

DATE 9/14/56  
SH. 1 OF 6

TMC SPECIFICATION NO. S-305

COMPILED BY

*D. J. Matyja*

TITLE: GPR INTERFERENCE FILTER KIT

JOB 594

APPROVED

*AJJ*

Page Issue A

This filter kit is designed for use in locations where the GPR receiver must be operated close to powerful interfering stations.

The kit contains a special filter which directly replaces the standard filter in your set and an extra switch wafer that connects the proper filter section for each band.

The new filter mounts exactly where the standard filter is now situated, while the extra wafer mounts behind the last wafer of the present band switch.

When installing the new filter it is important to use the right mechanical sequence if the job is to be done in the shortest possible time; it is therefore suggested that the following step-by-step instructions be closely followed.

STEP-BY-STEP INSTRUCTIONS FOR MODIFICATION OF GPR

1. Place band switch in .54-1.4 Mc position and remove bottom cover.
2. Remove 1.8 Mc. filter by removing the filter screw in RF sub-assembly with a right angle screwdriver or similar tool. (See Fig. 1A)
3. Cut the purple wire close to the filter board. ( See Fig. 1B)
4. Cut the two green wires as far from the terminal board as possible, namely, at pin 7 of V1 and pin 7 of S1A, as shown in figure 1 B.
5. With S1<sub>AA</sub> (new wafer) in the position shown in Fig. 2 place one of the new long screws in the top hole and add a spacer as shown in Fig. 2.
6. By means of the hole in the back chassis apron and a 3/16 inch socket wrench remove the loose stud holding S1<sub>A</sub>, B and C together, being sure to hold one finger on the back nut at the other end of the stud so it will not fall to the bottom of the chassis. While doing this, keep a thumb on the first switch to prevent the spacers between the switches from falling out of place. If this is done correctly the whole job becomes easy. See Fig. 2A
7. Now place the new wafer in front of S1<sub>A</sub> as shown in the superimposition of Fig. 1A. Be sure the shaft is through the center hole of the wafer and notch points at TR-116. (tighten plated screw.)
8. Repeat the previous sequence with the bottom screw.
9. Connect C<sub>138</sub> (the condenser hanging on Pin 21 of the terminal strip) to pin 12 S1<sub>AA</sub> rear. (See Fig. 3.)
10. Connect the violet leads from TR116 and from the terminal board, pin 17 to pin 1 S1<sub>AA</sub> rear. (See Fig. 3.)
11. Connect the blue lead from pin 12 of the terminal board to pin 5 S1<sub>AA</sub> front. (See Fig. 3.)

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(continued)

12. Connect the yellow lead from pin 10 of the terminal board to pin 9  $Sl_{AA}$  front.  
(See Fig. 3.)
13. Connect the red lead from pin 4 of the terminal board to pin 7 of the  $V_1$  tube socket located on the main chassis. (See Fig. 3.)
14. Connect pin 11 of  $Sl_A$  front to pin 11 of  $Sl_{AA}$  rear. (See Fig. 3A)
15. Replace bottom cover plates.

No realignment of the receiver is necessary, therefore, normal operation may be resumed immediately.

### ITEMS SUPPLIED IN KIT

<u>DESCRIPTION</u>	<u>TMC Part Nos.</u>
One terminal board assembly	(A-1347)
One switch wafer sub-assembly	(A-1348)
Two 5/16 spacers	(PM-346)
Two 5-40 x 2 1/16 cadmium plated machine screws	(SCRS0540BC33)
Installation instructions	(S-305)

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TMC

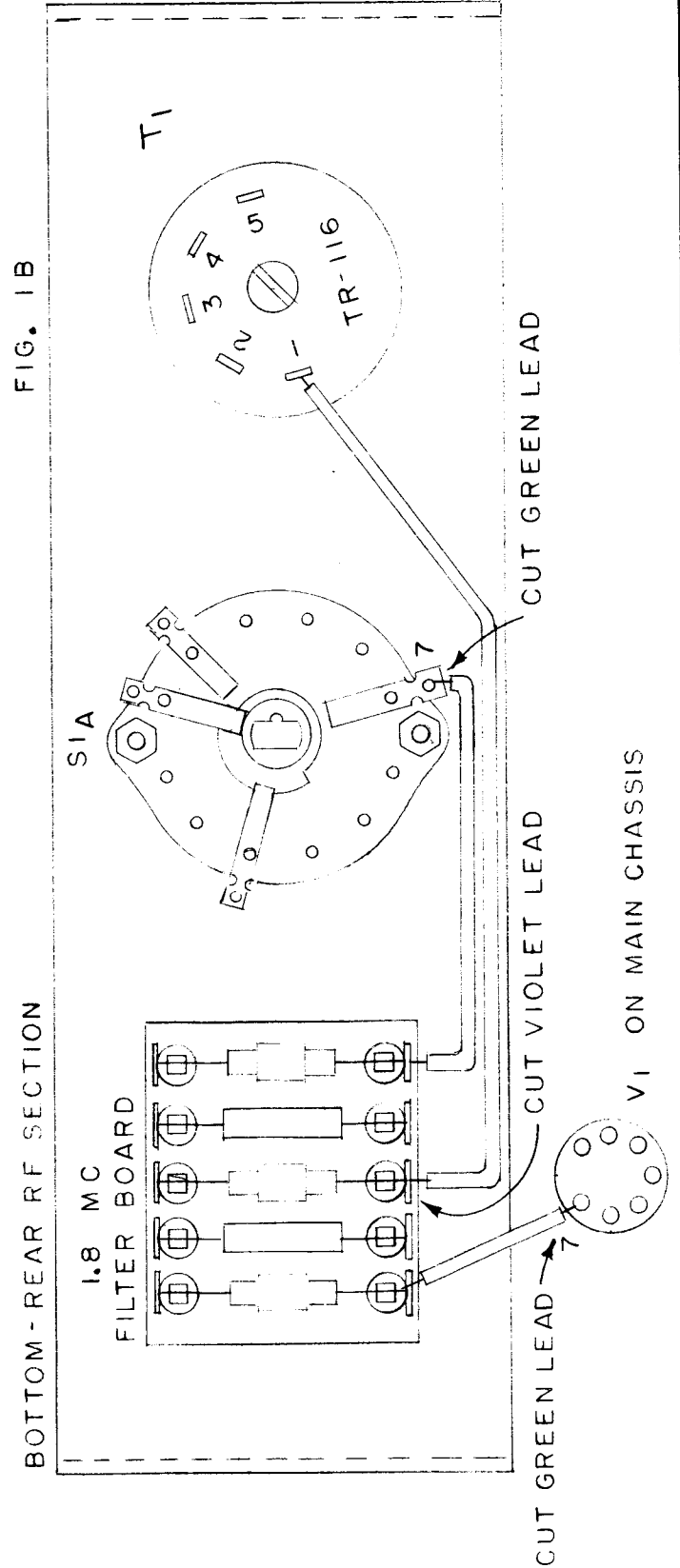
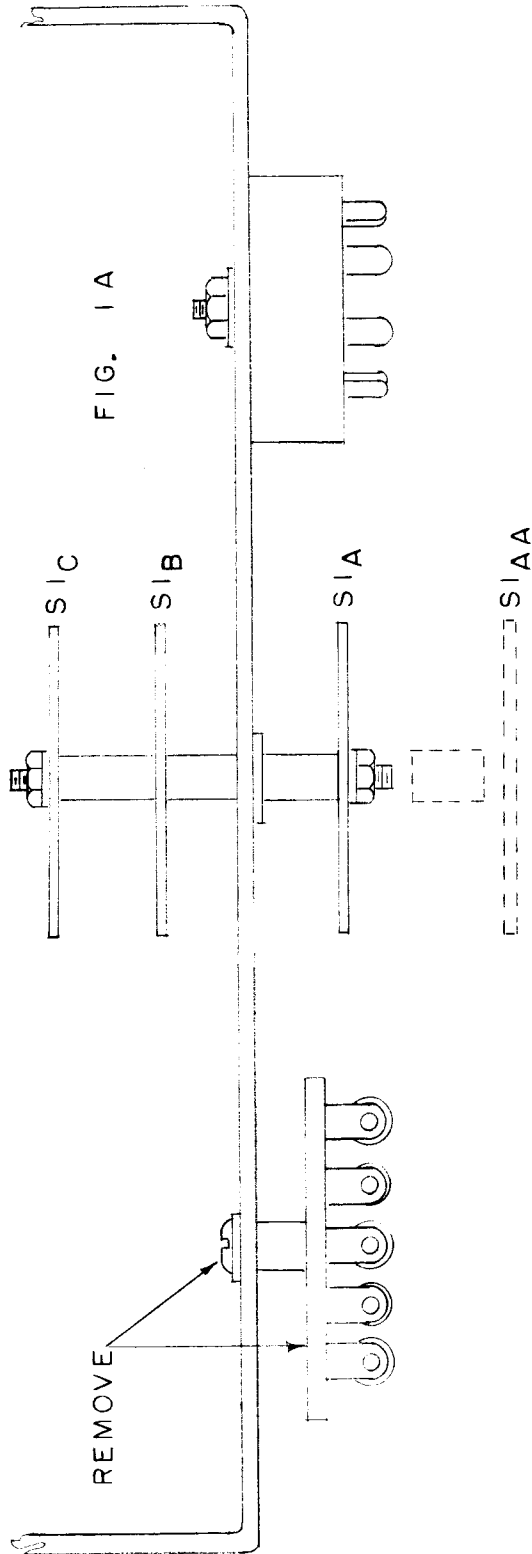
SPECIFICATION NO. S-305

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*D. J. [Signature]*  
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TITLE: GDR INTERFERENCE FILTER KIT

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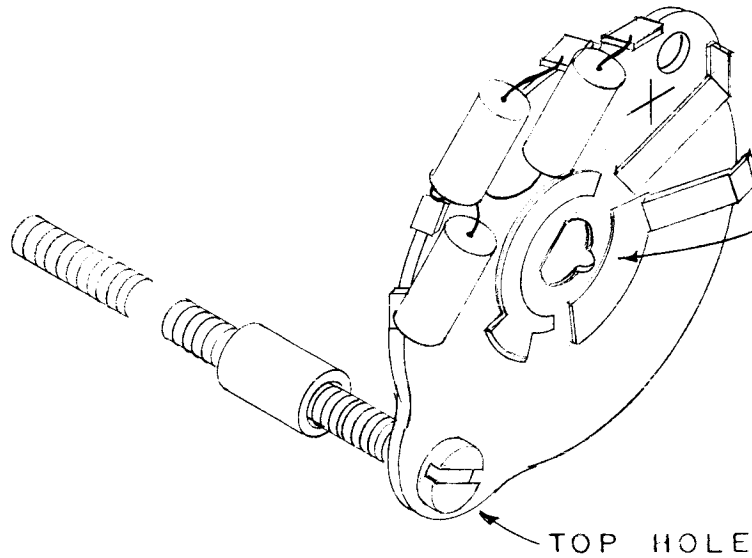


FIG. 2

NOTE POSITION OF INDICATOR NOTCH

TOP HOLE

MAINTAIN PRESSURE HERE WHILE STUD IS OUT OF SWITCH

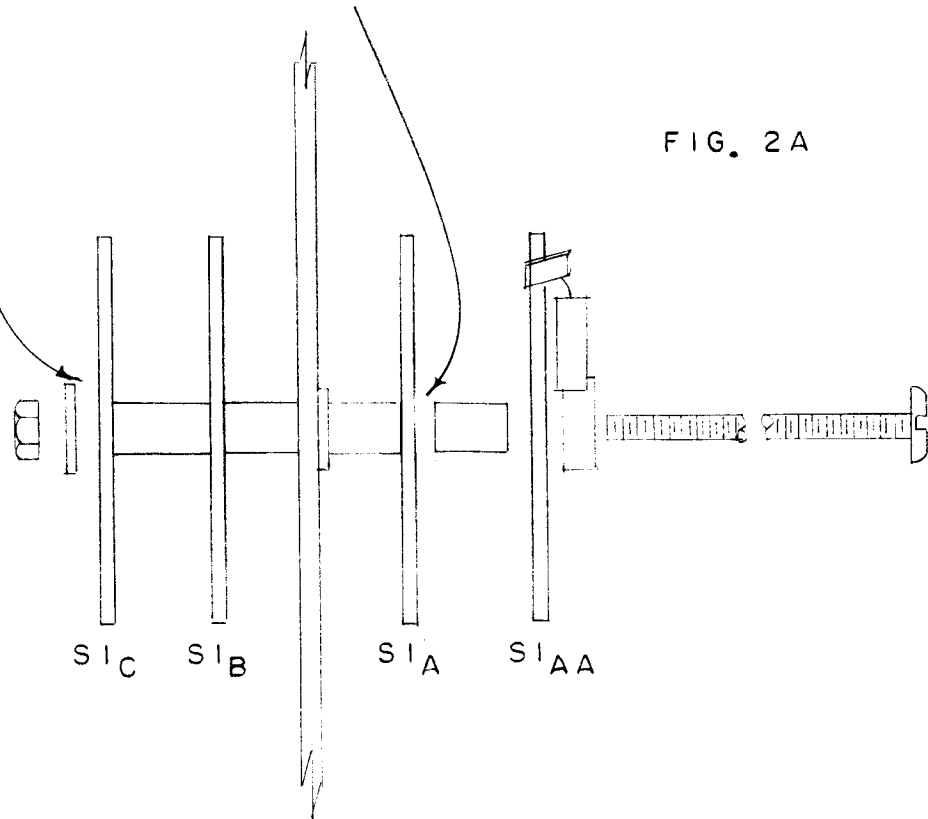


FIG. 2A

S1C

S1B

S1A

S1AA

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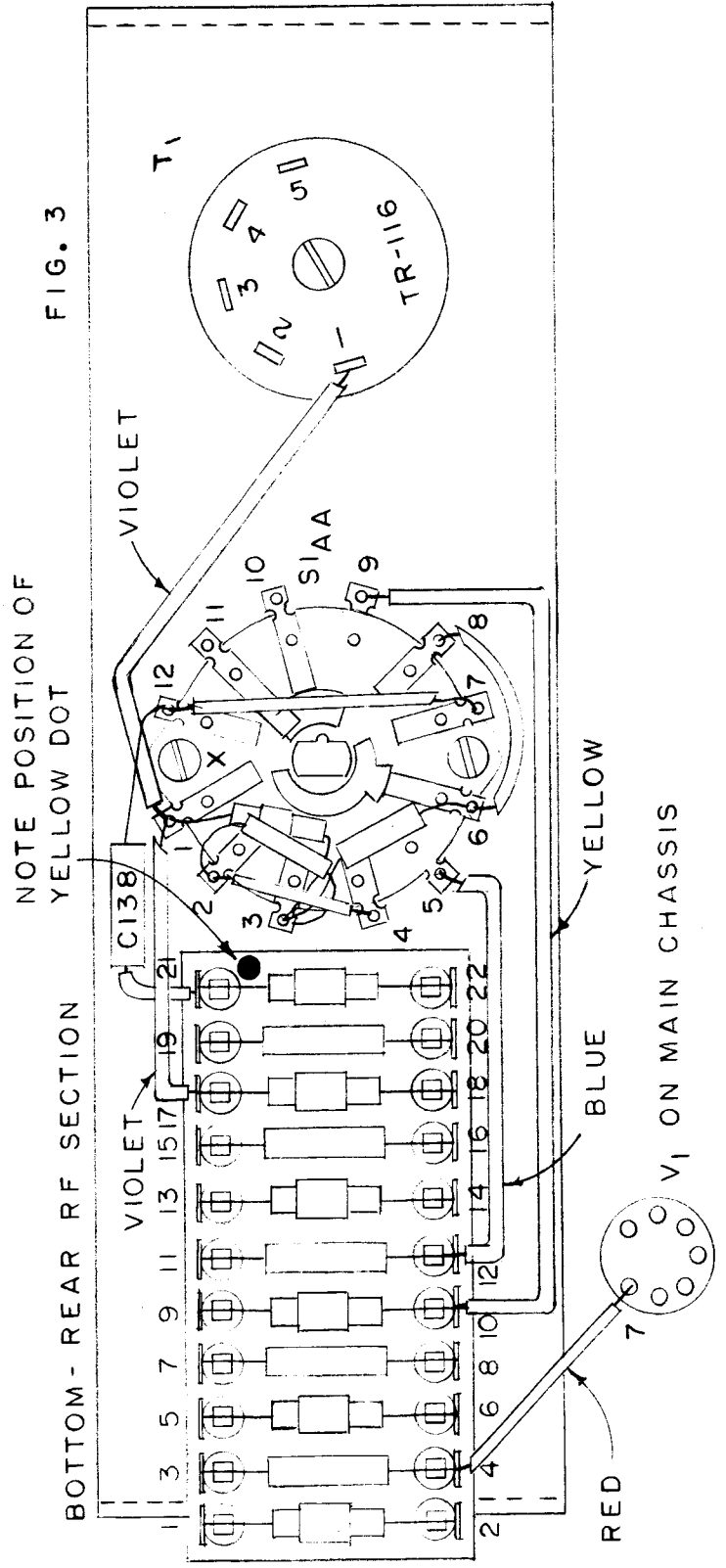
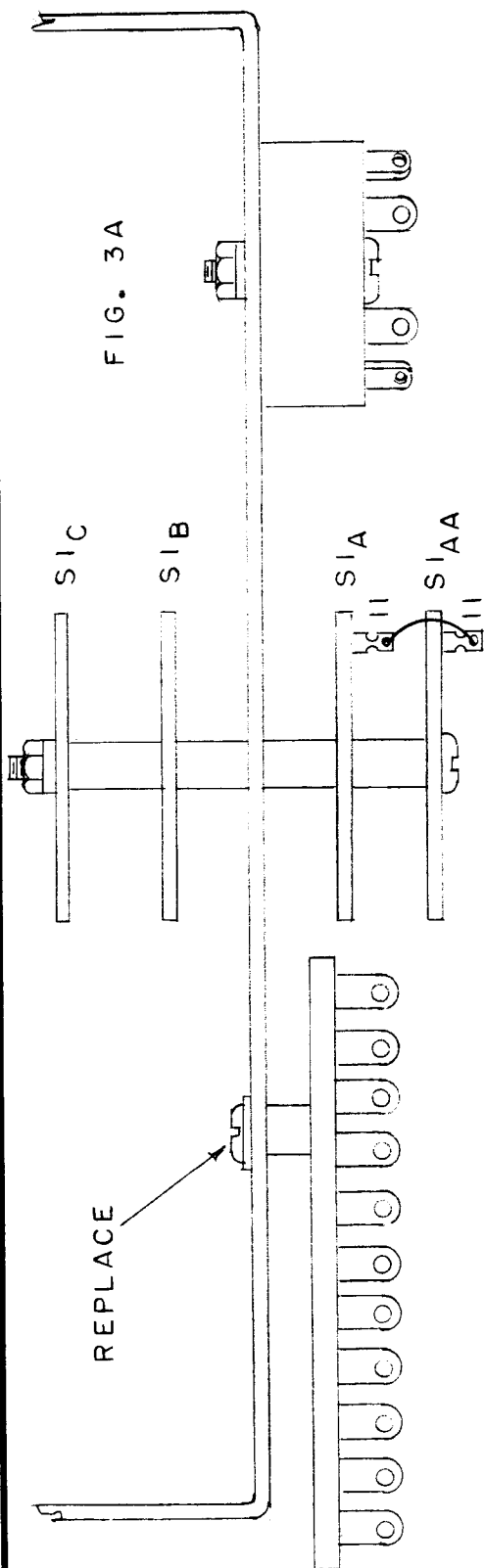
*D. Hunt*

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S. G.

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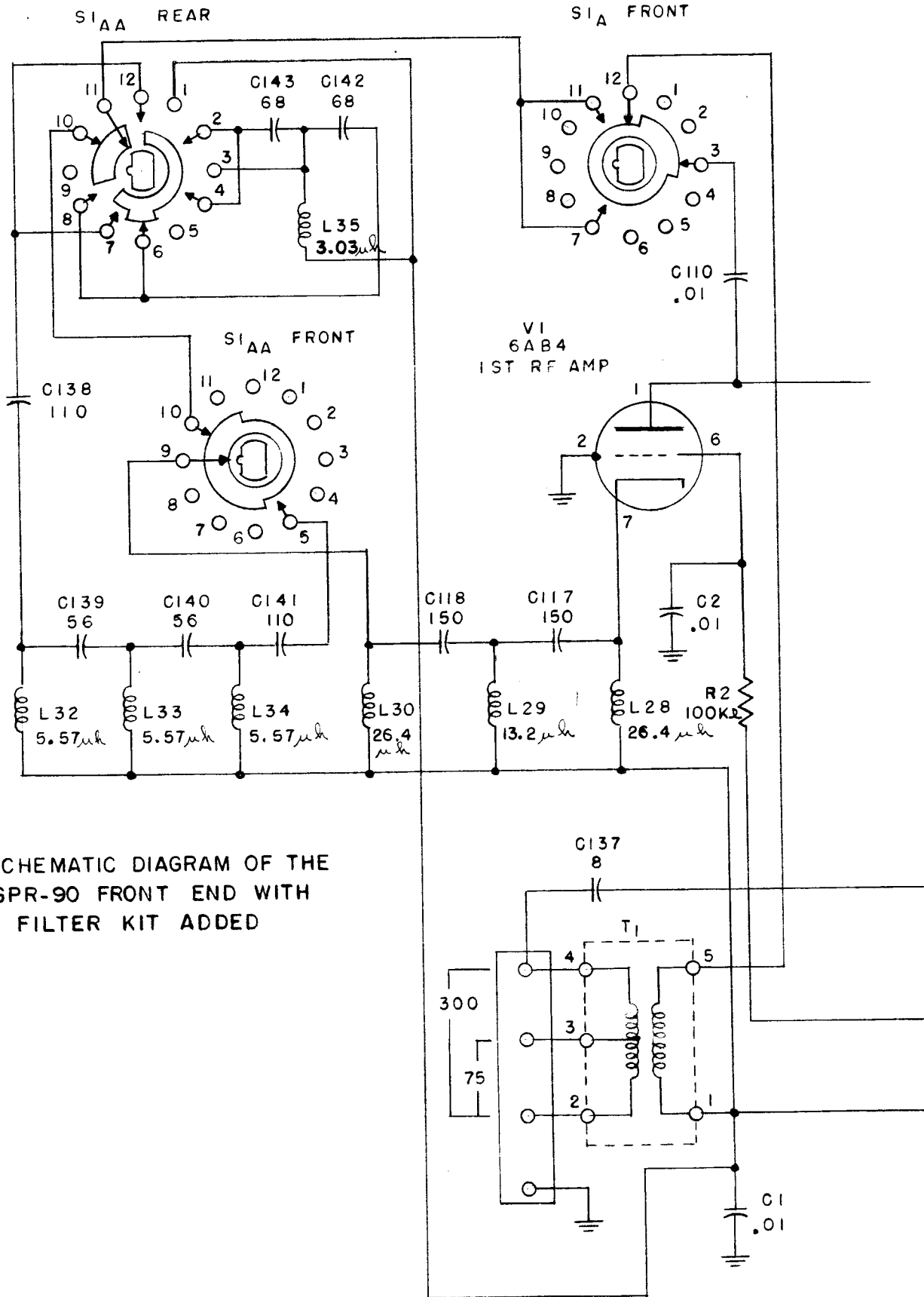
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SCHEMATIC DIAGRAM OF THE  
GPR-90 FRONT END WITH  
FILTER KIT ADDED

