

# TMC SPECIFICATION

NO. S 1306

REV:

COMPILED:

CHECKED:

APPD:

SHEET

OF

TITLE:

INSTALLATION INSTRUCTIONS

for

KIT 390

# TMC SPECIFICATION

NO. S 1306

REV:

COMPILED:

CHECKED:

APPD:

SHEET 1 OF 4

TITLE: Installation for KIT390

## I. EQUIPMENT AFFECTED:

TMC Models HFT( )-1K( ) transmitters.

## II. PURPOSE:

To improve reliability of one kilowatt transmitters 1ST and 2ND Amplifier Tubes, 8233 and 4CX350 respectively.

## III. MATERIAL SUPPLIED:

<u>Item No.</u>	<u>Qty.</u>	<u>Description</u>
1	1	RW105-32 (Resistor, 15K-50 watt)
2	1	RW109-28 (Resistor, 2K-10 watt)
3	2	RC42GF154J (Resistor, 150K-2 watt)
4	1	RC42GF183J (Resistor, 18K-2 watt)
5	2	WA102-4 (Fiber washer)
6	1	FW06HBN (Flat washer)
7	1	LWE06MRN (Lockwasher)
8	1	SCBP0632BN40 (Screw)
9	1	NTH0632BN8 (Nut)
10	1	LWC22(7)U2 (Wire)

# TMC SPECIFICATION

NO. S 1306

REV:

COMPILED:

CHECKED:

APPD:

SHEET

2

OF

4

TITLE: Installation for KIT390

## IV. 8233 1ST AMP MODIFICATION

This modification consist of reducing the 1ST AMP plate voltage from 400 vdc to 300 vdc and the addition of screen bleeder resistor.

- A. Remove all power from transmitter, slide Power Amplifier Drawer (TLA( )-1K) outward on its chassis tracks and disconnect all cable plugs.
- B. Place unit rightside up on work bench and remove top cover.
- C. Refer to Figures 1 and 2 and remove screw as indicated on figures. Save lockwasher and discard screw.
- D. Place lockwasher from preceding step on Item 8 and screw Item 8 into threaded chassis nut formerly occupied by discarded screw in step C. Tighten screw securely to chassis.
- E. Replace top cover and place unit upsidedown on work bench. Remove bottom cover.
- F. On protruding screw (Item 8) place the following items in this order:
  1. 1 each Item 5
  2. 1 each Item 2
  3. 1 each Item 5
  4. 1 each Item 6
  5. 1 each Item 7
  6. 1 each Item 9Position resistor terminals towards front panel and tighten nut (Item 9).
- G. Remove connections from C1104 and place on the bottom of resistor (Item 2). Secure connections with solder.
- H. Using Item 10, connect C1104 to the top of resistor (Item 2) and secure connection with solder.
- I. Connect 18K-2 watt resistor (Item 4) from pin 3 of 1ST AMP tube socket to ground. Secure connection with solder.

NOTE: For HFTM-1K transmitters change referenced capacitor C1104 to C1102 and proceed with modification.

# TMC SPECIFICATION

NO. S 1306

REV:

COMPILED:

CHECKED:

APPD:

SHEET 3 OF 4

TITLE: Installation for KIT390

## V. 4CX350 2ND AMP MODIFICATION

A. Connect (2) 150K-2 watt resistors (Item 3) from pin 1 of 4CX350 tube socket to ground. (Resistors must be connected in parallel.)

## VI. HIGH VOLTAGE POWER SUPPLY MODIFICATION

A. On plate transformer T101, (located on HV power supply) remove wire on terminal #14 and reconnect this wire to terminal #13. (Terminal #13 is a lower voltage tap on T101).

B. On assembly A103 remove resistor R5. Install in its place the 15K-50 watt resistor supplied (Item 1).

C. Check to insure that all connections are secure and properly made. Replace covers that have been removed and install Power Amplifier back in equipment cabinet. Connect all interconnecting cables removed.

# TMC SPECIFICATION

NO. S S 1306

REV:

COMPILED:

CHECKED:

APPD:

SHEET 4

OF 4

TITLE: Installation Instructions for KIT 390

Bottom View

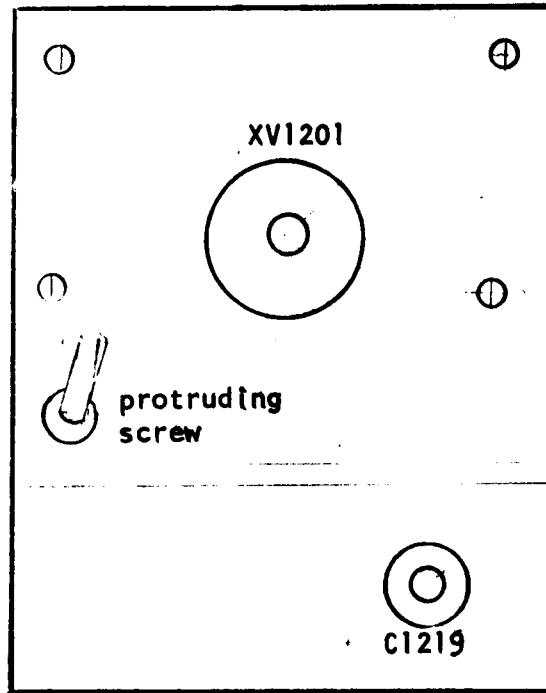


Figure 1

Top View

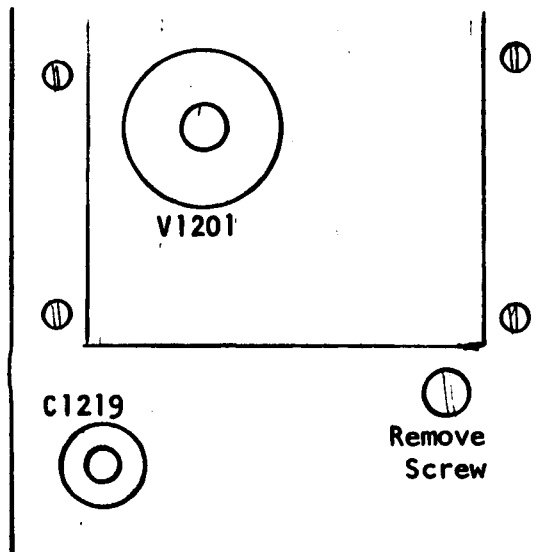


Figure 2

