

CONTROL

FUNCTION

SPOT OFF-ON switch

Switches on transmitter oscillator stage during receive function to permit spotting of transmitter frequency on receiver dial. Switch is single-pole double throw, with functions as follows:

SPOT position:

Reduce B+ from power supply applied to VFO tube (V1).

OFF position:

Normal (transmit) B+ from power supply applied to VFO tube (V1) plate and screen through 8.2 K resistor R5 when RECEIVE-TRANSMIT switch in TRANSMIT position. B+ removed from V1 when RECEIVE-TRANSMIT switch in RECEIVE position.

NOTE

The value of R5 is selected to provide identical plate and screen voltages on V1 during receive and transmit condition, as power supply voltage varies from reduced to normal level.

VFO-XTAL switch

Double pole throw switch. Selects type of frequency control used with transmitter, as follows:

VFO position:

Cathode of oscillator tube V1 connected to feedback tap on VFO tuned circuit. Grid of oscillator tube V1 connected to high-impedance end of VFO tuned circuit.

XTAL position:

Cathode of oscillator tube connected to cathode divider capacitor for crystal feedback. Grid of oscillator tube connected to high-impedance side of crystal through isolating capacitor.

SQUELCH control

Potentiometer. Adjusts squelch action by varying conduction threshold of squelch diode V12B.

ANL OF-ON switch

Single-pole double-throw switch, positions as follows:

ON position:

ANL diode (V12A) inserted in series with second detector audio output. Noise peaks bias the diode, halting conduction.

OFF position:

Diode shorted out, audio path uninterrupted.