



**SERVICE BULLETIN**  
**MAINTENANCE AND MODIFICATION DATA**  
**BROADCAST DIVISION**

**BULLETIN NO:** AM-504-TLH

**DATE:** December 1998

**EQUIPMENT:** MW-1/1A transmitters

**SUBJECT:** PA Transistor Type

The purpose of this bulletin is to advise you of a change in the RF transistor type used in the Q6 and Q7 positions of the MW-1/1A PA modules.

For the past 20 years, we used the Motorola SJ3125 transistor in the Q6 and Q7 positions. These were under part number 3800513000.

The SJ3125 was a part selected by Motorola for Harris, with the 2N5038 being the generic part from which it was selected.

Motorola recently discontinued this selection process, and so we can now only obtain the non-selected type; in other words the 2N5038. These are supplied under part number 3800790000, and as you would expect are less expensive than the former selected part.

Without the selection process, any given pair of 2N5038 transistors may not be as well matched as a given pair of SJ3125 transistors. Consequently, one can anticipate increased difficulty getting uniform duty cycle output from the modules. For this reason, we recommend that you purchase extra transistors when needed, and use only the Motorola brand if you buy them from another supplier in the future.

Should you have any questions regarding this information, please direct your inquiries to:

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