

# TMC SPECIFICATION

NO. S 1219

REV:

A B C

COMPILED: SR

CHECKED: *ASL*

APPR: *JB*

SHEET OF

TITLE:

3/7/68 jb/

KIT 321

# TMC SPECIFICATION

NO. S 1219

REV:  $\phi$  A B C

COMPILED: SR

CHECKED:

APPD: F.B.

SHEET 1 OF 5

TITLE: KIT 321

## I. EQUIPMENT AFFECTED

A. **GPT-10K**( ) SER. #19415 & UP

## II. PURPOSE

To suppress residual noise emitted by transmitter during standby.

## III. MATERIALS SUPPLIED IN KIT

<u>ITEM</u>	<u>TMC PART NO.</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	AX-5031	1	
2	CA-1422	1	Cable, Interconnect
3	SCBP 1032BN8	4	Screw, Machine
4	WA-101-11	4	Washer
5	CD-101-MW	30 ft.	Cord, Lacing
6.	CK-1488		Schematic
7	RC32GF333J	2	Res. Fxd.
* 8	NP362-46	1	Nameplate
9	TM105-8AR	1	Term. Bd Fng

Note: If transmitter is equipped with TIS Keyer other than Model TIS-3D, replace resistors R-109 and R-110 with (Item 7)33K Resistors. R-109 and R-110 are located inside, right side of AX-5031 chassis.

## IV. TOOLS REQUIRED

1. Screwdriver, Phillips
2. Screwdriver, Blade

\* Omit Item 8 when KIT 321 is supplied part of KIT 322.

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## V. INSTALLTION PROCEDURE

CAUTION ----- CAUTION ----- CAUTION

Remove all AC input to transmitter before proceeding with modification.

1. Mount Item 1 (AX-5031) to rear of transmitter auxiliary frame, using Items 3 and 4 as illustrated in Fig. 1.
2. Place line cord through hole in back plate and connect to AC receptacle. Ref. Fig. 1.
3. Connect plug end of Item 2 (CA-1422) to J-101 on rear of AX-5031.
4. Dress and lace Item 2 (CA-1422) along main cable as illustrated in Fig. 1.

Note: Lacing cord supplied as Item 5

5. Remove metal shield from E-3001, also remove jumpers from between terminals 21 and 22 of E-3001 and 25 and 26 of E-3002.
6. Connect Lugged end of Item 2 (CA-1422) to the following:
  - A - Orange Lead to Pin 19 of E-3001
  - B - Yellow Lead to Pin 20 of E-3001
  - C - Violet Lead to Pin 21 of E-3001
  - D - Brown Lead to Pin 23 of E-3002
  - E - Red Lead to Pin 24 of E-3002
  - F - Green Lead to Pin 25 of E-3002
  - G - Blue Lead to Pin 26 of E-3002

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7. Replace shield over E-3001.
  8. Connect PTT lines to terminals 1 and 2 of TB-101 in back of AX-5031 unit using Item 9.
    - If receiver muting is desired, there are terminals available on TB-101 for this purpose -
  9. This completes modification of transmitter.
  10. Affix nameplate Item 8 near transmitter nameplate.
- VI. TUNE UP PROCEDURE
1. Remove relay panel cover.
  2. Disconnect red lead from terminal 36 of E-703.
  3. Connect a 100 Ma. milliammeter in series with terminal 36 and red lead.
  4. Apply power to transmitter and allow a 15 min. warmup.
  5. Place AX-5031 mode switch in norm. position.
  6. Tune transmitter to any freq.
  7. Turn IPA screen overload adjust full clockwise.
  8. Place PA screen ON-OFF switch in Off position.
  9. Unload and dip IPA at the same time, increasing drive until 50 mill amp is indicated on test 100 milliammeter.
  10. Adjust IPA screen overload until screen overload trips.
  11. Turn Off high voltage and main power; also remove test milliammeter and reconnect red lead to terminal.

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12. Replace relay panel cover and turn On main power.

13. Initial transmitter tune up is made with AX-5031 mode switch in **NORM.** position.

14. After Step 13 has been completed, place mode switch in desired mode of operation, either CW or PTT. In the CW position, automatic operation of transmitter is achieved by sensing keying input information which effectively places the transmitter to either operate, or standby condition.

In PTT position, the operate-standby condition is controlled by the operator.

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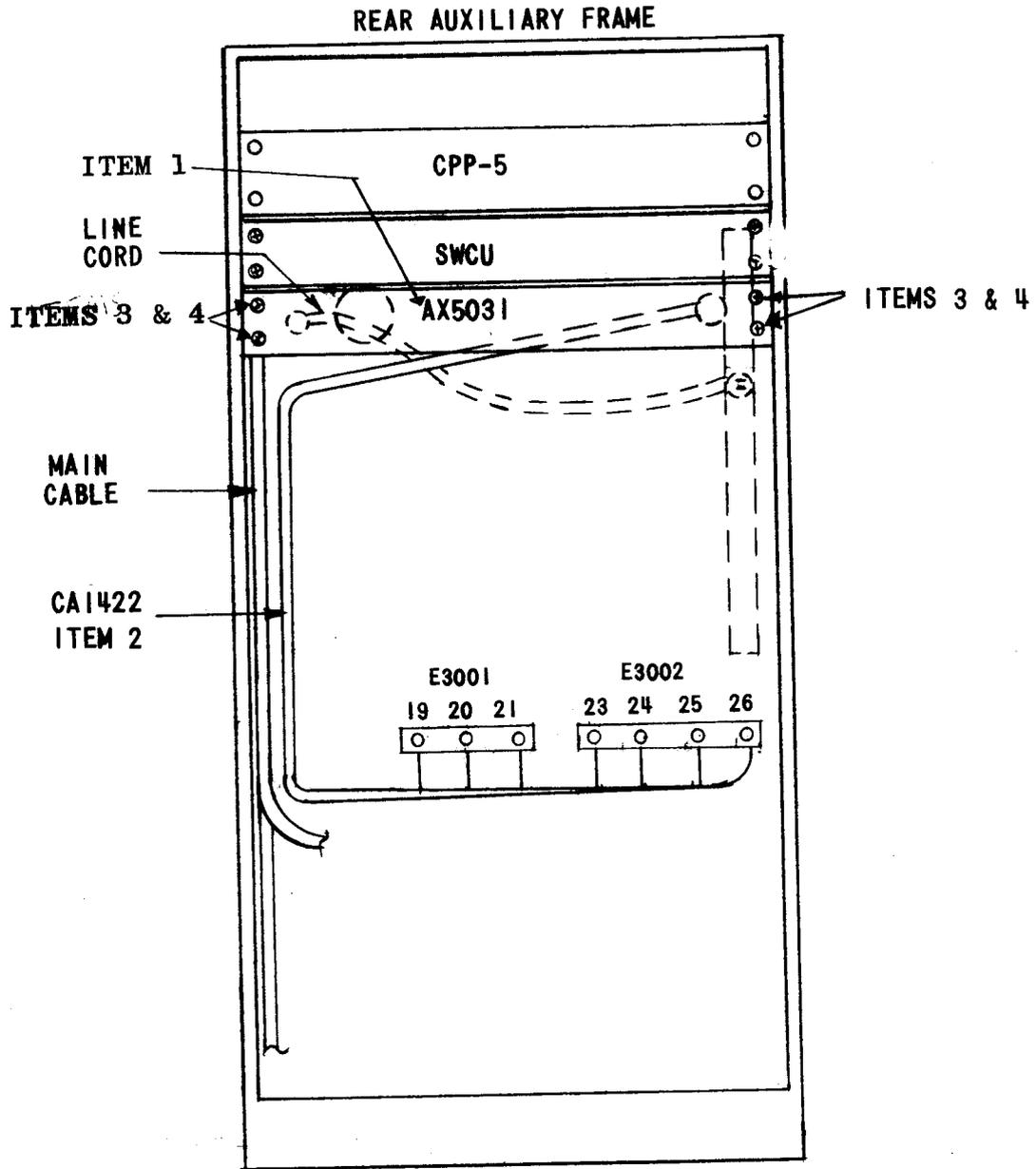


FIGURE #1