

INSTRUCTION MANUAL - MODEL 5100 TRANSMITTER

ADDENDA SHEET #1

NOTE

The following changes have been made to current production units. These changes are not indicated by the schematic diagram in the present instruction manual, however, the parts list is up to date and includes the items used for the changes indicated below, —

1. Add 2 Resistors R60 & R61 — 100K, 2 watts in parallel, shunted across secondary of Modulation transformer T2.
2. Add 2K Resistor 10 watts R62 from terminal #3 on V15 to ground.
3. Connection change on high voltage screen feed supply lead — from SW4 section (C) contact #3 to J#5 terminal #3.
4. Buffer — XTAL — OSC. Unit — change circuit symbol reading P2 to read J9.
5. Multiplier Final Amplifier — change value of C44 from .005 MMF. to read .005 MF.
6. Add 10,000 ohm 1/2 watt 20% Resistor (R63) in series with high side of microphone lead. Change to take place inside of chassis, under shield cover.
7. MICROPHONE CORD CONNECTOR FITTING
The Microphone Cord Connector (Not Supplied) is an Amphenol 80-MC2M. Refer to page 6 of the instruction Manual for proper wiring polarity.
8. CAMLOCK FASTENERS
Reference to the 2 Camlock Fasteners and cutaway drawing contained on page 6 under the title of "Maintenance" should be deleted. These items have been omitted due to the difficulty they produced in withdrawing the chassis from the Cabinet.
9. MODEL 5100 TUNING GUIDE
The following dial settings are average when the Model 5100 Transmitter is terminated into a 75 ohm non-inductive load circuit. Antenna loads should be such that the following settings be approximated as closely as possible.
Final plate current for the following settings is 220 ma. in the "FONE" position. "CW" position will vary somewhat from this value.
10. CAUTION
When no microphone is attached to the front panel connector, the audio gain control **MUST** be retarded to the full counter-clockwise position. Failure to do so may produce arcing at the modulation transformer output safety gap.

DIAL SETTINGS

Frequency (KC's)	Loading	Tuning
3500	3.0	8.0
4000	5.0	6.0
7000	2.0	5.0
7300	2.5	4.5
14000	2.0	4.5
14350	2.1	4.0
21000	3.0	2.5
21450	3.1	2.5
26960	2.0	4.0
27230	2.0	4.0
28000	2.0	3.5
29700	2.5	2.5