

- *BE SURE THE RECEPTACLE IS CLEAN AND FREE OF TOBACCO RESIDUE**
- *BE SURE THE RECEPTACLE PROVIDES A 12 VDC OUTPUT, WITH THE EQUIPMENT CONNECTED AND OPERATING**
- *BE SURE THE POWER CABLE CONNECTION AT THE RECEPTACLE IS SECURE AND IS MAKING PROPER CONTACT**

The correct voltage source for electronic intelligence equipment is very important to obtain optimum results. Please follow the above suggestions to ensure your *AID* equipment functions properly.

If you are uncertain whether a particular vehicle has voltage or current limitations, we recommend reviewing the owner's manual to the vehicle or contacting the dealer.

If you have any questions about the use or maintenance of *AID* equipment, please contact our Customer Service Department at (954)-418-1433 or FAX (954)-418-1431 for assistance.

****CAUTION: CURRENT LIMITING IN CIGARETTE RECEPTACLES MAY CAUSE ERONEOUS VOLTAGE OPERATING INDICATIONS**



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