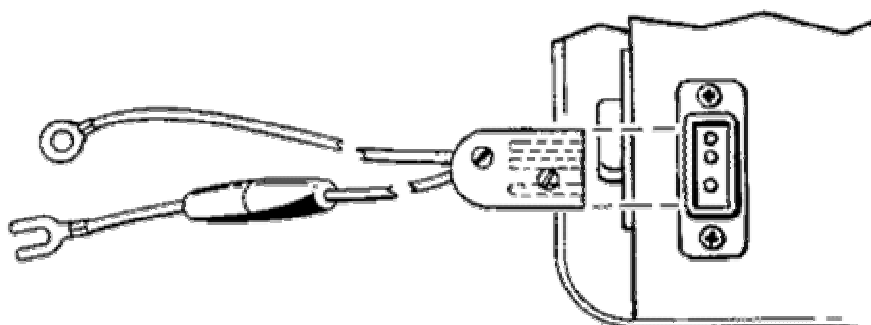


ATTACHING POWER CORD

The plug at the end of the DC power cord is attached to the power socket at the rear of the unit. Notice that the pins are unequally spaced, allowing the plug to be inserted only in one direction (See Fig. 5).

FIGURE 5.



AUTO IGNITION INTERFERENCE

The series gate ANL (Automatic Noise Limiter) circuit incorporated in the HA-750 should eliminate all or most of the ignition interference. However, an excess amount of noise may be generated by some vehicles making it necessary to take additional steps toward the suppression of these ignition noises.

Electrical or ignition noise interference can arise from several different sources. The interference may be experienced from ignition noise, generator or alternator noise, voltage regulator hash, or tire static. Because of the complexity of the subject, it is not within the scope of this manual to attempt to cover all the problems involved. However, some general information is given. Additional information on automobile ignition interference may be found in the ARRL Radio Amateurs Handbook or in various publications on the subject.

Ignition noises may be suppressed by the use of resistor type spark plugs and/or a suppressor resistor inserted in the center tower of the distributor. A coaxial capacitor should also be connected to the ignition coil primary as close to the coil terminal as possible.

Alternators do not usually cause the noise problem that generators will. However, defective diodes or dirty slip rings in the alternator may cause some electrical noise. Alternator noise may be eliminated or reduced by adding a .5 mfd, 40-ampere, 50 volt coaxial capacitor to the "battery" terminal of the alternator. Adding a 5-ohm resistor in series with a .002 mfd capacitor at the "field" terminal of the voltage regulator to ground may also aid in the reduction of noise.

Generator noise may be noticed by a distinctive "whine" produced in the receiver. One method of eliminating this "whine" is to install a .1 to .5 mfd, 40-ampere, 50 volt coaxial capacitor to the "armature" terminal of the generator. The armature terminal may already have a conventional factory-installed capacitor at this point. Remove this capacitor and install the new coaxial-type capacitor.

In either case, alternator or generator, it is important that the housing make good ground to the engine block. To insure good ground between the alternator (or generator) and the engine block, a heavy braided strap should be used as an added electrical connection between them.

Several noise suppressor kits are available (such as a Lafayette HP-204, Stock No. 42-140) which include all necessary parts and instructions for elimination of these noises. Individual components (such as coaxial capacitors, alternator and generator filters, etc.) are also available from Lafayette Radio Electronics.