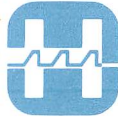


HARRISCOMMUNICATIONS AND
INFORMATION HANDLING

SERVICE BULLETIN

MAINTENANCE AND MODIFICATION DATA

Broadcast Products Division

Equipment: MW-5/5A

Bulletin No. AM-133-TLH

Date September, 1979

SUBJECT: 1A3R1 and 1A3R2 in the PA grid current

We have learned from experience that under certain conditions 1A3R1 and 1A3R2 can be over dissipated. A failure of one of these resistors is characterized by an abrupt decrease in PA grid current.

Under the authority of Engineering Change Notice 23869, resistors 1A3R1 and 1A3R2 have been replaced with a parallel combination of three 10K ohm, 100 watt resistors. With this change, the dissipation in these resistors will be equal and well within the resistor ratings in all altitudes and temperature environments within the transmitter's specifications.

Your transmitter, if an MW-5A, may already include this change.

We recommend you make this change, especially if the PA grid current on your transmitter exceeds 240 ma.

PARTS REQUIRED: Current Resistor Mod Kit (994-8449-001) which includes the following:

<u>QTY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
3	542-0303-000	10K ohm, 100 watt resistors
2	813-5614-027	10-32 x 3.0" studs
10	306-0005-000	8-32 Hex nuts
2	813-5605-026	8-32 x 2.75" studs
4	306-0006-000	10-32 Hex nuts
4	314-0007-000	#10 split washers
1	354-0010-000	#8 ring lug

Please contact the Service Parts department for price and availability of the modification kit, 994-8449-001.

TOOLS REQUIRED:

3/8" open end wrench
 11/32" open end wrench
 phillips screwdriver
 wire cutters
 crimping tool

PROCEDURE:

- 1) Remove original 1A3R1 and 1A3R2.
- 2) Stack on top of each other the replacement resistors 1A3R1, R2, and R3 (10K 100W) as shown in the drawing using the 10-32 hardware listed and the resistor brackets.
- 3) Using the 8-32 hardware, connect the resistors together as shown. Note that the screws will run vertically through the eyelets.
- 4) Reconnect the wiring as before this change.
- 5) Operate the transmitter as before; no retuning is necessary. A negligible loss of PA grid current may be noted.
- 6) Make the appropriate changes to the schematic and parts list.

