3.108 A three-position CONTROL SWITCH S-102A-S-102B is located at the upper right-hand corner of the MAIN TUNING dial. In the AVC position, the automatic volume control circuits are in operation; in the MVC position, automatic volume control is turned off; in the CWO position, the CW oscillator is turned on and automatic volume control turned off.

3.109 The A.F. GAIN control R-116 is located at the lower right-hand corner of the main dial. It is used to control the audio amplification of the receiver. Audio amplification increases as the control is turned clockwise towards 10 on the scale.

3.110 The C.W. OSC. control C-129, located at the right-hand side of the front panel, is used for varying the frequency of the CW oscillator. The CW oscillator is tuned to the intermediate frequency at 0 on the C.W. OSC. scale.

3.111 At the upper left-hand side of the front panel is located the S-METER switch S-103. This switch must be pushed in when S-meter readings are to be made, as explained in Par. 3.41. At all other times, the S-meter should be disconnected by pulling the switch button out.

3.2 MCW or Phone Reception

3.21 After the Equipment is properly installed, in accordance with Section 2, it is put into operation by turning the POWER SUPPLY switch to the B+ ON position. The LIMITER control should be set at 0; the TONE control set at "N"; the R.F. GAIN control should be advanced to some position between 8 and 10, depending upon receiving conditions; the A.F. GAIN control should be set at the point providing the desired audio volume; the CONTROL SWITCH should be set at the AVC position. The receiver is now adjusted for the reception of MCW signals and will tune to the approximate frequency indicated by the MAIN TUNING dial.

3.22 With the CONTROL SWITCH in the AVC position, the R.F. GAIN control should be advanced as far as receiving conditions permit, or until background noise becomes objectionably loud. Audio output should be adjusted entirely by means of the A.F. GAIN control. The operator must remember that automatic volume control action will be restricted unless the R.F. GAIN control is fully advanced.

3.23 The CONTROL SWITCH may be set at MVC, in which case the operator must be careful not to advance the R.F. GAIN control to a point where I.F. or audio amplifier overload occurs. Such overload is indicated by excessive distortion. In general, it is recommended that the A.F. GAIN control be set about halfway on, i.e., at 5 and audio output adjusted by means of the R.F. GAIN control.