XIT-284

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Typed 5/18/6	66 by Carol M. Smith				

KIT 284

	TMC SPECIFICA	TION	NO. 5 110	<u> </u>
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Typed 5/18/66 by C.M.S.

I This modification affects transmitters AN/FRT 39, AN/FRT 40 and AN/FRT 62. It involves changes to the high voltage warning light, AX 124, to correct a safety hazard.

# II List of Materials Supplied

			TMC	
Item No	Symbol	<u>Qty</u>	Part No	Description
1		1	1N547	Diode
2		1	TM102-4	Terminal strip
3		1	PX336-4	Insulator, Terminal Board
14			Deleted	
5		2	SM2520BN5.75	Stud, Threaded
6		1	PX979	Insulator, Disc
7		2	FW25HBN	Washer, Flat
8		2	LWS25MRN	Washer, Lock
9		2	NTH2520BN14	Nut, Plain, Hex
10		2	NTC2520BNL	Nut, Cap
11		1	D <b>₩g</b> A1696	AX124 Assembly Dwg.
12		1	Dwg TS138	Lamp Dwg.
13		1	Dwg <b>MS</b> 1604	Top Shield Dwg.
14		1	TP131-1-1/2/3/4	Rubber Stamp
15	•	1	STAMP-PAD	Stamp-Pad
1 <b>6</b>		4	SFB0632SC10	Self Tapping Screws

# III. Modification Instructions

## A. Warning Light

1. With all power off the transmitter, disconnect and remove the warning light assembly using side: access or front access as required.

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(a) Remove front and rear side rack doors by lifting off hinges.

(b) Remove left side rack cover by first removing ten (10) snap-in buttons, then eight (8) of the 1/2" bolts underneath using a 1/2" socket wrench or spintite. Work from bottom up. Loosen but do not remove the two (2) top bolts. Cover lifts off these easily.

(c) Remove inner R shield secured by 0832 screws.

(d) Disconnect the white and white/black leads at E3003 on roof of compartment.

(e) Remove the 1/2" square nuts and washers of warning light assembly and lift light off from top. Retain hardware and large

gasket.

(f) Remove top cover by first removing twelve (12) large snap-in buttons, then the 5/16" bolts and washers using a 5/16" socket wrench or spinfite. Lift cover up from front and slide to rear over studs of porcelain insulators exposing 4 nuts of terminal strip E3003. Proceed to Step A. 2.

### (Front Access (top cover not removeable)

(g) Remove the Sideband Exciter 0-714/UR Model CBE ( ) and Frequency Amplifier AM2505-C-URA-31, Model CHG ( ) from the transmitter to gain access to terminal strip E3003.

(h) Remove 3 screws securing long trim strip above the 8 panel meters. This will expose 6 screws on side rack securing meter box to frame. Remove screws.

NOTE: If meter box is supported by nuts and bolts at the top of meter box, side access <u>must</u> be used to install new terminal strip.

- (i) Remove meter box and meter panel intact and support same so that no stress will be on cabling. Two spacers behind meter box will also drop free. They must be re-installed after completing modification.
  - (j) Disconnect wiring from existing terminal strip E3003.
- (k) Position the new terminal strip near the existing E3003 and using item 2 as a guide, drill four holes in top RF shield with a #36 drill bit. Mount the new terminal strip, Item 2 and its insulator strip, Item 3, using four self tapping screws, Item 16. Stamp terminals 1, 2, 3, and 4 per figure 1, using Item 14 and 15. Proceed to step B. 4. after modifying warning light.

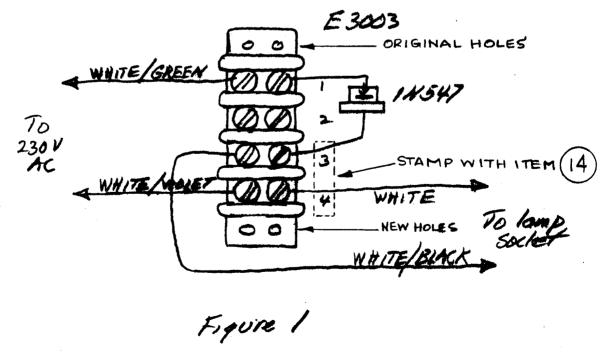
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2. Modify the warning light assembly in accordance with detailed instructions on drawing Al696 (Item 11).

#### B. Terminal Strip

- 1. Disconnect and remove terminal strip E3003 on the top shield of the auxiliary frame (LD551/MS1604). Save mounting hardware.
- 2. Using the new 4-terminal strip, TM102-4, Item 2, as a guide, drill two new .175 dia. holes as shown on drawing MS1604.
  - 3. Mount Item 2, using hardware saved from step 1, above, and Item 3 (PX336-4). Stamp additional terminal numbers with Item 14.
- 4. Mount diode, 1N547, Item 1, between terminals 1 and 3 of the new E3003 as indicated on Figure 1.
- 5. Reinstall top cover if removed, then the modified bight accembly many original gastet, muts and washers.
- 6. Connect leads to E3003 as shown in Figure 1, below. Check light operation.
  - 7. Reinstall all sitems and equipment removed to perform modification.



8. This completes KIT 284 Modification.

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/18/6		,		ORIGINAL RELEASE FOR PRODUCTI	ON	10
/20/66	A	2	16274	Revised Sheet 2 Per EMN	·	-
	В	ALL	16302	Revised per EMN		
5/25/66 0/18/66		3	17061	Revised per EMN		
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