



Service Bulletin:

MAINTENANCE AND MODIFICATION DATA

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Equipment: MW-5 AM TRANSMITTER

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SUBJECT: INSTRUCTION MANUAL CHANGES

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On Page 4-4 in your MW-5 Instruction Book, delete Paragraph 4 and substitute the following: "Open the front panel of the RF oscillator/driver chassis (see Fig. 9). Place a clip lead from Terminal #5 on the oscillator PC board to ground. This will cause the oscillator and RF driver to turn on. Peak the PA grid current, using the PA GRID TUNE control (see Fig. 7). The PA grid meter is located on the lighted meter panel (see Fig. 7). Check the multi-meter reading for RF driver current. Current should read between 6 and 9 amperes. The PA GRID CURRENT should be about 250 mA at this point. If the RF driver current is more than 9 amperes, it will be necessary to shift position of the IPA tuning rods to a point further in the coils by loosening the four bar retain bolts (see Fig. 10) and pushing the slugs in about 1/4". Conversely, if the PA grid current and RF driver currents are low, pull the slug out in 1/4" segments until proper values are achieved. Be sure to retune the PA GRID TUNE control, after each adjustment, for maximum PA grid current. Insure that transformer T-1 is tapped to provide sufficient driver supply voltage.

On Page 4-7, add the following to Paragraph 25: In many high Q antenna systems, high frequency distortion can be controlled by adjusting the plate tuning control #1 turn from the peak efficiency point. Additionally, a 1/4 turn adjustment can be made to the PA and grid efficiency resonators. In no case should these controls be adjusted to cause more than a 200 volt increase in plate voltage when the carrier is un-modulated referenced to the pre-adjustment value. Adjust tuning and resonators for minimum distortion over the audio spectrum.

On overall schematic #852-7591-001; R-9 in the directional coupler should be labeled 100K; filament OFF switch, S-1, should be shown with terminal #1 and #3 normally closed and terminals #2 and #4 normally open; relay K-2 is shown in the "H.V. - ON" mode.

On Page 3-4, Section 3.6, Paragraph 1, change the wording to read: "Connection should be made to Terminals #3 (ground) and #4 on 1TB2."

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