

LINE JUNCTOR REDISTRIBUTION
INDEX AND PLANNING INFORMATION

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1. GENERAL

1.1 This section contains information relative to the redistribution of line junctors. This information is of a general nature and should be applied generally throughout Sections 95 to 115, which cover specific redistributions.

2. TERMS AND ABBREVIATIONS

- 2.1 For the sake of brevity the following terms and abbreviations are used.
- 2.2 T: Incoming trunk or incoming trunks frame.
- 2.3 LC: Line choice or line choice connector frame.
- 2.4 HC: Half choice.
- 2.5 LJA or LJB Junctors: Those junctors controlled by the LJA or LJB relay referred to.
- 2.6 Test Choice: The half choice in which the last incoming trunk test line is located.
- 2.7 I End of Line Junctors: That side of the line junctor grouping frame to which the cables from the incoming link secondary switches are connected.

2.8 LC End of Line Junctors: That side of the line junctor grouping frame to which the cables from the line link secondary switches are connected.

3. SEQUENCE OF OPERATIONS

3.1 To insure an orderly procedure during a line junctor redistribution, the involved operations must be performed in a predetermined sequence.

3.2 Figure 1 has been prepared to outline the sequence of operations involved. Columns A, B, C etc. indicate the order in which the various operations should be performed.

4. PAIRED AND NON-PAIRED INCOMING FRAMES

- 4.1 The procedures are prepared on the basis of non-paired incoming frames.
- 4.11 The method of redistributing junctors to paired frames is essentially the same, although some substitutes will be required.
- 4.2 Where the number of junctors are referred to in the following sections, this number will be doubled when paired frames are involved.
- 4.3 The cross connection charts for paired frames are shown on ED-25714-01 for present standard.

			A	B	C	D	E	F	G	H	I	J	K	L
Preliminary Work	LJGF	Prepare X-conn. for disconnection	—											
		Run X-conn.		—										
		Connect cabled junctors Connect X connection			—	—								
Preparation for routine of Inc. Trks. Routine of Inc. Trks.						—	—	—						
Transition	TM	Block Markers Remove temporary X-conn. Modify Markers								—	—	—		
	LJCF	Change 'M' - 'J' straps									—	—		
	LJGF	Disconnect X-conn. Conn. Cabled Junctors Connect X-conn.									—	—	—	
	TST	Test Load Trunks										—	—	—
Clean-Up		Clean-Up Work										—	—	

FIG. 1 SEQUENCE CHART (Par. 3.2)

I-LC Pattern	Per ED-25713-01
2-2	80
3-3	60
4-4	40
5-5	40
6-6	30
7-7	24 or 26
8-8	24 or 26
9-9	22 or 24
10-10	20

FIG. 2 NO. OF LJ PER I PER LCC (Par. 7.1)

4.4 The marker cross connection drawings show figures for both paired and non-paired frames and the proper figure should be applied.

5. BLOCKING THE MARKER

5.1 Sections frequently refer to blocking the marker per Table 11 of SD-25511-01.

5.2 For convenience Table 11 per SD-25511-01 are reproduced in this section as Figure 5.

6. TEST

6.1 The test methods for terminating channels is outlined in Handbook 62, Section 213 and the test methods for terminating markers is outlined in Handbook 62, Sections 225 to 225.8.

Cable Junctors										Cross Connected Junctors per ED-25713-10											
No. of LCC Eqpd.	No. of Inc. Frames Equipped										No. of LCC Eqpd.	No. of Inc. Frames Equipped									
	1	2	3	4	5	6	7	8	9	10		1	2	3	4	5	6	7	8	9	10
1	40	60	80	100	120	140	160	180	200	1	120	120	80	100	60	36	40	20	0		
2	80	120	160	200	240	280	320	360	400	2	240	240	160	200	120	72	80	40	0		
3	180	240	300	360	420	480	540	600	3	360	240	300	180	106	120	60	0	0			
4	320	400	480	560	640	720	800	4	320	400	240	140	160	80	0	0					
5	500	600	700	800	900	1000	5	500	300	176	200	100	0	0							
6	720	840	960	1080	1200	6	360	212	240	120	0	0									
7	960	1120	1260	1400	7	246	280	140	0	0											
8	1280	1440	1600	8	320	160	0	0													
9	1620	1800	9	180	0	0															
10	2000	10	0	0																	

FIG. 3 LINE JUNCTOR DISTRIBUTION (Par. 7.2)

Present I-LC Pattern	Line Junctor		Terminating Marker		No. Of Frames Added	Line Junctor		Terminating Marker		HB 40 Section
	X-Conn. Drawing	Per Chart	X-Conn. Drawing	Per Fig		X-Conn. Drawing	Per Chart	X-Conn. Drawing	Per Fig	
2-2	ED-25713-10	1	T-25283-51	1	1	ED-25713-10	2	T-25283-52	1	95
					2		3	" -53	1	96
					3		4	" -54	1	97
3-3	ED-25713-10	2	T-25283-52	1	1	ED-25713-10	3	T-25283-53	1	98
					2		4	" -54	1	99
					3		5	" -55	1,A	100
4-4	ED-25713-10	3	T-25283-53	1	1	ED-25713-10	4	T-25283-54	1	101
					2		5	" -55	1,A	102
					3		6	" -56	1,A	103
5-5	ED-25713-10	4	T-25283-54	1	1	ED-25713-10	5	T-25283-55	1,A	104
					2		6	" -56	1,A	105
					3		7	" -56	1,C	106
6-6	ED-25713-10	5	T-25283-55	1,A	1	ED-25713-10	6	T-25283-56	1,A	107
					2		7	" -56	1,C	108
					3		8	" -40	1,A	109
7-7	ED-25713-10	6	T-25283-56	1,A	1	ED-25713-10	7	T-25283-56	1,C	110
					2		8	" -40	1,A	111
					3		-	" -57	1	112
8-8	ED-25713-10	7	T-25283-56	1,C	1	ED-25713-10	8	T-25283-40	1,A	113
					2		-	" -57	1	114
9-9	ED-25713-10	8	T-25283-40	1,A	1	ED-25713-10	-	T-25283-57	1	115

FIG. 4 INDEX TO LINE JUNCTOR DISTRIBUTION (Par. 7.3)

TABLE 11								
Block Information to Restrict Selection to Required Junctor Subgroup ED-25713-01 and ED-25713-01								
Number of Inc. Frs. or Inc. Grps. in Installation	Subgroup 1		Subgroup 2		Subgroup 3		Subgroup 4	
	Block Oper.	Disconnect Strap	Block Oper.	Disconnect Strap	Block Oper.	Disconnect Strap	Block Oper.	Disconnect Strap
2	RTA OVB OVC OVE	A9	RTB OVA OVC OVE	A9	RTC OVA OVB OVE	A9	RTE OVA OVB OVC	D10
3	RTA OVB OVE	A9	RTB OVA OVE	A9	RTE OVA OVB	D10		
4-5-6-7-8-9	RTA OVE	A9	RTE OVA	D10				

FIG. 5 TABLE 11 PER SD-25511-01 (Pars. 5.2, 7.4)

6.2 It is not considered necessary to completely test all marker features or all channels, however sufficient tests should be made to insure that both markers and junctors are in workable order.

7. REFERENCE FIGURES

7.1 Figure 2 shows the amount of junctors per I per LCC for standard arrangements.

7.2 Figure 3 shows the amount of junctors cabled and cross connected for each pattern arrangement.

7.3 Figure 4 is an index to the sections covering the details of line junctor redistribution and also shows the drawings required.

7.4 Figure 5 is a reproduction of Table 11 per SD-25511-01 and is furnished for convenience only.

Arrows omitted due to extensive changes.

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Complete handbook revision.

Replaces Section 42B dated 6-19-47.