



SERVICE BULLETIN

MAINTENANCE AND MODIFICATION DATA

Broadcast Group

Equipment: MW-5, 5A and 5B

Bulletin No. AM-176-TLH

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We have become aware of a number of installations with oversized AC power fuse protection to the transmitter. Proper sizing is essential in the prevention of major component damage during various fault conditions.

For your review, we have attached the page of the Technical Manual where the primary power recommendation is made. Note that the fuse or circuit breaker rating depends on your line voltage, with higher line voltages requiring less current. Please take this into account when you inspect the primary service in your facility.

TO PROTECT YOUR MW-5 OR ANY OTHER ELECTRICAL EQUIPMENT, WE STRONGLY ADVISE THE USE OF CORRECT FUSES OR BREAKERS.

Please return the enclosed card as soon as possible, making sure to check the appropriate box.

1kh

MW-5A

2-21. PRIMARY POWER. Customer specified 3-phase 208/230 volt, 60 Hz, or 3-phase 380 volt, 50 Hz, primary power is required. Connections are made to TB1-1, -2, and -3 (figure 2-3) if 208/230 volt, 3-phase primary power is used. (If 380 volt, 50 Hz, 3-phase power is used, TB1-4 is the neutral connection.) Dependent upon primary power input, connect HV transformer as shown in figure 2-4.

CAUTION

This equipment is designed for connection to a 208/230 volt, 60 Hz closed Delta or 380 volt, 50 Hz Wye power service. The primary service must be protected by either a circuit breaker or fuses with current rating between 40 and 60 amperes. The use of No. 6 or heavier primary wire is required.

2-22. RF OUTPUT. The RF output terminal is at the top, left rear of the transmitter (figure 2-5). A ground stud is located adjacent to the RF output insulated terminal.

NOTE

The output of the MW-5A transmitter is unbalanced to ground. The RF output impedance matches 50 to 300 ohms, as specified by the customer.

WARNING

The RF output terminal of the transmitter, and any output wiring, must be adequately shielded for personnel safety.

2-23. AUDIO INPUT (NORMALLY 600-OHM BALANCED). Using a shielded twisted pair, connect the two audio wires to terminals 1TB2-20 and 1TB2-21 located in the cabinet on the right side (viewed from the rear of transmitter) near blower 1B1 (figure 2-5). Connect the shield (ground) to 1TB2-22.

2-24. MODULATION MONITOR. A modulated sample voltage at BNC connector J1, on chassis 1A11 (figure 2-5), is provided for modulation monitor operation. A BNC plug with RG58 coaxial cable is used to make this connection to the station modulation monitor.

2-12

WARNING: Disconnect primary power prior to servicing.

MW-5

3.2

Primary Voltage

One, three phase, 208/230 volt, 60 Hz, or 380 volt, 50 Hz (as specified) closed Delta or Wye system service should be provided, this circuit provided with either fuses, or circuit breakers, rated at 40 to 60 amperes.

CAUTION: This equipment has been designed for connection to a closed Delta, or Wye, three phase service. It is also very important to provide the AC fuse, or breaker protection as recommended above. Improper fusing, or breaker protection of the primary AC mains will void the Guarantee.

3.3

Transmitter Placement - See Outline Dwg. 839 0094 001

The entire transmitter is self-contained in one cabinet, which makes installation an easy matter. The transmitter should be placed in position (over wire trough openings and ventilation ducts, if used. Level the transmitter and shim if necessary.

3.4

Component Replacement

At least the following components have been removed from the MW-5 transmitter, when shipment by over-the-road truck, or rail freight is called for.

If other means of transportation is used, such as "air-glide" furniture van, the parts removed list is not comprehensive. The method of shipment determines to what extent components are removed. The customer may, or may not, be required to install these removed components -

Power Transformer, 1T4,
Blower, 1B1, See Figure 13.

Also, all doors have been removed for shipping. The time to re-install the doors would be after all components have been replaced, and cleanup work around the transmitter has been completed. The doors have spring-held slip pins in the hinges; a mechanical arrangement that makes installation of the doors a quick and easy operation.

The above items should be re-installed in designated locations, and connected electrically, following the information given on the tags tied to each component. Hardware for mounting will be found either in small bags attached to the unit, or inserted in the tapped holes of the cabinet, where each unit will mount.

The listing of removed components, as given above, also includes figure numbers of pictures that pertain to each item. These pictures will prove very helpful during the installation of the MW-5 transmitter.

3-2

Warning. disconnect primary power prior to servicing