Installation Engineering Handbook 40
Western Electric Company, Incorporated
Columbus Works

Section 52
4-14-72

Replaces: Section 52
Dated 10-7-54

OFFICE JUNCTOR REDISTRIBUTION

12 DL - 12 OL TO 14 DL - 14 OL FRS, 14-14 TO 16-16 PATTERN, OR 12 DL - 12 OL TO 16 DL - 16 OL FRS, 14-14 TO 16-16 PATTERN, OR 14 DL - 14 OL TO 16 DL - 16 OL FRS, 14-14 TO 16-16 PATTERN

PROCEDURE NO. 30

CONTENTS

---

1. GENERAL

1.1 This procedure covers the transition of the office junctor redistribution

From

ED-25012-013, Fig. 3, 12 DL and 12 OL frames, having STD 14-14 pattern, with 14 junctors from each frame, or 14 DL and 14 OL frames, having STD 14-14 pattern, with 14 junctors from each frame.

To

ED-25012-014, Fig. 4, 14 DL and 14 OL frames, having STD 16-16 pattern, with 12 junctors from each frame, or 16 DL and 16 OL frames, having STD 16-16 pattern, with 12 junctors from each frame.

NOTE: This procedure has been prepared for the transition from the highest numbered frame and pattern for the present figure, to the highest numbered frame and pattern for the proposed figures.

Several other frame combinations may be had when using the present and proposed drawing figures.

Other combinations would use the same general procedure but the quantity of work would vary.

2. STEP NO. 1 MARKER PATTERN

2.1 Modify the originating markers, one at a time, (drawing SD-25016-01) from Note 180, for "12 frames (new offices) or 14 frames (after an addition)" to agree with Note 180, for "14 frames (new offices) or 16 and 18 frames (all offices)".

2.2 See Section 30, Paragraph 6, for information concerning types of patterns.

2.3 Test the markers to determine that they will function with the present link frames and return them to service.

2.4 The test of the markers to determine whether they will function with the added link frames will be made in a later operation.

3. STEP NO. 2 MAKE BUSY PATTERN

3.1 Insert make busy plugs at the district link frame verticals for all junctors having either or both ends enclosed in a heavy rectangle or square, as shown *on drawing ED-25012-013, Fig. 3.*

3.11 There are 192 verticals to be made busy.

3.2 When inserting the make busy plugs, care should be taken so as to avoid making busy a vertical that is being used by traffic.

TABLE 1 SHX AND JC CROSS-CONNECTIONS

Dist. Lk. Fr. No.	Per T-25031 From-20 Figs.	To-21 Figs.
0	1,6,8	1,6,8
1	1,7,8	1,7,8
2	2,6,8	2,6,8
3	2,7,8	2,7,8
4	3,6,8	3,6,8
5	3,7,8	3,7,8
6	4,6,8	4,6,8
7	4,7,8	4,7,8
8	5,6,8	5,6,8
9	5,7,8	5,7,8
10	1,6,8	1,6,8
11	2,7,8	1,7,8
12	2,6,8	2,6,8
13	2,7,8	2,7,8
14	NEW	3,6,8
15	"	3,7,8

3.3 After a make busy plug is inserted, check all crosspoints on this vertical and if any are found closed, remove the make busy plug until the crosspoints have been released.

3.4 If a vertical that has a crosspoint in service, is made busy, it may cause the marker to "time out" and furnish an XSL indication.

3.5 After the completion of operations covered by Paragraphs 3.1 to 3.4, connect temporary ground to all JC punchings associated with junctors whose DISTRICT LINK ends are enclosed in a heavy rectangle or square as shown on *Drawing ED 25012-013, Fig. 3.*

3.51 They are associated with JC relays 10, 11, 12, 13.

3.52 There is a total of 112 junctors.

3.6 For additional information see Section 32, Paragraph 7.

Lines presented in Script indicate new or changed information.

Reason for Reissue:
Changes in Paragraphs 1.1, 3.1, 3.5 and 5.1.

4. STEP NO. 3 DISTRICT LINK FRAME CROSS-CONNECTIONS

4.1 Change the SHX and JC cross-connections as specified in Table 1.

5. STEP NO. 4 GROUPING FRAME

5.1 Disconnect and remove all cross-connections associated with the junctors that have either one end or both ends enclosed in a heavy rectangle or square and also those junctors that are marked with a *diamond as shown on drawing ED-25012-013,* Fig. 3.

5.2 There are 584 junctors to be disconnected. One end of most of these junctors will be found on the terminal strips required for the new district link and office link frame cables.

5.3 Connect all remaining district link and office link frame cable conductors at the OJG frame.

5.4 Connect all remaining cross-connection ends at the OJG frame.

6. STEP NO. 5 TIP AND RING TEST

6.1 Make a tip and ring continuity test of the cables and cross-connections of all newly established junctors.

7. STEP NO. 6 JUNCTOR SLEEVE TEST

7.1 Test one marker so as to determine that it will function with the new pattern and then use it to make the junctor sleeve test in the following operation.

7.2 Make a junctor sleeve test of the sleeve conductors (as outlined in Section 32, Paragraph 5) for all newly established junctors, removing the make busy plugs and temporary ground straps, as required, and return the marker to service.

8. STEP NO. 7 FINAL MARKER TEST

8.1 Test the remaining markers, one at a time, so as to determine that they will function with the new pattern and restore them to service.

Manager, Crossbar Product Engineering
Control Center