

INSTALLATION (cont.)

MOBILE OPERATION:

The mobile mounting brackets are attached to the sides of the Olson "6" cabinet. The 12 volt D. C. power cord is attached to the power connector at the rear of the set. The transmitter and receiver should now be installed in a convenient location within the vehicle to provide maximum accessibility for ease of operation. Attach antenna transmission line to the back of the RA570 and connect power line clips to the 12 volt power source. Plug microphone into the front panel jack and rotate the volume control to the "On" position. The Olson "6" is now ready for mobile operation.

RECEIVER ADJUSTMENT & OPERATION:

Set the controls on the front panel as follows:

Volume:	Maximum clockwise
Spot Switch:	Off
Squelch:	Maximum counter-clockwise
BFO:	For AM-"Off": For SB or CW-"On"

The receiver is now in the operating mode. Approximately one minute after warmup an audible hiss will be evident from the speaker. Now adjust the volume control to a comfortable listening level and tune the dial slowly from 50 mc toward 52mc. The reception of amateur stations will decrease the background noise; proper tuning will be indicated by maximum deflection of the "S" meter pointer. The signal strength of the station may be read in "S" units on the calibrated scale of the meter. For receiving code or CW signals, as well as double side band or single side band signals, the BFO is turned on, and the BFO tune control is rotated slowly for best reception. When a station is properly tuned in and it is desired to monitor this station's transmissions for a period of time, the background noise may be reduced by use of the squelch control set properly during a stand-by period of the transmitting station as follows: Turn the squelch control in a clockwise direction until the background noise is no longer audible. When a station resumes transmission the signal will override the setting of the squelch control and reception will be normal, except for the background noise which will be inaudible. The setting of the squelch control will vary with the intensity of the stations received. Readjustment of the squelch control is necessary for each station of different signal levels.

TRANSMITTER ADJUSTMENT & OPERATION:

Select a six meter VFO, or suitable crystals with frequencies in the range of 8.33 to 8.6mc, or 25.05 to 26.0mc. The transmitter output frequency will be six times the fundamental for 8mc crystals, and two times the fundamental for 25mc crystals. Set the transmitter controls on the front panel as follows: