

# TMC SPECIFICATION

NO. S 1082

REV:

0 A

COMPILED: A. COGGIA

CHECKED:

*WR 3/15/66*

APPD:

*DB [Signature]*

SHEET

1

OF

8

TITLE:

Typed by mtp 3/14/66

GPT-40K PLATE VOLTMETER MODIFICATION

KIT-285

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## I. EQUIPMENT AFFECTED

- a. TMC Model GPT-40K - General Purpose Transmitter.

## II. PURPOSE

- a. To further insulate high voltage leads to plate voltmeter, thereby increasing reliability of equipment involved.

## III. MATERIALS SUPPLIED

<u>Item No.</u>	<u>TMC Part No.</u>	<u>Qty.</u>	<u>Description</u>
1.	A4440	2	Contact Assembly
2.	A4441	1	Contact Block Assembly
3.	TE-156-32945	4	Insulated Terminal Lug
4.	SCBP0632BN6	2	Screw, Machine, Binder
5.	SCBP1032BN16	2	Screw, Machine, Binder
6.	LWEO6MRN	4	Lockwasher, External
7.	NTH0632BN8	2	Nut, Hex
8.	NTH1032BN12	2	Nut, Hex
9.	FW10HBN	2	Washer, Flat
10.	LWS10MRN	2	Washer, Split
11.	CA-845 (print)	1	Sheet 1 & 2 of Cable Dwg.
12.	CA-846 (print)	1	1 Sheet Cable Dwg.
13.	WA-109-56	6	1/2" Fiber Washers
14.	NP362-61	1	Modification Nameplate

## IV. TOOLS REQUIRED

- a. To be provided by installing activity:
  1. Screwdriver (Phillips) (Blade)

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## IV. TOOLS REQUIRED - Cont'd

- a. 2. Wrench 1/4
- 3. Wrench 3/8
- 4. Wrench 3/4
- 5. Solder
- 6. Soldering Iron
- b. TO BE SUPPLIED BY TMC
  - 1. Drill 3/8 1/4" shank
  - 2. Drill 1/4
  - 3. Drill 15/64
  - 4. Chassis Punch 1/2" Dia. (TMC No. TP113RO-1/2)
  - 5. Chassis Punch 3/4" Dia. (TMC No. TP113RO-3/4)

## V. PROCEDURE

- a. Turn off all power to transmitter.
- b. Open front and rear doors (if required).
- c. Remove antenna tuner drawer (AT-106).
- d. For split plates and mounting rectangular connector, refer to Drilling Plan A; Make certain cabling is clear, proceed to drill holes with required tools.
- e. Place antenna tuner drawer in stable location, with rear of drawer placed with rectangular connector to left. Proceed to remove box shield held by two (2) flathead screws. Refer to Drilling Plan B, and make certain cabling is clear. Proceed to drill holes with required tools.

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V. PROCEDURE - Cont'df. Rear of Power Supply Frame.

1. Clean all metal filings and dress drilled holes.
2. Refer to CA-845 (Sheet 2) J8103 portion, and determine most suitable manner to remove leads from Pins 12 and 13. Strip sufficiently to expose above leads in order to unsolder leads from pins.
3. Re-tin leads and crimp lugs (TE-156-32945) to same.

g. Mount contact block assembly (Item 2 - A4441) to holes drilled per Step 'd' with #10 hardware supplied as Items 5, 8, 9 and 10. Redress cable.

h. Refer to Schematic (Fig. 1 of this instruction). Connect WH/RED lead to E8121 and TAN lead to E8122.

i. Rectangular Connector (Rear of Antenna Tuner Drawer)

1. Clean metal filings and dress drilled holes.
  2. Remove leads from Pins 12 and 13 (refer CA-846) and follow pertinent portions of Step 'f' above.
- j. Insert 1 each contact assembly (A4440) per Step 'e' above.

CAUTION: When using Item 13, 1/2" I.D. washers, make certain of suitable contact arrangement.

Refer to Schematic, Figure 1. Connect WH/RED lead to E8214, and TAN lead (B-) to E8215, with #6 hardware supplied as Items 4, 6 and 7.

k. Check continuity by ohmmeter or other suitable means. Prepare to place equipment in operating condition.

l. Affix modification nameplate, Item 14, to rear of antenna tuner drawer.

m. Modification is complete with foregoing steps. Equipment should be operational.

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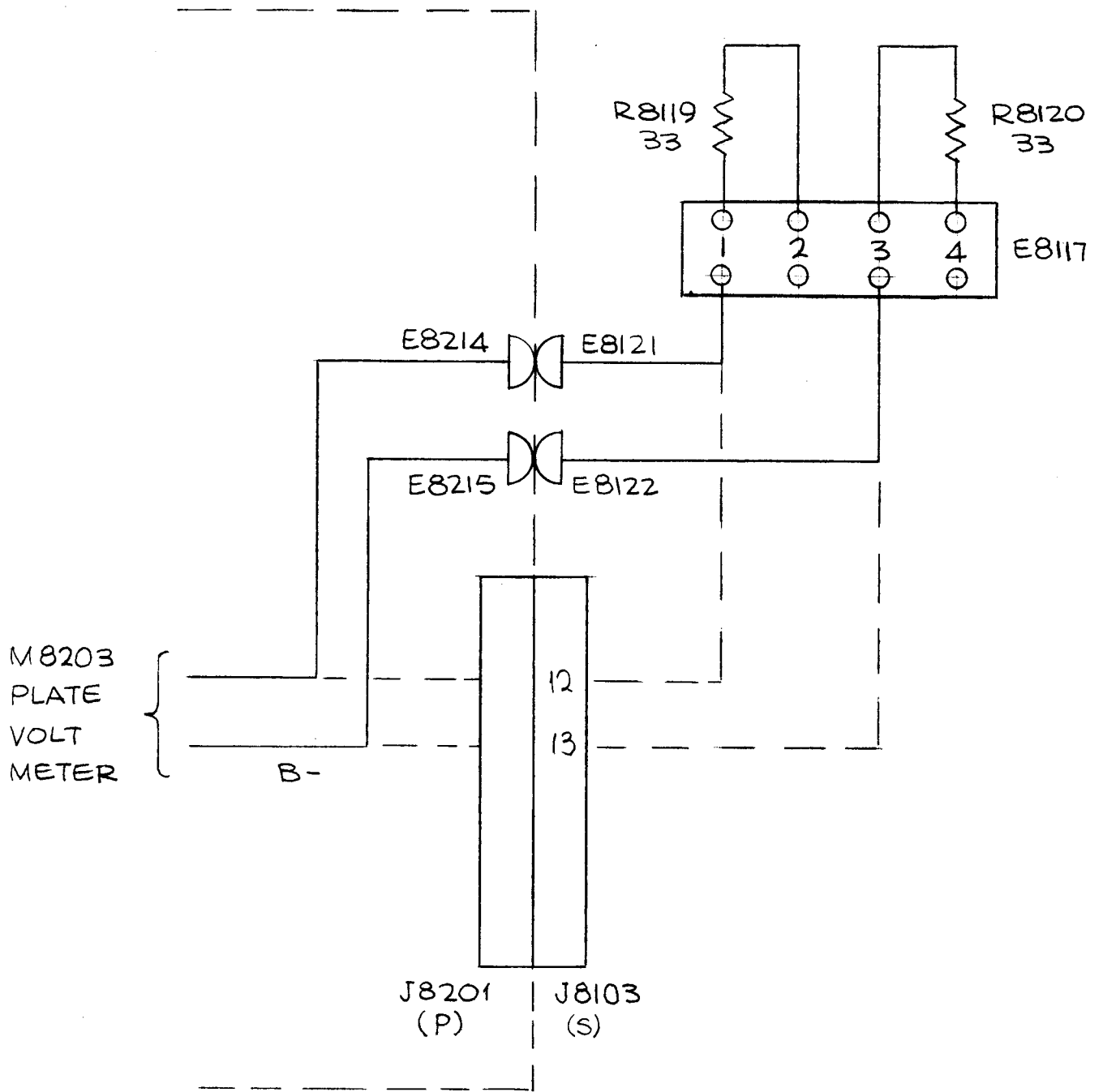
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FIGURE 1



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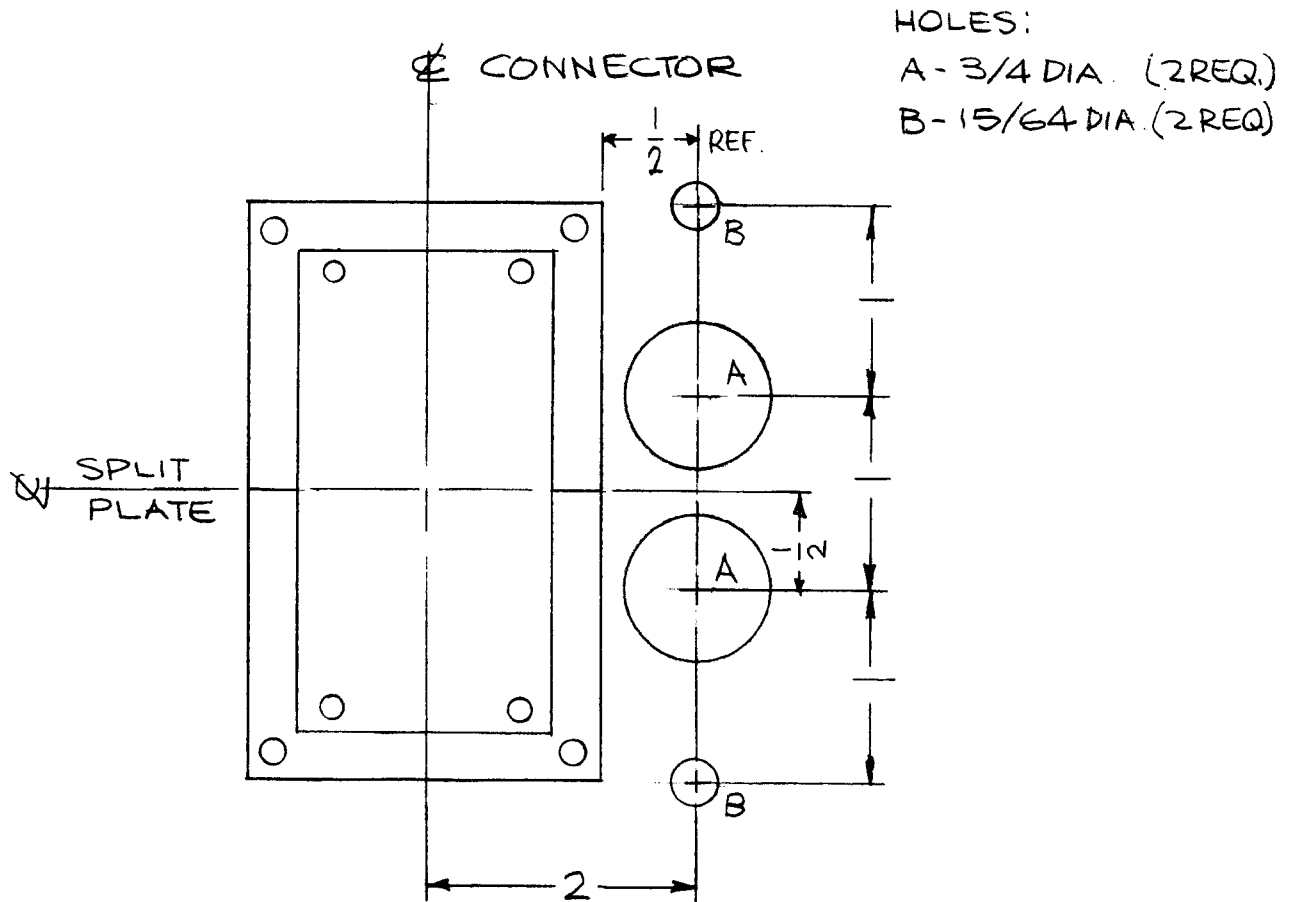
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DRILLING PLAN A -

INTERIOR OF ANTENNA TUNER COMPARTMENT, CONNECTOR TO LOWER RIGHT.



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## DRILLING PLAN B -

REAR OF ANTENNA TUNER DRAWER, CONNECTOR TO LOWER LEFT.

