

DATE: 2/21/62	TMC SPECIFICATION NO. S-629	
SHEET _____ OF _____		
aa COMPILED	L. B. CHECKED	TITLE: ZENER BOARD MODIFICATION GPT-10K, KIT-121
APPROVED <i>[Signature]</i>		

ZENER BOARD
MODIFICATION, GPT-10K, KIT-121

NOTE: THIS SPECIFICATION MUST BE ACCOMPANIED BY
(8 size) DRAWING S-629 (Sheet 3).

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HEET <u>1</u> OF <u>3</u>		
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I. EQUIPMENT AFFECTED

A. GPT-10K, Transmitting Set Radio

II. PURPOSE

A. To protect and increase reliability of zeners.

III. MATERIALS SUPPLIED IN KIT

<u>ITEM</u>	<u>QUAN.</u>	<u>TMC PART</u>	<u>DESCRIPTION</u>
1	5	RC42GF101K	Resistor, Fixed, Composition, 2 Watt, Symbol No. R823,824,825,826,827
2	1	RC42GF221K	Resistor, Fixed, Composition, 2 Watt, Symbol No. R822
3	1	RW-110-43	Resistor, W.W, 100K, 20 Watt, Symbol No. R821
4	1	SCBS0832BN40	Screw, Machine, 8-32 x 2-1/2 Long
5	2	WA-102-5	Washer, Fiber, Shoulder
6	1	FW08HBN	Washer, Flat
7	1	LWE08MRN	Washer, Lock, External
8	1	NTH0832BN10	Nut, Hexagon
9	30 Inches	PX-104-6-.034	Sleeving, Insulation, Blue
10	8 Inches	BS-100	Solder, Resin Core

IV. TOOLS REQUIRED (SUPPLIED BY INSTALLING ACTIVITY)

A. One 35 watt solder iron or equivalent.

B. One long nose pliers.

C. One diagonal cutters.

D. One 6 inch screw driver.

E. One 5/16 pen and or scket wrench.

F. Hand Drill

G. Drill, Twist, 13/64 D.

{ Only if required.

{ See step E. of Procedure

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V. PROCEDURE (REF: SHEET 3 of S-629)

- A. Remove zener board assembly from transmitter to a suitable work bench.
- B. Referring to Figure 1, remove leads; A, B, C, D, E, and F by unsoldering from zeners. Caution: Do not overheat contacts.
- C. Cut eleven 1-3/16 lengths of item #9, PX-104-6-.034, blue sleeving, and slip on both leads of resistors, items #1, RC42GF101K. Take item #2, RC42GF221K and slip a 1-3/16 length on one lead only.
- D. Referring to Figure 2, solder in resistors from step C.
- E. Disregard this step if your assembly has R821 installed. Referring to Figure 2, drill a 13/64 Dia. hole, located as shown, and mount item 3 with hardware, items 4, 5, 6, 7, and 8.
- F. Solder connection to R821. Retrace all steps and check wiring to schematic, Figure 3.
- G. After inspection, reinstall zener board assembly in transmitter.