



### Functions of the Accessories

The Clip-on Capacitor is .33 $\mu$ f Tantalum, 35 volt. Placing it across the AGC line to ground makes the "hang" characteristic optimum for SSB and CW. It compensates for a time-constant reduction caused by the RF and IF Tubesters' inputs loading the line.

The Mute Jack Adaptor consists of a 390 ohm resistor in the STA-4, a 1N4148 diode in the STA-5, between an RCA plug and jack. With the panel switch in STANDBY, RF Gain control at maximum, and the receiver enabled remotely (by the transmitter relay in the usual installation) the Adaptor impedance between the Mute line and ground establishes the normal AGC threshold with the Tubesters installed.

(The "threshold" is the no-signal voltage on the AGC line, normally about -0.8V, furnished through a high resistance from the RF Gain control wiper. The RF and IF Tubesters can not have as high DC input impedance as do the grids of pentode tubes, and they pull the threshold down to near 0V with the Mute line grounded). Turning the panel switch to OPERATE grounds the Mute line ahead of the Adaptor, and under no-signal conditions the AGC line at near 0V is evidenced by the S-Meter reading below "0" and front-end noise increasing. Backing off the RF Gain panel control to bring the S-Meter up to "0" will set the same AGC threshold in OPERATE that is established by the Adapter in STANDBY with RF Gain at maximum.

### S-Meter Operation

With the RF and IF Tubesters installed and the S-Meter zeroed per the instructions (no incoming signal, Mute Jack Adapter installed, Function switch in STANDBY), the S-Meter will give readings from 0 to about 85 DB corresponding to AGC voltages on the same curve as that with the vacuum tubes installed. Toward the high end of the meter scale the ST107 Tubester current is so low that increasing AGC has little effect on the reading.

### WARRANTY

Tubesters are guaranteed to be free from defects and to operate properly upon delivery; any defective units will be replaced promptly at no cost, postage paid within the USA. In addition, the Tubesters are warranted for an extensive service period, as follows:

Within one year after delivery, any Tubester that fails under normal operating conditions will be repaired or replaced at no charge except for a \$2 handling and postage fee.

Beyond the one-year full coverage period, any Tubester that fails under normal operating conditions will be repaired or replaced for 50% of its list price plus \$2 mailing. This extended warranty will remain in effect for so long as the Tubester market makes possible continued manufacture and sale of these products by Skytec.

**THIS WARRANTY IS MADE BY SKYTEC TO THE ORIGINAL TUBESTER PURCHASER; IT IS NOT TRANSFERABLE.**

End of Manual

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