GENERAL

Recommended power supplies for the Swan 400 are the Model 117B ac supply, and the Model 512 de power supply. Model 117AC power supplies may be used, providing the modifications shown in Part I, on Page 8, are made. Model 117B power supplies are provided with a power cable with Jones plug attached for plugging into the transciever. Model 512 power supplies are manufactured with a pre-wired cable to which must be connected a Jones plug after installatiof the cable through the firewall of the automobile.

MODEL 117B POWER SUPPLY

Model 117B 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 8, Schematic Diagram

MODEL 512 DC POWER SUPPLY

The Model 512 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 512 employs an entirely new design concept to provide the highest efficiency possible in mobile use. See Figure 9 for a schematic diagram of the unit.

INSTALLATION

The Model 512 may be mounted in any conventent 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 10 and 11. 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.

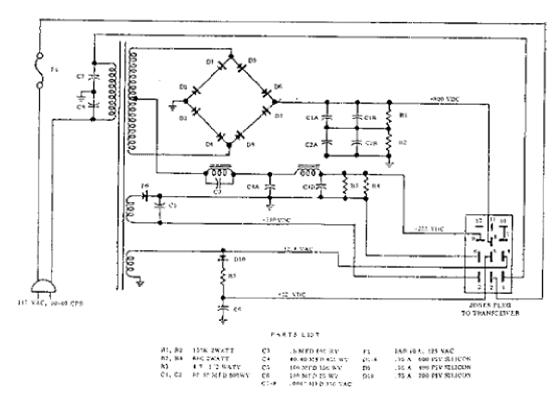


FIGURE 8 SCHEMATIC DIAGRAM, MODEL 117B AC POWER SUPPLY