# PLACING, FASTENING AND ALIGNING SWITCHBOARD SECTIONS, DESKS AND ASSOCIATED PARTS, NUMBER PLATES AND SPACERS ON SWITCHBOARDS

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## 2. GENERAL

### 2.1 Scope

2.11 This section covers a method for installing and rearranging removable type number plates in stile strips and mounting or removing 107B type number plates on stile casings.

### 2.2 Associated Information

2.21 Refer to information contained in specifications and drawings furfurnished with the job.

## 3. TOOLS

3.1 Tools required for the operations covered in this section are generally available on all jobs.

## 4. NUMBER PLATES AND SPACERS - REMOVABLE TYPE

### 4.1 Installing

4.11 The use of an aligning guide, illustrated in Figure 4, will facilitate arranging the number plates in the proper sequence particularly where a large number of stile casings are involved. Refer to Figures 1 and 2 for sizes of 140, 141, 142 and 143 type number plates.

4.12 When arranging removable type number plates the following method has been found advantageous:

4.121 Arrange number plates in proper order on the aligning guide. (See Figure 4).

4.122 Place a piece of scotch tape trimmed to the proper size, over the number plates and press it firmly against the plates.

4.123 Remove stile casings closure at bottom of stile casings, insert prepared strip of number plates and then replace stile casings closure.

4.124 Where a closure detail is not provided at the top of stile casings, crimp the top ends of the casings so as to prevent number plates from being pushed out from the top.

### 4.2 Rearranging

4.21 When rearranging removable type number plates in stile casings for insertion of new numbers, the following method has been found advantageous:

4.211 Place a piece of scotch tape, trimmed to the proper size, over the number plates to be removed, and press it firmly against the plates to make it adhere.

4.212 Attach a suspender clip, or a clip similar to that shown in Figure 3, beneath the lowest plate to remain in position.

5 12 Throw BAT key on SWBD to ON. plug in operator's headset and verify that the transfer key is in the NORMAL position. Insert an answering cord into an answering jack and observe that the line lamp lights. Remove the cord and verify that the line lamp is extinguished.

5.2 Fuse Alarms

5.21 Block the LV1 relay located on the rectifier panel. in the operated condition and verify that the FA key on the SWBD is in the ON position. Insert the appropriate blown alarm fuse at BS1. Observe that the CF lamp lights on the first position of the SWBD and that the audible alarm sounds. Replace the blown fuse with a good one and verify that the CF lamp is extinguished and that the audible alarm does not sound.

5.22 Repeat procedure in 5.21 for the BCO, L and RM fuses.

5.3 Ringing Generation

5.31 Remove block from LV1 relay and verify that the FA key is in the ON position. The RING NV lamp on the power supply board and the CF lamp on the SWBD should light. The audible alarm should also sound.

5.32 Observe that the BAT key is on and that the operator's headset is plugged in, then insert the ringing machine plug into a 105 to 125 volt service outlet. The CF and RING NV lamps should be off and the audible alarm should not sound.

5.33 Plug one of the front cords into the answering jack of a nearby phone. Depress the TALK key associated with that cord and verify that machine ringing occurs.

5.34 Depress the RLS key, then push the RING key to verify that manual ringing occurs.

6. 22-VOLT AC SUPPLY

6.1 Insert A fuses, connect the transformer to a 105 to 125 volt ac service supply and verify that the SWBD clock runs.

7. BATTERY RESERVE PLANT

7.1 Power Supply Output

7.11 Insert BCO, CHG2, BAT B, BAT C fuses. Connect rectifier to ac supply outlet then close ac line circuit breaker.

7.12 Throw BAT key on SWBD to ON, plug in operator's headset and verify that the transfer switch is in the NORMAL position. Insert an answering cord plug into an answering jack and observe that the line lamp lights. Remove the plug and verify that the line lamp is extinguished.

7.2 Fuse Alarm

7.21 Block the LV1 relay, located on the rectifier panel, in the operated condition and verify that the FA key on the SWBD is in the ON position. Insert the appropriate blown alarm fuse at CHG1. Observe that the CF lamp on the first position of the SWBD and the FA1 lamp on the rectifier panel light. The audible alarm should also sound. Replace the blown fuse with a good one and verify that the CF and FA1 lamps are extinguished and that the audible alarm does not sound.

7.22 Repeat 7.21 for the BCO, CHG1, BAT B. BAT C. RM1 and PF fuses.

7.3 Power Failure Relay

7.31 Open ac line circuit breaker and observe that the CF lamp lights. Close the circuit breaker and verify that the CF lamp is extinguished.

7.4 Ringing Machine

7.41 Remove block from LV1, verify that the FA key is ON, the BAT key is OFF and the operator's headset is plugged in. The RING NV and CF lamps should light and the audible alarm should sound.

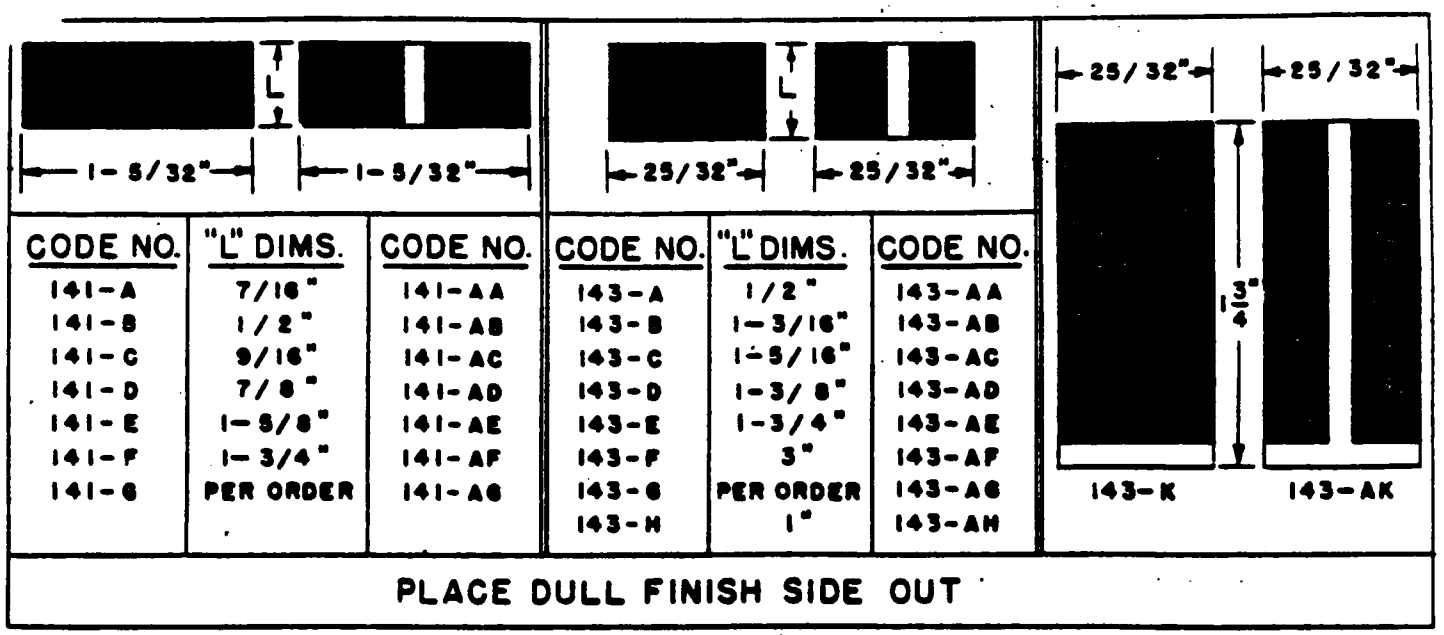
7.42 Throw BAT key to ON and observe that RING NV and CF lamps are extinguished. that the audible alarm does not sound and that the ringing machine motor starts.

7.43 Plug one of the front cords into the answering jack of a nearby phone. Depress the TALK key associated with that cord and verify that machine ringing occurs.

7.44 Depress the RLS key, then push the RING key to verify that manual ringing occurs. Disconnect cord.

R. E. RAHMES

Engineer of Installation




| CODE NO. | "L" DIMS. | CODE NO. |
|---|---|---|
| 141-A | 7/16" | 141-AA |
| 141-B | 1/2" | 141-AB |
| 141-C | 9/16" | 141-AC |
| 141-D | 7/8" | 141-AD |
| 141-E | 1-5/8" | 141-AE |
| 141-F | 1-3/4" | 141-AF |
| 141-G | PER ORDER | 141-AG |

| CODE NO. | "L" DIMS. | CODE NO. |
|---|---|---|
| 143-A | 1/2" | 143-AA |
| 143-B | 1-3/16" | 143-AB |
| 143-C | 1-5/16" | 143-AC |
| 143-D | 1-3/8" | 143-AD |
| 143-E | 1-3/4" | 143-AE |
| 143-F | 3" | 143-AF |
| 143-G | PER ORDER | 143-AG |
| 143-H | 1" | 143-AH |

PLACE DULL FINISH SIDE OUT

BLANK AND STRIPED NUMBER PLATES (SPACERS) (RP-15520-L)

FIG. 2 141 AND 143 TYPE REMOVABLE NUMBER PLATES AND SPACERS FOR USE WITH 40-A AND 42-A STILE CASINGS (Par. 4.11)

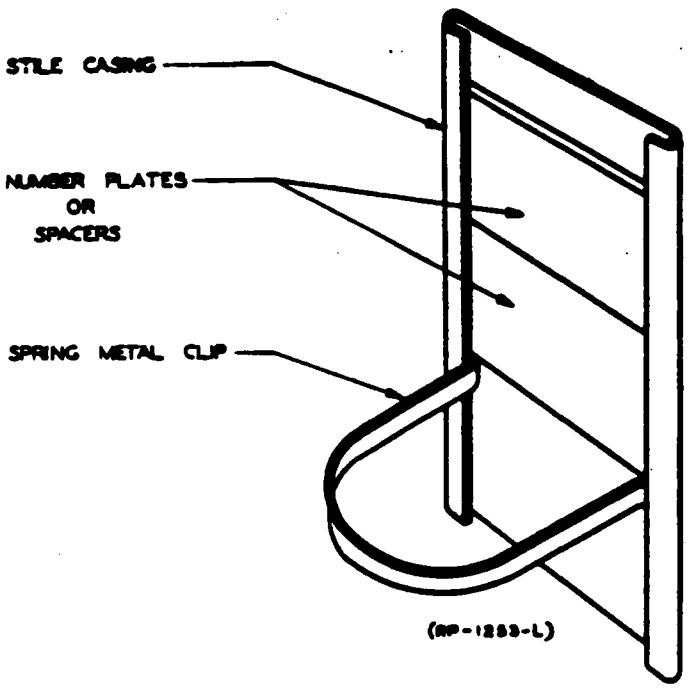



FIG. 3 USE OF SPRING CLIP WHEN REMOVING OR ASSEMBLING NUMBER PLATE IN STILE CASINGS (Par. 4.212)

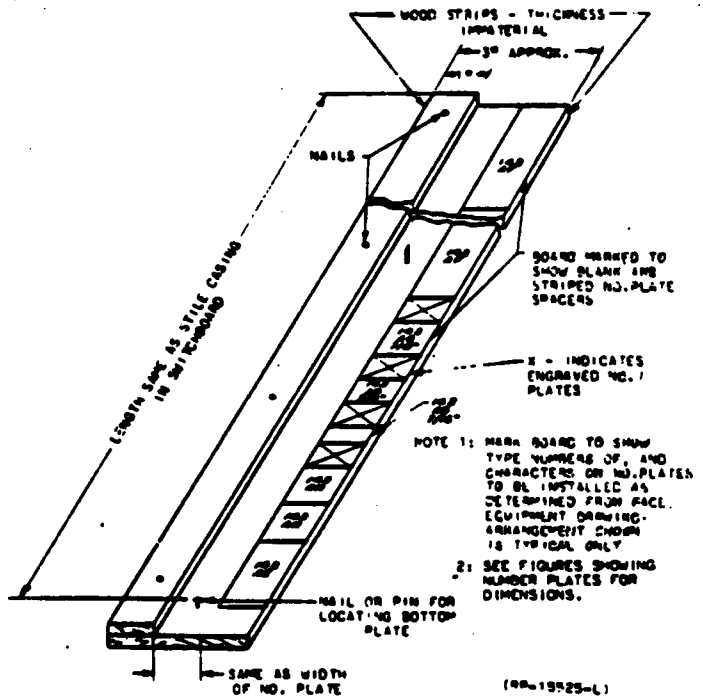



FIG. 4 USE OF ALIGNING GUIDE FOR ASSEMBLING REMOVABLE TYPE NUMBER PLATES (Par. 4.121)

4.213 Remove the number plates attached to the tape, insert the new plates and replace the removed plates before detaching the tape.

Vertical lines at side of paragraphs indicate requirements.

5. VERTICAL ALIGNMENT

5.1 Where jack equipment groups in adjacent panels are arranged the same, a tolerance of ± 1/16" in the vertical (up and down) alignment of associated number plates is permissible.

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Reason for Reissue:
(1) To remove reference to R-2152 Stile Casing Number Plate Tool Set which is canceled.

Replaces Section 30H dated 2-16-65.