TMC SPECIFICATION	NO. S 1	180
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TITLE: GPT 200K RF Cable Filt r Modification		
3/25/67 typed by D.Costantino		

RF Cable Filter 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 th PA final amplifier compartment of the 200K.

Following material is furnished:-

- 1- TMC P/N LD-1591/MS3995
- 1- TMC P/N LD-1992/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  $\overline{\text{IV}}$  Maintenance Instructions GPT-290K, (1N-321).
- 2. Open rear doors of PA final compartment of 200K, and r move PA compartment back shield.
- 3. Remove bottom rear cover under the final tank compartm nt 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 & Sid ).
- 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 releas solenoid (L5317) and down to shorting relay (K5301). Bring remaind r 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 xisting cable (se fig lammdrawing) b certain of leaving enough lead length so as to be able to stagg r th connections of cut wires as shown in drawing of figure 1., to compon nts of the RF Filter Box. (MS-3995).

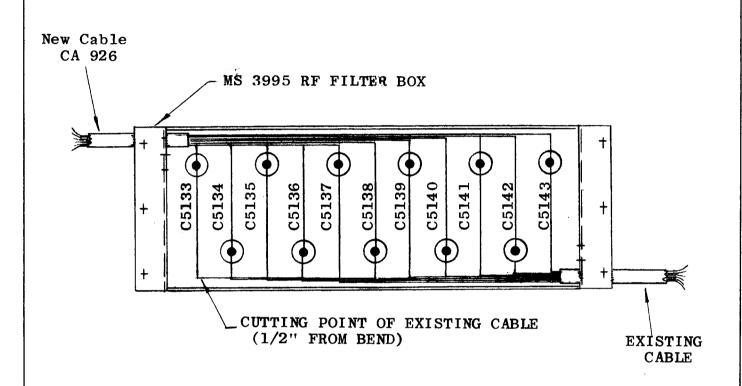
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## C Continued:

- 9. Assemble capacitors in the RF filter box as furnished. K p 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 tapm 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 xisting cable, pull this cable through the hole already existing in the n w 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 licapacitors which are mounted in the RF filter box. See frawing 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 TOP PA Fan B5304, and their associated int rlocks.
- 14. In the vicinity of L5317(solenoid Output bandrelease coil), install the six furnished chokes A2429 and six capacitors furnish d CC-109-38. Reference fig 6-1, page 6-5/6-6 of Volume IV Maintenanc Instructions GPT200K, (1N321), these chokes are shown in the sch matic as symbol no. L5318 through L5322, and L5325., also capacitors ar shown as symbol no. C5334 -C5338, and C5359. Change capacitor symbol ti d 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 Newyork, when this modification was installed along with serial number of transmitter. Mark correspondence Attn, of the correspondence Technical Service Dept.

TMC FORM SPEC 1

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## FIQURE 1

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C5134- Connects to L5317 (Output BandswitchRelease Solenoid)
C5134- Connects to S-5306( Of K5301 Shorting relay switch) r l ase
C5135- Connects to NO contest of S5312.(Int'lk of L5317 Output Bnd/Coil)
C5136- Connects to C of S5312(Intl'k switch of Output Band release coil)
C5137- Connects in airswitch int'lk string of Top and bottom Pa fans
(S5304,S5303,S5302,S5301.
C5138- Connects to AC line of Top PA Final Compt Fan (B5304.)
C5139- Connects to AC line of Top PA Final Compt Fan (B5304.)
C5140- Connects to S5306 of K5301 (Shorting Relay Switch)
C5141- Connects to AC line of B5301, (bottom compt fan)
C5142- Connects to NC contact of S-5312(Output bandchange sw Int rlock)
C5143- Connects to L5317 (output bandchange switch solenoid.
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TMC FORM SPEC 1

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