



# Engineering Bulletin

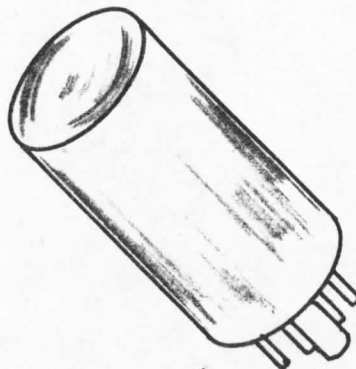
## SOLID STATE REPLACEMENT (5R4) TUBE RECTIFIER

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**KIT459**

The Technical Materiel Corporation offers a solid state replacement kit (KIT 459) for its AN/FRT-39 and the AN/FRT-93 transmitters. Kit 459 is designed to replace the 5R4 (electron tube, duo-diode octal rectifier) used in the RF amplifier power supply assembly.

### POINTS OF INTEREST FOR KIT 459 ARE AS FOLLOWS:

- 1) Replaces 5R4 tube with a solid state device.
- 2) Assures that proper voltages are present at the First and Second amplifiers of the Intermediate Power Amplifier, thus assuring that the transmitters drive levels remain consistent and are not subjected to changes that occur with rectifier tube ageing.
- 3) Increases the overall gains of the First and Second Intermediate Power Amplifier stages. This is accomplished by increasing the voltage by approximately 5%, thus allowing for lower exciter drive requirements and overall improved I.M.D. readings. This will be especially useful when used in conjunction with the T827H exciters.



## THE TECHNICAL MATERIEL CORPORATION

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