

II POWER SUPPLIES

GENERAL

Recommended power supplies for the Swan 350 are the Model 117C ac supply, and the Model 412 dc power supply. Model 117AC power supplies may be used, providing the modifications shown in Part I, on Page 9, are made. Model 117C power supplies are provided with a power cable with Jones plug attached for plugging into the transceiver. Model 412 power supplies are manufactured with a pre-wired cable to which must be connected a Jones plug after installation of the cable through the firewall of the automobile.

MODEL 117C POWER SUPPLY

Model 117C power supply is an all solid state bridge-type power supply, with the medium voltage supply provided through the center tap of the high-voltage transformer. All components of the unit are capable of handling maximum power requirements of the transceiver under all normal operating conditions. All switching for the power supply is performed in the transceiver. See Figure 6, Schematic Diagram

MODEL 412 DC POWER SUPPLY

The Model 412 power supply is a transistorized dc-to-dc converter designed for use in systems with negative grounds only. It supplies all power requirements for mobile operation of the transceiver. The Model 412 employs an entirely new design concept to provide the highest efficiency possible in mobile use. See Figure 7 for a schematic diagram of the unit.

INSTALLATION

The Model 412 may be mounted in any convenient location within the automobile. The engine compartment, near the battery, is an excellent location, since lead length will be minimized. Make all of the connections shown in Figures 8 and 9. Hardware is provided for complete installation of the supply. The power supply should be mounted with star washers on all mounting bolts to break through the anodized finish to provide a good ground. The charging rate of the generator or alternator should not exceed 13.5 to 14.0 volts.

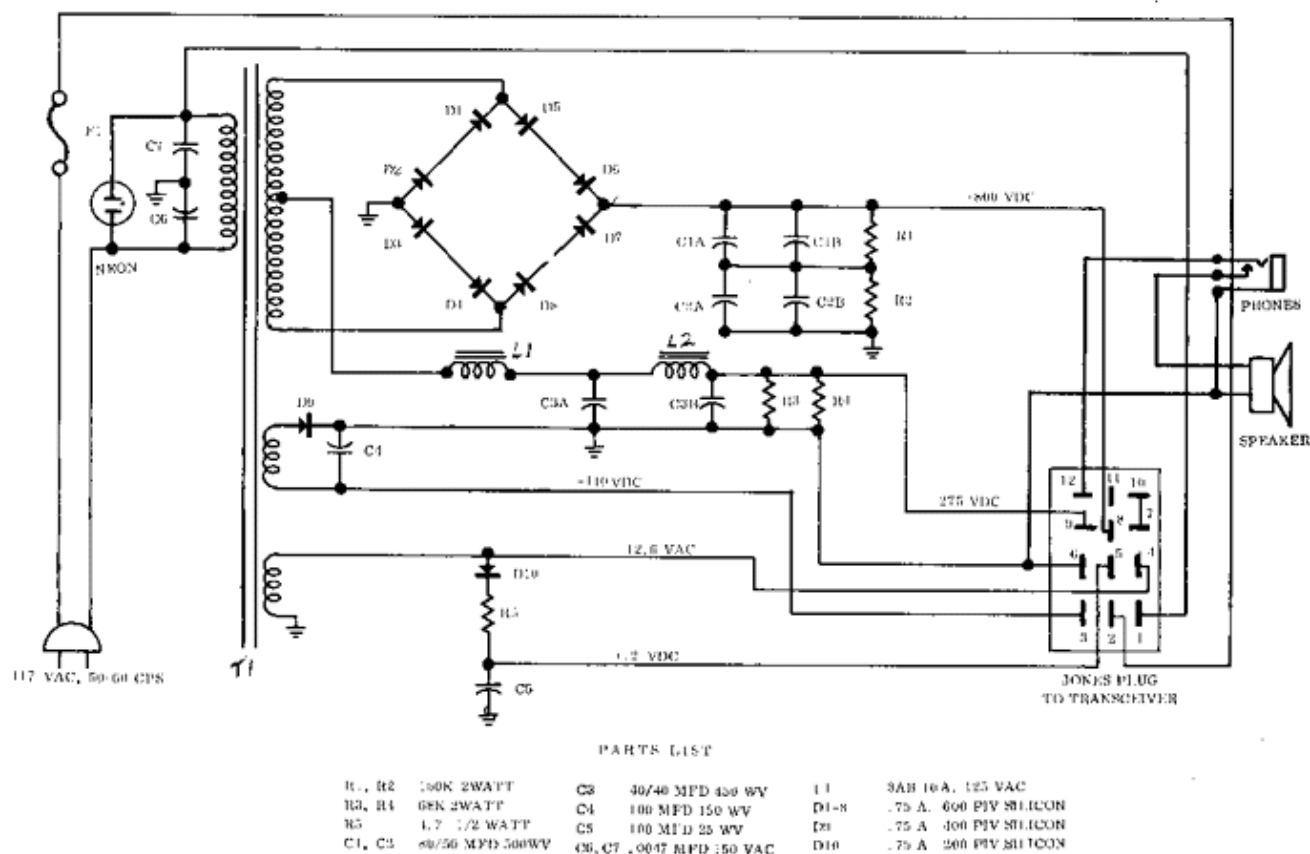


FIGURE 6 SCHEMATIC DIAGRAM, MODEL 117C POWER SUPPLY