DATE B/S/51		TMC SPECIFICATION NO. S-613	
COMPILED	CHECKED	TITLE: GPT-10K & 40K SHORTING RELAY CAPACITOR & HV CIRCUIT	
(A)B	OVED	BREAKER MODIFICATION KIT (KIT-127)	

GPT-10K & 40K SHORTING RELAY CAPACITOR

AND

HV CIRCUIT BREAKER MODIFICATION KIT (KIT-127).

DATE 12/6/81				
SHEET. 1	_or_ 5	TMC SPECIFICATION NO. S-613	A	
COMPILED	CHECKED	TITLE: GPT-10K & 40K SHORTING RELAY CAPACITOR & HV CIRC	aur_	
APPROVED		BREAKER MODIFICATION KIT (KIT-127)		

I. EQUIPMENT AFFECTED

- A. TMC Model GPT-10K
 - 1. AN/FRT-39 all
 - 2. AN/FRT-39A #11
 - 3. AN/FRT-39B Satial No's. Thru
- B. TMC Model GPT
 - 1. AN/FRT-40 all
 - 2. AN/FRT-40A Serial No's.____ Thru

II. PURPOSE

A. To reduce the voltage transient in the GPT-10K & 40K interlock circuits, thus reducing the failure rate of several capacitors.

III. MATERIALS SUPPLIED IN KIT

I'M NO.	NO. DESCRIPTION		
1	One each, TMC No. CP70E1FL254K (symbol No. C815) capacitor, fixed, paper, .25 uf.		
2	Two each, TMC No. CP07SB2, bracket, capacitor mounting.		
3	One each, TMC No. CA-409-35-6.00, lead, electrical, white/brown.		
4	One each, TMC No. CA-409-36-6.00, lead, electrical, brown.		
5	Two each, TMC No. LWE10MRN, washer, lock, external tooth.		
6	Two each, TMC No. NTH1032BN12, Mut, plain, hexagon.		
7	One each, TMC No. A-2226, circuit breaker micr - switch board assembly (consisting of one insulator board, two switches symbol No's. S1015, S1016, one resistor, symbol No. R1002, associated wiring and hardware.		

DATE 12/6/61 SHEET 2 OF 2		TMC SPECIFICATION NO. 5 -613	
COMPILED	CHECKED	TITLE: GPT-10K & 40 SHORTING RELAY CAPACITOR & HY CIRCUIT	
APPROVED		PREAKER MODIFICATION KIT (KIT-127)	

ITEM NO.

DESCRIPTION

8

Three each, TMC No. NT-121-718, nut, wire.

9 3.0 One each; 2 fact TMC No. CD100, cord, lieting

IV. TOOLS REQUIRED (To be Provided by Installing Activity)

- 1. Pliers, 6 inch longnose
- 2. Solder
- 3. Solder iron, 35 watts or equivalent
- 4. Wrench, open end, for #10 hexagon nut
- 5. Electric hand drill, 1/4 inch chuck capacity
- 6. Drill bit. size .203 (13/64) inch diameter.
- 7. Cutters, diagonal

V. PROCEDURE

- A. Shorting Relay Capacitor
 - 1. Referring to figure one, drill two holes as dimensioned on blower mounting chassis. The four holes marked with ast risks are the ones in which the main blower standoffs are mounted.
 - 2. Mount the capacitor (item 1) on the underside of the chassis using brackets (item 2) and mounting hardware (items 5 & 6).
 - 3. Solder the two leads (items 3 & 4) to the lugs on the capacit r. Connect other end of leads to terminal strip E805, terminals 1 & 2 (terminals lection on shorting relay assembly). Secure the leads to the existing cable harness using (item 9), lacing cord.

DATE_	12/6/61	
SHEET.	3	_or_ <u>.5</u>

TMC SPECIFICATION NO. S-613



COMPILED

CHECKED

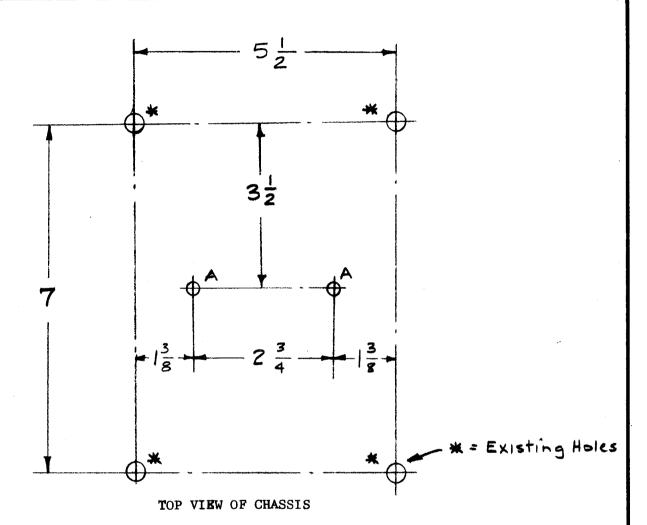
TITLE: GPT-10K & 40K SHORTING RELAY CAPACITOR & HV CIRCUIT

APPROVED

BREAKER MODIFICATION KIT (KIT-127)

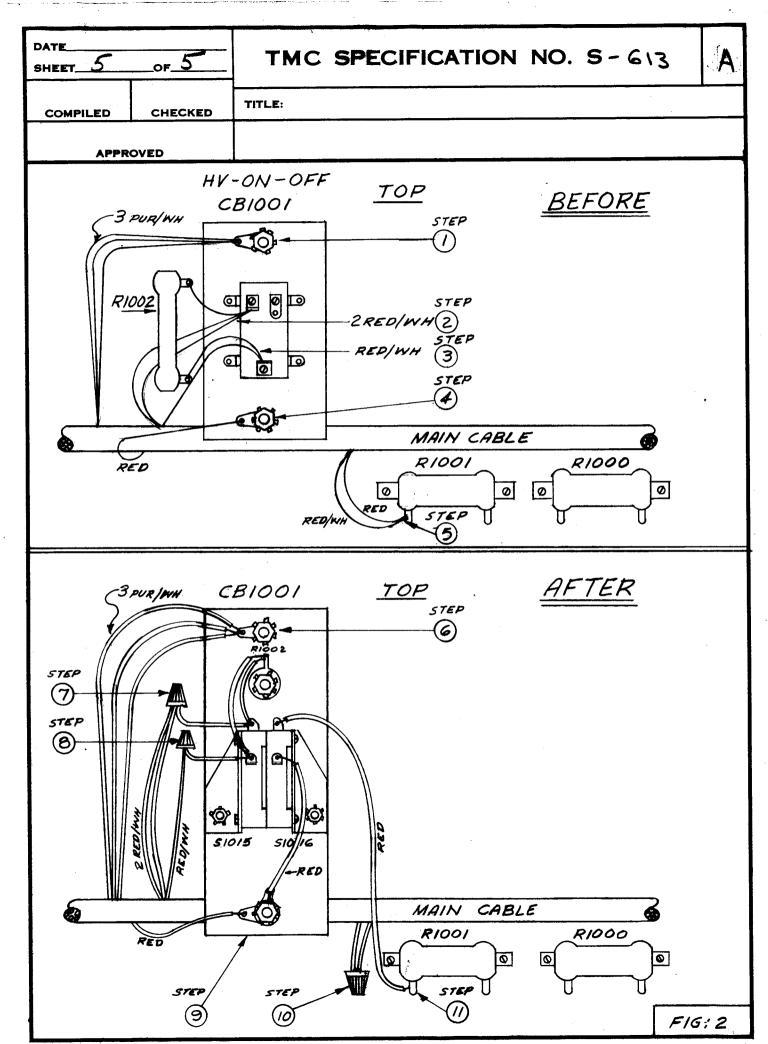
B. Circuit Breaker

- 1. Disconnect all external wiring from AX-104 (driver drawer). Remove AX-104 from transmitter.
- 2. Referring to figure 2, step 1, remove nut holding the three purple/white wires, retain nut, washer and lock washer.
- 3. Referring to figure 2, step 2, cut the two red and white wires, strip 1/2 inch, tie together and mark.
- 4. Referring to figure 2, step 3, cut the red/white lead at the bottom R1002, strip 1/2 inch and mark.
- 5. Referring to figure 2, step 4, remove screw washer, lock washer and retain. Remove the red wire with the lug and leave intact. Remove the phenolic board from CB1001 and discard.
- 6. Referring to figure 2, step 5, cut the red and red/white wire, strip 1/2 inch and twist together. Clear the resistor lug by using a soldering iron.
- 7. Referring to figure 2, step 6, place A-2226 on CB1001, place the three purple/white wires and secure with nut, washer and lock washer taken off in step 1.
- 8. Referring to figure 2, step 7, take the two red/white wires of step 2 and the red/white wire on the top of S1015, twist the three wires together. Insert on the end of three wires, one of item No. 8, NT-121-71B, wire nut.
- 9. Referring to figure 2, step 8, take the red/white wire of step 3 and the red/white wire terminated in the middle of S1015, twist the pair together. Insert on the end of the two wires, one of item No. 8, NT-121-71B, wire nut.
- 10. Referring to figure 2, step 9, place the red wire taken off in step 4 and the red wire terminated in the middle of S1016, place the two wires on the bottom stude and secure with hardware removed in step 4.
- 11. Referring to figure 2, step 10, solder the red wire terminated on the top of S1016 to R1001.



. Drill Two "A" Holes (.203" Dia.) To Accomodate Capacitor Support Brackets.

Fig. 1. Detail of modification to blower mounting chassis.



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REVIS	SION	SHEET	r	THE TECHNICAL MATERIEL CORP. MAMARONECK NEW YORK	S -613		
MODEL	KI7	r-127		PROJECT NO.			
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