

TRANSCEIVERS OTHER THAN SWAN

For transceivers other than Swan, refer to the VHF-150 schematic, Figure 5, for the necessary connections to the relay circuit.

CONTROL FUNCTIONS, FRONT PANEL

PLATE

Resonates the amplifier plate circuit (Minimum capacity at 0, Maximum capacity at 10).

LOAD

Adjust loading of amplifier into the antenna (minimum capacity at 0, Maximum capacity at 10).

DRIVE

Adjust drive level into grid circuit of amplifier. Maximum drive at 1, minimum drive at 5. Do not exceed 12 watts at the input connector on rear of amplifier.

GRID

Resonates grid or input tuned circuit of amplifier.

NOTE

WITH POWER SWITCH IN "OFF" POSITION, THE FM-2X OPERATES "BAREFOOT", DIRECTLY THROUGH TO THE ANTENNA.

PWR ON

Turns on power to amplifier.

BYPASS TUNE-CW-FM SSB

BYPASS — No screen voltage applied to 5894B amplifier tube. Antenna relays will not operate. Cutoff bias applied to grids of 5894B. Transceiver operates "BAREFOOT" through the amplifier without having to disconnect the transceiver from the amplifier.

TUNE-CW-FM — Screen voltage and bias applied to 5894B tube. Antenna relays operate normally;

SSB — Applies proper bias to 5894B for linear operation of amplifier.

CATHODE CURRENT — OUTPUT METERING

In CATHODE CURRENT position, (Counterclockwise until switch snaps), meter reads cathode current 0-400 ma. Rotation of switch clockwise places meter in the RELATIVE OUTPUT circuit. The more clockwise the switch is rotated, the greater the reading of the meter.

CONTROL FUNCTIONS, REAR PANEL

POWER CONNECTOR

15 pin power connector. 117 VAC or 230 VAC power cord plugs into connector. For 12-14 volt DC operation, the Swan model 14C DC converter attaches to the connector.

RELAY CONTROL

Phono jack — Relay control cable from transceiver or exciter plugs into jack.

INPUT

Coaxial connector, output from transceiver or exciter plugs into this connector.

P.A. BIAS

Sets idling current for 5894B amplifier tube. (60 ma.)

OUTPUT

Coaxial connector, output from amplifier into antenna.

GND

Connection for grounding chassis of VHF-150.

OPERATION

Before connecting any cables to the Swan VHF-150, perform the following steps:

- ① **IMPORTANT:** Locate the 5894B amplifier tube compartment and remove the packing material from the tube.
- ② Turn PWR ON switch located on front panel to "OFF" (Down) position.
- ③ Rotate BYPASS TUNE-CW-FM SSB function switch to the BYPASS position.

- ④ Rotate OUTPUT METERING switch to CATHODE CURRENT position (Full counterclockwise position until switch snaps).
- ⑤ Connect wire from earth ground to ground stud provided on rear of chassis.
- ⑥ Connect the 117 VAC or 230 VAC power supply cable to the 15 pin connector on rear of chassis. If amplifier is to be used mobile, connect the Swan model 14C DC converter to the 15 pin connector.