

KIT-232B
S1083

TMC SPECIFICATION

NO. S 1083

REV: Q A B C D E

COMPILED: AD

CHECKED:

APPD: *[Signature]*

SHEET 1 OF 15

TITLE:

Typed by mtp 3/15/66

MODIFICATION KIT-232B (Part I)
FOR
IMPROVEMENT OF RELIABILITY
OF
PSP-350A POWER SUPPLY

TMC SPECIFICATION

NO. S 1083

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TITLE: MODIFICATION KIT-232B FOR PSP-350A POWER SUPPLY

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PART I

E. PROCEDURE - Cont'd

9. Connect Item #5, ten inch RED lead (CA-377-12) with lug from resistor R-113 and C-105. Replace nut on C-105, and tighten.
10. Remove Wires from Pins 11 and 13 of T-101.
11. Remove wire connected between terminal 12 of T-101 and L-103 (CA-377-3) and discard.
12. Remove top cover of PSP-350A and take out rectifier tubes 866-A & 5R4GY.
13. With rectifiers removed, drop rectifier sub-assembly (phenolic) by removing four (4) corner screws on bottom and unsolder filament cable (CA-10138). Discard cable CA-10138.
14. Solder a short jumper of #16 tinned wire (Item #7) between terminals 1 and 4 of tube sockets XV-103 & XV-104.
15. Solder one end of Item #6, 12" Red HV lead (CA-377-10) from Pin 1 or 4 of HV rectifier socket to L-103. Replace sub-assembly (ref. Fig. 3).
16. Remove remaining HV lead from end of R105. Remove other end from R113.
17. Remove two wires connected to other end of R105. One of these wires runs to the top of R107. Remove it from R107 and connect the Violet wire removed from R105 in its place. See pictorial.
18. Remove R105 and its associated mounting brackets saving the mounting hardware.
- 18.1 Drill a 3/8 dia hole with item 11.1 in main chassis near slot as indicated on drilling plan (Figure 1A, Sheet 5) and place grommet, item 12.1 (EY102-20) in the 3/8 dia hole.
19. Using the same mounting hardware, mount the new A4445 resistor assembly (Item 13) in its place. Run the longer of the two HV leads thru Item 12.1 just placed in chassis.
20. Connect the shorter of the two HV leads to R113.
21. Connect the longer one to the top of R107. Dress the lead as in the pictorial.
22. Install new solid state rectifiers; DD-127 (C699 - Item #4) in sockets XV103 and XV104 which held 866-A, and 1N1239 (Item #3) in 5R4GY socket XV101.
23. Re-stamp: V101 to read CR102
V103 to read CR103
V104 to read CR104
Stamp R120 - R121 directly below the resistors concerned (see Fig. #3) using Items 8 thru 11.

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PART I

E. PROCEDURE - Cont'd

24. Replace top and bottom covers.
25. Affix Modification Nameplate sticker, Item #12 (NP-362-63) on back of PSP-350A, and alongside of manufacturers number.
26. Check wiring per Schematic Diagram CK967 (Item #14)
27. Test per Test Specification S-373 (Item #15).

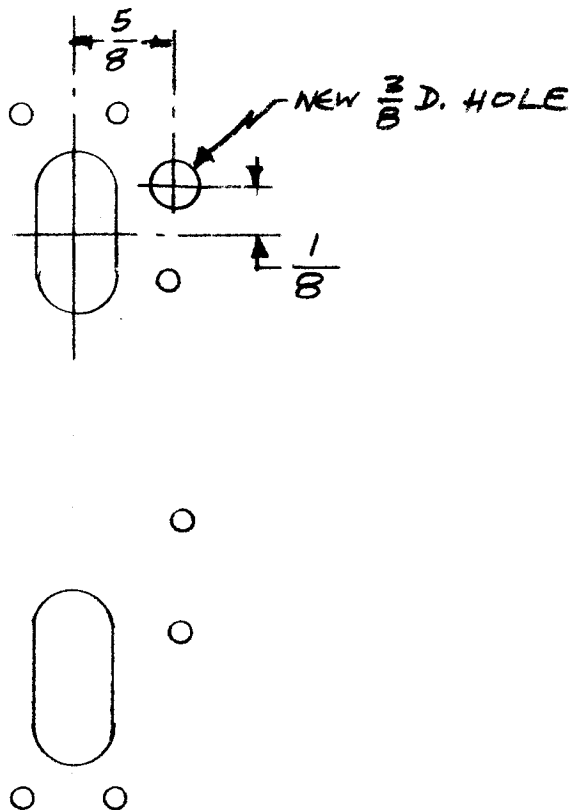


FIGURE 1A

TMC SPECIFICATION

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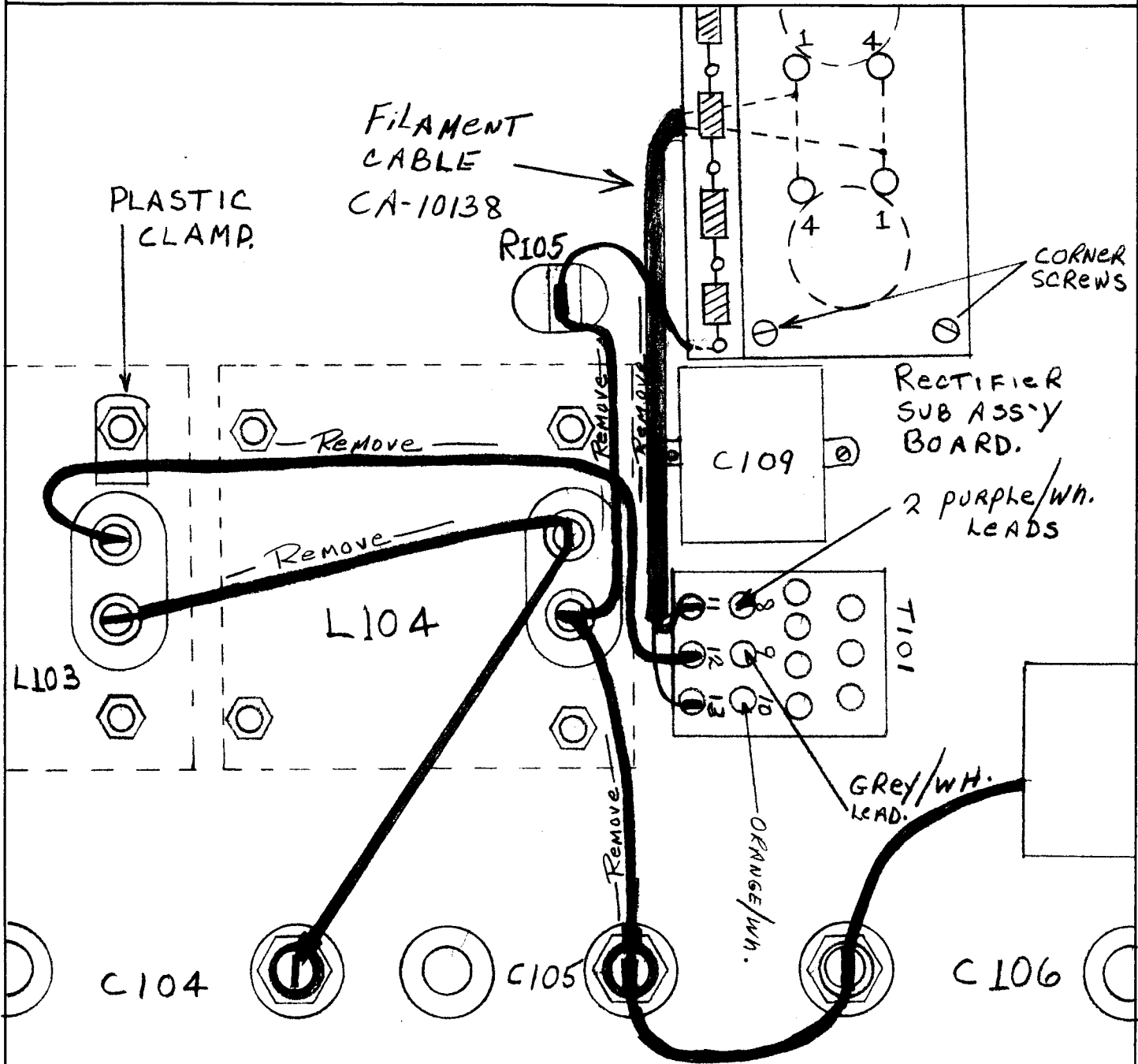


FIGURE - 2.

"BEFORE MODIFICATION"

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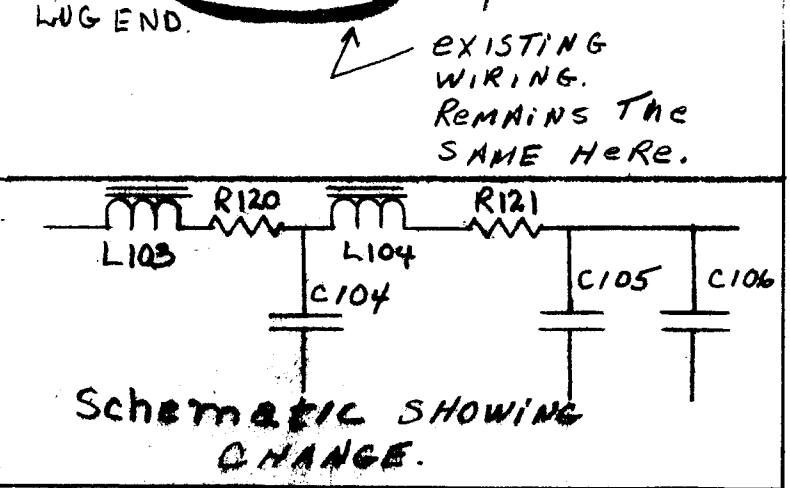
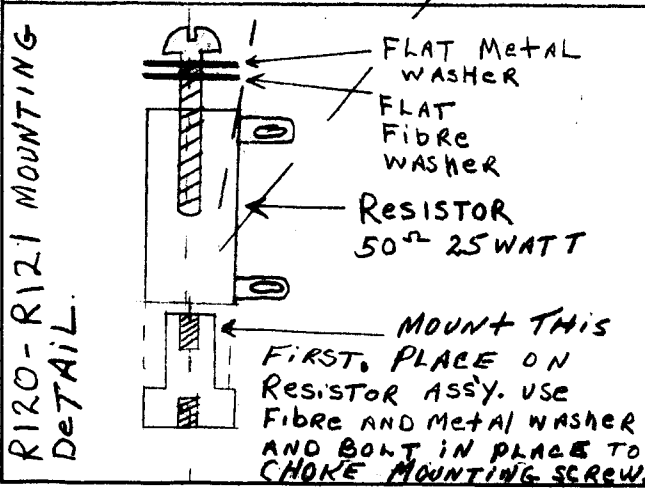
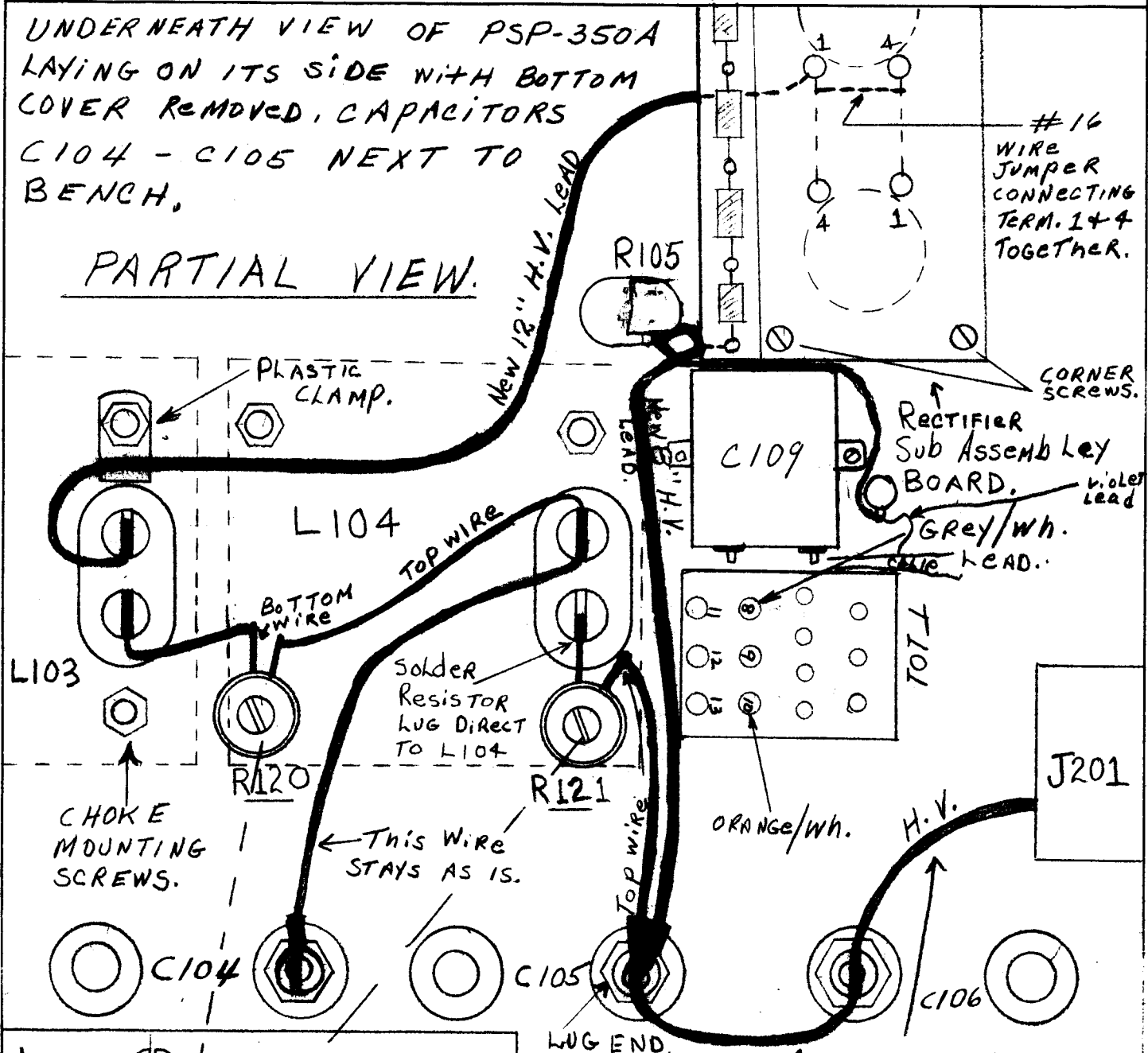
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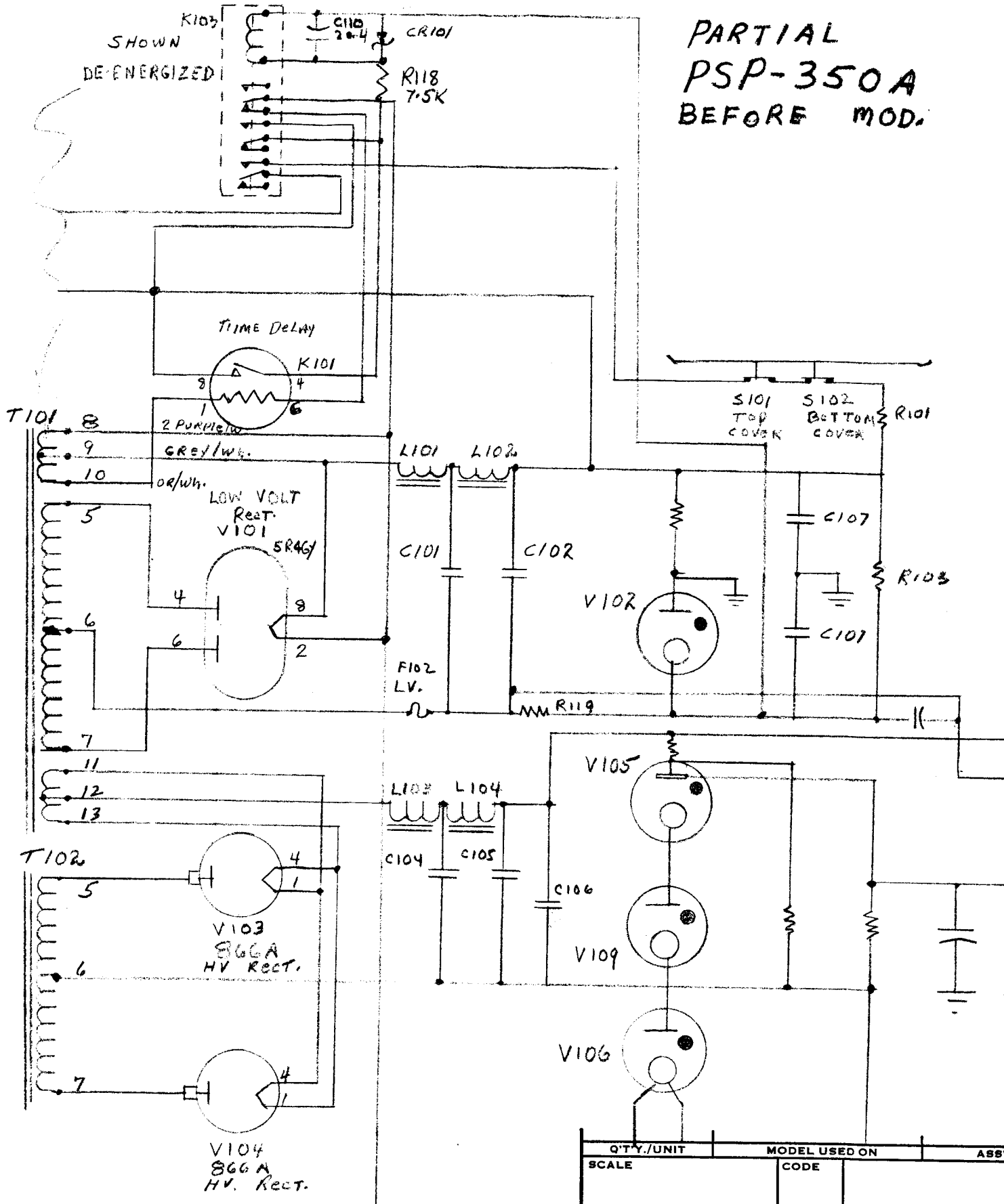
AFTER MODIFICATION

UNDERNEATH VIEW OF PSP-350A LAYING ON ITS SIDE WITH BOTTOM COVER REMOVED. CAPACITORS C104 - C106 NEXT TO BENCH.

PARTIAL VIEW.



PARTIAL
PSP-350A
BEFORE MOD.

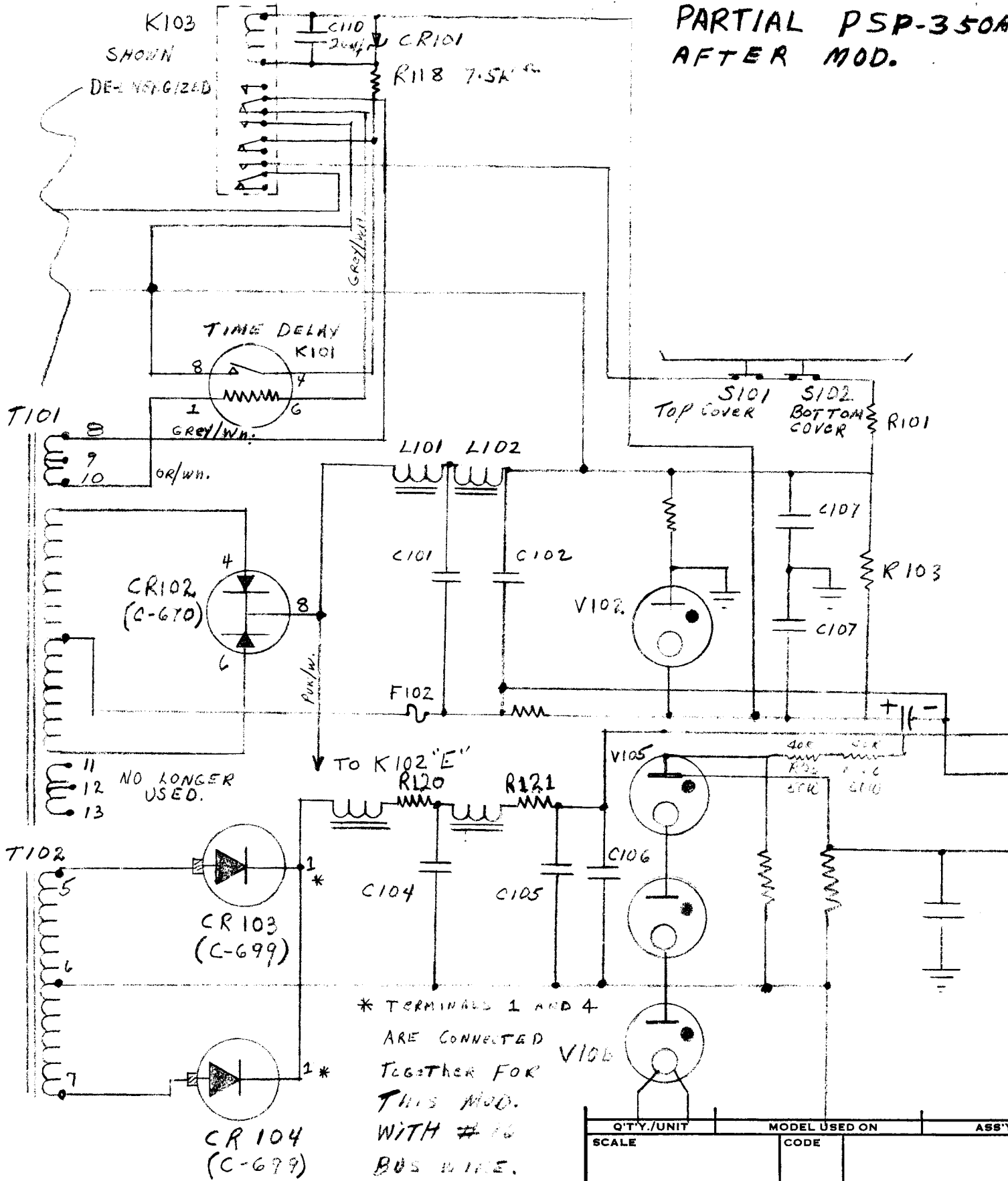


NOTES

QTY./UNIT	MODEL USED ON	ASSY
SCALE	CODE	

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PARTIAL PSP-350A
AFTER MOD.



NOTES

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SCALE	CODE	

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TITLE:

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MODIFICATION KIT-232B (Part II)

FOR

IMPROVEMENT OF RELIABILITY

OF

RFA-1 POWER AMPLIFIER

TMC SPECIFICATION

NO. S-1083

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OF

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PART II

D. PROCEDURE - Cont'd

2. Mount DPST Toggle Switch (Item #1) in 1/2" hole drilled next to fuse holder XF-201 with the OFF side facing XF-201 (See Figure 1). Using rubber stamp (Item #18) stamp "ON" position of switch SSB and "OFF" position CW. Stamp switch symbol S206 using Item #19 directly above CW/SSB.
3. Drill a 3/16" hole in line with C261, 1/2" from corner. Insert grommet (Item #11) in hole.
4. Locate R-215, a 22K 1 watt resistor nearest blower exhaust, and unsolder from ground end.
5. Drill a 1/8" hole 3/4" from rear lip, midway between FIL ADJ and V204 BIAS pots. Install stand/off insulator, TE-102-2 (Item #5) with 0440 screw (Item #4). Glyptal base of insulator. Solder loose end of R-215 to stand/off.
6. Run Yellow wire (Item #6) from bottom "OFF" terminal (nearest to XF201) of DPST switch S206, through grommet and connect to R215, the end which ties to stand/off insulator (ref. to Figure 2).
7. Connect a 47K ohm 1 watt resistor, (Item #2), from the ground lug formerly used by R-215, to the stand/off insulator. Solder.
8. Connect the bottom "ON" side of the DPST switch (S206) to ground lug with a Black wire (Item #8).
9. Remove the lead from C-260 which connects to R227 (determine which of the two wires is correct with and ohmmeter). Splice together with a 13" piece of Yellow/White lead, (Item #7), and solder. Slide over connection a 2" piece of Black sleeving.
10. Solder other end of wire to the "ON" side of DPST switch which has no wire on it.
11. Connect the second Yellow/White lead (Item #7) between remaining DPST switch contact, ("OFF" side), and C-260.
12. Remove jumper between R-227 and R-220 (jumper is on underside of board).
13. Connect a 6" Yellow/White wire (Item #9) between the end of R-220 from which jumper was removed, to C-260. Dress new wiring along main cable and tie in place avoiding "S" clip and microswitch plunger. Replace terminal board.
14. Change CR-204 and CR-205 from 1N67 to 1N645A (Item #3). Use heat sink, stress relief and observe original polarity.

