

COMBINED AND COMPLETING MARKER CIRCUITS—PART 10
TESTS USING MASTER TEST FRAME
NO. 5 CROSSBAR OFFICES

1. GENERAL

PAGE

1.01 This section is Part 10 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 reissue affects Equipment Test Lists.

- (a) To revise test procedures to include offices arranged with Electronic Translation System (ETS).
- (b) To exclude under verification in all tests, reference to "class of test" lamps.
- (c) To make minor changes as required.

1.03 The tests covered are:

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AW. Line-Busy Test Feature: This test checks that the marker recognizes:

- (1) A regular line-busy in offices not arranged for multilevel preemption.
- (2) A PBX-preemptable line—preempt busy in offices arranged for multilevel preemption.
- (3) An individual preemptable line—preempt busy in offices arranged for multilevel preemption.
- (4) A nonpreemptable line—line busy in offices arranged for multilevel preemption.

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AX. Nonallotted PBX or 2-Line Number Feature—Line Busy at Line Link Frame: This test checks that the marker recycles when it finds a nonallotted PBX line or line circuit busy at the line link frame and that the marker again attempts to locate another idle line in the number group if ETS is

not provided. If ETS is provided, software translations determine the next idle line. If successful in locating an idle line, the marker completes the call to that line. If it does not find an idle line for an intraoffice call, it causes a route advance to a tone trunk; for incoming calls, it sets the incoming trunk to return busy tone.

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AY. Allotted PBX Feature—ETS Not Provided—Line Busy at Line Link Frame: This test

checks that the marker makes an allotted number recycle when it finds an allotted PBX line or line circuit busy at the line link frame and that the marker attempts to find an idle line in another group associated with the allotted PBX or line circuit group.

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AZ. Service Call Feature and Zero Operator Feature: This test

checks that the marker handles service and directing codes requiring special operations.

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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

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(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.

1.07 On Issue 76D of SD-25800-01, a group of 18 "class of test" lamps was replaced by a single "start test" lamp designated STT. Since the designation given to the lamp is not specific, the lamp will not be called out in the section, as well as the 18 discontinued lamps, DT, ORIG, ITDO, ITNP, OGT, INC, OR, SDR, IR, MISC, IAO, MLV, LT, IMS, PTT, TVT, ATNT, and IMT.

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 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.

2. APPARATUS

All Tests

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

Test AW

2.02 Trunk test circuit, SD-25918-01.

2.03 371B (make-busy) plugs as required.

3. METHOD

STEP	ACTION	VERIFICATION
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Note: Refer to paragraphs 1.04 through 1.10.

AW. Line-busy Test Feature

2- and 4-Wire Offices—Multilevel Preemption Not Provided

1	At MTF— Restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.
3	Select INC class of test.	

STEP	ACTION	VERIFICATION
4	Select A_ through G_ digits as required to direct call to any non-PBX line.	
5	Select any trunk link frame.	
6	Select incoming trunk class as required for completion to called line.	
7	Select incoming class of call with translator indication as required for completion to called line.	
8a	If 4-wire switching route is selected— Operate 4W key.	
9	Select marker under test.	
10	Operate LB, REC keys.	
11b	◆If ETS provided and CM dump is required— Operate TCPO key.	
	Note: See paragraph 1.10.◆	
12	Momentarily operate ST key.	BY, MRL lamps lighted. Trouble record taken. BY, LB, OFH designations perforated.
13	Momentarily operate RL key.	All lamps extinguished.
14	Restore all keys and switches.	
15	Select ORIG class of test.	
16	Select A_ through G_ digits as required to direct call through intraoffice route to any non-PBX line.	
17	Select OR class of call with LT translator indication.	
18	Select line location as required for line identification of any line having originating service.	
19	Select class of service and rate treatment as required for access to selected route.	
20c	◆If ETS provided— Operate PCS key.◆	

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STEP	ACTION	VERIFICATION
21a	If 4-wire switching route is selected— Operate 4W key.	
22	Select marker under test.	
23	Operate LBL, REC keys.	
24b	◆If ETS provided and CM dump is required— Operate TPCO key.◆	
25	Momentarily operate ST key.	RA1, MRL lamps lighted. Trouble record taken. LB designation perforated. FS_, TS_, TG_, TB_, LC_, LV_, FAK/FBK designations perforated indicating location of tone trunk. ◆If ETS provided— TG_ designation not perforated.◆
26	Momentarily operate RL key.	All lamps extinguished.
27	Restore all keys and switches.	

4-Wire Office—Multilevel Preemption Provided—◆ETS Not Provided◆

PBX—Preemptable Line—Preempt Busy

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 an auxiliary line in a PBX hunting group.	
32	Select any trunk link frame.	
33	Select incoming trunk class as required for completion to called line.	
34	Select TOL incoming class of call with translator indication as required for completion to called line.	
35	Select marker under test.	
36	Operate 4W, AD, NTLs, TR2, ALB, PBXH, REC keys.	

STEP	ACTION	VERIFICATION
37	Select last line in last tens block associated with number selected in Step 31.	
38	Select CDP, CDA, CD control digits as required for P-0 priority.	
39	Set STS_ switch to 0.	
40	At 19A testboard— Insert make-busy plug into jack associated with line selected in Step 31.	LO lamp lighted.
41	At MTF— Momentarily operate ST key.	4W, DIS1, MRL lamps lighted. Trouble record taken. PLB or RI designation perforated. FTT_, FTU_, VGT_, or VGT/T_, VGT/U_, HGT_, VFT_ designations perforated indicating line location of intercept or announcement trunk.
42	Momentarily operate RL key.	All lamps extinguished.
43	Restore TR2, REC keys.	
44	Momentarily operate ST key.	MRL, PLB lamps lighted. Trouble record taken. PLB designation perforated.
45	Momentarily operate RL key.	All lamps extinguished.
46	Operate TR2, REC keys.	
47	Select CDP, CDA, CD control digits as required for P-1 priority.	
48	Set STS_ switch to 1.	
49	Momentarily operate ST key.	4W, DIS1, MRL lamps lighted. Trouble record taken. PLB or RI designation perforated. FTT_, FTU_, VGT_, or VGT/T_, VGT/U_, HGT_, VFT_ designations perforated indicating line location of intercept or announcement trunk.
50	Momentarily operate RL key.	All lamps extinguished.
51d	If office is arranged for other priority levels— Repeat Steps 38 through 42 substituting P-2, P-3, P-4 in Step 38 and STS_ switch setting 2, 3, 4 in Step 39 as required.	Note: When testing P-4, the verification will be: BY, 4W, DIS1, MRL lamps lighted. Trouble record taken. BY designation perforated.

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STEP	ACTION	VERIFICATION
52	Restore all keys and switches.	
4-Wire Office—Multilevel Preemption Provided—ETS Not Provided		
Individual Preemptable Line—Preempt Busy		
53	At MTF— Restore all keys and switches.	
54	Momentarily operate RL key.	All lamps extinguished.
55	Select LT class of test.	
56	Select A_ through G_ digits as required to direct call to an individual auxiliary line circuit.	
57	Select incoming class of call with translator indication as required for completion to called line.	
58	Select marker under test.	
59	Operate 4W, AD, E-M, TM2, E, TLK keys.	
60	Operate REC key.	
61	Set DC switch to position 2.	
62	Operate DC SET key.	
63	Select CDP, CDA, CD control digits as required for P-0 priority.	
64	Momentarily operate ST key.	4W, DIS1, LK2, MTT lamps lighted.
65	Operate MTTA key.	
66	Momentarily operate RL key.	4W lamp extinguished.
67	Operate 4ANS, TM1 keys.	
68	Momentarily operate ST key.	4W lamp lighted. Trouble record taken. PLB or RI designation perforated. FTT_, FTU_, VGT_, or VGT/T_, VGT/U_, HGT_, VFT_ designations perforated indicating location of intercept or announcement trunk.
69	Restore MTTA key.	
70	Momentarily operate RL key.	All lamps extinguished.

STEP	ACTION	VERIFICATION
71	Restore 4ANS, TM1 keys.	
72	Select CDP, CDA, CD control digits as required for P-1 priority.	
73	Momentarily operate ST key.	4W, DIS1, LK2, MTT lamps lighted.
74	Operate MTTA key.	
75	Momentarily operate RL key.	4W lamp extinguished.
76	Operate 4ANS, TM1 keys.	
77	Momentarily operate ST key.	4W lamp lighted. Trouble record taken. PLB or RI designation perforated. FTT_, FTU_, VGT_, or VGT/T_, VGT/U_, HGT_, VFT_ designations perforated indicating location of intercept or announcement trunk.
78	Restore MTTA key.	
79	Momentarily operate RL key.	All lamps extinguished.
80d	If office is arranged for other priority levels— Repeat Steps 71 through 79 substituting P-2, P-3, P-4 in Step 72 as required.	Note: When testing P-4, the verification will be: 4W, BY lamps lighted. Trouble record taken. BY designation perforated.
81	Restore all keys and switches.	
4-Wire Office—Multilevel Preemption Provided—ETS Not Provided—Nonpreemptable Line—Busy		
82	At MTF— Restore all keys and switches.	
83	Momentarily operate RL key.	All lamps extinguished.
84	Select LT class of test.	
85e	If using individual nonpreemptable line— Select A_ through G_ digits as required to direct call to a nonpreemptable auxiliary line.	
86f	If using a PBX nonpreemptable line— Select A_ through G_ digits as required to direct call to a PBX nonpreemptable line.	
87f	Operate PBXH, NTLN keys.	

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STEP	ACTION	VERIFICATION
88f	Select S_ corresponding to last line in last tens block associated with number selected in Step 86f.	
89	Select incoming class of call with translator indication as required for completion to called number.	
90	Select marker under test.	
91	Operate 4W, OD, E-M, TM2, E, TLK, REC keys.	
92	Select CDP, CDA, CD control digits as required for P-0 priority.	
93	At 19A testboard— Insert make-busy plug into jack associated with line selected in Step 85e or 86f.	LO lamp lighted.
94	Set DC switch to 2.	
95	Operate DC SET key.	
96	Momentarily operate ST key.	4W, DIS1, LK2, MTT lamps lighted.
97	Operate MTTA key.	
98	Momentarily operate RL key.	4W lamp extinguished.
99	Operate 4ANS, TM1 keys.	
100	Momentarily operate ST key.	4W lamp lighted. Trouble record taken. PLB or RI designation perforated. FTT_, FTU_, VGT_ or VGT/T_, VGT/U_, HGT_, VFT_ designations perforated indicating location of intercept or announcement trunk.
101	Restore MTTA key.	
102	Momentarily operate RL key.	All lamps extinguished.
103	Restore 4ANS, TM1 keys.	
104	Select CDP, CDA, CD control digits as required for P-1 priority.	
105	Momentarily operate ST key.	4W, DIS1, LK2, MTT lamps lighted.
106	Operate MTTA key.	

STEP	ACTION	VERIFICATION
107	Momentarily operate RL key.	4W lamp extinguished.
108	Operate 4ANS, TM1 keys.	
109	Momentarily operate ST key.	4W lamp lighted. Trouble record taken. PLB or RI designation perforated. FTT_, FTU_, VGT_ or VGT/T_, VGT/U_, HGT_, VFT_ designations perforated indicating location of intercept or announcement trunk.
110	Restore MTTA key.	
111	Momentarily operate RL key.	All lamps extinguished.
112d	If office is arranged for other priority levels— Repeat Steps 103 through 111 substituting P-2, P-3, P-4 in Step 104 as required.	Note: When testing P-4, the verification will be: BY, 4W lamps lighted. Trouble record taken. BY designation perforated.
113	Restore all keys and switches.	
AX. Nonallotted PBX or 2-Line Number Feature—Line Busy at Line Link Frame		
1	At MTF— Restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.
3	Select INC class of test.	
4a	If PBX group is provided— Select A_ through G_ digits as required to direct call to first line in any nonallotted PBX group.	
5b	If 2-line number feature is provided— Select A_ through G_ digits as required to direct call to first line.	
6c	If line circuit group is provided— Select A_ through G_ digits as required to direct call to a line requiring a nonallotted line circuit to complete.	
7c	Set TBT_, TBU_ switches as required to select tens block associated with line circuit group in Step 6c.	

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STEP	ACTION	VERIFICATION
8	Select any trunk link frame.	
9	Select incoming trunk class as required for completion to called line.	
10d	If 4-wire switching route is selected— Operate 4W key.	
11e	If office is arranged for multilevel preemption— Select CDP, CDA, CD control digits as required for completion to called line.	
12f	If office is arranged for multilevel preemption and call is directed to line with multilevel preemption features— Operate AD key.	
13g	If office is arranged for multilevel preemption and call is directed to line without multilevel preemption features— Operate OD key.	
14	Select incoming class of call with translator indication as required for completion to called line.	
15	Select marker under test.	
16	Operate LBL key.	
17	Operate REC key.	
18h	◆If ETS provided and CM dump is required— Operate TCPO key.	
	Note: See paragraph 1.10.◆	
19	Momentarily operate ST key.	<p>If nonallotted PBX or line circuit group is under test— PBX, MRL lamps lighted. Trouble record taken. FTT_, FUT_, VGT_, HGT_, VFT_ designations perforated indicating location of different line in same PBX or line circuit group from that selected.</p> <p>If 2-line number feature is provided— DIS1, LK2, MRL lamps lighted. Trouble record taken. FTT_, FUT_, VGT_, HGT_, VFT_ of second line, 2LN designations perforated.</p> <p>◆If ETS provided— 2LN designation not perforated.◆</p>

STEP	ACTION	VERIFICATION
20	Momentarily operate RL key.	All lamps extinguished.
21	Restore LBL key.	
22	Operate LB key.	
23	Momentarily operate ST key.	<p>If nonallotted PBX or line circuit group is under test— PBX, BY, MRL lamps lighted. Trouble record taken. FTT_, FUT_, VGT_, HGT_, VFT_ designations perforated indicating location of different line in same PBX or line circuit group from that selected.</p> <p>If 2-line number feature is provided— DIS1, BY, MRL lamps lighted. Trouble record taken. FTT_, FUT_, VGT_, HGT_, VFT_ of second line, LB, BY designations perforated.</p>
24	Momentarily operate RL key.	All lamps extinguished.
25b	If 2-line number feature is provided— Select A_ through G_ digits as required to direct call to second line.	
26b	Momentarily operate ST key.	<p>DIS1, BY, MRL lamps lighted. Trouble record taken.</p> <p>If marker is cross-connected to route to first line when second line is busy— FTT_, FUT_, VGT_, HGT_, VFT_ of first line, LB, BY designations perforated.</p> <p>◆If ETS provided and LHGT2 entry indicates hunting to first line when second line is busy— FTT_, FUT_, VGT_, HGT_, VFT_ of first line, LB, BY designations perforated.◆</p> <p>If marker is cross-connected to route to line busy when second line is busy— FTT_, FUT_, VGT_, HGT_, VFT_ of second line, LB, BY designations perforated.</p> <p>◆If ETS provided and LHGT2 entry indicates line busy when second line is busy— FTT_, FUT_, VGT_, HGT_, VFT_ of second line, LB, BY designations perforated.◆</p>
27b	Momentarily operate RL key.	All lamps extinguished.
28b	Restore LB key.	
29b	Operate LBL key.	

STEP	ACTION	VERIFICATION
30b	Momentarily operate ST key.	<p>DIS1, LK2, MRL lamps lighted. Trouble record taken. If marker is cross-connected to route to first line when second line is busy— FTT_, FUT_, VGT_, HGT_, VFT_ of first line, 2LN designations perforated. ♦If ETS provided and LHGT2 entry indicates hunting to first line when second line is busy— FTT_, FUT_, VGT_, HGT_, VFT_ designations perforated indicating first line.♦ If marker is cross-connected to route to line busy when second line is busy— FTT_, FUT_, VGT_, HGT_, VFT_ of second line, LB, BY designations perforated. ♦If ETS provided and LHGT2 entry indicates line busy when second line is busy— FTT_, FUT_, VGT_, HGT_, VFT_ of second line, LB, BY designations perforated.♦</p>
31b	Momentarily operate RL key.	All lamps extinguished.
32	Restore all keys and switches.	
33	Select ORIG class of test.	
34a	<p>If PBX group is provided— Select A_ through G_ digits as required to direct call through intraoffice route to first line in any nonallotted PBX group.</p>	
35b	<p>If 2-line number feature is provided— Select A_ through G_ digits as required to direct call through intraoffice route to first line.</p>	
36c	<p>If line circuit group is provided— Select A_ through G_ digits as required to direct call through intraoffice route to line requiring nonallotted line circuit to complete.</p>	
37c	<p>Set TBT_, TBU_ switches as required to select tens block associated with line circuit group in Step 36c.</p>	
38	<p>Select OR class of call with translator indication as required for access to selected route.</p>	
39	<p>Select line location as required for line identification of any line having originating service.</p>	

STEP	ACTION	VERIFICATION
40	Select class of service and rate treatment as required for access to selected route.	
41k	◆If ETS provided— Operate PCS key.◆	
42d	If 4-wire switching route is selected— Operate 4W key.	
43e	If office is arranged for multilevel preemption— Select CDP, CD control digits as required for access to selected route.	
44	Operate LBL, REC keys.	
45h	◆If ETS provided and CM dump is required— Operate TCPO key.◆	
46	Momentarily operate ST key.	<p>If nonallotted PBX or line circuit group is under test— PBX, MRL lamps lighted. Two trouble records taken. First trouble record— FTT_, FUT_, VGT_, HGT_, VFT_ designations perforated indicating location of different line in same PBX or line circuit group from that selected.</p> <p>If 2-line number feature is provided— MRL lamp lighted. Two trouble records taken. First trouble record— FTT_, FUT_, VGT_, HGT_, VFT_ of second line, 2LN designations perforated.</p> <p>◆If ETS provided— 2LN designation not perforated.◆</p>
47	Momentarily operate RL key.	All lamps extinguished.
48	Restore all keys and switches.	
AY. Allotted PBX Feature—◆ETS Not Provided◆ —Line Busy at Line Link Frame		
1	At MTF— Restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.
3	Select INC class of test.	
4a	If PBX group is provided— Select A_ through G_ digits as required to	

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STEP	ACTION	VERIFICATION
	direct call to directory number of allotted PBX group.	
5b	If PBX group is not provided and line circuit group is provided— Select A_ through G_ digits as required to direct call to line requiring an allotted line circuit group to complete.	
6b	Set TBT_, TBU_ switches as required to select hundreds and tens digit associated with line circuit group in Step 5b.	
7	Select any trunk link frame.	
8	Select incoming trunk class as required for completion to called line.	
9	Select incoming class of call with translator indication as required for completion to called line.	
10c	If 4-wire switching route is selected— Operate 4W key.	
11d	If office is arranged for multilevel preemption— Select CDP, CDA, CD control digits as required for completion to called line.	
12e	If office is arranged for multilevel preemption and call is directed to line with multilevel preemption features— Operate AD key.	
13f	If office is arranged for multilevel preemption and call is directed to line without multilevel preemption features— Operate OD key.	
14	Select marker under test.	
15	Operate REC key.	
16	Momentarily operate ST key.	MRL lamp lighted. Trouble record taken. FTT_, FUT_, VGT_, HGT_, VFT_ designations perforated indicating location of line in selected allotted PBX or line circuit group.
17	Momentarily operate RL key.	All lamps extinguished.
18	Operate LBL key.	

STEP	ACTION	VERIFICATION
19	Operate ST key.	RCY, MRL lamps lighted. Trouble record taken. FTT_, FUT_, VGT_, HGT_, VFT_ designations perforated indicating location of line in selected allotted PBX or line circuit group which is in different number group from that selected in Step 16.
20	Momentarily operate RL key.	All lamps extinguished.
21	Restore all keys and switches.	
AZ. Service Call Feature and Zero Operator Feature		
X11 Service Code (Nonintermarker Group Operation)		
1	At MTF— Restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.
3	Select ORIG class of test.	
4	Select A_digit as required for access to service trunk.	
5a	If pretranslator is not provided in office— Select OR class of call with X11 translator indication.	
6b	If pretranslator is provided in office— Select digits B-1, C-1.	
7b	Select OR class of call with LT translator indication.	
8	Select line location as required for line identification of line having originating service.	
9	Select class of service and rate treatment as required for access to selected route.	
10c	◆If ETS provided— Operate PCS key.◆	
11	Select marker under test.	
12	Operate REC key.	
13d	◆If ETS provided and CM dump is required— Operate TCPO key.	

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STEP	ACTION	VERIFICATION
	<i>Note:</i> See paragraph 1.10.♦	
14	Momentarily operate ST key.	MRL lamp lighted. Trouble record taken. FS_ TS_ TG_ TB_ LC_ LV_ FAK/FBK designations perforated indicating location of X11 service trunk. ♦If ETS provided— TG_ designation not perforated.♦
15	Momentarily operate RL key.	All lamps extinguished.
16	Restore all keys and switches.	
11X Service Codes		
17	At MTF— Restore all keys and switches.	
18	Momentarily operate RL key.	All lamps extinguished.
19	Select ORIG class of test.	
20	Select A_ digit as required for access to service trunk.	
21	Select OR class of call with 11 translator indication.	
22	Select line location as required for line identification of line having originating service.	
23	Select class of service and rate treatment as required for access to selected route.	
24c	♦If ETS provided— Operate PCS key.♦	
25	Select marker under test.	
26	Operate REC key.	
27d	♦If ETS provided and CM dump is required— Operate TCPO key.♦	
28	Momentarily operate ST key.	MRL lamp lighted. Trouble record taken. FS_ TS_ TG_ TB_ LC_ LV_ FAK/FBK designations perforated indicating location of 11X code trunk. ♦If ETS provided— TG_ designation not perforated.♦

STEP	ACTION	VERIFICATION
29	Momentarily operate RL key.	All lamps extinguished.
30	Restore all keys and switches.	
Zero Operator Code—2-Wire Switching		
31	At MTF— Restore all keys and switches.	
32	Momentarily operate RL key.	All lamps extinguished.
33	Select ORIG class of test.	
34	Select digit A-0.	
35	◆Select OR class of call with LT translator indication.◆	
36	Select line location as required for line identification of line having originating service.	
37	Select class of service and rate treatment as required for access to selected route.	
38c	◆If ETS provided— Operate PCS key.◆	
39	Select marker under test.	
40	Operate REC key.	
41d	◆If ETS provided and CM dump is required— Operate TCPO key.◆	
42	Momentarily operate ST key.	MRL lamp lighted. Trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK/FBK designations perforated indicating location of zero operator trunk. ◆If ETS provided— TG_ designation not perforated.◆
43	Momentarily operate RL key.	All lamps extinguished.
44	Restore all keys and switches.	
Zero Operator Code—4-Wire Switching		
45	At MTF— Restore all keys and switches.	
46	Momentarily operate RL key.	All lamps extinguished.

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STEP	ACTION	VERIFICATION
47	Select ORIG class of test.	
48	Select digit A-0.	
49	◆Select OR class of call with LT translator indication.◆	
50	Select line location as required for line identification of line having originating service.	
51	Select class of service and rate treatment as required for access to selected route.	
52c	◆If ETS provided— Operate PCS key.◆	
53e	If multilevel preemption is provided— Select CDP, CD control digits as required for access to selected route.	
54e	Select route advance as required for access to selected route.	
55c	◆If ETS provided— Operate PTS key.◆	
56	Select marker under test.	
57	Operate 4W, REC keys.	
58d	◆If ETS provided and CM dump is required— Operate TCPO key.◆	
59	Momentarily operate ST key.	MRL lamp lighted. Trouble record taken. FS_ TS_ TG_ TB_ LC_ LV_ FAK/FBK designations perforated should give location of 4-wire zero operator trunk. ◆If ETS provided— TG_ designation not perforated.◆
60	Momentarily operate RL key.	All lamps extinguished.
61	Restore all keys and switches.	
1XX Tie Lines and Special Codes		
62	At MTF— Restore all keys and switches.	
63	Momentarily operate RL key.	All lamps extinguished.

STEP	ACTION	VERIFICATION
64	Select ORIG class of test.	
65f	If 1XX tie line access code is provided— Select A_ through K_ digits as required for route having 1XX access.	
66g	If 1XX centrex special code is provided— Select A_ through G_ digits as required for working 1XX code.	
67	Select OR class of call with 2DT translator indication.	
68	Select line location as required for line identification of line having access to selected route.	
69	Select class of service and rate treatment as required for access to selected route.	
70c	◆If ETS provided— Operate PCS key.◆	
71	Select marker under test.	
72	Select route advance 0.	
73c	◆If ETS provided— Operate PTS key.◆	
74	Operate REC key.	
75d	◆If ETS provided and CM dump is required— Operate TCPO key.◆	
76	Momentarily operate ST key.	MRL lamp lighted. If 1XX centrex code for night answering service is used— BY lamp lighted. Trouble record taken. BY designation perforated. If 1XX centrex conference access code is used— Trouble record taken. FS_ TS_ TG_ TB_ LC_ LV_ FAK/FBK designations perforated indicating location of auxiliary conference control circuit. ◆If ETS provided— TG_ designation not perforated.◆ If 1XX tie line access code is used— Trouble record taken. FS_ TS_ TG_ TB_ LC_ LV_ FAK/FBK

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STEP	ACTION	VERIFICATION
		designations perforated indicating location of trunk in route. ◆If ETS provided— TG_ designation not perforated.◆
77	Momentarily operate RL key.	All lamps extinguished.
78	Restore route advance 0.	
79c	◆If ETS provided— Restore PTS key.◆	
80	Select class of service and rate treatment as required not having access to selected route.	
81	Momentarily operate ST key.	MRL lamp lighted. Trouble record taken. FS_ TS_ TG_ TB_ LC_ LV_ FAK/FBK designations perforated indicating location of tone trunk or special service operator trunk according to marker cross-connections ◆or software translations. If ETS provided— TG_ designation not perforated.◆
82	Momentarily operate RL key.	All lamps extinguished.
83	Restore all keys and switches.	