

DATE 1-25-62

SHEET 1 OF 3

TMC SPECIFICATION NO. S 652

A.A.  
COMPILED

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CHECKED

TITLE: KIT-125

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APPROVED

CAPACITOR MODIFICATION

DATE 1/25/62

SHEET 2 OF 3.2

## TMC SPECIFICATION NO. S-652

COMPILED

CHECKED

TITLE: KIT-125 C911 CAPACITOR MODIFICATION

APPROVED

I. EQUIPMENT AFFECTED:

GPT-40K Transmitting Set, Radio

II. PURPOSE:

To prevent the breakdown of capacitor C911 by replacing it with a higher voltage rating capacitor.

III. MATERIALS SUPPLIED IN KIT:

- |    |                           |                                     |              |
|----|---------------------------|-------------------------------------|--------------|
| 1. | One each CO-106-1000-30C  | Capacitor, fixed, 1000 uuf 30KV     |              |
| 2. | One each A-2345           | Bracket & flange Ass'y., unlettered |              |
| 3. | One each A-2346           | Bracket & flange Ass'y., lettered   |              |
| 4. | One each ID-271           | Installation drawing                |              |
| 5. | a. Two each SCBS1032BN8   | Screw                               |              |
|    | b. Two each NTH1032BN12   | Nut                                 | Bracket      |
|    | c. Two each FW10HBN       | Washer                              | Mounting     |
|    | d. Two each LWS10MRN      | Washer, lock                        | Step 8       |
| 6. | a. Two each SCBS0440BN20  | Screw                               | Thermocouple |
|    | b. Two each NTH0440BN6    | Nut                                 | Mounting     |
|    | c. Two each FW04HBN       | Washer                              | Step 9       |
|    | d. Two each LWS04MRN      | Washer, lock                        |              |
| 7. | a. Four each SCBS0832BN10 | Screw                               | Insulators   |
|    | b. Four each NTH0832BN12  | Nut                                 | Mounting     |
|    | c. Four each LWS08MRN     | Washer, Lock                        | Step 11      |
| 8. | a. Two each SCBP1032BN10  | Screw                               | Center Brace |
|    | b. Two each FW10HBN       | Washer                              | Mounting     |
|    | c. Two each LWS10MRN      | Washer, lock                        | Step 13      |
|    | d. Two each SCFP1032BN10  | Screw, flat head                    |              |

IV. TOOLS REQUIRED:

To be supplied by installing activity.

1. Wrench, open end 7/16-3/8
2. Screwdriver, 7 inch
3. Screwdriver Phillips, 7 inch

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SHEET 3 OF 3

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## V. PROCEDURE (REF. ID-271)

1. Remove AC power from the unit.
2. Remove the window from the power amplifier compartment of the 10K driver. Save the hardware for replacement.
3. Remove the leads from the thermocouple; Fig. 1, and mark them so they will be replaced on the proper terminals.
4. Disconnect the strap; Fig. 1, from the variable capacitor.
5. Remove the four screws holding the plate and capacitor assembly; Fig. 1, to the load, and remove the assembly.
6. From the capacitor assembly as shown in Fig. 2, remove the thermocouple, hold for remounting.
7. Remove the capacitor, insulators, and flanges; Fig. 2, as a unit and discard.
8. Remove the bracket; Fig. 2, and reverse it as shown in Fig. 3. Do not tighten.
9. Remount the thermocouple on the new insulator and flange assembly, A-2346, on the same side as the flange. Be sure it is the lettered assembly.
10. Mount the new capacitor, CO-106-1000-30C, between the two new insulator and flange assemblies, A-2345 and A-2346, but do not tighten the flanges at this time, Fig. 4.
11. Mount the capacitor and insulators to the brackets as shown in Fig. 4.
12. Tighten the flanges on the capacitor and also tighten the bracket.
13. Mount the whole assembly back in the GPT-10K as shown in Fig. 1.
14. Reconnect the leads to the thermocouple.
15. Connect the strap back on the variable capacitor.
16. Replace the front window with original hardware.