

HARRISCOMMUNICATIONS AND
INFORMATION HANDLING

SERVICE BULLETIN

MAINTENANCE AND MODIFICATION DATA

Broadcast Products Division

Equipment: MW-5 AM Transmitter

Bulletin No. AM-085-JFR
Date 7/8/75

PLEASE MAKE THE FOLLOWING CHANGES IMMEDIATELY

1. Replace R-12 on the P.D.M. board, 1A1A1, with a 3300uh RF choke, Harris Part Number 494-0190-000. Bypass input terminal #1 on the same board with a .01 mfd. capacitor, Harris Part Number 516-0081-000. This capacitor should be mounted beneath the board with leads kept as short as possible.
2. On the P.D.M. overload and feedback board, 1A1A2, bypass R-13 with a .001 mfd. capacitor, Harris Part Number 516-0054-000. This capacitor should be mounted beneath the board with leads kept as short as possible. Unsolder the "+" terminal of C-3 from its junction with R-13. Use a jeweler's drill, size #57, and drill two holes 1-inch to the right of the R-13/C-3 junction. One lead of a 3300 uh RF choke, Harris Part Number 494-0190-000, should connect to the R-13 junction and the other to C-3's "+" terminal through the two new holes.
3. Modulate the transmitter 95% with 1kHz. Measure distortion, shut the transmitter OFF. Unsolder one lead of R-27 or R-26 on the P.D.M. board, 1A1A1. Reinstall the transmitter; measure distortion. If distortion is significantly lower, replace R-26 and R-27 with 1200 ohm, 2 watt resistors, Harris Part Number 540-0613-000.
4. A perforated metal cover should be mounted over the P.D.M. board, 1A1A1, with the six mounting studs retaining the board. This cover bears Harris Part Number 843-0786-001 and prevents RF from entering the P.D.M. circuitry. Six spacers, Harris Part Number 813-4999-041, are also required. These parts may be obtained at no-charge for your transmitter(s) by contacting Radio Field Service. Owners of Dual P.D.M. transmitters should contact Field Service for a special cover and mounting hardware.
5. The carbon blocks at 1E8 are available individually under Harris Part Number 398-0301-000 and 402-0041-000. The blocks should be inspected at quarterly intervals and should be cleaned by removing the blocks and polishing on a rough cloth. Burned blocks should be replaced.

Page 2
Service Bulletin AM-085-JFR
MW-5 AM TRANSMITTER

6. On Page 7-1 in the instruction book, change the motor description and number to read:

Motor, 208/230 Volts Harris Part Number 436-0197-000

On Page 7-15, change CB-1 thru CB-3 to read:

CB-1 thru CB-3 Circuit Breaker, 15 amp 606-0521-000

The MW-5 should be equipped with 15 amp breakers (in lieu of the original 10 amp units) and a new 208/230 volt blower motor if 208 volt operation is planned. "No-Charge" replacements may be obtained by contacting Radio Field Service.

7. On Page 7-16, TD-1 should be listed as:

TD-1 Delay Relay 26N05T Harris Part Number 576-0121-000

8. On Page 7-6, C-7 and C-8 should be listed as:

C-7, C-8 Capacitor, Harris Part Number 508-0424-000
.15 mfd/ 50 Volt

9. All owners should insure that previous MW-5 Service Bulletins AM-077-JFR and AM-080-JFR are in their transmitter files. They are available without charge upon request.

Fred

JFR:dg
7-09-75