# FREQUENCY ADJUSTMENT

Adjustment of the Crystal Calibrator must be made with an outside source, such as an external receiver that will tune to WWV. Remove transceiver cabinet and bottom, Locate the R.F. Amplifier tube socket, V6. Wrup one end of an insulated wire lead loosely around Pin I. Connect the other end to the antenna terminal of the external receiver. Tune external receiver to zero beat WWV. Now turn on calibrator in 700CX (either 100 or 25 kc position) and by listening to it on the external receiver, adjust trimmer capacitor C1603 (located on top of chassis next to 100 kc crystal) to zero beat with WWV.

# 25 KC MULTIVIBRATOR ADJUSTMENT

The calibrator circuit board, located underneath the chassis has a trimmer type potentiometer which is used to adjust the multivibrator circuit so it divides the 100 kc calibrator output by a factor of 4, thus providing calibration markers every 25 kc. If markers are received every 20 kc, or every 33-1/3 kc, adjustment is required. Use a small screwdriver, and carefully turn the control to the location where calibration markers are properly received. An oscilloscope may also be used as an aid, if available,

### S-METER ADJUSTMENT

With antenna disconnected and with RF Gain fully

clockwise, set R906, located on rear panel, for zero meter reading. Make sure no local signals are being received.

#### CARRIER BALANCE

for carrier null Finally, adjust trimmer, the Quadrature control, balance carrier with CAR, BAL, panel control, normal manner. Then switch to TRANS, mode, and the coax, line. First tune for maximum output in a sensitive VTVM across the dummy load, or across require adjustment, but is recommended particuscrewdriver adjust, trimmer type. It will seldom trol is called a "Quadrature control," and is of the modulator tube socket, V 13, the 6JH8. This conanother located under the chassis near the balanced circuits. In addition to the carrier control, there is operation, and as an aid in tuning the transmitter load must be connected to the transceiver. Connect larly when if the 6JH8 tube is replaced. A dummy power control, as well as carrier insertion for AM mits insertion of carrier during CW operation for panel, and is labeled CAR, BAL. This control per-A carrier balance control is provided on the front

## L601 TRAP ADJUSTMENT

Set bandswitch to 14 me range. Feed strong 11.9 me signal from signal generator into antenna jack. Tune around 14,225 until signal is found. Adjust L601 for minimum.