

TMC SPECIFICATION

NO. S 1305

REV:

COMPILED:

CHECKED:

APPD:

SHEET

OF

TITLE:

INSTALLATION INSTRUCTIONS

for

KIT 389

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1

OF 4

TITLE: Installation Instructions for KIT389

I. EQUIPMENT AFFECTED:

TMC Models HFT()-10K(), PALA-10K, transmitters.

II. PURPOSE:

To improve reliability of the 10 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	RW116-202B (Resistor, 2K-200 watt), with mounting clips
2	1	RW109-28 (Resistor, 2K-10 watt)
3	2	RC42GF154J (Resistor, 150K-2 watt)
4	1	RC42GF183J (Resistor, 18K-2 watt)
5	2	SCBP1032BN8 (mounting hardware)
6	6ft.	W1126-1 (Electrical wire)
7	1	TE149-144 (Lug)
8	2	WA102-4 (Fiberwasher)
9	1	FW06HBN (Flat washer)
10	1	LWE06MRN (Lockwasher)
11	1	SCBP0632BN40 (Screw)
12	1	NTH0632BN8 (Nut)
13	4"	LWC22(7)U2 (Wire)

TMC SPECIFICATION

NO. S 1305

REV:

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APPD:

SHEET 2 OF 4

TITLE: Installation Instructions for KIT389

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 IPA Drawer outward on its chassis tracks and disconnect all cable plugs.

B. Place unit rightsideup 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 11 and screw Item 11 into threaded chassis nut formerly occupied by discarded screw in Step C.

E. Replace top cover and place unit upsidedown on work bench. Remove bottom cover.

F. On protruding screw (Item 11) place the following items in this order:

1. 1 each Item 8
2. 1 each Item 2
3. 1 each Item 8
4. 1 each Item 9
5. 1 each Item 10
6. 1 each Item 12

Position resistor terminals towards front panel and tighten nut (Item 12).

G. Remove connections from C1208 and place on the bottom of resistor (Item 2). Secure connections with solder.

H. Using Item 13, connect C1208 to the top 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 PALA-10K transmitters change referenced "G" to read "Remove connections from C1205 and place on bottom of resistor (Item 2). Secure with solder".

TMC SPECIFICATION

NO. S 1305

REV:

COMPILED:

CHECKED:

APPD:

SHEET

3

OF 4

TITLE: Installation Instructions for KIT389

V. 4CX350 2ND AMP MODIFICATION

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

VI. HIGH VOLTAGE POWER SUPPLY MODIFICATION

A. Mount 2K-200 watt resistors (Item 1) on bleeder assembly located on rear left wall of transmitter frame. Use resistor clamps and hardware supplied. (Mounting clips provided with Item 1)

B. Remove (+) lead on CR804 going to C804. Discard this wire and add new wire (Item 6) from CR804 (+) to 2K-200 watt resistor (Item 1). (Cut wire to size)

C. Add other wire (Item 6) from the other side of 2K-200 watt resistor (Item 1) to C804 (10 MFD - 2.5V capacitor). Install lug (Item 7) on wire that connects C804.

D. Check to insure that all connections are secure and properly made. Install IPA Drawer back in transmitter frame and connect all interconnecting cables removed.

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APPD:

SHEET 4 OF 4

TITLE: Installation Instructions for KIT 389

Bottom View

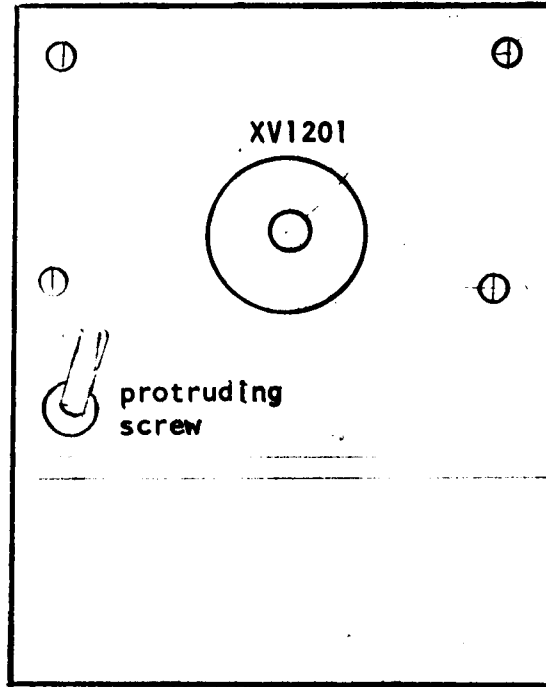


Figure 1

Top View

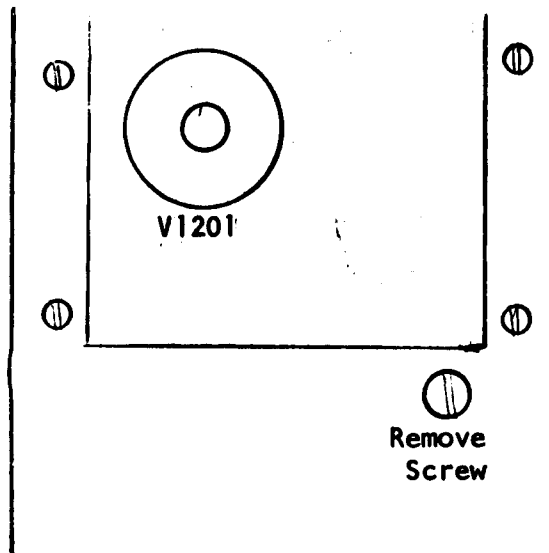


Figure 2

View from front of the Unit

