

TMC SPECIFICATION

NO. S 1035

REV.:

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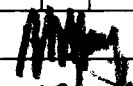
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SHEET 1

OF 8

TITLE:


12/20/65

typed by vab 12/16/65

MODIFICATION PROCEDURE FOR THE KIT-234

TMC SPECIFICATION

NO. S 1035

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SHEET 2 OF 8

TITLE: PROCEDURE FOR THE KIT-234

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I. EQUIPMENT AFFECTED:

AFC-3

II. PURPOSE:

To convert the AFC-3 to the AFRC-3.

III. It can be determined if modification is incorporation by checking to see if a small knob is located between the 0 and +3 positions of the tuning control in the center of the panel.

IV. MATERIALS SUPPLIED WITH KIT:

| <u>ITEM #</u> | <u>SYMBOL</u> | <u>QUANTITY</u> | <u>TMC PART #</u> | <u>DESCRIPTION</u> |
|---------------|---------------|-----------------|-------------------|----------------------|
| 1 | | 1 | A5003 | Conn/Relay Assembly |
| 2 | | 1 | A5007 | Gear Box Assembly |
| 3 | | 1 | A5008 | Gear Reduction Assy. |
| 4 | | 3 | FWO6HBN | Wash, Flat |
| 5 | | 1 | CA480-3-11 | Cable Ass'y, RF |
| 6 | | 4 | NTHO44OBN6 | Nut, Pln, Hex |
| 7 | | 4 | LWEO4MRN | Wash, Lk, Ext |
| 8 | | 4 | SCBP044OBN5 | Screw, Machine |
| 9 | | 3 | NTHO632BN8 | Nut, Pln, H x. |
| 10 | | 3 | LWEO6MRN | Wash, Lk, Ext. |
| 11 | | 3 | SCBP0632BN6 | Screw, Machine |
| 12 | | 3 | SCBP0632BN4 | Screw, Machine |
| 13 | | 1 | NP362-51 | Plate, Ident. |
| 14 | | 1 | WR100-3 | Key, Socket, Hd Scr. |
| 15 | | 1 | WR100-4 | Key, Socket, Hd Scr. |
| 16 | | 1 | CK930 | Diagram Sch matic |
| 17 | | 1 | Drill-1/8D | Drill, Twist |

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TITLE:

PROCEDURE FOR THE KIT-234

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| <u>ITEM #</u> | <u>SYMBOL</u> | <u>QUANTITY</u> | <u>TMC PART #</u> | <u>DESCRIPTION</u> |
|---------------|---------------|-----------------|-------------------|--------------------|
| 18 | | 1 | Drill-11/64 D | Drill, Twist |
| 19 | | 1 | Drill-11/32 D | Drill, Twist |
| 20 | | 1 | MP123-1FB | Knob |
| 21 | | 3 | LWS06MRN | Wash, Lk, Split |

V. TOOLS AND EQUIPMENT TO BE SUPPLIED BY INSTALLING ACTIVITY:

- 1) Electric Drill
- 2) Phillips Type screw driver set
- 3) Nut Drivers, 3/16" and 1/4"
- 4) VOM, Simpson Model 260 or Equivalent

VI. MODIFICATION PROCEDURE:

- 1) Remove AFC-3 from cabinet.
- 2) Using item (15), remove tuning knob (Retain)
- 3) Remove top and bottom covers (Retain)
- 4) Remove eight screws which hold the front panel to the chassis.
Remove front panel. (Retain)
- 5) Using item (14), remove tuning shaft between coupling on front of 2.000 MC oven and vernier on front panel. (Retain flexible coupling) See Figure 1.
- 6) Remove 2 screws holding shaft mounting bracket located between 2 MC oven and front panel (Vernier). Discard bracket.
- 7) Remove tuning vernier on front panel. (Discard)

NOTE: Before proceeding with the following steps, care should be taken when locating the new mounting holes. Shaft misalignment may result from misplaced holes.

- 8) Locate and drill 4-1/8 holes for A5003 connector/ray assembly item 1 using item 17. (SEE Figure 2)

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- 9) Mount item (1) using items 6, 7, and 8.
- 10) Locate and drill 2-11/64 holes using item (18) for item (2) (gear box assembly). SEE Figure 3.
- 11) Mount item (2) using items 9, 10, 11 and 4. SEE Figure 5.
Dress cable as shown.
- 12) Connect shaft to shaft coupling to oscillator. Do not tighten shaft coupling at this time. (SEE Figure 5)
- 13) Locate and drill (using item (19) an 11/32" drill) hole for item (3) (Gear reduction assembly) on front panel. SEE Figure 4.
- 14) Mount item (3) using items 12 and 21 to front panel.
- 15) Mount retained flexible coupling to shaft of item (3).
- 16) Remount front panel to chassis joining coupling to shaft on gear box item (2).
- 17) Mount tuning knob to shaft on item (3) gear reduction assembly.
- 18) Using VOM set the pot (R5131) to 500 ohms.
- 19) Set the tuning pointer to "0". Tighten the set screws on the flexible coupling using item (14).
- 20) Solder orange wire of cable to terminal A of S5001.
- 21) Solder white wire of cable to terminal C of S5001.
- 22) Set the tuning control for "0" (Place jumper across S5001 terminals A and C).
- 23) Monitor the 2 MC output J5003 using a frequency counter. (Connect power and turn on unit).
- 24) Rotate the oscillator tuning cap. (connected to the shaft coupling) until the frequency reads 2 MC \pm 5 cps. (Note: unit must cycle for at least 2 hrs. before adjustment is completed).

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PROCEDURE FOR THE KIT-234

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- 25) With item (14), tighten the screws on the shaft coupling.
- 26) Place item (20) to item (3) shaft on front panel.
- 27) AFFIX item (13) to any convenient place on front panel.
- 28) The modification is now complete.

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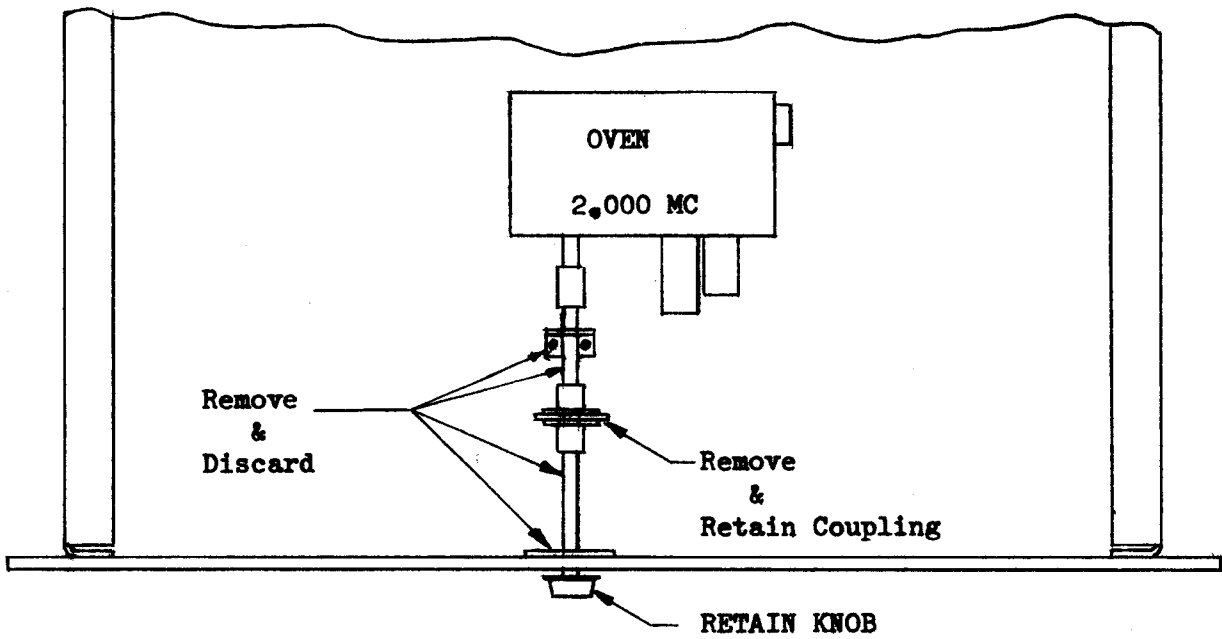
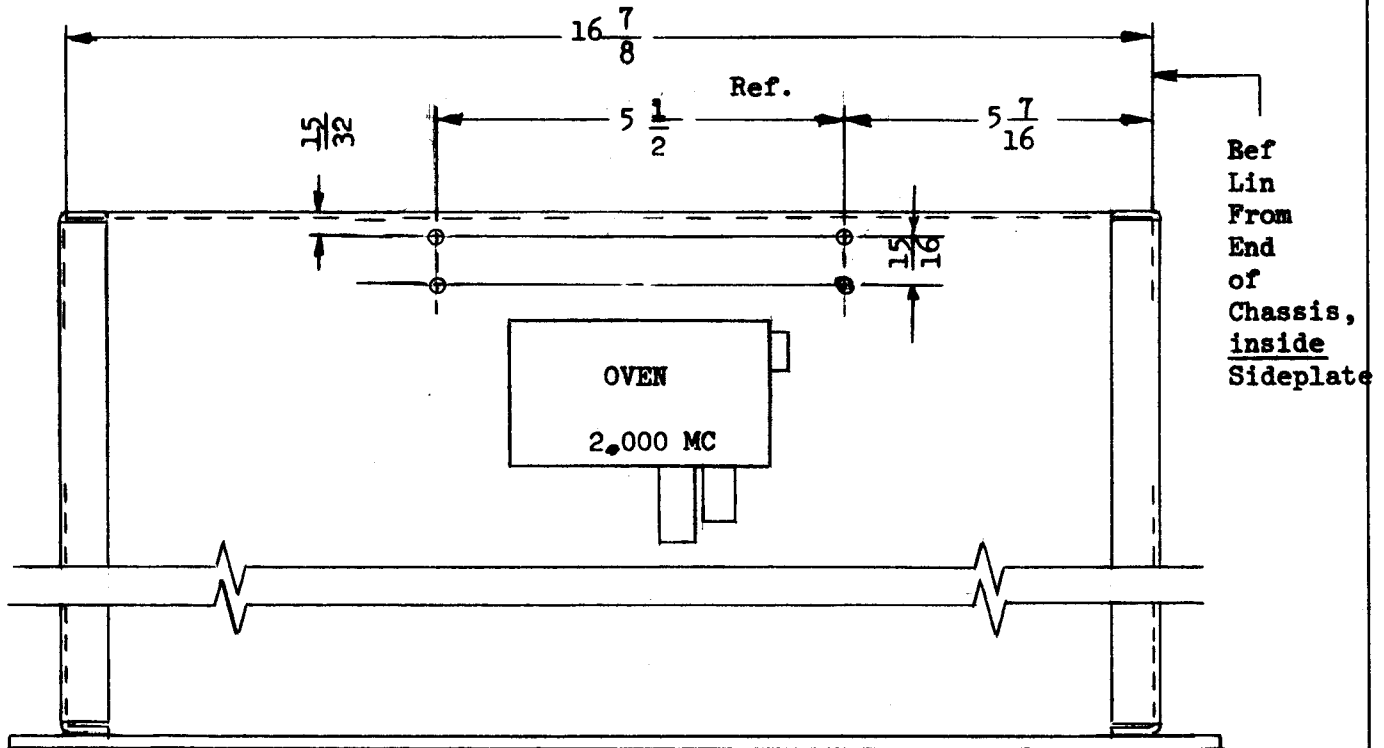


FIGURE 1



TOP VIEW FIGURE 2

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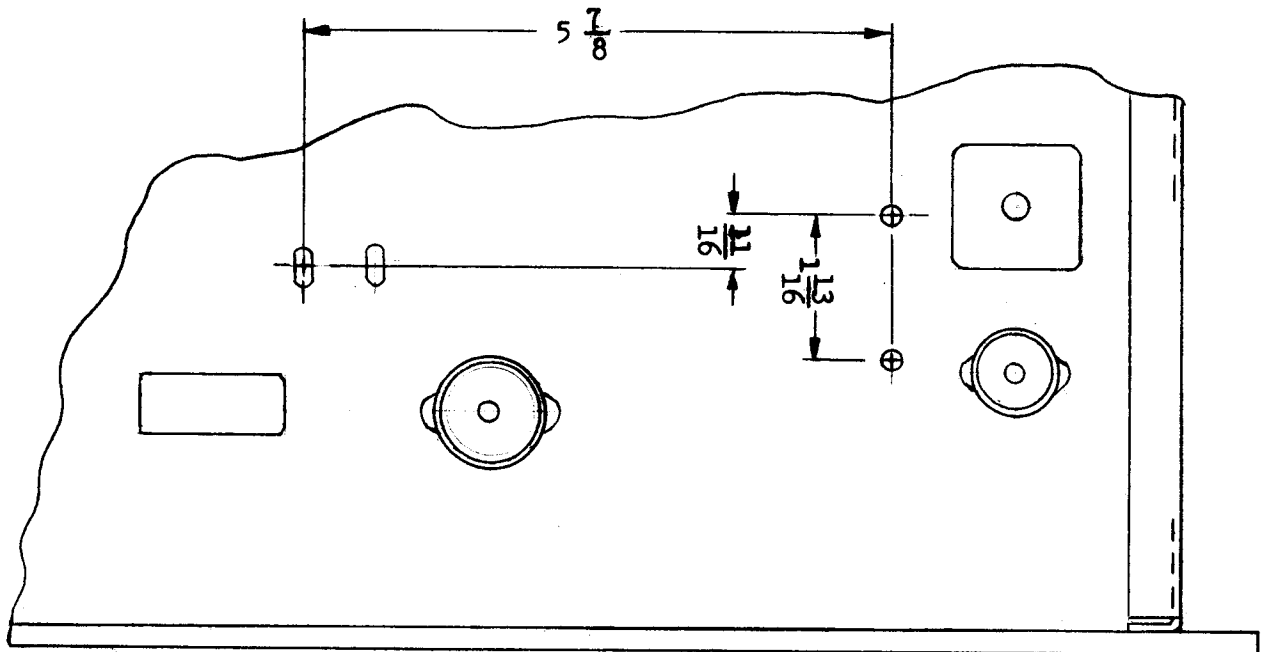
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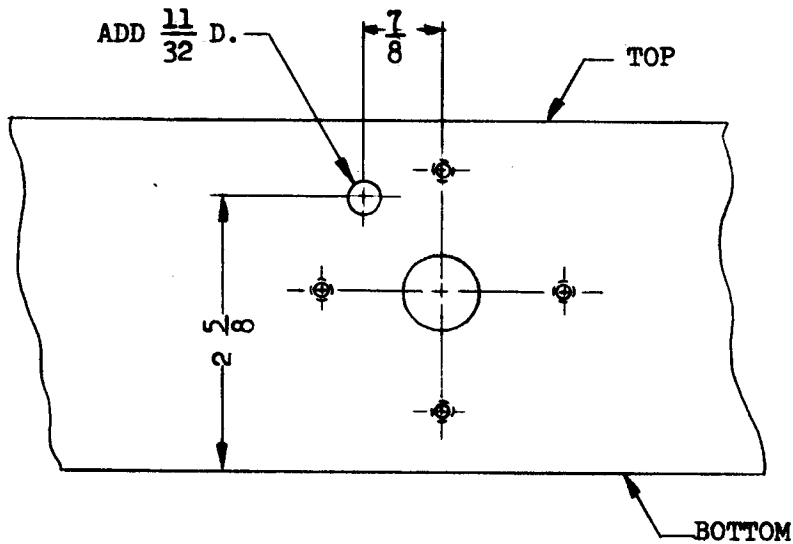
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TITLE: PROCEDURE FOR THE KIT-234



FRONT PANEL

FIGURE 3



FRONT PANEL REARVIEW FIGURE 4

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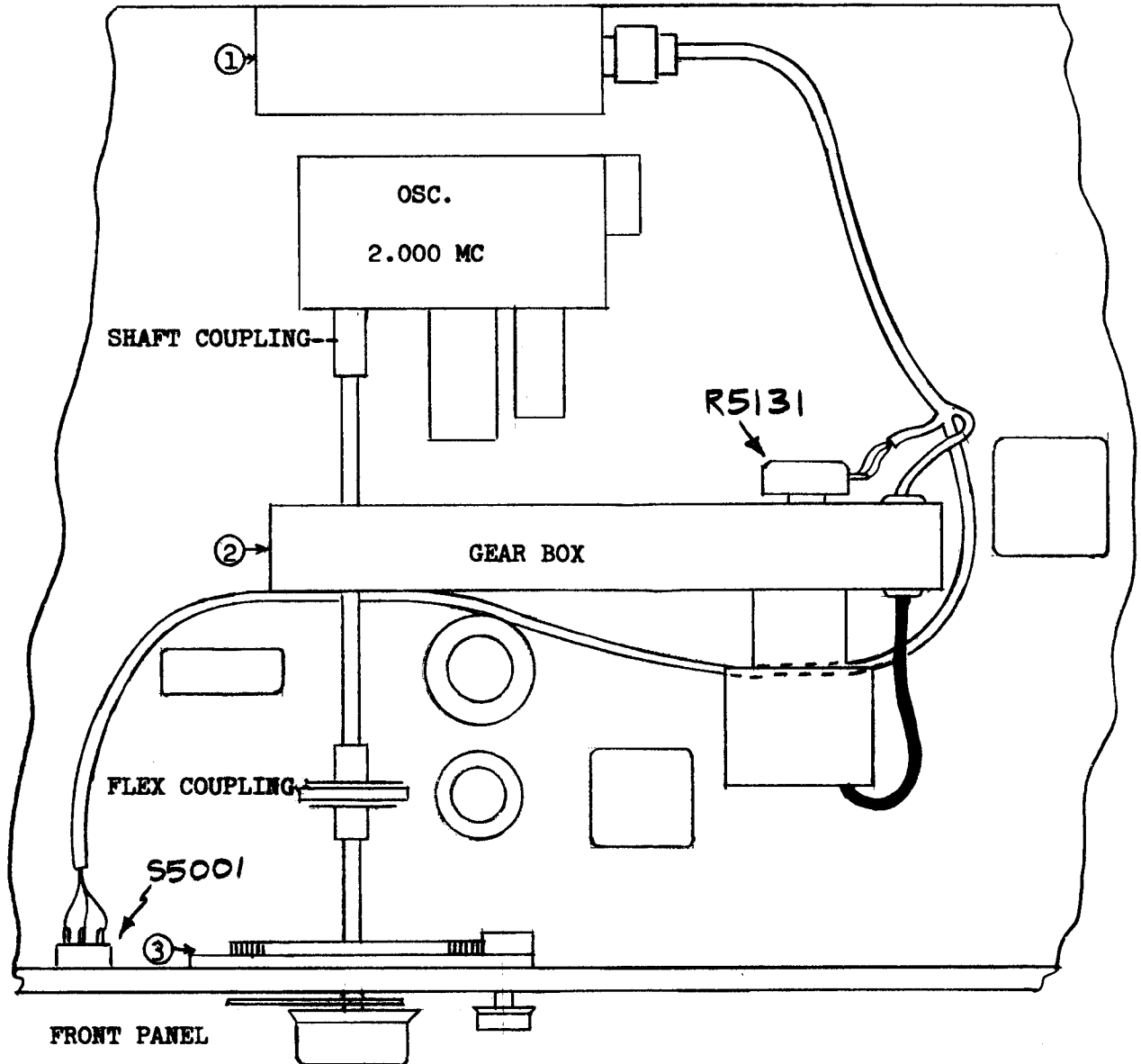


FIGURE 5 TOP VIEW

