

TMC SPECIFICATION

NO. S 1180

REV:

COMPILED:

D. Costantino

CHECKED:

[Signature]

APPD:

[Signature]

SHEET

1

OF

4

TITLE:

GPT 200K RF Cable Filter Modification

3/25/67 typed by D. Costantino

RF Cable Filter Modification

TMC SPECIFICATION

NO. 5 1180

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SHEET 2

OF 4

TITLE:

RF Cabl Filt r Modification

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The purpose of the installation of this modification is to suppress any signs of RF which may become impressed upon components in the PA final amplifier compartment of the 200K.

Following material is furnished:-

- 1- TMC P/N LD-1591/MS3995
- 1- TMC P/N LD-1592/MS3996
- 1- Cable TMC P/N CA-926
- 6- Chokes, A-2429
- 17- Capacitors, TMC P/N CC-109-38

The following procedure is to be followed in the installation of this modification.

1. Refer to Fig. 3-6, page 3-15 of Volume IV Maintenance Instructions GPT-200K, (1N-321).

2. Open rear doors of PA final compartment of 200K, and remove PA compartment back shield.

3. Remove bottom rear cover under the final tank compartment doors so as to expose frame angle brackets.

4. Remove covers of B plus channels leaving from Plate D coupling Network box (L5304-L5309), (reference fig 3-6 in step 1.) to the bottom of the B plus channel run. (Only two covers to be removed). (Top & Side).

5. Lay in new furnished Cable Ca-926 in B plus channel. Start from vicinity of top PA Fan (B5304), lay out connecting wires to airswitch interlock and power of B5304, leads for Output bandswitch release solenoid (L5317) and down to shorting relay (K5301). Bring remainder of cable down to vicinity of pending installation of RF Filter Box (MS-3995).

6. Carefully check present cable run coming from, under PA final compartment, up to shorting relay (K5301), L5317, and to interlock and connections to Pa top fan B5304.

7. See drawing figure one enclosed, the RF filter box (MS3995) is going to be installed between the frame braces of the bottom of the PA final compartment on the left lower area as seen from the rear. This box can be partially seen in fig 3-6 as mentioned in Step 1.

8. Cut the existing cable (see fig 1 drawing) be certain of leaving enough lead length so as to be able to stagger the connections of cut wires as shown in drawing of figure 1., to components of the RF Filter Box. (MS-3995).

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TITLE: RF Filter Box Modification

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typed by D. CostantinoC Continued:

9. Assemble capacitors in the RF filter box as furnished. Keep remainder of capacitors on hand for installation at another part of the transmitter. (6 capacitors CC-109-38 should be left over).

10. Install the RF filter Box between the frame braces under the left rear side below the PA final compartment. (refer step 1).

11. Drill and tap holes so as to install MS3995 as desired to be located between the PA frame braces. Check size of holes in the outer lips of the RF filter box for correct drill size and holes to be tapped.

12. Following along the lay of wires already cut from the existing cable, pull this cable through the hole already existing in the new RF filter Box, from the right side hole. From the left hole in the box pull through the new, end leads of furnished cable CA-926. Checking the color combinations of the new cable and the cut cable, connect color to color so as to have only two leads connected to each of the 11 capacitors which are mounted in the RF filter box. See drawing as furnished in figure 1. If color does not match, be certain that you connect leads correctly by removing wiring of the cut cable in the final PA compartment individually and connect new wire to the connection which was cleared.

13. If color to color match is obtained in new cable furnished and of the old existing cut cable, follow along connections to K5301 (shorting relay) Output bandchange switch solenoid (L-5317) and to airswitch and power of TBP PA Fan B5304, and their associated interlocks.

14. In the vicinity of L5317 (solenoid Output bandrelease coil), install the six furnished chokes A2429 and six capacitors furnished CC-109-38. Reference fig 6-1, page 6-5/6-6 of Volume IV Maintenance Instructions GPT200K, (1N321), these chokes are shown in the schematic as symbol no. L5318 through L5322, and L5325., also capacitors are shown as symbol no. C5334 - C5338, and C5359. Change capacitor symbol to L5319 (40mH) to read C5338, instead of C5335, on this schematic of fig 6-1.

15. Carefully check all wiring and connections, replace all B plus channel shields. Install cover over RF Filter Box as furnished.

16. Please indicate to TMC New York, when this modification was installed along with serial number of transmitter. Mark correspondence Attn, of the wire, Customer Technical Service Dept.

