

COMBINED AND COMPLETING MARKER CIRCUITS—PART 24
TESTS USING MASTER TEST FRAME
NO. 5 CROSSBAR OFFICES

1. GENERAL

1.01 This section is Part 24 in 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 affects the Equipment Test Lists.

(a) To indicate that Test CN does not apply in offices equipped with Electronic Translation System (ETS).

(b) To make minor changes as required.

1.03 The test covered is:

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***CN. Storage of Precedence Levels—
Multilevel Preemption Pro-
vided—ETS Not Provided.*** This test checks the storage of precedence levels in lines and trunks for outgoing, terminating, intraoffice, and tandem-type calls.

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1.04 ***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.

1.05 The manner of selecting some circuits and test conditions at the master test frame (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.

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

2. APPARATUS

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

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

3. METHOD

STEP	ACTION	VERIFICATION
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Note: Refer to paragraphs 1.04 through 1.06.

**CN. Storage of Precedence Levels—Multilevel
Preemption Provided—ETS Not Provided**

Subscriber Outgoing Call

1	At MTF— Restore all keys and switches.	All lamps extinguished.
2	Momentarily operate RL key.	All lamps extinguished.
3	Select ORIG class of test.	
4	Select A_ through K_ digits as required to select outgoing route.	
5	Select originating class of call with translator indication as required for access to selected route.	
6	Select line location having access to selected route.	
7	Select class of service and rate treatment as required for access to selected route.	
8	Select route advance as required for access to selected trunk group.	
9a	If polygrid route is selected— Select JSQ_ as required for routing control.	
10	Select marker under test.	
11	Operate 4W, REC keys.	
12	Select CDP_ CD_ control digits as required for P-4 priority.	
13	Momentarily operate ST key.	DIS1, LK2, 4W, MRL lamps lighted. LP_ TP_ lamps not lighted. Trouble record taken. TPMK, LPMK designations perforated.
14	Momentarily operate RL key.	All lamps extinguished.
15	Select CDP_ CD_ control digits as required for P-3 priority.	

STEP	ACTION	VERIFICATION
16	Momentarily operate ST key.	DIS1, LK2, 4W, MRL, LP1, LP2 lamps lighted. Trouble record taken. TPMK, LPMK designations perforated.
17	Momentarily operate RL key.	All lamps extinguished.
18	Select CDP_, CD_ control digits as required for P-2 priority.	
19	Momentarily operate ST key.	DIS1, LK2, 4W, MRL, LP0, LP2 lamps lighted. Trouble record taken. TPMK, LPMK designations perforated.
20	Momentarily operate RL key.	All lamps extinguished.
21	Select CDP_, CD_ control digits as required for P-1 priority.	
22	Momentarily operate ST key.	DIS1, LK2, 4W, MRL, LP0, LP1 lamps lighted. Trouble record taken. TPMK, LPMK designations perforated.
23	Momentarily operate RL key.	All lamps extinguished.
24	Select CDP_, CD_ control digits as required for P-0 priority.	
25	Momentarily operate ST key.	DIS1, LK2, 4W, MRL, LP0, LP1, LP2 lamps lighted. Trouble record taken. TPMK, LPMK designations perforated.
26	Momentarily operate RL key.	All lamps extinguished.
27	Restore all keys and switches.	

Terminating Call

28	At MTF— Restore all keys and switches.	
29	Momentarily operate RL key.	All lamps extinguished.
30	Select INC class of test.	
31	Select A_ through G_ digits as required to direct call to local preemptable line.	
32	Select TOL incoming class of call with translator indication as required for completion to called line.	

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STEP	ACTION	VERIFICATION
33	Select incoming trunk class for completion to called line.	
34	Select any trunk link frame.	
35	Select marker under test.	
36	Operate 4W, AD, REC keys.	
37	Select CDP_ CD_ CDA_ control digits as required for P-4 priority.	
38	Momentarily operate ST key.	DIS1, LK2, 4W, MRL lamps lighted. LP_ TP_ lamps not lighted. Trouble record taken. TPMK, LPMK designations perforated.
39	Momentarily operate RL key.	All lamps extinguished.
40	Select CDP_ CD_ CDA_ control digits as required for P-3 priority.	
41	Momentarily operate ST key.	DIS1, LK2, 4W, MRL, LP1, LP2, TP1, TP2 lamps lighted. Trouble record taken. TPMK, LPMK designations perforated.
42	Momentarily operate RL key.	All lamps extinguished.
43	Select CDP_ CD_ CDA_ control digits as required for P-2 priority.	
44	Momentarily operate ST key.	DIS1, LK2, 4W, MRL, LP0, LP2, TP0, TP2 lamps lighted. Trouble record taken. TPMK, LPMK designations perforated.
45	Momentarily operate RL key.	All lamps extinguished.
46	Select CDP_ CD_ CDA_ control digits as required for P-1 priority.	
47	Momentarily operate ST key.	DIS1, LK2, 4W, MRL, LP0, LP1, TP0, TP1 lamps lighted. Trouble record taken. TPMK, LPMK designations perforated.
48	Momentarily operate RL key.	All lamps extinguished.
49	Select CDP_ CD_ CDA_ control digits as required for P-0 priority.	

STEP	ACTION	VERIFICATION
50	Momentarily operate ST key.	DIS1, LK2, 4W, MRL, LP0, LP1, LP2, TP0, TP1, TP2 lamps lighted. Trouble record taken. TPMK, LPMK designations perforated.
51	Momentarily operate RL key.	All lamps extinguished.
52	Restore all keys and switches.	
Intraoffice Call		
53	At MTF— Restore all keys and switches.	
54	Momentarily operate RL key.	All lamps extinguished.
55	Select ORIG class of test.	
56	Select A_ through G_ digits as required to direct call to a nonpreemptable line (no precedence memory storage).	
57	Select OR class of call with LT translator indication.	
58	Select line location of a preemptable originating line.	
59	Select class of service and rate treatment as required for access to selected route.	
60	Select marker under test.	
61	Operate 4W, NGPA/NGPB, REC keys as required.	
62	Select CDP_ CD_ control digits as required for P-4 priority.	
63	Momentarily operate ST key.	LP_ lamp not lighted. First trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FBK designations perforated indicating location of B appearance of intraoffice trunk. LPMK designation perforated. Second trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK designations perforated indicating location of A appearance of intraoffice trunk. TPMK, LPMK designations perforated.
64	Momentarily operate RL key.	All lamps extinguished.

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STEP	ACTION	VERIFICATION
65	Select CDP_, CD_ control digits as required for P-3 priority.	
66	Momentarily operate ST key.	LP1, LP2 lamp lighted. First trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FBK designations perforated indicating location of B appearance of intraoffice trunk. LPMK designation perforated. Second trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK designations perforated indicating location of A appearance of intraoffice trunk. TPMK, LPMK designations perforated.
67	Momentarily operate RL key.	All lamps extinguished.
68	Select CDP_, CD_ control digits as required for P-2 priority.	
69	Momentarily operate ST key.	LP0, LP2 lamps lighted. First trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FBK designations perforated indicating location of B appearance of intraoffice trunk. LPMK designation perforated. Second trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK designations perforated indicating location of A appearance of intraoffice trunk. TPMK, LPMK designations perforated.
70	Momentarily operate RL key.	All lamps extinguished.
71	Select CDP_, CD_ control digits as required for P-1 priority.	
72	Momentarily operate ST key.	LP0, LP1 lamps lighted. First trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FBK designations perforated indicating location of B appearance of intraoffice trunk. LPMK designation perforated. Second trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK designations perforated indicating location of A appearance of intraoffice trunk. TPMK, LPMK designations perforated.
73	Momentarily operate RL key.	All lamps extinguished.

STEP	ACTION	VERIFICATION
74	Select CDP_, CD_ control digits as required for P-0 priority.	
75	Momentarily operate ST key.	LP0, LP1, LP2 lamps lighted. First trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FBK designations perforated indicating location of B appearance of intraoffice trunk. LPMK designation perforated. Second trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK designations perforated indicating location of A appearance of intraoffice trunk. TPMK, LPMK designations perforated.
76	Momentarily operate RL key.	All lamps extinguished.
77	Select A_ through G_ digits as required to direct call to a preemptable line.	
78	Select line location of a nonpreemptable originating line (no precedence memory storage).	
79	Select CDP_, CD_ control digits as required for P-4 priority.	
80	Momentarily operate ST key.	LP_ lamps not lighted. First trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FBK designations perforated indicating location of B appearance of intraoffice trunk. LPMK designation perforated. Second trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK designations perforated indicating location of A appearance of intraoffice trunk. TPMK, LPMK designations perforated.
81	Momentarily operate RL key.	All lamps extinguished.
82	Select CDP_, CD_ control digits as required for P-3 priority.	
83	Momentarily operate ST key.	LP1, LP2 lamps lighted. First trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FBK designations perforated indicating location of B appearance of intraoffice trunk. LPMK designation perforated. Second trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK

STEP	ACTION	VERIFICATION
84	Momentarily operate RL key.	designations perforated indicating location of A appearance of intraoffice trunk. All lamps extinguished.
85	Select CDP_, CD_ control digits as required for P-2 priority.	
86	Momentarily operate ST key.	LP0, LP2 lamps lighted. First trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FBK designations perforated indicating location of B appearance of intraoffice trunk. Second trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK designations perforated indicating location of A appearance of intraoffice trunk.
87	Momentarily operate RL key.	All lamps extinguished.
88	Select CDP_, CD_ control digits as required for P-1 priority.	
89	Momentarily operate ST key.	LP0, LP1 lamps lighted. First trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FBK designations perforated indicating location of B appearance of intraoffice trunk. LPMK designation perforated. Second trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK designations perforated indicating location of A appearance of intraoffice trunk. TPMK, LPMK designations perforated.
90	Momentarily operate RL key.	All lamps extinguished.
91	Select CDP_, CD_ control digits as required for P-0 priority.	
92	Momentarily operate ST key.	LP0, LP1, LP2 lamps lighted. First trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FBK designations perforated indicating location of B appearance of intraoffice trunk. LPMK designation perforated. Second trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK designations perforated indicating location of A appearance of intraoffice trunk. TPMK, LPMK designations perforated.

STEP	ACTION	VERIFICATION
93	Momentarily operate RL key.	All lamps extinguished.
94	Select line location of a preemptable originating line.	
95	Select CDP_, CD_ control digits as required for P-4 priority.	
96	Momentarily operate ST key.	LP_ lamps not lighted. First trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FBK designations perforated indicating location of B appearance of intraoffice trunk. LPMK designation perforated. Second trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK designations perforated indicating location of A appearance of intraoffice trunk. TPMK, LPMK designations perforated.
97	Momentarily operate RL key.	All lamps extinguished.
98	Select CDP_, CD_ control digits as required for P-3 priority.	
99	Momentarily operate ST key.	LP1, LP2 lamps lighted. First trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FBK designations perforated indicating location of B appearance of intraoffice trunk. LPMK designation perforated. Second trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK designations perforated indicating location of A appearance of intraoffice trunk. TPMK, LPMK designations perforated.
100	Momentarily operate RL key.	All lamps extinguished.
101	Select CDP_, CD_ control digits as required for P-2 priority.	
102	Momentarily operate ST key.	LP0, LP2 lamps lighted. First trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FBK designations perforated indicating location of B appearance of intraoffice trunk. LPMK designation perforated. Second trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK designations perforated indicating location of

STEP	ACTION	VERIFICATION
		A appearance of intraoffice trunk. TPMK, LPMK designations perforated.
103	Momentarily operate RL key.	All lamps extinguished.
104	Select CDP_ CD_ control digits as required for P-1 priority.	
105	Momentarily operate ST key.	LP0, LP1 lamps lighted. First trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FBK designations perforated indicating location of B appearance of intraoffice trunk. LPMK designation perforated. Second trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK designations perforated indicating location of A appearance of intraoffice trunk. TPMK, LPMK designations perforated.
106	Momentarily operate RL key.	All lamps extinguished.
107	Select CDP_ CD_ control digits as required for P-0 priority.	
108	Momentarily operate ST key.	LP0, LP1, LP2 lamps lighted. First trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FBK designations perforated indicating location of B appearance of intraoffice trunk. LPMK designation perforated. Second trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK designations perforated indicating location of A appearance of intraoffice trunk. TPMK, LPMK designations perforated.
109	Momentarily operate RL key.	All lamps extinguished.
110	Restore all keys and switches.	
Tandem Through-Switched Call		
111	At MTF— Restore all keys and switches.	
112	Momentarily operate RL key.	All lamps extinguished.
113	Select INC class of call.	
114	Select A_ through K_ digits as required to select outgoing route.	

STEP	ACTION	VERIFICATION
115	Select TOL incoming class of call with translator indication as required for access to selected route.	
116	Select incoming trunk number.	
117	Select route advance as required for access to selected trunk group.	
118	Set STS_ switch to 5.	
119	Select marker under test.	
120	Operate 4W, AD, REC keys.	
121	Select CDP_, CD_, CDA_ control digits as required for P-4 priority.	
122	Momentarily operate ST key.	TP_ or LP_ lamps not lighted. Trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK/FBK designations perforated indicating location of tandem outgoing trunk selected. TPMK, LPMK designations perforated.
123	Momentarily operate RL key.	All lamps extinguished.
124	Select CDP_, CD_, CDA_ control digits as required for P-3 priority.	
125	Momentarily operate ST key.	TP1, TP2, LP1, LP2 lamps lighted. Trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK/FBK designations perforated indicating location of tandem outgoing trunk selected. TPMK, LPMK designations perforated.
126	Momentarily operate RL key.	All lamps extinguished.
127	Select CDP_, CD_, CDA_ control digits as required for P-2 priority.	
128	Momentarily operate ST key.	TP0, TP2, LP0, LP2 lamps lighted. Trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK/FBK designations perforated indicating location of tandem outgoing trunk selected. TPMK, LPMK designations perforated.
129	Momentarily operate RL key.	All lamps extinguished.

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STEP	ACTION	VERIFICATION
130	Select CDP_, CD_, CDA_ control digits as required for P-1 priority.	
131	Momentarily operate ST key.	TP0, TP1, LP0, LP1 lamps lighted. Trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK/FBK designations perforated indicating location of tandem outgoing trunk selected. TPMK, LPMK designations perforated.
132	Momentarily operate RL key.	All lamps extinguished.
133	Select CDP_, CD_, CDA_ control digits as required for P-0 priority.	
134	Momentarily operate ST key.	TP0, TP1, TP2, LP0, LP1, LP2 lamps lighted. Trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK/FBK designations perforated indicating location of tandem outgoing trunk selected. TPMK, LPMK designations perforated.
135	Momentarily operate RL key.	All lamps extinguished.
136	Restore all keys and switches.	