



5. a. Remove the (7) 7-pin tubes from the receiver. Place the color dots near the tube markings on the chassis:

Color	Tubester Type	Will Replace	At	Color	Tubester Type	Will Replace	At
Red	ST101A	(6BF5)	V8	Black	ST105	(6AT6)	V7
Gold	ST102	(6AU6)	V301	Y'low	ST106A	(6BA6)	V4
Green	ST103	(6DC6)	V9	Pink	ST107	(6BA6)	V5
				Blue	ST108	(6DC6)	V1

- b. STA-3 Clip-on Capacitor: (Note: The receiver must be removed from its cabinet to add this capacitor from the AGC line to chassis ground. It greatly improves the AGC "hang" for SSB and CW listening. However, it is not essential to operation of the receiver with the Tubesters, so its installation may be omitted or postponed).

On a 3-lug terminal strip beneath the chassis near the right front corner, the lug nearest the Phones jack is a point on the "AGC line". Attach the capacitor clip with the plastic boot to this lug; the bare clip to the center lug of the three, or to the center terminal of the nearby small potentiometer, either of which is chassis ground. Re-encase the receiver.

- c. STA-5 Mute Jack Adaptor: Install the Adaptor in the Mute jack at the rear of the receiver, and insert the Mute control cable in the Adaptor. If the cable is not terminated in a transmitter Receiver Mute jack, short the termination.

6. RF Gain Adjust (R57) initial setting: Measure the resistance from Pin 7 of V4 to chassis ground. You may wish to record this reading if it represents the optimum setting of R57 with tubes installed. Then adjust R57 for a resistance at Pin 7 of 350 ohms.
7. a. Install the ST101A at V8: Temporarily insert the cased portion in the tube socket, and dress the cable so that the power transistor base plate lies flat on the chassis in front of V8 and the fuse, noting the position that makes the neatest installation. Remove the Tubester, peel off the paper from the double-stick tape, and press the power transistor assembly to the chassis "first", then re-insert the cased portion in the V8 socket.
- b. Install the other (6) Tubesters.

FUSING NOTE: Equipment is best protected when fused with the lightest fuse that will hold in normal operation. Either a 1 Ampere wire fuse or a $\frac{1}{2}$ Ampere Slo-Blo fuse will hold with the Tubesters installed. You may wish to check your fuse now, and change to one of the lighter fuses at your earliest convenience. We prefer the $\frac{1}{2}$ Ampere Slo-Blo, but the use of Slo-Blo fuses is controversial.

8. Turn the power switch to STANDBY. The receiver should respond instantly.
9. De-tune the Preselector or otherwise eliminate incoming signal, then zero the S-Meter with "S Meter Zero" R13. Assure that RF Gain Control is at maximum for this adjustment. Re-tune the Preselector.