

TMC SPECIFICATION

NO. S 1262

REV:

COMPILED: BN

CHECKED: *L. Klein*

APPD: *QVB*

SHEET

OF

TITLE:

12/29/69 jb/

UNCLASSIFIED

KIT 333B

MODIFICATION KIT 333B

MODIFICATION PROCEDURE

GPT-10K SER. NOS. 218

219

220

221

INSTALLATION OF MMXM-2

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I. EQUIPMENT EFFECTED:

TMC MODEL GPT-10K SER. NOS. 218, 219, 220, 221

II. PURPOSE:

To update the auxiliary frame by removal of the SBE exciter and replacing it with an MMXM-2.

III. MATERIALS REQUIRED:

Table 1 lists the material supplied with the field change kit.

Table 2 lists the tools necessary to accomplish this modification. These are standard tools and are not supplied with the kit.

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TABLE 1

<u>ITEM</u>	<u>QTY</u>	<u>P/N</u>	<u>DESCRIPTION</u>
1.	5 ft.	BS100	SOLDER, TIN ALLOY
2.	1	CA1534	CABLE, SPECIAL PURPOSE
3.	10 ft.	CD101-1MW	CORD, NYLON, LACING
4.	2	CK1692	DIAGRAM, WIRING
5.	2	CU102-3	CLAMP, LOOP
6.	18	CU142-6	STRAP, CABLE
7.	2	FWO6HBN	WASH, FLAT
8.	1	LA107-14-TB103	SLEEVE, MKR, CBL
9.	1	LA107-14-TB104	SLEEVE, MKR, CBL
10.	1	LD3002	MARKING, MOD. KIT
11.	2	LWE06MRN	WASH, LK, EXT.
12.	24	LWE10MRN	WASH, LK, EXT.
13.	1	MMXM-2	EXCITER, MULTI-MODE
14.	2	MS157-2S	PANEL, BLANK
15.	1	MS157-3S	PANEL, BLANK
16.	1	MS157-6S	PANEL, BLANK
17.	2	MS2457	BRKT, SLIDE EXT.
18.	1	NP362	NAMEPLATE, KIT
19.	2	NTH0632BN8	NUT, PLN, HEX
20.	2 ft.	PX830-12-1	INS, SLUG, SHRINK
21.	2 ft	PX100-1-263	INS, SLUG, BLK
22.	2	SCBP0632BN6	SCREW, MACH.
23.	24	SCBP1032BN8	SCREW, MACH.
24.	24	SCHH1032SS8	SCREW, HEX HEAD
25.	1	TK108-18A	TRK & SLIDE SET
26.	2	TM105-6AL	TERM. BD. FANNING
27.	24	WA101-11	WASH. FIBRE
28.	1	IN2044	INSTRUCTION MANUAL
29.	1	CA581-2	CABLE ASS'Y, PWR

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TABLE 2

1. Screwdriver, Philips
2. Pliers, Long Nose
3. Pliers, Diagonal Cutting
4. Wrench, Open End, 1/4"
5. Soldering Iron

IV. PROCEDURE:

A. PREPARATION OF TRANSMITTER

1. Turn off all power
2. The following units will be removed permanently from the frame:
 - a. SLM-2
 - b. SBE-3
 - c. XFK
 - d. A1397 (SBE P.S.)
 - e. AK100 (Rear of frame)
3. Remove temporarily any units necessary to allow free access to the center shield of the frame.
4. Remove the tracks and slides for the units permanently removed.

B. REMOVAL OF OBSOLETE CABLE

1. Remove CA495. This is the interconnect cable between the AK100 in the rear of the frame, E301 on the MPC-2 and the center shield terminal boards E3000, E3001, E3002. Cut the leads from the center shield terminal numbers 5, 6, 7, 15, 16, 18, 19, 23, 24.
2. Remove the short coaxial jumper cable on the MCP-2 between S303 (VOX RF OUT) SBE and S304 (SBE VMO IN) VOX.
3. Remove CA346. This is the SBE power cable.

C. MODIFICATION OF CA427, MAIN HARNESS

1. Center shield portion.
 - a. Remove the leads from the center shield terminal board E3001, terminal numbers 15, 16, 17, 18, 19.

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- b. Cut these leads or tie back upon completion of modification.
 2. XFK Breakout
 - a. Cut the breakout at the main trunk or tie back upon completion of modification.
 3. SLM Breakout
 - a. Cut the coaxial leads to the SLM at the main trunk or tie back upon completion of modification.
 4. SBE Breakout
 - a. Modify the SBE breakout as per Figs. 1, 2, 3.
 - b. Remove the fanning strip and cut the tubing back 4".
 - c. Separate the wires as shown and install 4" pieces of tubing provided over the wires. Tie and lace the tubing.
 - d. Install the marker over the tubing.
 - e. Clamp the fanning strips to the cable and connect the leads as shown. Use the shrink tubing to cover the shielding end.
 - f. The WH/YEL lead connected to the KEY on TB104 should be the lead that is connected to TERM 24 on E3002 of the Center Shield. Use an ohmmeter to verify this.
- D. INSTALLATION OF CA1534
 1. Center Shield
 - a. Using the cable straps provided, strap CA1534 along the center shield cabling so that the wires breakout above Terminals 15-19.
 - b. Solder the wires to the terminals as they are marked. See Fig. 4
 2. SBE Breakout
 - a. Run CA1534 along the main trunk to the modified SBE breakout. Use the cable straps provided.
 - b. Strap the cable breakouts together.
- E. INSTALLATION OF THE MMXM-2
 1. Track and Slide Set
 - a. Install the track and slide set using the Hex Head hardware and extension brackets provided. Use other tracks as examples of mounting.
 - b. Mount the MMX on the slides.
 - c. Connect the cabling to the MMX as shown in the wiring diagram.

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F. LABELING

1. Center Shield

- a. Cut LD3002 marking along the outlines of the center shield portion.
- b. Using the 5/8 x 1 1/2 blank cover the lettering on E3000, Term. Nos. 5 and 6.
- c. Using the FAX, CONT, FSK label cover the old lettering on E3001, Terminals 15-18.
- d. Using USB cover LINE 1 on E3002, Terminals 28, 29, 30.
- e. Using LSB cover LINE 2 on E3002, Terminals 32, 33, 34.
- f. Using the 1/4 x 1 1/2 blank cover SQUELCH on E3002, Terminal 26.
- g. Using 1 MHz, cover VMO on J3004.

2. MCP FRONT PANEL

- a. Cut LD3002 marking along the outlines of the MCP portion.
- b. Using MMX EXT, cover SBE VMO on the SBE VMO INPUT switch.
- c. Using two 1/4 x 1/2 blanks cover SBE and XFK on the VOX RF OUTPUT switch.
- d. Using MMX, cover SBE on the ANALYZER MONITOR switch.
- e. Using a 1/4 x 5/8 blank, cover MODE on the MODE switch.
- f. Using the 1/4 x 1 1/4 USB cover CHANNEL 1 on the LINE switch.
- g. Using the 1/4 x 1 1/4 LSB cover CHANNEL 2 on the LINE switch.
- h. Using the 1/4 x 3/4 USB cover LINE 1 of the LINE 1 INPUT on the LINE switch.
- i. Using the 1/4 x 3/4 LSB cover LINE 2 of the LINE 2 INPUT on the LINE switch.

G. FINAL

1. Reinstall the equipment removed temporarily.
2. Add the MODIFICATION nameplate to the equipment.
3. Install the blank panels in place of the removed equipment.

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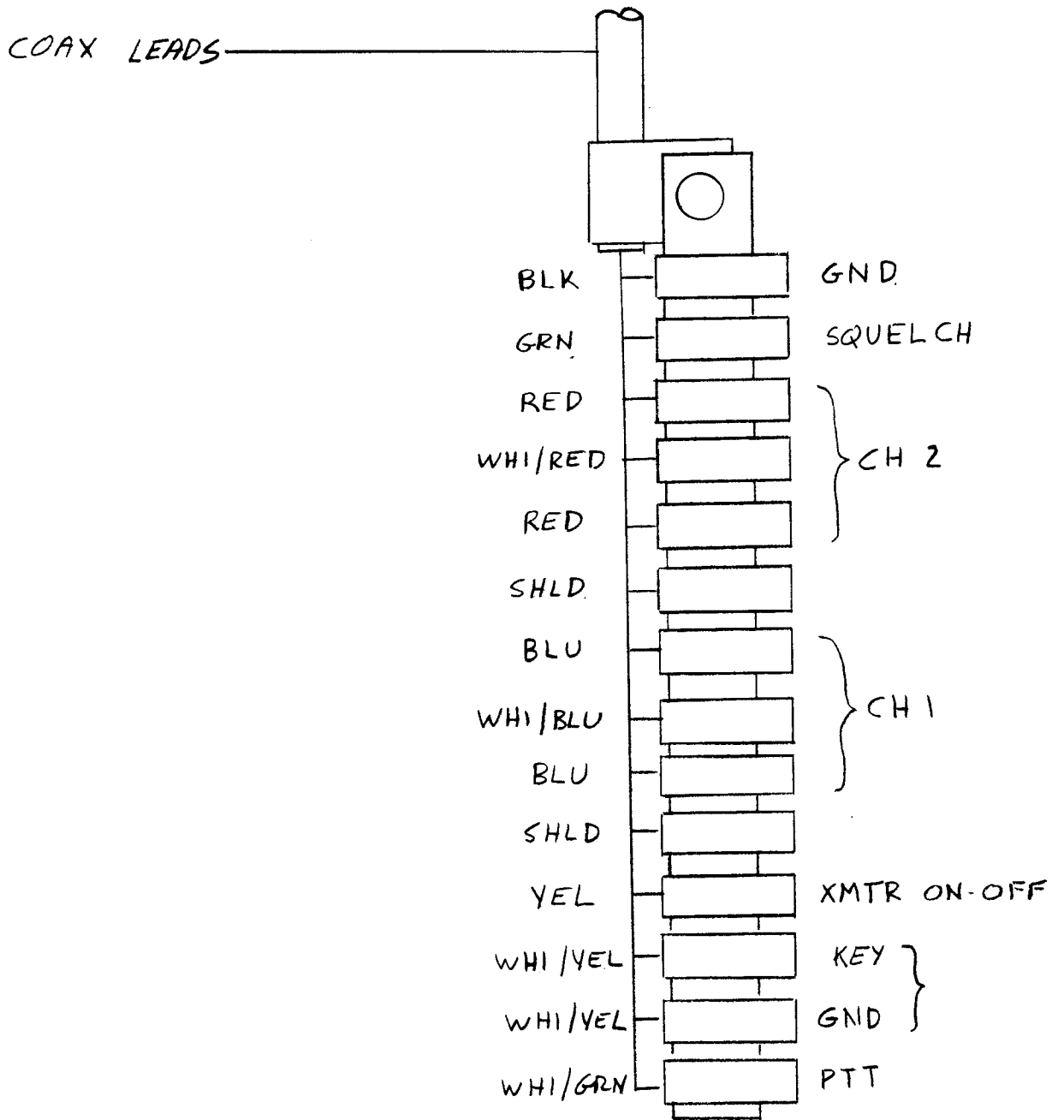


FIG. 1 SBE WIRING

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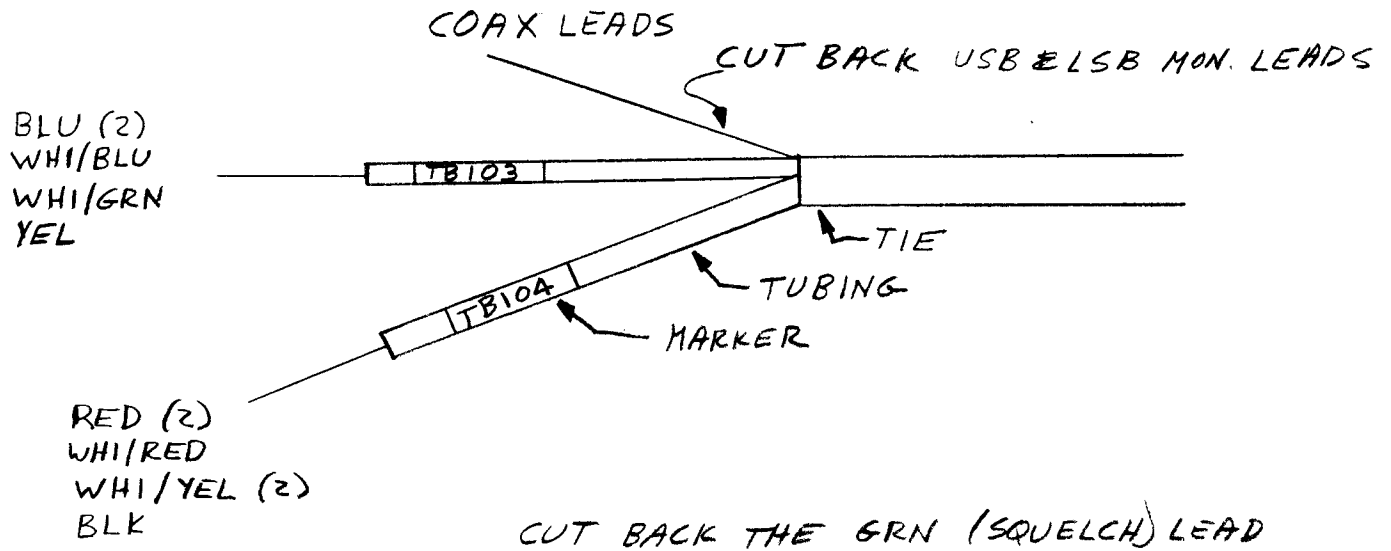
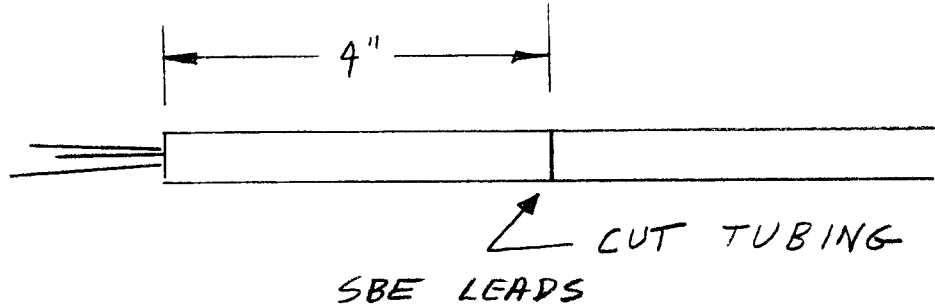


FIG. 2

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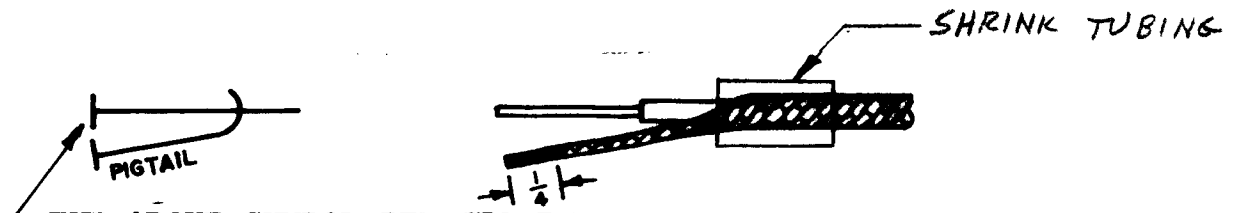
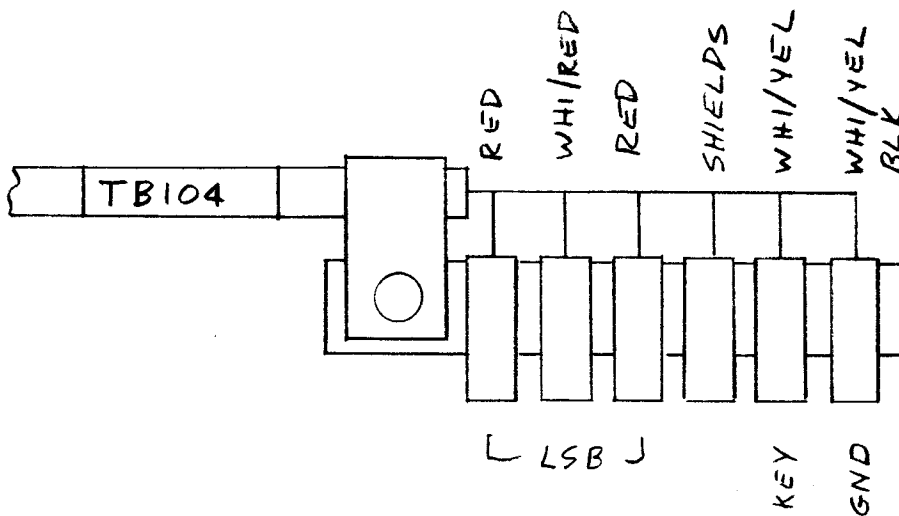
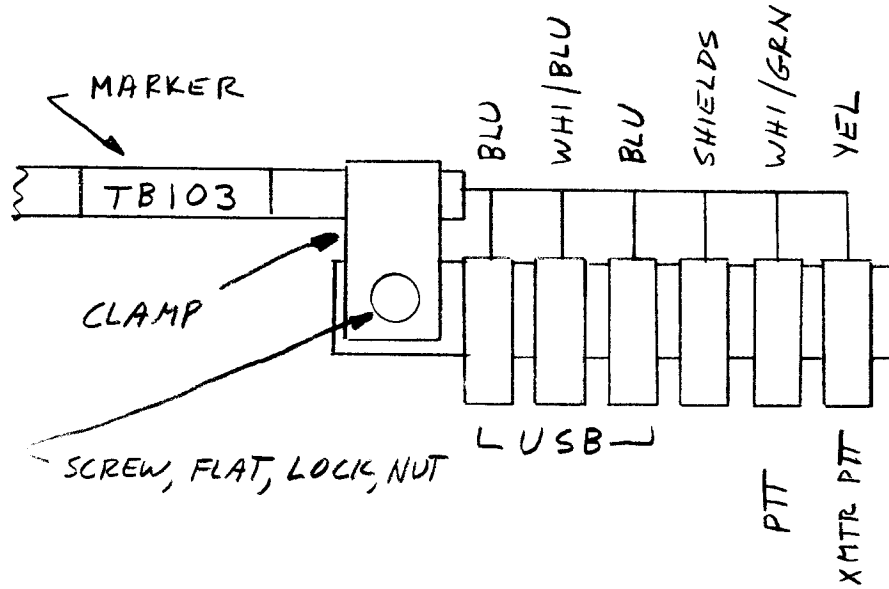
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THE ABOVE SYMBOL DENOTES END OF SHIELD, WHICH SHOULD BE TERMINATED AS SHOWN, LEAVING EXCESS SHIELDING AS A PIGTAIL. TIN PIGTAIL 1/4 INCH.

FIG 3

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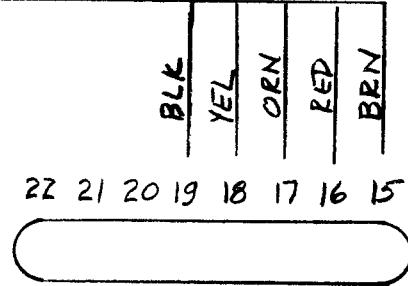
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CA1534



E3001

CONNECT THE SHIELDS
TO THE GROUND BUSS.

FIG. 4

