

VOX

To use the voice controlled relay, place the FUNCTION switch in the VOX position. Adjust the VOX SENS control for the microphone sensitivity desired to turn on the transmitter. The VOX DELAY control should be adjusted for the hold-in time desired after the operator stops talking. Maximum counterclockwise setting of the control will keep the transmitter ON all the time.

ANTENNA

The antenna must have a low SWR (standing wave ratio), since the output of the Transceiver has fixed loading and a limited tuning range. The antenna tuning should be checked with a reflected power meter or SWR bridge to make sure it has an SWR of 1.5 to 1, or less. Operation with a high SWR will result in overloading the output tubes. When using an SWR bridge, a carrier may be obtained for tuning the antenna by switching the FUNCTION switch to the TUNE position. Do not overload the SWR bridge when transmitting SSB, since the peak output power is much higher than the output power in the TUNE position.

The antenna must be matched to, and fed with, 50 Ω coaxial cable for best results; the transmitter is not designed to load into random lengths of wire or open-wire transmission lines.

Special care must be taken with mobile installations, since short loaded and center loaded antennas are very critical to tune. An operating frequency change of 40 or 50 kHz will often change the antenna tuning considerably. Better antennas, with loading coils, have higher "Q" and sharper tuning. Follow the antenna manufacturer's instructions carefully to obtain proper adjustment.

CRYSTAL CALIBRATION

The Heathkit plug-in Crystal Calibrator will provide convenient, accurate signals at 100 kHz intervals for receiver dial checking. The Crystal Calibrator can be plugged into the calibrator socket of the Transceiver. It is turned on by placing the FUNCTION switch in the CAL position. Do not transmit when in the CAL position because of possible interference.