

HARRISCOMMUNICATIONS AND
INFORMATION HANDLING

SERVICE BULLETIN

MAINTENANCE AND MODIFICATION DATA

Broadcast Products Division

Equipment: MW-5**Bulletin No.** AM-135-TLH**Date** September, 1979**SUBJECT:** Step start resistors 1A4 R6, R7 and R8.

In the MW-5, 1A4 R6, R7 and R8 were 25 watts each. In the MW-5A, these were changed to 155 watts to prolong their life in the event of a short in the high voltage circuitry during the step start sequence. In addition to this change, a circuit was added on 1A4A1 to sense an excessive step start current condition. These improvements give the MW-5A the feature of automatically turning the high voltage off during the step start sequence if there is a high voltage short, thereby preventing an unnecessary failure of step start resistors, rectifiers, etc.

This bulletin will tell you what is necessary to change 1A4 R6, R7 and R8 if you decide to incorporate this feature into your transmitter. Detailed information regarding changing relay board 1A4A1 is contained in service bulletin AM-117-MJB (Dated 1-18-78).

IMPORTANT: Do not install these 155 watt resistors without first having the over-current sensing circuit on 1A4A1 (The new board, part number 992-4961-001, for 1A4A1 has 4 relays whereas the previous board has only 3.)

PARTS REQUIRED: Step Start Resistor Mod Kit for MW-5 (994-8450-001) which includes the following:

<u>QTY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
3	542-1010-000	5.5 ohm 155 watt resistors
6	410-0010-000	Ceramic insulators
12	335-0007-000	Nylon washers
6	358-0004-000	Brackets
8	302-0130-000	8-32 x 3/8 screws
8	310-0006-000	#8 flat washers
8	314-0006-000	#8 split washers
2	356-0106-000	Nylon cable clamps
6	813-5605-003	8-32 x 1/2 studs

Please contact the Service Parts department for price and availability of the modification kit, 994-8450-001.

TOOLS REQUIRED:

Drill, 1/4 or 3/8" chuck
#29 drill bit (.136" dia.)
#8-32 tap

tap handle
phillips screwdriver
5/16 open end wrench

MODIFICATION PROCEDURE:

- 1) Disconnect all primary power from the transmitter.
- 2) Remove 25 watt resistors 1A4 R6, R7, R8 and their standoff insulators.
- 3) Remove the "spares"
- 4) Remove the mounting hardware from K4 and move K4 to the former location of the "spares". Leave all wires connected to K4.
- 5) Drill and tap holes for K4 and install it in its new position using the mounting hardware removed in Step 4. Do not drill through the front panel.
- 6) Use the cable clamps to hold the wiring clear of the area where K4 was originally mounted. Drill and tap holes and use 8-32 x 3/8 screws to install the cable clamps.
- 7) Drill and tap mounting holes for the new resistors at the former location of K4 (below K3). Install the resistors using the ceramic insulators, nylon washers, brackets and #8 hardware.
- 8) Reconnect the wiring to 1A4 R6, R7 and R8. It will be necessary to cut some of the wires loose from the wiring harness.

This completes this modification.



This template is included to provide proper placement of the mounting holes for the new resistors. Place the lower left hand corner of the template in the lower left hand corner of the AC Power Panel sub-assembly chassis.

