



TUBESTERS

Solid State Tubes for
Collins Radio Receivers
75S-1 and 75S-3/3A/3B/3C
Effective Nov. 1, 1978

Service Bulletin No. 1: New Tubester type ST101A

Effective Nov. 1, 1978 Tubester Sets 7A8 and 7A7 include a new Tubester type ST101A, Audio Output, V8 in the 75S-1 or V10 in the 75S-3, replacing the ST101. This Bulletin makes the new audio Tubester available to previous Set purchasers on either a straight purchase or an exchange-purchase basis.

The ST101A is capable of about 67% more audio power output in the receivers than the ST101. This improvement is significant for operation in other than quiet ambient environments. As the two types have the same gain and frequency response, the ST101A offers no advantage over the ST101 for low level loudspeaker or earphone operation.

Total power input to the ST101A is 5 watts. The $\frac{1}{2}$ Ampere slo-blo fuse recommended for Tubester-equipped receivers using the ST101 is adequate also with the ST101A. (The power input to the ST101 is 3 watts. The 6BF5 tube draws about 19 watts, including 7.5 watts filament).

Description: The circuit uses two TIS131 (or NDS131) high voltage power transistors selected for like beta characteristics operating Class A in parallel, direct driven by an A5T 5058 high voltage emitter follower. An effective 1180 ohms of emitter resistance seen by each power transistor includes a 180 ohm individual un-bypassed portion, providing inverse feedback and a high degree of DC stability. The power transistors are operated well within their voltage/current safe-operating range, and four Thermaloy 6053B heat sinks provide adequate cooling.

The 131 transistors and their heat sinks are mounted on a $15/16$ " by $1\ 7/8$ " fiberglass base. Peel-off double-sided tape on the base provides easy and positive mounting of the assembly to the receiver chassis. A 3" cable connects the remote assembly to the rest of the circuit, which is mounted in the usual Tubester "plug-in" case.

Price and Availability: The unit price of the ST101A is \$15. Please add \$1.50 to the prices total on your order to cover our packing and air shipment costs. Delivery will normally be made 7 to 10 days after receipt of order.

Exchange for the ST101: For those not wishing to keep their ST101 as a spare, we will accept it for \$5. credit toward purchase of the ST101A. The net exchange price including shipment is \$11.50 outside California, \$12.10 including California sales tax. It is not necessary to return the ST101 being exchanged until you have received the ST101A ordered; the ST101A carton will simplify your return of the old unit.

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