

**COMBINED AND COMPLETING MARKER CIRCUITS—PART 3**  
**TESTS USING MASTER TEST FRAME**  
**NO. 5 CROSSBAR OFFICES**

**1. GENERAL**

**PAGE**

**1.01** This section is Part 3 of a series of sections for testing combined and completing markers.

**1.02** The reasons for reissuing this section are listed below. Revision arrows are used to emphasize the more significant changes. This issue does not affect Equipment Test Lists.

- (a) To revise test procedures to include offices arranged with Electronic Translation System (ETS).
- (b) To make minor changes as required.

**1.03** The tests covered are:

**PAGE**

**J. Failure-to-Match Feature Using Nonallotted Intraoffice Trunks:**

This test checks that the marker recycles after a failure to match on calls using nonallotted intraoffice trunks. . . .

**2**

**K. Failure-to-Match Feature Using Outgoing or Intertoll Trunks:**

This test checks that the marker recycles after a failure to match on calls using outgoing or intertoll trunks. . . .

**5**

**L. Failure-to-Match Feature Using Incoming or Intertoll Trunks:**

This test checks that the marker recycles after a failure to match on calls using incoming or intertoll trunks. . . .

**6**

**M. Junctor Subgroup Selection Feature:**

This test checks the operation of the junctor subgroup sequence (JSQ0-5) and step position (STP1-2) relays. . . .

**8**

**N. Channel Preference Feature:**

This test checks the preference and selection of a channel by the marker.

**10**

**1.04** ♦All tests♦ require action and verification at the master test frame (MTF) and line link frame.

**1.05 Lettered Steps:** A letter a, b, c, etc, added to a step number in Part 3 of this section indicates an action which may or may not be required depending on local conditions. The condition under which a lettered step or a series of lettered steps should be made is given in the ACTION column, and all steps governed by the same condition are designated by the same letter within a test. Where a condition does not apply, all steps designated by that letter should be omitted.

**1.06** The manner of selecting some circuits and test conditions at the MTF and its associated circuits varies depending on the apparatus options furnished with these circuits. Therefore, where variable means of selection are provided, precise instructions for the selection of circuits and test conditions are not given. Precise instructions for the use of these variable means are given in Section 218-106-301.

**1.07** The location statement, At MTF—, is used to refer to all apparatus located on the four basic bays of the MTF.

**1.08** ♦When the office is arranged for LAMA-C or ETS, the distributors and scanners associated with the marker and trunk used in the test call must be in service or in a **maintenance busy** condition - not in an **out-of-service** condition. To change a scanner or distributor from

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an *out-of-service* to a *maintenance-busy* condition, use the procedure given in the following sections for the office arrangement.

- 218-798-308 - Taking LAMA-C Equipment Out-of-Service
- 218-799-701 - Taking ETS Equipment Out-of-Service.

**1.09** Additional test procedures are available for verification of leads between the completing marker and the distributor and scanner (DAS). Refer to Section 218-122-531 for DAS application to LAMA-C or Section 218-799-321 for DAS application to ETS.

**1.10** When making tests in No. 5 crossbar offices arranged with Electronic Translation System and test verification requires a completing marker trace output (teletype printout or data dump) to determine the data used to process a call, operate

the TCPO key at the master test frame (MTF). The data dump received at the maintenance teletypewriters (TTY) may be in a raw form (binary or hexadecimal numbering system), formatted into decimal and written text, or a combination of both. For additional information on data dumps and formats used, refer to Section 218-799-102.4

**2. APPARATUS**

**All Tests**

**2.01** Master test control circuit, SD-25800-01.

**All Tests**

**2.02** 351C (make-busy) plugs as required.

**Test N**

**2.03** 32A test set.

**3. METHOD**

<b>STEP</b>	<b>ACTION</b>	<b>VERIFICATION</b>
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*Note:* Refer to paragraphs 1.06, 1.07, 1.08, 1.09, and 1.10.

**J. Failure-to-Match Feature Using Nonallotted Intraoffice Trunks**

- |   |  |                         |
|---|--|-------------------------|
| 1 | At MTF—<br>Restore all keys and switches.  |                         |
| 2 | Momentarily operate RL key.  | All lamps extinguished. |
| 3 | Select trunk link frame having at least two idle nonallotted intraoffice trunks and at least one idle tone trunk.                    |                         |
| 4 | Select ORIG class of test.   |                         |
| 5 | Select line location as required for line identification of any line having access to intraoffice route.                             |                         |
| 6 | Select class of service and rate treatment as required for access to selected route.   |                         |
| 7 | Select A_ through G_ digits as required for intraoffice code and numerals of called individual line whose line link frame appearance |                         |

STEP	ACTION	VERIFICATION
	is on the <b>same</b> line link frame and horizontal group as originating line selected in Step 5.	
8	Select OR class of call with an LT translator indication.	
9a	If 4-wire switching route is selected— Operate 4W key.	
10b	If office is arranged for multilevel preemption— Select CDP, CD control digits as required for access to selected route.	
11c	◆If ETS provided— Operate PCS, PTS keys.◆	
12	Select marker under test.	
13	Select channel 0.	
14	Select junctor sequence 0.	
15	Operate STP1 key.	
16	Operate REC key.	
17d	◆If ETS provided and CM dump is required— Operate TCPO key.	
	<b>Note:</b> Refer to paragraph 1.10.◆	
18	Momentarily operate ST key.	MRL, RA1 lamps lighted. Three trouble records taken. <b>First and second trouble records—</b> FLG, CHO designations perforated. TG_, TB_, FS_, TS_, LC_, LV_, FBK designations perforated indicating location of called end of nonallotted intraoffice trunks. ◆If ETS provided— TG_ designation not perforated.◆ <b>Third trouble record—</b> GS_ designation perforated. TG_, TB_, FS_, TS_, LC_, LV_, FAK/FBK designations perforated indicating location of tone trunk. ◆If ETS provided— GS_, TG_ designations not perforated.◆
19	Momentarily operate RL key.	All lamps extinguished.
20	At line and junctor switch bay of line link frame determined in Step 5—	Junctor hold magnets operated.

STEP	ACTION	VERIFICATION
	<p>When junctor hold magnets of channel selected are released—            Insert make-busy plugs into sleeve grounding jack of hold magnets of junctor switch 0 which have junctors to trunk link frame determined in Step 3. (Refer to Table A.)</p>	<p><b>Caution:</b> Before proceeding with this test, check that no crosspoints associated with operated hold magnets are closed.</p>
21	<p>At MTF—            Momentarily operate ST key.</p>	<p>RBT1, BT-OF, RA1 lamps lighted.            Trouble record taken.            FM , GS- designations perforated.            TG_ , TB_ , FS_ , TS_ designations perforated.            ♦If ETS provided—                GS_ , TG_ designations not perforated.♦</p> <p><b>Note:</b> These lamps and perforations indicate that first, second, and third failure-to-match functions are successful.</p>
22	<p>Momentarily operate RL key.</p>	<p>All lamps extinguished.</p>
23e	<p>If office is arranged for PBX recycle on failure to match—            Select A- through G- digits as required for intraoffice code and numerals of called PBX line whose line link frame appearance is on <b>same</b> line link frame and horizontal group as originating line selected in Step 5.</p>	
24e	<p>Momentarily operate ST key.</p>	<p>RBT1, BT-OF, RA1 lamps lighted.            Two trouble records taken.  <b>First trouble record—</b>            PRCY, FLG designations perforated.            TG_ , TB_ , FS_ , TS_ , LC_ , LV_ , FBK designations perforated indicating location of called end of nonallotted intraoffice trunk.            ♦If ETS provided—                TG_ designation not perforated.♦  <b>Second trouble record—</b>            FM, GS_ designations perforated.            TG_ , TB_ , FS_ , TS_ designations perforated.            ♦If ETS provided—                GS_ , TG_ designations not perforated.♦</p>
25e	<p>Momentarily operate RL key.</p>	<p>All lamps extinguished.</p>
26e	<p>At line and junctor switch bay—            Remove make-busy plugs.</p>	
27	<p>At MTF—            Restore all keys and switches.</p>	

STEP	ACTION	VERIFICATION
<b>K. Failure-to-Match Feature Using Outgoing or Intertoll Trunks</b>		
1	At MTF— Restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.
3	Select trunk link frame having at least two idle nonallotted outgoing or intertoll trunks (of the same route, having no alternate route) and at least one idle tone trunk.	
4	Select ORIG class of test.	
5	Select line location as required for line identification of any line having access to selected route.	
6	Select class of service and rate treatment as required for access to selected route.	
7	Select A_ through K_ digits as required to direct call to selected route.	
8a	If 4-wire switching route is selected— Operate 4W key.	
9b	If office is arranged for multilevel preemption— Select CDP, CD control digits as required for access to selected route.	
10c	◆If ETS provided— Operate PCS, PTS keys.◆	
11	Select route advance as required for access to selected route.	
12	Select marker under test.	
13	Select OR class of call with translator indication as required for access to selected route.	
14	Select channel 0.	
15	Select junctor sequence 0.	
16	Operate STP1 key.	
17	Operate REC key.	

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STEP	ACTION	VERIFICATION
18d	<p>◆If ETS provided and CM dump is required— Operate TCPO key.</p> <p><i>Note:</i> See paragraph 1.10.◆</p>	
19	Momentarily operate ST key.	<p>MRL lamp lighted. Trouble record taken. CH0 designation perforated. TG_, TB_, FS_, TS_, LC_, LV_, FAK/FBK designations perforated indicating location of outgoing trunk. ◆If ETS provided— TG_ designation not perforated.◆</p>
20	Momentarily operate RL key.	All lamps extinguished.
21	<p>At line and junctor switch bay of line link frame selected in Step 5— When junctor hold magnets of channel selected are released— Insert make-busy plugs into sleeve grounding jack of hold magnets of junctor switch 0 which have junctors to trunk link frame determined in Step 3. (Refer to Table A.)</p>	<p>Junctor hold magnets operated.</p> <p><b>Caution:</b> <i>Before proceeding with this test, check that no crosspoints associated with operated hold magnets are closed.</i></p>
22	<p>At MTF— Momentarily operate ST key.</p>	<p>RBT1, BT-OF, RA1 lamps lighted. Trouble record taken. FM_, GS_ designations perforated. TG_, TB_, FS_, TS_ designations perforated. ◆If ETS provided— GS_, TG_ designations not perforated.◆</p> <p><b>Note:</b> These lamps and perforations indicate that first, second, and third failure-to-match functions were successful.</p>
23	Momentarily operate RL key.	All lamps extinguished.
24	Restore all keys and switches.	
25	<p>At line and junctor switch bay— Remove make-busy plugs.</p>	
<p><b>L. Failure-to-Match Feature Using Incoming or Intertoll Trunks</b></p>		
1	<p>At MTF— Restore all keys and switches.</p>	
2	Momentarily operate RL key.	All lamps extinguished.
3	Select marker under test.	

STEP	ACTION	VERIFICATION
4	Select INC class of test.	
5	Select A_ through K_ digits as required to terminate call to any individual line location.	
6	Select any trunk link frame.	
7	Select incoming class of call with translator indication as required for local or toll incoming call.	
8a	If intertoll route is selected— ♦Select TOL incoming class of call with translator indication as required for completion to called line.♦	
9	Select incoming trunk class as required for completion to called line.	
10b	If 4-wire switching route is selected— Operate 4W key.	
11c	If office is arranged for multilevel preemption— Select CDP, CDA, CD control digits as required for access to called line.	
12d	If office is arranged for multilevel preemption and call is directed to line with multilevel preemption features— Operate AD key.	
13e	If office is arranged for multilevel preemption and call is directed to line without multilevel preemption features— Operate OD key.	
14	Select channel 0.	
15	Select junctor sequence 0.	
16	Operate STP1 key.	
17	Operate REC key.	
18f	♦If ETS provided and CM dump is required— Operate TCPO key.	
	<b>Note:</b> See paragraph 1.10.♦	
19	At line and junctor switch bay of line link frame selected in Step 5— When junctor hold magnets of channel selected	Junctor hold magnets operated. <b>Caution:</b> Before proceeding with this

STEP	ACTION	VERIFICATION
	are released— Insert make-busy plugs into sleeve grounding jack of junctor hold magnets of junctor switch 0 which have junctors to trunk link frame selected in Step 6. (Refer to Table A.)	<i>test, check that no crosspoints associated with operated hold magnets are closed.</i>
20	At MTF— Momentarily operate ST key.	OFL, MRL lamps lighted. Trouble record taken. FM, RS0, RS9, OV, OFH designations perforated.
21	Momentarily operate RL key.	All lamps extinguished.
22	At line and junctor switch bay— Remove make-busy plugs.	
23g	If office is arranged for PBX recycle on a failure to match— At MTF— Select A_ through K_ digits as required to terminate call to a PBX line location.	
24g	At line and junctor switch bay of line link frame selected in Step 23g— When junctor hold magnets of channel selected are released— Insert make-busy plugs into sleeve grounding jack of junctor hold magnets of junctor switch 0 which have junctors to trunk link frame selected in Step 6. (Refer to Table A.)	Junctor hold magnets operated.  <i>Caution: Before proceeding with this test, check that no crosspoints associated with operated hold magnets are closed.</i>
25g	At MTF— Momentarily operate ST key.	PBX, DIS1, LK2, MRL lamps lighted. Trouble record taken. FM, PRCY designations perforated indicating completion to another line in PBX hunting group.
26g	Momentarily operate RL key.	All lamps extinguished.
27g	At line and junctor switch bay— Remove make-busy plugs.	
28	At MTF— Restore all keys and switches.	
<b>M. Junctor Subgroup Selection Feature</b>		
1	At MTF— Restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.

STEP	ACTION	VERIFICATION
3	Select A_ through K_ digits as required to direct call to outgoing route.	
	<i>Note:</i> If marker serves both 2-wire and 4-wire switching networks, select a route for the network that has the smaller number of trunk link frames.	
4	Select trunk link frame having access to selected route.	
5	Select ORIG class of test.	
6	Select line location of any line having access to selected route.	
7	Select class of service and rate treatment as required for access to selected route.	
8	Select OR class of call with translator indication as required for selected route.	
9a	If 4-wire switching route is selected— Operate 4W key.	
10b	If office is arranged for multilevel preemption— Select CDP, CD control digits as required for access to selected route.	
11	Select marker under test.	
12	Select route advance as required for access to selected route.	
13c	◆If ETS provided— Operate PCS, PTS keys.◆	
14	Operate REC key.	
15d	◆If ETS provided and CM dump is required— Operate TCPO key.	
	<i>Note:</i> See paragraph 1.10.◆	
16	Select junctor sequence 0.	
17	Momentarily operate ST key.	MRL lamp lighted. Trouble record taken. STP1, JG_ designations perforated indicating proper subgroup of junctors for junctor step (STP1) and sequence (JSQ0). Refer to Table B.)

STEP	ACTION	VERIFICATION
18	Momentarily operate RL key.	All lamps extinguished.
19	At line and junctor switch bay of line link frame selected in Step 6— When junctor hold magnet is released— Insert make-busy plug into sleeve grounding jack of junctor hold magnet. (Refer to Table C.)  <i>Note:</i> Junctor to be made busy must be a junctor in subgroup indicated by trouble record taken in Step 17 and must be on a junctor switch that has an available junctor for junctor step (STP2) and sequence (JSQ0). (Refer to Tables B and C.)	Junctor hold magnet operated.  <i>Caution: Before proceeding with this test, check that no crosspoint associated with operated hold magnet are closed.</i>
20	At MTF— Select channel corresponding to junctor switch used in Step 19.	
21	Repeat Steps 17 and 18 checking that correct junctor subgroup is selected for junctor step (STP2) and sequence (JSQ0). (Refer to Table B.)	
22	At line and junctor switch bay— Remove make-busy plug.	
23	At MTF— Restore JSQ0.	
24	Repeat Steps 16 through 23 selecting junctor sequences (JSQ1, 2, 3, 4, 5) consecutively and checking that correct junctor subgroup is selected for junctor steps (STP1, 2). (Refer to Tables B and C.)	
25	Restore all keys and switches.	

#### N. Channel Preference Feature

*Note:* Generally, channel preference for first trial is in numerical sequence 0 through 9 and for second trial, 5 through 9 and then 0 through 4. However, if marker cross-connections for the alternate arrangement is made, channel preference for first trial is 5 through 9 and then 0 through 4; and for second trial 0 through 9.

- |   |   |  |
|---|---|--|
| 1 | At MTF—<br>Restore all keys and switches. |  |
|---|---|--|

STEP	ACTION	VERIFICATION
2	Momentarily operate RL key.	All lamps extinguished.
3	Select A_ through K_ digits as required to direct call to outgoing route.	
4	Select ORIG class of test.	
5	Select OR class of call with translator indication as required for selected route.	
6	Select trunk link frame having access to selected route.	
7	Select line location of any line having access to selected route.	
8	Select class of service and rate treatment as required for access to selected route.	
9a	If 4-wire switching route is selected— Operate 4W key.	
10b	If office is arranged for multilevel preemption— Select CDP, CD control digits as required for access to selected route.	
11c	♦If ETS provided— Operate PCS, PTS keys.♦	
12	Select marker under test.	
13	Select route advance as required for access to selected route.	
14	Select junctor sequence 0.	
15d	If improved channel testing is provided— Operate CHT key.	
16	At line link frame determined in Step 7— Insert plug of 32A test set into RC jack.	
17	Momentarily operate white (ST) button.	Junctor hold magnet associated with most preferred idle channel for first trial momentarily operated.

**Note:** When a channel is busy on a service call, proceed to the next preferred channel for checking momentary operation of junctor hold magnet. If a busy channel becomes idle during the progress of this test, it immediately regains its position in the preference chain.

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STEP	ACTION	VERIFICATION
18	Momentarily operate red (RL) button.	
19	When junctor hold magnet (momentarily operated in Step 17) is released— Insert make-busy plug into sleeve grounding jack of junctor hold magnet.	Junctor hold magnet operated.  <b>Caution: Before proceeding with this test, check that no crosspoints associated with operated junctor hold magnet are closed.</b>
20	Repeat Steps 17, 18, and 19 until all junctor hold magnets, from the most preferred to the least preferred idle channel for first trial, have been checked and made busy.	
21	Restore to service five junctors made busy in Step 19 associated with the five least preferred channels for first trial.	
22	At MTF— Operate TR2 key.	
23	At line link frame determined in Step 7— Repeat Steps 17, 18, and 19 until the five junctor hold magnets associated with the most preferred idle channels for second trial have been checked and made busy.	Junctor hold magnet associated with the most preferred idle channel for second trial momentarily operated.
24	Restore to service remaining five junctors made busy in Step 19.	
25	Repeat Steps 17, 18, and 19 until the five junctor hold magnets associated with the least preferred idle channels for second trial have been checked and made busy.	Junctor hold magnet associated with the most preferred idle channel for second trial momentarily operated.
26	Restore to service all junctors made busy in Step 19.	
27	Remove plug of 32A test set from RC jack.	
28	At MTF— Restore all keys and switches.	

**TABLE A**  
**JUNCTOR GROUPING PATTERN WHEN JSQO SELECTED**

NUMBER OF TRUNK LINK FRAMES*			LINE LINK VERTICAL									
SINGLE	PAIRED	TRIPLED	0	1	2	3	4	5	6	7	8	9
2	4		JG0	JG0								
		6	JG0	JG0								
2-3	4-6		JG0	JG0	JG0							
		6-9	JG0	JG0	JG0							
3	6		JG0	JG0	JG0							
		9	JG0	JG0	JG0							
4	8	12	JG0	JG0	JG0	JG0						
5	10	15	JG0	JG0	JG0	JG0	JG0					
6			JG0	JG0	JG0	JG0	JG0	JG0				
	12		JG0	JG0	JG0	JG0	JG0	JG0	JG0			
		18	JG0	JG0	JG0	JG0	JG0	JG0	JG0			
7			JG0	JG0	JG0	JG0	JG0	JG0	JG0	JG0		
	14	21	JG0	JG0	JG0	JG0	JG0	JG0	JG0	JG0		
8	16	24	JG0	JG0	JG0	JG0	JG0	JG0	JG0	JG0	JG0	
9	18	27	JG0	JG0	JG0	JG0	JG0	JG0	JG0	JG0	JG0	JG0
10	20	30	JG0	JG0	JG0	JG0	JG0	JG0	JG0	JG0	JG0	JG0

\* Two- or 4-wire frames.

TABLE B

## JUNCTOR SUBGROUP SELECTED (JG- DESIGNATION PERFORATED)

NUMBER OF TRUNKS LINK FRAMES*			JUNCTOR STEP POSITION (STP1 OR STP2)	JUNCTOR SEQUENCE (JSQ-)					
SINGLE	PAIRED	TRIPLED		0	1	2	3	4	5
2	4	6	1	JG0	JG1	JG2	JG0	JG1	JG2
			2	JG3	JG4	JG3	JG4	JG3	JG4
2-3	4-6	6-9	1	JG0	JG1	JG2	JG0	JG1	JG2
			2	JG1	JG2	JG0	JG1	JG2	JG0
3	6	9	1	JG0	JG1	JG2	JG0	JG1	JG2
			2	JG3	JG3	JG3	JG3	JG3	JG3
4	8	12	1	JG0	JG1	JG0	JG1	JG0	JG1
			2	JG2	JG2	JG2	JG2	JG2	JG2
5	10	15	1	JG0	JG1	JG0	JG1	JG0	JG1
			2	JG1	JG0	JG1	JG0	JG1	JG0
6	12	18	1	JG0	JG0	JG0/1‡	JG0	JG0	JG0/1‡
			2	JG1	JG1/2‡	JG0/1‡	JG1/2‡	JG1	JG0/2‡
7	14	21	1	JG0	JG0	JG0	JG0	JG0	JG0/1‡
			2	JG1	JG1/2‡	JG1	JG1/2‡	JG1	JG0/2‡
8	16	24	1	JG0	JG0	JG0	JG0	JG0	JG0
			2	JG1	JG1	JG1	JG1	JG1	JG1
9	18	27	1	JG0	JG0	JG0	JG0	JG0	JG0
			2	JG1	JG1	JG1	JG1	JG1	JG1
10	20	30	1	JG0	JG0	JG0	JG0	JG0	JG0

\* Two- or 4-wire frames.

† JG0 designation perforated if three junctor subgroups exist between line link and trunk link frames.

JG1 designation perforated if two junctor subgroups exist between line link and trunk link frames.

‡ Lower-numbered JG- designation perforated if two junctor subgroups exist between line link and trunk link frames.

Higher-numbered JG- designation perforated if three junctor subgroups exist between line link and trunk link frames.

**TABLE C**  
**JUNCTOR GROUPING PATTERN**

NUMBER OF TRUNK LINK FRAMES*			LINE LINK VERTICAL									
SINGLE	PAIRED	TRIPLED	0	1	2	3	4	5	6	7	8	9
2	4		JG0	JG0	JG3	JG3	JG2	JG2	JG4	JG4	JG1	JG1
		6	JG0	JG0	JG4	JG4	JG2	JG2	JG3	JG3	JG1	JG1
2-3	4-6		JG0	JG0	JG0	†	JG2	JG2	JG2	JG1	JG1	JG1
		6-9	JG0	JG0	JG0	JG2	JG2	JG2	‡	JG1	JG1	JG1
3	6		JG0	JG0	JG0	JG3	JG2	JG2	JG2	JG1	JG1	JG1
		9	JG0	JG0	JG0	JG2	JG2	JG2	JG3	JG1	JG1	JG1
4	8	12	JG0	JG0	JG0	JG0	JG2	JG2	JG1	JG1	JG1	JG1
5	10	15	JG0	JG0	JG0	JG0	JG0	JG1	JG1	JG1	JG1	JG1
6	12		JG0	JG0	JG0	JG0	JG0	JG0	‡	‡	JG1	JG1
			JG0	JG0	JG0	JG0	JG0	JG0	JG2	JG1	JG1	‡
		18	JG0	JG0	JG0	JG0	JG0	JG0	§	§	§	§
7	14		JG0	JG0	JG0	JG0	JG0	JG0	JG0	JG1	¶	JG1
		21	JG0	JG0	JG0	JG0	JG0	JG0	JG0	¶	JG1	JG1
8	16	24	JG0	JG0	JG0	JG0	JG0	JG0	JG0	JG0	JG1	JG1
9	18	27	JG0	JG0	JG0	JG0	JG0	JG0	JG0	JG0	JG0	JG1
10	20	30	JG0	JG0	JG0	JG0	JG0	JG0	JG0	JG0	JG0	JG0

\* Two- or 4-wire frames.

† This vertical is not used for this transition arrangement.

‡ Channels 2, 4, 6 are in group 2, all others in subgroup 1.

§ For line link frames 00 through 23, channels 2, 4, 6 of line link verticals 7, 9 are in subgroup 2, all others in subgroup 1; for line link frames 24 through 35, channels 2, 4, 6 of line link verticals 6, 8 are in subgroup 2, all others in subgroup 1.

¶ Channels 0, 7 are in group 2, all others in subgroup 1.