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TITLE:	GPT-40K	FORCED	AIR	COOLIN	G MODIE	CATION	- KIT-202					

I. EQUIPMENT AFFECTED

A. All GPT-40K Transmitters.

II. PURPOSE

- A. To utilize an external air supply rather than use the internal air-conditioned air.
- III. It can be determined if this modification has been completed by noting addition of approximately 6-1/4 inch extension on right side of transmitter and duct flanges protruding on top of 2nd, 3rd, and 4th frames.

IV. MATERIALS SUPPLIED IN KIT

ITEM NO.	TMC PART NO.	QTY	DESCRIPTION
1	SW251-2	1	CIRCUIT BREAKER, CB3000
2	CA741-6	1	CBL ASSY, PWR
3	FU102-1.0	1	FUSE, CTG-1A, F3000
4	MWC22/7/U0	5 in.	WIRE, ELEC, INS
5	MS4650	1	DUCT, EXHAUST-10K
6	SCBP1032BN8	88	SCR, MACH
7	FW10HBN	88	WASH., FLAT
8	LWE 1 OMRN	48	WASH., LK, EXT
9	NTH1032BN12	48	NUT, PLN, HEX
10	MS4651	2	DUCT, EXHAUST-40K
11	MS46 7 5	1	SHLD, BASE-10K
12	FS102-1	30	LOCKSPRING
13	SCFP0348BN6	60	SCR, MACH
14	LWS 03MRN	60	WASH., LK, SPLIT
15	NTH0348BN6	60	NUT, PLN, HEX
16	AD103-23	1	FIL, AIR COND

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ITEM NO.	TMC PART NO.	QTY	DESCRIPTION
17	MS4881	1	FRAME, FIL
18	MS2256	3	COV, FIL, BLANK
19	LD2061/MS4654	1	SHLD, R SD, OUTSD
20	MS4654-1	2	BRKT, FIL RETG
21	MS4655	1	DUCT, R SD
22	MS4880	1	PNL, R SD
23	MS4652	11	PNL, TOP-10K
24	MS4653	1	PNL, TOP-40K
25	MS4657	1	BRKT, TIE-DOWN
26	MS4882-1	1	BRKT, TIE-DOWN
27	MS4882-2	1	BRKT, TIE-DOWN
28	NP362-60	1	PLAȚE, MODIF
29	MS 5000	1	PLATE, BLANK, FILTER

V. TOOLS REQUIRED

- A. To be provided by installing activity.
 - 1. Hack Saw
 - 2. Phillips Head Screwdrivers

VI. PROCEDURE (FOR CRATED TRANSMITTERS)

- A. Before installing transmitter per standard instruction book installation, make the following changes.
 - 1. Perform the following changes on the auxiliary exciter frame.
 - 2. Remove transformer TF208, Symbol T3000. (on unsynthesized transmitters) or TF275, Symbol T3002 (on synthesized transmitters), located at the bottom rear of the frame. Discard mounting hardware.

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TITLE: GPT-40K FORCED AIR COOLING MODIFICATION - KIT-262

- 3. Remove two "BX" cables running from transformer to circuit breaker, Symbol CB3000 on center shield assembly and from transformer to AC strip.
- 4. Remove circuit breaker, Symbol CB3000 from center shield assembly and replace with new circuit breaker, Item 1 (SW251-2).
- 5. Add new cable, Item 2 (CA741-6) from circuit breaker to AC strip.
- Remove fuse, Symbol F3000 on center shield assembly and replace with new fuse, Item 3 (FU102-1.0).
- 7. Disconnect top front fan plug, Symbol P3008 and re-wire per Figure 1. Be sure to add jumper wire, Item 4 between Pins B and C.
- 8. Cut off and remove the two "U" channel supports which previously mounted the transformer removed in Step 2. Remove shaded area as shown in Figure 2.
- 9. Perform the following changes on the main 10K PA frame.
- 10. From rear of frame, remove the cable (CA830) running from phase 2 and phase 3 of the input box to the input filter board, Symbols L1003, L1004. A separate 115V input will later be brought in directly to these points on the filter board.
- 11. Perform the following changes on the items indicated.
- 12. The previous steps conclude all of the re-wiring, drilling, etc. required and the remainder of the modification consists only of replacing old parts with new parts while installing transmitter per existing instruction book material.
- 13. When base and shield for first two frames are unpacked and shield is removed from base, discard old shield and replace with new shield, Item 11 (MS4675). Follow installation instructions for further assembly.
- 14. Mount 8 ea fasteners, Item 12 (FS102-1) to new base shield in holes surrounding large rectangular cutout per Figure 3, using hardware, Items 13, 14, and 15.

TMC FORM SPEC 1

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- 15. After mounting shields to bases, positioning frames, bases, and tightening all frame bolts, assemble filter, Item 16 (AD103-23) inside filter frame, Item 17 (MS4881) and install entire assembly into rear of base shield of exciter frame into the fasteners assembled in Step 14.
- 16. The 10K portion top panel, MS1699, normally supplied, will not be used. Replace with new top panel, Item 23 (MS4652).
- 17. Mount new exhaust duct, Item 5 (MS4650) to holes surrounding expanded metal area using hardware, Items 6,7,8, and 9.
- 18. The 40K portion top panel, MS1997, normally supplied, will not be used. Replace with new top panel, Item 24 (MS4653).
- 19. Mount two new exhaust ducts, Item 10 (MS4651) to holes surrounding expanded metal areas using hardware, Items 6,7,8, and 9.
- 20. Assemble the two new top panel assemblies when the installation procedure indicates.
- 21. When it's time to mount the left side panel, MS2117, remove the filter, AD103-1, and the perforated filter cover, MS2255 and replace with 1 each blank filter cover, Item 18 (MS2256).
- 22. When it's time to mount the right side panel, MS2116, do not use panel or perforated filter covers supplied with unit.
- 23. First remove the PS frame (4th frame) right side shield (aluminum) mounted on frame and discard.
- 24. Take the new right side shield, Item 19 (LD2061/MS4654) and assemble six fasteners, Item 12 (FS102-1) to shield in holes provided (per Figure 3) with hardware, Items 13, 14, and 15.
- 25. Remove two air filters from the old right side panel, MS2116, and install them into the two large perforated areas in the new side shield. Retain filters on shield by means of the two retaining brackets, Item 20 (MS4654-1) which mount into fasteners. Refer to Figure 4.
- 26. Assemble resultant right side shield assembly to frame using hardware for old shield. Refer to Figure 4.
- 27. Assemble right side air duct, Item 21 (MS4655) with hardware previously supplied to mount right side panel. Refer to Figure 4.

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- 28. Assemble sixteen fasteners, Item 12 (FS102-1) to new right side panel, Item 22 (MS4880) in holes provided (per Figure 3) with hardware, Items 13, 14, and 15.
- 29. Assemble new right side panel, Item 22 (MS4880) to right side duct with hardware, Items 23 and 24. Also assemble tie-down bracket, Item 25 (MS4657) in bottom row of holes. Refer to Figure 4.
- 30. Assemble new front and rear tie-down brackets, Items 26 and 27 (MS4882-1 and MS4882-2) to front and rear of right side duct with Items 23 and 24. Refer to Figure 4.
- 31. Assemble two blank filter panels, Item 18 (MS2256) to right side panel. Refer to Figure 4.
- 32. Slide out the CPP-2 Power Supply in the first (Aux) frame, (2nd unit from bottom), and remove the top cover. Remove the air filter from the front panel and replace with blank plate, Item 29 (MS5000) with lips facing into unit. Replace top cover, slide unit back in rack, and fasten.
- 33. Finished installation should be as shown in Figure 5.
- 34. Affix modification plate, Item 28 (NP362-60) to front relay panel cover near regular identification plate.

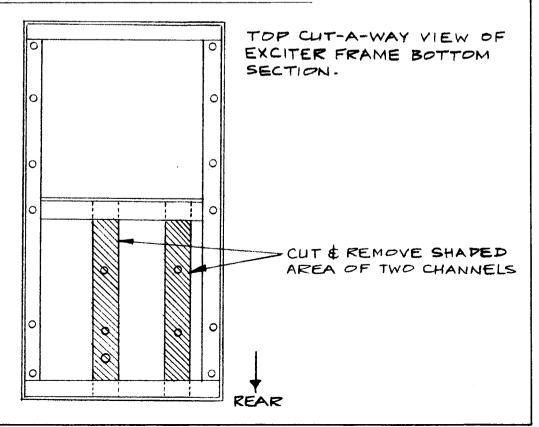
NOTE: This installation shall have no front doors.

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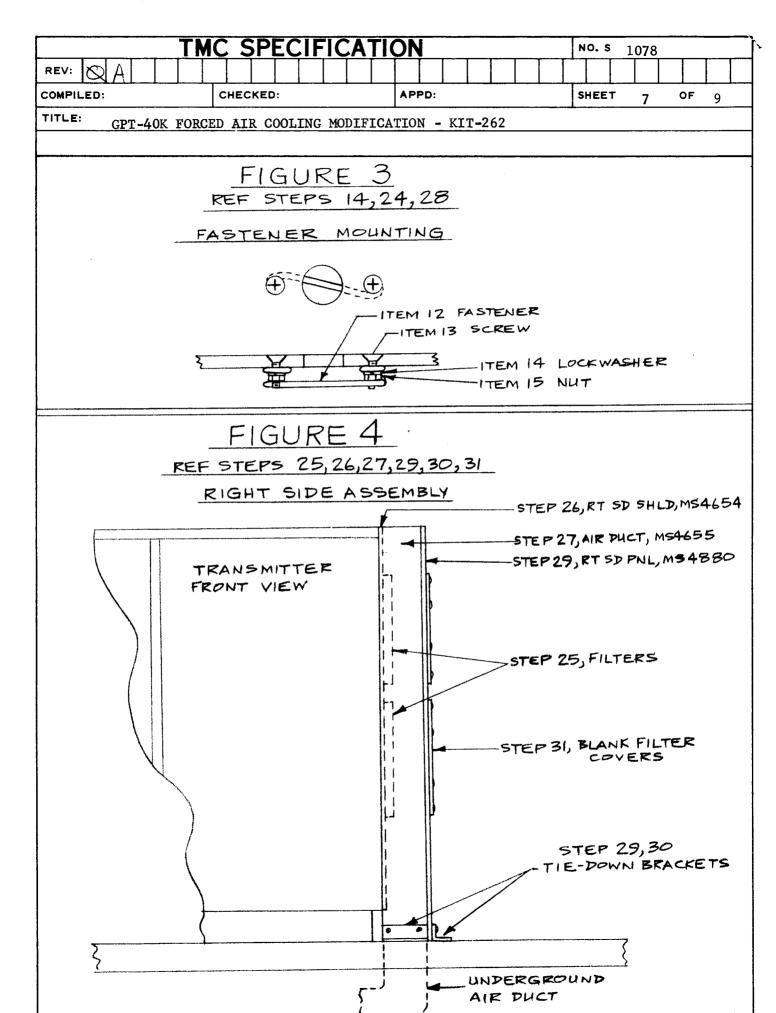
FIGURE 2 REF STEP 8

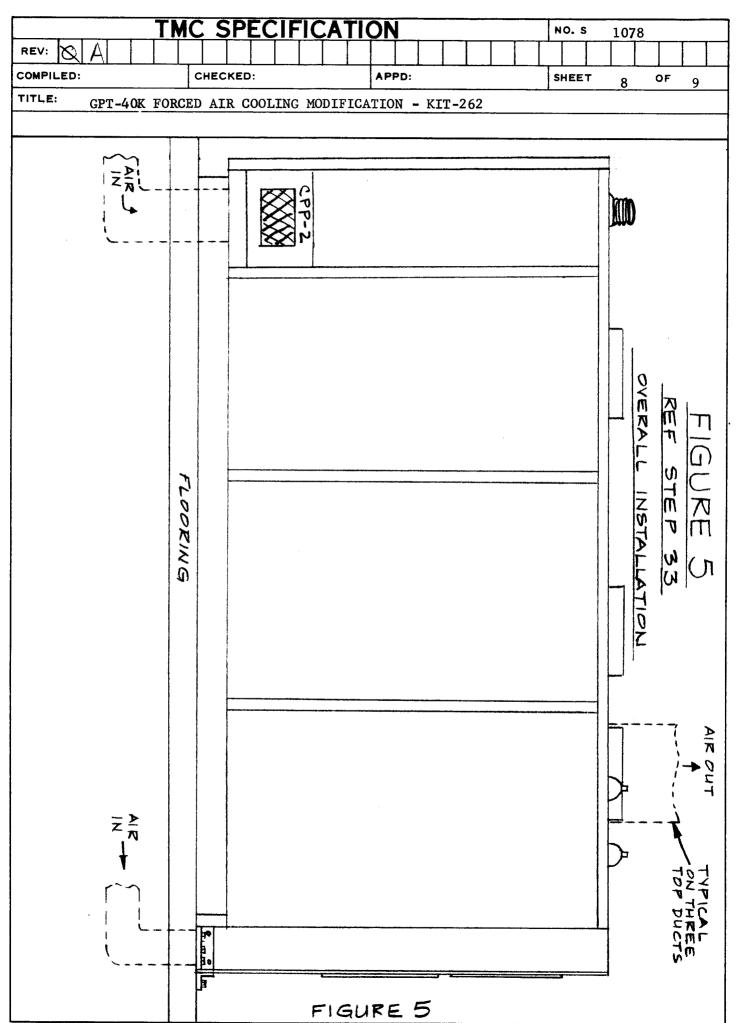
FOR 230 V

REMOVAL OF XFMR MTG CHANNELS



FOR 115 V





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