

3-5. SPEAKER.

A three-terminal strip, marked "G", "3. 2" and "500", is provided at the rear of the receiver for connecting the external speaker that is required with the receiver. (See Fig. 4.) Any permanent magnet speaker with a 3. 2-ohm voice coil can be used by simply connecting the two leads from the speaker voice coil to the terminals marked "3. 2" and "G". If it is desired to use a speaker with a voice coil impedance other than 3. 2 ohms, a matching transformer should be employed to insure optimum performance. The transformer should be mounted on or near the speaker, and should have a 5-watt power rating, a 500-ohm primary impedance, and a secondary impedance to match the impedance of the speaker voice coil. Connect the primary of the transformer to the terminals marked "500" and "G" and the secondary to the speaker voice coil terminals.

The Hallicrafters R-45B and R-47 speakers are both designed for use with your receiver. Either speaker may be connected to the terminals marked "3. 2" and "G".

3-6. HEADPHONES.

The headphone jack, marked "PHONES", is located on the front panel of the receiver and is so wired that the 3. 2 ohm speaker terminal is automatically silenced when the headphones are inserted. The headphone output impedance is not critical, and any commercial low-impedance headphones ranging from 50 ohms to 5000 ohms will provide satisfactory performance. The 500 ohm speaker tap is connected at all times.

3-7. CONVERTER OPERATION.

Band 1 (Converter) is designed for use with broad band crystal controlled 2 or 5 meter converters having an output frequency from 30. 5 to 34. 5 MC. The SX-101A receiver is used to tune to the desired signal in the 30. 5 to 34. 5 MC converter passband.

SECTION IV

FUNCTION OF OPERATING CONTROLS

4-1. RF GAIN CONTROL.

The RF GAIN control varies the gain of the RF amplifier, 1650 KC IF amplifier, and the 6DC6 50. 75 KC IF amplifier stage. Maximum sensitivity is obtained with the control set at "10" (fully clockwise). In this position, the tubes being controlled are operated at maximum gain with minimum cathode bias. As the control is rotated counterclockwise, the bias on the tubes increases with a resultant decrease in gain.

4-2. BAND SELECTOR CONTROL.

The BAND SELECTOR control operates the band switch to place the proper set of coils and capacitors into the circuit to cover the desired band. The band covered by each position of the BAND SELECTOR control is indicated directly on the control. The first six positions are the Converter, 80, 40, 20, 15 and 10

A separate converter input is supplied so that the regular low frequency antenna may remain connected at all times. Also, filament voltage is applied to the converter whenever the receiver power switch is on, providing instantaneous converter operation.

Generally speaking, receiver operation will be the same as on all other bands; however, with some high gain converters it may be found desirable to reduce the receiver sensitivity by rotating the "RF GAIN" control counterclockwise on very strong signals. See Fig. 5 for typical converter installation and connection.

Converter power is available at the accessory socket (6. 3 VAC at 2 amps maximum). B+ voltage is available through a 2000 ohm current limiting resistor. With the bandswitch in positions other than "CONV" a 100K ohm resistor is connected in series with the converter B+ lead maintaining a small amount of standby plate voltage for the converter tubes. For continuous operation of converters requiring in excess of 30 MA, a separate power supply is recommended. B+ will be approximately 180 volts with a 30 MA load.

3-8. RELAY AND TRANSMITTER SWITCHING.

One half of the dpst RECEIVE-STANDBY switch on the front panel connects to pins 2 and 5 of the ACCESSORY SOCKET at the rear of the receiver, and is available for transmitter switching. (See Fig. 8.) This half of the switch is in the open position when the RECEIVE-STANDBY switch is set at "STANDBY" and closed when set at "RECEIVE".

3-9. REMOTE RECEIVE-STANDBY SWITCH.

The receiver may be disabled from a remote location by connecting a remote spst switch between pins 1 and 4 of the plug located in the ACCESSORY SOCKET at the rear of the receiver. (See Figs. 4 and 8.) To operate the receiver with the remote switch, the RECEIVE-STANDBY switch on the front panel must be left at "STANDBY".

meter bands, respectively. The seventh position tunes in the 10 MC WWV signal, and is indicated on the 10 meter scale with a special marking. This band is available for calibrating the 100 KC crystal calibrator.

4-3. ANTENNA TRIMMER CONTROL.

The ANT. TRIMMER control operates a variable capacitor connected across the secondary of the antenna coil of the band in use. This capacitor adjustment compensates for loading effects of various types of antenna installations. The control is adjusted for maximum signal after the tuning control is adjusted to the desired frequency. Once adjusted, the ANT. TRIMMER control usually requires no further adjustment until the BAND SELECTOR control is operated to select another band.

Sx 101a Operation Manual

Montgomery Ward



Sx 101a Operation Manual:

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