

COMBINED AND COMPLETING MARKER CIRCUITS—PART 11
TESTS USING MASTER TEST FRAME
NO. 5 CROSSBAR OFFICES

1. GENERAL

PAGE

1.01 This section is Part 11 in a series of sections for testing combined and completing markers.

1.02 This section is reissued for the following reasons:

- (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.

- (3) Preemptable route voice grade on preempt cycle in non ETS offices arranged for multilevel preemption.
- (4) Preemptable route special grade on nonpreempt cycle in non ETS offices arranged for multilevel preemption.
- (5) Preemptable route special grade on preempt cycle in non ETS offices arranged for multilevel preemption.
- (6) Nonpreemptable route (trunks not arranged to recognize line preemption) in non ETS offices arranged for multilevel preemption.
- (7) Nonpreemptable route (trunks arranged to recognize line preemption) in non ETS offices arranged for multilevel preemption.

This issue does not affect Equipment Test Lists.

1.03 The tests covered are:

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BA. Intraoffice Call Feature—Non-centrex: This test checks the marker route relay cross-connections for intraoffice codes and features of intraoffice calls in No. 5 crossbar offices not arranged with Electronic Translation System (ETS) and software routing translation in offices equipped with ETS.

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BB. Subscriber Outgoing Call Feature: The following features are checked: (1) marker route relay cross-connections for outgoing and junctor routes in offices not arranged with Electronic Translation System (ETS) or multilevel preemption. (2) software routing translation for outgoing and junctor routes in offices equipped with ETS and not arranged for multilevel preemption.

BC. Through-Switched Call Feature—

Nontoll: This test checks the marker route relay cross-connections for tandem outgoing calls in offices not equipped with Electronic Translation System (ETS) and software routing translation in offices equipped with ETS.

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BD. Through-Switched Call Feature—

Toll: This test checks the marker route relay cross-connections for toll tandem outgoing calls in offices not equipped with Electronic Translation System (ETS) arranged for or not arranged for multilevel preemption and software routing translation in offices equipped with ETS.

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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

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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.

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,

3. METHOD

STEP	ACTION	VERIFICATION
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Note: Refer to 1.05, 1.06, 1.08, 1.09 and 1.10.

BA. Intraoffice Call Feature—Noncentrex

2-Wire Switching—ETS Not Provided

1	At MTF— Restore all keys and switches.	
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2	Momentarily operate RL key.	All lamps extinguished.
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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) to determine the data used to process a call, operate the TCPO and REC keys at the master test frame (MTF). The data or trace output 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 trace outputs and formats used, refer to Section 218-799-102.

2. APPARATUS

All Tests

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

Test BB

2.02 322A (make-busy) plugs as required.

STEP	ACTION	VERIFICATION
3	Select ORIG class of test.	
4	Select A_ through G_ digits as required to direct call through intraoffice route to individual line.	
5	Select line location as required for line identification of line having originating service.	
6	Select class of service and rate treatment as required for access to selected route.	
7	Select route advance 0 or route advance required to access selected route.	
8	Select OR class of call with LT translator indication.	
9	Select marker under test.	
10	Operate REC key.	
11	Momentarily operate ST key.	<p>◆DIS1, LK2, MRL lamps lighted.◆ Two trouble records taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK/FBK designations perforated indicating location of B appearance of intraoffice trunk (first trouble record), A appearance (second trouble record). AMA operation—LAMA-C not provided Second trouble record— AMA, NSI, SON, OSG_, MB_, CP_, RN_, RPK/TP' designations perforated. Coin or message register operation First trouble record— TC designation perforated.</p>
12	Momentarily operate RL key.	All lamps extinguished.
13	Repeat Steps 4 through 12 for each working intraoffice route.	
	Note: Select an AMA and flat rate route and noncoin, coin, and message register class of service at least once during test.	
14	Restore all keys and switches.	
◆2-Wire Switching—ETS Provided		
15	At MTF— Restore all keys and switches.	

STEP	ACTION	VERIFICATION
16	Momentarily operate RL key.	
17	Select ORIG class of test.	
18	Select A_ through G_ digits as required to direct call through intraoffice route to individual line.	
19	Select line location as required for line identification of line having originating service.	
20	Select class of service and rate treatment as required to access selected route.	
21	Operate PCS, PTS keys.	
22	Select route advance 0.	
23	Select OR class of call with LT translator indication.	
24	Select marker under test.	
25	Operate REC key.	
26a	If CM trace output is required— Operate TCPO key.	
	<i>Note:</i> Refer to 1.10.	
27	Momentarily operate ST key.	DIS1, LK2, MRL lamps lighted. Two trouble records taken. FS_ TS_ TB_ LC_ LV_ FAK/FBK designations perforated indicating location of B appearance of intraoffice trunk (first trouble record), A appearance (second trouble record). Coin operation First trouble record— TC designation perforated.
28	Momentarily operate RL key.	All lamps extinguished.
29	Repeat Steps 18 through 28 for each working intraoffice route.	
	<i>Note:</i> Select noncoin and coin class of service at least once during test.	
30a	Restore all keys and switches.♦	

STEP	ACTION	VERIFICATION
4-Wire Switching—Multilevel Preemption and ETS Not Provided		
31	At MTF— Restore all keys and switches.	
32	Momentarily operate RL key.	All lamps extinguished.
33	Select ORIG class of test.	
34	Select A_ through G_ digits as required to direct call through intraoffice route to individual line.	
35	Select line location as required for line identification of line having originating service.	
36	Select class of service and rate treatment as required to access selected route.	
37	Select OR class of call with LT translator indication.	
38	Select route advance 0 or route advance required to access selected route.	
39	Select marker under test.	
40	Operate 4W, REC keys.	
41	Momentarily operate ST key.	<p>◆DIS1, LK2, MRL lamps lighted.◆ Two trouble records taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK/FBK designations perforated indicating location of B appearance of 4-wire intraoffice trunk (first trouble record), A appearance (second trouble record). AMA operation Second trouble record— AMA, NSI, SON, OSG_, MB_, CP_, RN_ designations perforated.</p>
42	Momentarily operate RL key.	All lamps extinguished.
43	Repeat Steps 34 through 42 for each working intraoffice route.	
44	Restore all keys and switches.	

STEP	ACTION	VERIFICATION
4-Wire Switching—ETS Provided—Multilevel Preemption Not Provided		
45	At MTF— Restore all keys and switches.	
46	Momentarily operate RL key.	
47	Select ORIG class of test.	
48	Select A_ through G_ digits as required to direct call through intraoffice route to individual line.	
49	Select line location as required for line identification of line having originating service.	
50	Select class of service and rate treatment as required to access selected route.	
51	Operate PCS, PTS keys.	
52	Select route advance 0.	
53	Select OR class of call with LT translator indication.	
54	Select marker under test.	
55	Operate 4W, REC keys.	
56a	If CM trace output is required— Operate TCPO key.	
	Note: Refer to 1.10.	
57	Momentarily operate ST key.	DIS1, LK2, MRL lamps lighted. Two trouble records taken. FS_ TS_ TB_ LC_ LV_ FAK/FBK designations perforated indicating location of B appearance of 4-wire intraoffice trunk (first trouble record), A appearance (second trouble record).
58	Momentarily operate RL key.	All lamps extinguished.
59	Repeat Steps 48 through 58 for each working intraoffice route.	
60	Restore all keys and switches.⚡	

STEP	ACTION	VERIFICATION
4-Wire Switching Office—Multilevel Preemption Provided—ETS Not Provided		
61	At MTF— Restore all keys and switches.	
62	Momentarily operate RL key.	All lamps extinguished.
63	Select ORIG class of test.	
64	Select A_ through G_ digits as required to direct call through intraoffice route to number other than listed directory number.	
65	Select line location as required for line identification of any line with originating service.	
66	Select class of service and rate treatment as required to access selected route.	
67	Select OR class of call with LT translator indication.	
68	Select route advance 0 or route advance required to access selected route.	
69	Select CDP_ CD_ control digits as required for access to selected route.	
70	Select marker under test.	
71	Operate 4W, REC keys.	
72	Momentarily operate ST key.	Two trouble records taken. FS_ TS_ TG_ TB_ LC_ LV_ FAK/FBK designations perforated indicating location of B appearance of 4-wire intraoffice trunk (first trouble record), A appearance (second trouble record).
73	Momentarily operate RL key.	All lamps extinguished.
74	Select A_ through G_ digits as required to direct call through intraoffice route to listed directory number.	
75	Repeat Steps 65 through 71 as required to access selected route.	
76	Momentarily operate ST key.	Two trouble records taken. FS_ TS_ TG_ TB_ LC_ LV_ FAK/FBK

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STEP	ACTION	VERIFICATION
		designations perforated indicating location of B appearance of 4-wire intraoffice trunk (first trouble record), A appearance (second trouble record). RI or BN designation perforated on first trouble card.
77	Momentarily operate RL key.	All lamps extinguished.
78	Restore all keys and switches.	
BB. Subscriber Outgoing Call Feature		
2- and 4-Wire Switching—Multilevel Preemption Not Provided—ETS Not Provided		
1	At MTF— Restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.
3	Select ORIG class of test.	
4	Select digits and translator for Test Call 1 in Table A. <i>Note:</i> Priming digits may be selected to prove all outgoing routes associated with translator.	
5	Select OR or FAC class of call as required for selected route.	
6	Select line location as required for line identification of line having originating service.	
7	Select class of service and rate treatment as required to access selected route.	
8	Select route advance 0 or route advance required to access selected route.	
9a	If 4-wire switching route is selected— Operate 4W key.	
10	Select marker under test.	
11	Operate REC key.	
12	Momentarily operate ST key.	DIS1, LK2, MRL lamps lighted. Trouble record taken. FS, TS, TG, TB, LC, LV, FAK/FBK

STEP	ACTION	VERIFICATION
		designations perforated indicating location of outgoing trunk for route selected. <i>AMA operation—LAMA-C not provided</i> SOG, AMA, SON, OSG_, MB_, CL_, CP_, RN_, RPK/TP' designations perforated. <i>Coin and message register operation</i> TC designation perforated.
13	Momentarily operate RL key.	All lamps extinguished.
14	Repeat Steps 4 through 13 as required for each route and translator provided.	
15	Restore all keys and switches.	
◆2- and 4-Wire Switching—Multilevel Preemption Not Provided—ETS Provided		
16	At MTF— Restore all keys and switches.	
17	Momentarily operate RL key.	All lamps extinguished.
18	Select ORIG class of test.	
19	Select digits and translator for Test Call 1 in Table A. <i>Note:</i> Priming digits may be selected to prove all outgoing routes associated with translator.	
20	Select OR or FAC class of call as required for selected route.	
21	Select line location as required for line identification of line having originating service.	
22	Select class of service and rate treatment as required to access selected route.	
23	Operate PCS, PTS keys.	
24	Select route advance 0.	
25a	If 4-wire switching route is selected— Operate 4W key.	
26	Select marker under test.	
27	Operate REC key.	

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STEP	ACTION	VERIFICATION
28b	If CM trace output is required— Operate TCPO key. <i>Note:</i> Refer to 1.10.	
29	Momentarily operate ST key.	DIS1, LK2, MRL lamps lighted. Trouble record taken. FS_ TS_ TB_ LC_ LV_ FAK/FBK designations perforated indicating location of outgoing trunk for route selected.
30	Momentarily operate RL key.	All lamps extinguished.
31	Repeat Steps 19 through 30 as required for each route and translator provided in Table A.	
32	Restore all keys and switches.⚡	
4-Wire Office—ETS Not Provided—Multilevel Preemption Provided—Preemptable Route—Voice Grade—Nonpreempt Cycle		
33	At MTF— Restore all keys and switches.	
34	Momentarily operate RL key.	All lamps extinguished.
35	Select ORIG class of test.	
36	Select A_ through K_ digits as required to access selected route.	
37	Select line location as required for line identification of line having originating service.	
38	Select class of service and rate treatment as required to access selected route.	
39	Select route advance as required to access selected route.	
40c	If polygrid route is selected— Select JSQ_ as required for routing control.	
41	Select CDP_ control digit as required for priority level for route under test.	
42	Select CD_ control digit as required for a voice grade route.	
43	Select marker under test.	

STEP	ACTION	VERIFICATION
44	Operate 4W, REC keys.	
45	Set STS_switch as required for status selection.	
46	Momentarily operate ST key.	4W, DIS1, LK2, MRL, RA_ lamps lighted. Trouble record taken. FS_ TS_ TG_ TB_ LC_ LV_ FAK/FBK designations perforated indicating location of outgoing trunk for route selected. CD_ CD'_ CDP_ CDP'_ RN_ DL_ CL_ AR_ BR_ CR_ SOG, OSG_ designations perforated as required.
47	Momentarily operate RL key.	All lamps extinguished.
48	Restore all keys and switches.	

4-Wire Office—ETS Not Provided—Multilevel Preemption Provided—Preemptable Route—Voice Grade—Preempt Cycle

49	At MTF— Restore all keys and switches.	
50	Momentarily operate RL key.	All lamps extinguished.
51	Operate CNR key.	
52	Perform Steps 35 through 47.	
53	Restore all keys and switches.	

4-Wire Office—ETS Not Provided—Multilevel Preemption Provided—Preemptable Route—Special Grade—Nonpreempt Cycle

54	At MTF— Restore all keys and switches.	
55	Momentarily operate RL key.	All lamps extinguished.
56	Select CD_ control digit as required for special grade route.	
57	Perform Steps 35 through 41 and 43 through 47.	
58	Restore all keys and switches.	

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STEP	ACTION	VERIFICATION
4-Wire Office—ETS Not Provided—Multilevel Preemption Provided— Preemptable Route—Special Grade—Preempt Cycle		
59	At MTF— Restore all keys and switches.	
60	Momentarily operate RL key.	All lamps extinguished.
61	Operate CNR key.	
62	Select CD_ control digit as required for special grade route.	
63	Perform Steps 35 through 41 and 43 through 47.	
64	Restore all keys and switches.	
4-Wire Office—ETS Not Provided—Multilevel Preemption Provided— Nonpreemptable Route (Trunks Not Arranged to Recognize Line Preemption)		
65	At MTF— Restore all keys and switches.	
66	Momentarily operate RL key.	All lamps extinguished.
67	Select CDP_, CD_ control digits as required for priority level 0.	
68	Perform Steps 35 through 40c and 43 through 45.	
69	Momentarily operate ST key.	4W, DIS1, LK2, MRL, RA_, LP0, LP1, LP2 lamps lighted. Trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK/FBK designations perforated indicating location of trunk for route selected. CD_, CD'_, CDP_, CDP'_, RN_, DL_, CL_, AR_, BR_, CR_, SOG, OSG_, LPMK designations perforated as required.
70	Momentarily operate RL key.	All lamps extinguished.
71	Select CDP_, CD_ control digits as required for priority level 4.	
72	Perform Steps 35 through 40c and 43 through 45.	

STEP	ACTION	VERIFICATION
73	Momentarily operate ST key.	4W, DIS1, LK2, MRL, RA_, LP0, LP1, LP2 lamps <i>not</i> lighted. Trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK/FBK designations perforated indicating location of trunk for route selected. CD_, CD'_, CDP_, CDP'_, RN_, DL_, CL_, AR_, BR_, CR_, SOG, OSG_, LPMK designations perforated as required.
74	Momentarily operate RL key.	All lamps extinguished.
75	Restore all keys and switches.	
4-Wire Office—ETS Not Provided—Multilevel Preemption Provided— Nonpreemptable Route (Trunks Arranged to Recognize Line Preemption)		
76	At MTF— Restore all keys and switches.	
77	Momentarily operate RL key.	All lamps extinguished.
78	Select CDP_, CD_ control digits as required for priority level 4.	
79	Perform Steps 35 through 40c and 43 through 45.	
80	Momentarily operate ST key.	4W, DIS1, MRL, RA_ lamps lighted. LP0, LP1, LP2 lamps <i>not</i> lighted. Trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK/FBK designations perforated indicating location of trunk for route selected. CD_, CD'_, CDP_, CDP'_, RN_, DL_, CL_, AR_, BR_, CR_, SOG, LPMK designations perforated as required.
81	Momentarily operate RL key.	All lamps extinguished.
82	Select CDP_, CD_ control digits as required for priority level 3.	
83	Perform Steps 35 through 40c and 43 through 45.	
84	Momentarily operate ST key.	4W, DIS1, MRL, RA_, LP1, LP2 lamps lighted. Trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK/FBK designations perforated indicating location of trunk for route selected.

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STEP	ACTION	VERIFICATION
		CD_, CD', CDP_, CDP', RN_, DL_, CL_, AR_, BR_, CR_, SOG, LPMK designations perforated as required.
85	Momentarily operate RL key.	All lamps extinguished.
86	Select CDP_, CD_ control digits as required for priority level 2.	
87	Perform Steps 35 through 40c and 43 through 45.	
88	Momentarily operate ST key.	4W, DIS1, MRL, RA_, LP0, LP2 lamps lighted. Trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK/FBK designations perforated indicating location of trunk for route selected. CD_, CD', CDP_, CDP', RN_, DL_, CL_, AR_, BR_, CR_, SOG, LPMK designations perforated as required.
89	Momentarily operate RL key.	All lamps extinguished.
90	Select CDP_, CD_ control digits as required for priority level 1.	
91	Perform Steps 35 through 40c and 43 through 45.	
92	Momentarily operate ST key.	4W, DIS1, MRL, RA_, LPC, LP1 lamps lighted. Trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK/FBK designations perforated indicating location of trunk for route selected. CD_, CD', CDP_, CDP', RN_, DL_, CL_, AR_, BR_, CR_, SOG, LPMK designations perforated as required.
93	Momentarily operate RL key.	All lamps extinguished.
94	Select CDP_, CD_ control digits as required for priority level 0.	
95	Perform Steps 35 through 40c and 43 through 45.	
96	Momentarily operate ST key.	4W, DIS1, MRL, RA_, LP0, LP1, LP2 lamps lighted. Trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK/FBK designations perforated indicating location of trunk for route selected.

STEP	ACTION	VERIFICATION
		CD_, CD'_, CDP_, CDP'_, RN_, DL_, CL_, AR_, BR_, CR_, SOG, LPMK designations perforated as required.
97	Momentarily operate RL key.	All lamps extinguished.
98	Restore all keys and switches.	
BC. Through-Switched Call Feature—Nontoll		
◆ETS Not Provided◆		
1	At MTF— Restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.
3	Select INC class of test.	
4	Select A_ through K_ digits as required to direct call to nontoll tandem outgoing route.	
5	Select TAN incoming class of call and translator indication as required for nontoll tandem outgoing route.	
6	Select any trunk link frame.	
7	Select trunk number as required for incoming trunk having access to selected route.	
8	Select route advance 0 or route advance required for completion to outgoing route.	
9	Select marker under test.	
10	Operate REC key.	
11	Momentarily operate ST key.	◆DIS1, LK2, MRL lamps lighted.◆ TNK lamp lighted, if equipped. Trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK/FBK designations perforated indicating location of trunk of selected tandem outgoing route. CP_, DL_, CL_, AR_, BR_, CR_, OSG_, ITC_, TOG, TAN designations perforated as required.
12	Momentarily operate RL key.	All lamps extinguished.
13	Repeat Steps 4 through 12 for each tandem outgoing route.	

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STEP	ACTION	VERIFICATION
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14 Restore all keys and switches.

ETS Provided

15 Perform Steps 1 through 7.

16 Operate PTS key.

17 Select route advance 0.

18 Select marker under test.

19 Operate REC key.

20a If CM trace output is required—
Operate TCPO key.

Note: Refer to 1.10.

21 Momentarily operate ST key.

DIS1, LK2, MRL lamps lighted.
TNK lamp lighted, if equipped.
Trouble record taken.
FS, TS, TB, LC, LV, FAK/FBK designations
perforated indicating location of trunk of
selected tandem outgoing route.
CL, AR, BR, CR, OSG, ITC, TOG,
TAN designations perforated as required.

22 Momentarily operate RL key.

All lamps extinguished.

23 Repeat Steps 4 through 7 and 16 through 22
for each tandem outgoing route.

BD. Through-Switched Call Feature—Toll

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

1 At MTF—
Restore all keys and switches.

2 Momentarily operate RL key.

All lamps extinguished.

3 Select INC class of test.

4 Select A_ through K_ digits as required to
direct call to toll tandem outgoing route.

5 Select TOL incoming class of call and translator
indication as required for toll tandem outgoing
route.

STEP	ACTION	VERIFICATION
6	Select any trunk link frame.	
7	Select trunk number as required for incoming trunk having access to selected route.	
8	Operate GPA/GPB key as required for selected group when trunk is in an allotted subgroup.	
9	Select route advance 0 or route advance required for completion to outgoing route.	
10	Select marker under test.	
11	Operate REC key.	
12	Momentarily operate ST key.	<p>◆DIS1, LK2, MRL lamps lighted.◆ TNK lamp lighted, if equipped. Trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK/FBK designations perforated indicating location of trunk of selected tandem route. CD', CP_, DL_, CL_, AR_, BR_, CR_, OSG_, ITC_, TOG, TOL designations perforated as required. If toll tandem AMA route is selected— VG_, HG_, VF_ designations perforated corresponding with setting of HT_MB_, TT_CP_, UT_ keys, respectively.</p>
13	Momentarily operate RL key.	All lamps extinguished.
14	Repeat Steps 4 through 13 for each toll tandem outgoing class.	
15	Restore all keys and switches.	
<p>◆2- and 4-Wire Offices—ETS Provided—Multilevel Preemption Not Provided</p>		
16	Perform Steps 1 through 7.	
17	Operate PTS key.	
18	Select route advance 0.	
19	Select marker under test.	

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STEP	ACTION	VERIFICATION
20	Operate REC key.	
21a	If CM trace output is required— Operate TCPO key.	
	<i>Note:</i> Refer to 1.10.	
22	Momentarily operate ST key.	DIS1, LK2, MRL lamps lighted. TNK lamp lighted, if equipped. Trouble record taken. FS_ TS_ TB_ LC_ LV_ FAK/FBK designations perforated indicating location of trunk of selected tandem route. CL_ AR_ BR_ CR_ OSG_ ITC_ TOG, TOL designations perforated as required. If toll tandem AMA route is selected— VG_ HG_ VF_ designations perforated corresponding with setting of HT_MB_ TT_CP_ UT_ keys, respectively.
23	Momentarily operate RL key.	All lamps extinguished.
24	Repeat Steps 4 through 7 and 17 through 23 for each toll tandem outgoing class.	
25	Restore all keys and switches.◀	

4-Wire Office—▶ETS Not Provided—◀ Multilevel Preemption Provided— Preemptable Route—Voice Grade—Nonpreempt Cycle

26	At MTF— Restore all keys and switches.	
27	Momentarily operate RL key.	All lamps extinguished.
28	Select INC class of test.	
29	Select A_ through K_ digits as required to direct call to toll tandem outgoing route.	
30	Select TOL incoming class of call with TT translator indication.	
31	Select any trunk link frame.	
32	Select trunk number.	
33	Select CDP_ CDA_ control digits as required for route under test.	

STEP	ACTION	VERIFICATION
34	Select CD_ control digit as required for a voice grade route.	
35	Select route advance for access to selected outgoing route.	
36b	If polygrid route is selected— Select JSQ_ as required for routing control.	
37	Select marker under test.	
38	Operate 4W, AD, REC keys.	
39	Set STS_ switch for status selection.	
40	Momentarily operate ST key.	4W, RA_, DIS1, LK2, MRL lamps lighted. TNK lamp lighted, if equipped. Trouble record taken. FS_, TS_, TG_, TB_, LC_, LV_, FAK/FBK designations perforated indicating location of outgoing trunk. CD_, CD'_, CDA_, CDA'_, CDP_, CDP'_, RN_, DL_, CL_, AR_, BR_, CR_, TOG, OSG_ designations perforated as required.
41	Momentarily operate RL key.	All lamps extinguished.
42	Restore all keys and switches.	
4-Wire Office—ETS Not Provided—Multilevel Preemption Provided— Preemptable Route—Voice Grade—Preempt Cycle		
43	At MTF— Restore all keys and switches.	
44	Momentarily operate RL key.	All lamps extinguished.
45	Operate CNR key.	
46	Perform Steps 28 through 41.	
47	Restore all keys and switches.	
4-Wire Office—ETS Not Provided—Multilevel Preemption Provided— Preemptable Route—Special Grade—Nonpreempt Cycle		
48	At MTF— Restore all keys and switches.	
49	Momentarily operate RL key.	All lamps extinguished.

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STEP	ACTION	VERIFICATION
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50	Select CD_ control digit as required for a special grade route.	
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51	Perform Steps 28 through 33 and 35 through 41.	
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52	Restore all keys and switches.	
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4-Wire Office—ETS Not Provided—Multilevel Preemption Provided— Preemptable Route—Special Grade—Preempt Cycle

53	At MTF— Restore all keys and switches.	
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54	Momentarily operate RL key.	All lamps extinguished.
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55	Operate CNR key.	
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56	Select CD_ control digit as required for a special grade route.	
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57	Perform Steps 28 through 33 and 35 through 41.	
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58	Restore all keys and switches.	
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4-Wire Office—ETS Not Provided—Multilevel Preemption Provided— Nonpreemptable Route

59	At MTF— Restore all keys and switches.	
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60	Momentarily operate RL key.	All lamps extinguished.
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61	Select CDP_, CDA_, CD_ control digits as required for nonpreemptable route.	
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62	Perform Steps 28 through 32 and 35 through 41.	
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63	Restore all keys and switches.	
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TABLE A

TEST CALL	TRANSLATION REQUIRED	TRANS-LATOR REQUIRED	DIGITS REQUIRED
1	Local translation (no prefix—home area route)	LT	A-G
2	Local translation (no prefix—foreign area route)	LT	A-K
3	Local translation (noncoin—zero operator calls)	LT	A
4	Local translation (coin—zero operator calls)	LT	A
5	Prefix 11 foreign area translation	11	A-K
6	11X service code translation	11	A
7	X11 service code translation	X11	A-C
8	Centrex 4-digit translation	X11	A-D
9	1XX centrex tie line translation	2DT	Variable
10	Prefix 1 translation (home area 411—operator call)	LT1	A-C
11	Prefix 1 translation (home area non-TSP route)	LT1	A-G
12	Prefix 1 translation (foreign area non-TSP route)	LT1	A-K
13	Prefix 1 translation (noncoin routes to crossbar tandem TSP)	LT1	A-K
14	Prefix 1 translation (coin routes to crossbar tandem TSP)	LT1	A-K
15	Prefix 1 translation (noncoin routes to TSPS No. 1)	LT1	A-K
16	Prefix 1 translation (coin routes to TSPS No. 1)	LT1	A-K
17	Prefix 0 translation (noncoin home area routes to TSPS No. 1)	LT2	A-G
18	Prefix 0 translation (noncoin foreign area routes to TSPS No. 1)	LT2	A-K
19	Prefix 0 translation (coin foreign area routes to TSPS No. 1)	LT2	A-K
20	Prefix 01 translation (IDDD routes to TSPS No. 1)	FAC, FVD	A-H or M
21	Prefix 01 translation (IDDD routes, LAMA or LAMA-C offices)	FAC, FVD	A-H or K
22	Prefix 011 translation (IDDD routes to TSPS No. 1)	FAC, 11	A-H or M
23	Prefix 011 translation (IDDD routes, LAMA or LAMA-C offices)	FAC, 11	A-H or K
24	Prefix 8 translation (home area routes)	LT3	A-G
25	Prefix 8 translation (foreign area routes)	LT3	A-K