

3.102 The MAIN TUNING dial is located at the center of the front panel of the receiver. The dial scale and pointer arrangement are described in Par. 1.14. The dial drive is so arranged that the frequency to which the receiver tunes increases with clockwise rotation of the tuning knob. The accuracy of calibration can be relied upon to plus or minus 2%.

3.103 The BAND SELECTOR knob is located near the bottom of the front panel at the center. The knob must be rotated approximately one turn to change from one band to an adjacent band. In addition to the radial movement of the dial pointer (see Par. 1.14) a positive detent is provided to insure proper positioning of the coil contact pins in the contact springs.

3.104 The LIMITER control R-144, at the left-hand side of the receiver panel, is used to adjust the DC potential applied to the elements of the limiter tube V-107B. The limiter circuit is thus provided with an adjustable threshold at which limiting action starts. Any audio voltages, or peaks, in excess of this threshold are prevented from reaching the audio amplifier. With the LIMITER control set at 0, the limiter circuits will pass all but the strongest audio peak voltages; when the control is set at 10, the threshold is lowered to a point where the audio signal will be distorted due to suppression of the positive peaks.

3.105 The TONE control R-115, at the lower left-hand corner of the front panel, is used to vary the frequency characteristic of the audio amplifier. When the control is set at the position marked "N", the full audio frequency range of the receiver is available; in the HIGH position, audio frequencies below 100 cycles are attenuated; as the control is turned clockwise towards the LOW position, audio frequencies above 1000 cycles are increasingly attenuated.

3.106 The POWER SUPPLY switch S-101A-S-101B is located at the left of the dial scale. In the counterclockwise position, OFF, the receiver is turned off, the primary circuit being opened by switch S-101A; in the mid-position, B+ OFF, switch S-101A is turned on but the B supply circuits are incomplete since switch S-101B is open; in the clockwise position, B+ ON, switch S-101B is closed, completing the B supply circuit. The B+ OFF position may thus be used for rendering the receiver inoperative, as may be required during periods of transmission, unless the B supply circuits are completed through terminals E-103.

3.107 The R.F. GAIN control R-121 is located below the POWER SUPPLY switch near the MAIN TUNING dial. It controls the amplification of R.F. Amplifier tube V-101 and the two I.F. amplifier tubes V-104 and V-105. Amplification increases as the control is turned clockwise towards 10 on the scale.