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Subject.: Power transistors in the power supply unit in T122
(SP5408MU or 2N5437MD).

We have ascertained that in some transmitters these transistors blow off.

After having closely studied the problem we have found out that the reason for this transistor defect is to be found in the fact that often, that the zenerdiode D1002 (7,5V, 2W) is periodically interrupted.

As this transistor is part of the control system for the current grid voltage for the PA tubes, this diode defect will cause the current grid voltage to increase heavily (from normally 250V to 350-400V).

This will result in an increase of the cathode current in the PA tubes (3 x 7L 1071) with ensuing overload of the Power transistors.

The mentioned zener-diode must, in order to avoid this source of defect, always be changed out in connection with the changing out of the Power transistors.

As the zener-diode has influence on the DC voltage on the PA tubes certain adjustments must be performed in connection with the mentioned changing of Power transistors etc.

For changing and adjustment follow this procedure:

1. Change transistors.
2. Change zener-diode D1002 (7,5V - 2W) in Power unit II.



Please file this information in the service-portfolio we have sent you.

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3. Re-adjust V_{g_2} voltage to 250 V by means of the potentiometer P601 in Power unit II, when the channel switch is in a position with no crystal mounted, and the function switch is in position TUNE.
4. Control IK_1 , IK_2 and IK_3 . (See section E. Aerial Meter).
These must be 50mA on the same operation conditions as mentioned in (3), and are possibly adjusted by means of the potentiometers P601, P602 and P603. (Accessible at the back of the transmitter below the PA tubes). (Fig. PA section in the instruction manual).

P.S.

If the zener-diode D1002 is of type 2EZ7,5D5, then it must under any circumstances be changed, when a transmitter is the subject of service operations.

The zener-diode can be delivered by us.

If there are any problems, please contact us immediately, and try to give us as ample information as possible.



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