

## COMBINED AND COMPLETING MARKER CIRCUITS—PART 20

### TESTS USING MASTER TEST FRAME

### NO. 5 CROSSBAR OFFICES

#### 1. GENERAL

PAGE

**1.01** This section is Part 20 in a series of sections for testing combined and completing markers.

▼The tests in this section apply only to completing markers, SD-26002-01.▲

**1.02** The reasons for reissuing this section are listed below. Revision arrows are used to emphasize the more significant changes. This issue 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 add tests CC.7 "LDN Call in Secondary Office" and CC.8 "LDN Call Incoming to Primary Office from Secondary Office (Centralized Attendant Facilities)."
- (d) To make minor changes as required.

**1.03** The tests covered are:

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**CC. Phase III Centrex Features:**

(Also refer to Test CA.) This test checks the following features: (1) Attendant Transfer to station. (2) All other transfers (AOT)—dial transfer. (3) Dial transfer to attendant. (4) Station-to-Attendant (dial zero) call. (5) Dial transfer to permanent overflow. (6) Dial Transfer to permanent line busy. (7) Dial transfer to listed directory number denied. (8) Dial transfer outside of customer group denied. (9) Manual transfer to attendant. (10) Don't answer

transfer. (11) Busy line transfer. (12) Busy line and don't answer transfer. (13) Line identification feature—don't answer transfer. (14) Line identification feature. (15) Line identification feature—Crossed identifier or open transmit leads. (16) Link release—line identifier. (17) Link release—transfer. . . . .

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**CC.1 Transfer Request in Secondary Office (Centralized Attendant Facilities):**

This test checks the marker DTF usage in the secondary office to route to a centralized attendant in the primary office. . . . .

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**CC.2 Incoming Transfer Request in Primary Office (Centralized Attendant Facilities):**

This test checks that the marker in the primary office will generate an LDN number and set up to a centralized attendant trunk within a customer group when a transfer request is received from a secondary office. . . . .

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**CC.3 7-Digit Transfer in Secondary Office (Centralized Attendant Facilities):**

This test checks that the marker DTF usage will function properly after the centralized attendant has keyed 7 digits into the transfer register and the register has passed the information to the marker. . . . .

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**CC.4 5-Digit Intercom Call via LLP Line Circuit (Centralized Attendant Facilities):**

This test checks that the marker will route a 5-digit

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intercom call to a station in another office via a LLP line circuit. . . . . 18

**CC.5 - or 7-Digit Intercom Call via Outgoing Trunk (Centralized Attendant Facilities):** This test checks that the marker will route a 7-digit intercom call as a regular 7-digit outgoing call. . . . . 19

**CC.6 -Digit Line Identification Feature:** This test checks that the marker will function properly on 7-digit DTI usage. . . . . 20

**CC.7 ♦LDN Call in Secondary Office (Centralized Attendant Facilities):** This test checks that the marker will route an LDN call in the secondary office to a centralized attendant in the primary office via a LLP line circuit. . . . . 21

**CC.8. LDN Call Incoming to Primary Office from Secondary Office (Centralized Attendant Facilities):** This test checks that the marker in the primary office will generate an LDN number and set up to a centralized attendant trunk within a customer group when a digit 8 is received from a secondary office.♦ . . . . . 22

**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.

**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**

- 2.01** Master test control circuit, SD-25800-01.
- 2.02** 351C (make-busy) plugs as required.

## 3. METHOD

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

**CC. Phase III Centrex Features Attendant Transfer to Station**

1	At MTF— Restore all keys and switches.	
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2	Momentarily operate RL key.	All lamps extinguished.
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3	Select INC class of test.	
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4	Select A_ through G_ digits as required to select a station in customer group with attendant operations.	
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5	Select attendant class of service.	
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6a	◆If ETS provided— Operate PCS key.◆	
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7	Select incoming class of call with translator indication as required.	
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8	Select any trunk link frame.	
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9	Select marker under test.	
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10	Operate ATT, DTF, REC keys.	
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11b	◆If ETS provided and CM dump is required— Operate TCPO key.	
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*Note:* See paragraph 1.10.

12	Momentarily operate ST key.	FL, DIS1, LK2, MRL lamps lighted. Trouble record taken. FTT_, FUT_, VGT_, HGT_, VFT_, CS 1/0-9, CS 1/10-19, CS 1/20-29, ◆RS6◆ designations perforated indicating line location, class of service, rate treatment (if provided), ◆and ringing code◆ of called station. CT_, CU_ designations perforated for attendant class of service. ATT, DTF designations perforated.
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13	Momentarily operate RL key.	All lamps extinguished.
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14	Restore all keys and switches.	
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STEP	ACTION	VERIFICATION
<b>All Other Transfer (AOT)—Dial Transfer</b>		
15	Perform Steps 1 through 3.	
16	Select A_ through E_ digits as required to select station arranged for AOT in same customer group as transferring station.	
17	Perform Steps 5 through 9.	
18	Operate DTF, REC keys.	
19b	◆If ETS provided and CM dump is required— Operate TCPO key.	
	<b>Note:</b> See paragraph 1.10.◆	
20	Momentarily operate ST key.	FL, DIS1, LK2, MRL lamps lighted. Trouble record taken. FTT_, FUT_, VGT_, HGT_, VFT_, CS 1/0-9, CS 1/10-19, CS 1/20-29, ◆RS6◆ designations perforated indicating line location, class of service, rate treatment (if provided), ◆and ringing code◆ of transferred-to station. CT_, CU_ designations perforated indicating class of service of transferring station. DTF, AOT designations perforated.
21	Momentarily operate RL key.	All lamps extinguished.
22	Restore all keys and switches.	
<b>Dial Transfer to Attendant</b>		
23	Perform Steps 1 through 3.	
24	Select AO digit.	
25	Select class of service of transferring station.	
26a	◆If ETS provided— Operate PCS key.◆	
27	Perform Steps 7 through 9.	
28	Operate DTF, REC keys.	
29b	◆If ETS provided and CM dump is required— Operate TCPO key.	

STEP	ACTION	VERIFICATION
	<i>Note:</i> See paragraph 1.10.♦	
30	Momentarily operate ST key.	FL, TP, DIS1, LK2, MRL lamps lighted. Trouble record taken. CT_, CU_ designations perforated indicating class of service of transferring station. DTF, X11 or FVD designations perforated. FTT_, FUT_, VGT_, HGT_, VFT_, RS_ designations perforated indicating line location ♦and ringing code♦ of attendant.
31	Momentarily operate RL key.	All lamps extinguished.
32	Restore all keys and switches.	
<b>Station-to-Attendant (Dial Zero) Call</b>		
33	At MTF— Restore all keys and switches.	
34	Momentarily operate RL key.	All lamps extinguished.
35	Select ORIG class of test.	
36	Select AO digit.	
37	Select centrex line location.	
38	Select class of service and rate treatment as required for access to selected route.	
39a	♦If ETS provided— Operate PCS key.♦	
40	Select OR class of call with X11 translator indication.	
41	Select marker under test.	
42	Operate REC key.	
43b	♦If ETS provided and CM dump is required— Operate TCPO key.	
	<i>Note:</i> See paragraph 1.10.♦	
44	Momentarily operate ST key.	MRL lamp lighted. If class of service used is associated with customer group with console— Trouble record taken. FS_, TS_, TB_, TG_, LC_, LV_, FAK/FBK designations perforated indicating location

STEP	ACTION	VERIFICATION
		of attendant trunk associated with class of service selected in Step 38.
		◆If ETS provided— TG_ designation not perforated.◆
		If class of service used is not associated with console— Two trouble records taken. First trouble record— FTT_ FUT_ VGT_ HGT_ VFT_ designations perforated indicating line location of station serving as attendant.
45	Momentarily operate RL key.	All lamps extinguished.
46	Restore all keys and switches.	
<b>Dial Transfer to Permanent Overflow</b>		
47	At MTF— Restore all keys and switches.	
48	Momentarily operate RL key.	All lamps extinguished.
49	Select INC class of test.	
50	Select A_ through E_ digits as required to direct call to permanent overflow number of test customer group.	
51	Select class of service as required of transferring station.	
52a	◆If ETS provided— Operate PCS key.◆	
53	Select incoming class of call with X11 or FVD translator indication.	
54	Select any trunk link frame.	
55	Select marker under test.	
56	Operate DTF, REC keys.	
57b	◆If ETS provided and CM dump is required— Operate TCPO key.	
	<b>Note:</b> See paragraph 1.10.◆	
58	Momentarily operate ST key.	OFL lamp lighted. Trouble record taken. OV, OFH, DTF designations perforated.

STEP	ACTION	VERIFICATION
59	Momentarily operate RL key.	All lamps extinguished.
60	Restore all keys and switches.	
<b>Dial Transfer to Permanent Line Busy.</b>		
61	Perform Steps 47 through 49.	
62	Select A_ through E_ digits as required to direct call to permanent line busy of test customer group.	
63	Perform Steps 51 through 57b.	
64	Momentarily operate ST key.	BY, MRL lamps lighted. Trouble record taken. DTF, BY designations perforated.
65	Momentarily operate RL key.	All lamps extinguished.
66	Restore all keys and switches.	
<b>Dial Transfer to Listed Directory Number Denied</b>		
67	Perform Steps 47 through 49.	
68	Select A_ through E_ digits as required to direct call to listed directory number.	
69	Perform Steps 51 through 57b.	
70	Momentarily operate ST key.	◆MRL lamp lighted.◆ Trouble record taken. OV, DTF designations perforated.
71	Momentarily operate RL key.	All lamps extinguished.
72	Restore all keys and switches.	
<b>Dial Transfer Outside of Customer Group Denied</b>		
73	Perform Steps 47 through 49.	
74	Select A_ through E_ digits as required to select noncentrex number in same directory number series.	
75	Perform Steps 51 through 57b.	
76	Momentarily operate ST key.	MRL lamp lighted. Two trouble records taken. First trouble record—

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STEP	ACTION	VERIFICATION
		FT_, FU_, VG_, HG_, VF_ designations perforated indicating location of intercept trunk. BN or RI designation perforated.
77	Momentarily operate RL key.	All lamps extinguished.
78	Restore all keys and switches.	
<b>Manual Transfer to Attendant</b>		
79	Perform Steps 47 through 49.	
80	Select A0 digit.	
81	Select class of service arranged for manual transfer.	
82a	◆If ETS provided— Operate PCS key.◆	
83	Perform Steps 53 through 57b.	
84	Momentarily operate ST key.	MRL lamp lighted. Trouble record taken. FTT_, FUT_, VGT_, HGT_, VFT_ designations perforated indicating line location of attendant trunk arranged for manual transfer.
85	Momentarily operate RL key.	All lamps extinguished.
86	Restore all keys and switches.	
<b>Don't Answer Transfer</b>		
87	At MTF— Restore all keys and switches.	
88	Momentarily operate RL key.	All lamps extinguished.
89	Select ORIG class of test.	
90	Select A_ through G_ digits as required to select an intraoffice route and a station in a customer group arranged for don't answer transfer terminating treatment.	
91	Select class of service and rate treatment as required for access to selected route.	
92a	◆If ETS provided— Operate PCS key.◆	

STEP	ACTION	VERIFICATION
93	Select noncentrex line location.	
94	Select OR class of call with LT translator indication.	
95	Select marker under test.	
96	Operate REC key.	
97b	<p>◆If ETS provided and CM dump is required— Operate TCPO key.</p> <p><b>Note:</b> See paragraph 1.10.◆</p>	
98	Momentarily operate ST key.	<p>DIS1, LK2, MRL lamps lighted. Trouble record taken. FS_, TS_, TB_, TG_, LC_, LV_, FAK/FBK designations perforated indicating location of B appearance of intraoffice trunk (first trouble card), A appearance (second trouble card). DAT, TBS_ designations perforated (first trouble card). ◆If ETS provided— TG_, TBS_ designations not perforated.◆</p>
99	Momentarily operate RL key.	All lamps extinguished.
100	Restore all keys and switches.	
101	Select INC class of test.	
102	Select A_ through E_ digits as required to select station in same customer group to which DAT calls are transferred.	
103	Select class of service as required for transferring station in customer group arranged for DAT.	
104a	<p>◆If ETS provided— Operate PCS key.◆</p>	
105	Select any trunk link frame.	
106	Select marker under test.	
107	Operate DTF, DAT, REC keys.	
108b	<p>◆If ETS provided and CM dump is required— Operate TCPO key.</p>	

STEP	ACTION	VERIFICATION
	<i>Note:</i> See paragraph 1.10.4	
109	Momentarily operate ST key.	FL, DIS1, LK2, MRL lamps lighted. Trouble record taken. FTT_, FUT_, VGT_, HGT_, VFT_, <b>RS6</b> designations perforated indicating line location, class of service, rate treatment, and ringing code of transferred-to station. CT_, CU_ designations perforated indicating class of service of transferring station. DTF, DAT1, X11 or FVD designations perforated.
110	Momentarily operate RL key.	All lamps extinguished.
111	Restore all keys and switches.	
<b>Busy Line Transfer</b>		
112	Perform Steps 87 through 89.	
113	Select A_ through G_ digits as required to select an intraoffice route and a station in a customer group arranged for busy line transfer terminating treatment.	
114	Perform Steps 91 through 97b.	
115	Momentarily operate ST key.	DIS1, LK2, MRL lamps lighted. Trouble record taken. FS_, TS_, TB_, TG_, LC_, LV_, FAK/FBK designations perforated indicating location of B appearance of intraoffice trunk (first trouble card), A appearance (second trouble card). BLT, TBS_ designations perforated (first trouble card). If ETS provided— TG_, BLT, TBS_ designations not perforated. FTT_, FUT_, VGT_, HGT_, VFT_ designations perforated indicating line location of station selected in Step 113 arranged for busy line transfer.
116	Momentarily operate RL key.	All lamps extinguished.
117	Operate LBL key.	
118	Momentarily operate ST key.	MRL lamp lighted. Two trouble records taken. First trouble record— FTT_, FUT_, VGT_, HGT_, VFT_, CS 1/0-9, CS 1/10-19, CS 1/20-29 designations perforated indicating line location and class of service

STEP	ACTION	VERIFICATION
		for listed directory number. ITR, PRCY designations perforated.
119	Momentarily operate RL key.	All lamps extinguished.
120	Restore all keys and switches.	
121	Select INC class of test.	
122	Select A_ through G_ digits as required to select a centrex station in a customer group arranged for busy line transfer.	
123	Select class of service as required of transferring station arranged for busy line transfer.	
124a	◆If ETS provided— Operate PCS key.◆	
125	Select any trunk link frame.	
126	Select incoming trunk class as required for completion to called line.	
127	Select incoming class of call with translator indication as required for completion to called line.	
128	Select marker under test.	
129	Operate LBL, REC keys.	
130b	◆If ETS provided and CM dump is required— Operate TCPO key.	
	<b>Note:</b> See paragraph 1.10.◆	
131	Momentarily operate ST key.	MRL lamp lighted. Trouble record taken. FTT_, FUT_, VGT_, HGT_, VFT_, CS 1/0-9, CS 1/10-19, CS 1/20-29 designations perforated indicating line location and class of service for listed directory number. TER, PRCY designations perforated.
132	Momentarily operate RL key.	All lamps extinguished.
133	Restore all keys and switches.	
<b>Busy Line and Don't Answer Transfer</b>		
134	Perform Steps 87 through 89.	

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STEP	ACTION	VERIFICATION
135	Select A_ through G_ digits as required to select an intraoffice route and a station in a customer group arranged for busy line and don't answer transfer terminating treatment.	
136	Perform Steps 91 through 97b.	
137	Momentarily operate ST key.	DIS1, LK2, MRL lamps lighted. Trouble record taken. FS_, TS_, TB_, TG_, LC_, LV_, FAK/FBK designations perforated indicating location of B appearance of intraoffice trunk (first trouble card), A appearance (second trouble card). BLDA, TBS_ designations perforated. ◆If ETS provided— TG_, BLDA designations not perforated. FTT_, FUT_, VGT_, HGT_, VFT_ designations perforated indicating line location of station selected in Step 135 arranged for busy line and don't answer transfer.◆
138	Momentarily operate RL key.	◆All lamps extinguished.◆
139	Restore all keys and switches.	
<b>Line Identification Feature—Don't Answer Transfer</b>		
140	At MTF— Restore all keys and switches.	
141	Momentarily operate RL key.	All lamps extinguished.
142	Select INC class of test.	
143	Select centrex line location.	
144	Select trunk link frame having transfer trunk.	
145	Select marker under test.	
146	Operate DTF, TI, DAT, REC keys.	
147b	◆If ETS provided and CM dump is required— Operate TCPO key.	
	<b>Note:</b> See paragraph 1.10.◆	
148	Momentarily operate ST key.	DIS1, MRL, CTT 2/5, CUT 2/5, CTA 2/5, CU 2/5 lamps lighted. Trouble record taken. FTT_, FUT_, HGT_, VGT_, or VGT/T_, VGT/U_, VFT_, TF_, FG_ designations

STEP	ACTION	VERIFICATION
		perforated indicating MTF key or switch selection. CT_, CU_ designations perforated indicating class of service of transferring station. DTI, LK1, DAT, CH_ designations perforated.
149	Momentarily operate RL key.	All lamps extinguished.
150	Restore all keys and switches.	

**Line Identification Feature**

151	Perform Steps 140 through 145.	
152	Operate DTF, TI, REC keys.	
153b	◆If ETS provided and CM dump is required— Operate TCPO key.	
	<b>Note:</b> See paragraph 1.10.◆	
154	Momentarily operate ST key.	DIS1, LK2, MRL, CTT 2/5, CUT 2/5, CTA 2/5, CU 2/5 lamps lighted. Trouble record taken. FTT_, FUT_, HGT_, VGT_, VFT_, TF_, FG_ designations perforated indicating MTF key or switch selections. DTI, AOT, CH_ designations perforated.
155	Momentarily operate RL key.	All lamps extinguished.
156	Restore all keys and switches.	

**Line Identification Feature—Crossed Identifier or Open Transmit Leads**

157	Perform Steps 140 through 145.	
158	Operate DTF, TI, XI keys.	
159	Momentarily operate ST key.	LK2, MRL, CTT 2/5, CUT 2/5, CTA 2/5, CU 2/5 lamps lighted. Trouble record taken. FTT_, FUT_, HGT_, VGT_, VFT_, TF_, FG_ designations perforated indicating MTF key or switch selections. DCT1, LK1, XI, DTI designations perforated.
160	Momentarily operate RL key.	All lamps extinguished.
161	Restore XI key.	

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STEP	ACTION	VERIFICATION
162	Restore vertical file selected.	
163	Momentarily operate ST key.	TIR lamp lighted. Trouble record taken. TIR, DTI, designations perforated. VFT_ designation not perforated.
164	Momentarily operate RL key.	All lamps extinguished.
165	Restore all keys and switches.	
<b>Link Release—Line Identifier</b>		
166	At MTF— Restore all keys and switches.	
167	Momentarily operate RL key.	All lamps extinguished.
168	Select INC clss of test.	
169	Select marker under test.	
170	Operate DTF, TI, DCK keys.	
171	Momentarily operate ST key.	TIR lamp lighted. Trouble record taken. TIR, LRI, DTI designations perforated.
172	Momentarily operate RL key.	All lamps extinguished.
173	Restore all keys and switches.	
<b>Link Release—Transfer</b>		
174	Perform Steps 166 through 169.	
175	Operate DTF, DCK keys.	
176	Momentarily operate ST key.	TIR lamp lighted. Trouble record taken. TIR, LRI designations perforated.
177	Momentarily operate RL key.	All lamps extinguished.
178	Restore all keys and switches.	
<b>CC.1 Transfer Request in Secondary Office (Centralized Attendant Facilities)</b>		
1	At MTF— Restore all keys and switches.	

STEP	ACTION	VERIFICATION
2	Momentarily operate RL key.	All lamps extinguished.
3	Select INC class of test.	
4	Select completing marker.	
5	Select class of service and rate treatment as required having access to selected customer group.	
6a	◆If ETS provided— Operate PCS key.◆	
7	Select AO digit.	
8b	If 4- digit intercom is provided— Select X11 translator indication.	
9c	If 5- digit intercom is provided— Select FVD translator indication.	
10	Select trunk link frame.	
11d	◆If ETS not provided and particular line circuit is to be used— Set TBT_, TBU_, S_ switches as required to select line circuit within customer group.	
12d	Operate (pull-out) NG (A-H) 7/8, NGT, PBXH, NTLS keys.	
13e	If ETS provided and particular line circuit is to be used— Set TBT_, TBU_, S_ switches as required to select line circuit within customer group.	
14e	Operate (pull-out) NG (A-H) 1/8, NGT, PLLP keys.	
15f	If post ETS-LLP/AIS provided and particular line circuit is to be used— Set LPNA, LPNB, LPNC, S_ switches as required to select line circuit within customer group.	
16f	Operate PLLP key.◆	
17	Operate DTF, REC keys.	
18g	◆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.♦	
19	Momentarily operate ST key.	DIS1, LK2, MRL lamps lighted. Trouble record taken. Line location of line circuit, AO, FVD or X11 designations perforated.
20	Momentarily operate RL key.	All lamps extinguished.
21	Restore all keys and switches.	

**CC.2 Incoming Transfer Request In Primary Office  
(Centralized Attendant Facilities)**

1	At MTF— Restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.
3	Select INC class of test.	
4	Select completing marker.	
5	Select A0 digit.	
6	Select incoming class of call and associated translator indication.	
7	Select trunk link frame.	
8	Select incoming trunk class.	
9	Operate REC key.	
10a	♦If ETS provided and CM dump is required— Operate TCPO key.	
	<i>Note:</i> See paragraph 1.10.♦	
11	Momentarily operate ST key.	DIS1, LK2, MRL lamps lighted. Trouble record taken. ♦RS1,♦ AO, line location of attendant trunk designations perforated.
12	Momentarily operate RL key.	All lamps extinguished.
13	Restore all keys and switches.	

STEP	ACTION	VERIFICATION
CC.3	7-Digit Transfer In Secondary Office (Centralized Attendant Facilities)	
1	At MTF— Restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.
3	Select INC class of test.	
4	Select completing marker.	
5	Select incoming class of call with LT translator indication.	
6	Select A_ through G_ digits assigned to a working number within selected customer group in same office.	
7	Select class of service and rate treatment as required having access to selected customer group.	
8a	If ETS provided— Operate PCS key.	
9	Operate REC, DTF, ATT keys.	
10b	If ETS provided and CM dump is required— Operate TCPO key.	
	<b>Note:</b> See paragraph 1.10.	
11	Momentarily operate ST key.	DIS1, LK2, MRL, DT7 lamps lighted. Trouble record taken. ATT, DTF, called number, class of service designations perforated.
12	Momentarily operate RL key.	All lamps extinguished.
13	Select A_ through G_ digits assigned to a working number within selected customer group in another secondary office.	
14c	If ETS not provided and particular line circuit is to be used— Set TBT_, TBU_, S_ switches as required to select line circuit within customer group.	
15c	Operate (pull-out) NG (A-H) 7/8, NGT, PBXH, NTLS keys.	

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<b>STEP</b>	<b>ACTION</b>	<b>VERIFICATION</b>
16d	If ETS provided and particular line circuit is to be used— Set TBT_, TBU_, S_ switches as required to select line circuit within customer group.	
17d	Operate (pull-out) NG (A-H) 1/8, NGT, PLLP keys.	
18e	If post ETS-LLP/AIS provided and particular line circuit is to be used— Set LPNA, LPNB, LPNC, S_ switches as required to select line circuit within customer group.	
19e	Operate PLLP key.◆	
20	Momentarily operate ST key.	DIS1, LK2, MRL, DT7 lamps lighted. Trouble record taken. ATT, DTF, called number, class of service, line location of selected line circuit designations perforated.
21	Momentarily operate RL key.	All lamps extinguished.
22	Restore all keys and switches.	

**CC.4 5-Digit Intercom Call via LLP Line Circuit  
(Centralized Attendant Facilities)**

1	At MTF— Restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.
3	Select ORIG class of test.	
4	Select completing marker.	
5	Select originating line location.	
6	Select class of service and rate treatment as required having access to selected customer group.	
7a	◆If ETS provided— Operate PCS key.◆	
8	Select A_ through E_ digits as required to route call to a station within the customer group in another office.	

STEP	ACTION	VERIFICATION
9	Select OR originating class of call and FVD translator indication.	
10b	◆If ETS not provided and particular line circuit is to be used— Set TBT_, TBU_, S_ switches as required to select line circuit within customer group.	
11b	Operate (pull-out) NG (A-H) 7/8, NGT, PBXH, NTLS keys.	
12c	If ETS provided and particular line circuit is to be used— Set TBT_, TBU_, S_ switches as required to select line circuit within customer group.	
13c	Operate (pull-out) NG (A-H) 1/8, NGT, PLLP keys.	
14d	If post ETS-LLP/AIS provided and particular line circuit is to be used— Set LPNA, LPNB, LPNC, S_ switches as required to select line circuit within customer group.	
15d	Operate PLLP key.◆	
16	Operate REC key.	
17e	◆If ETS provided and CM dump is required— Operate TCPO key.	
	<b>Note:</b> See paragraph 1.10.◆	
18	Momentarily operate ST key.	DIS1, LK2, MRL lamps lighted. Two trouble records taken. First trouble record— Called number, FVD, line location of selected line circuit designations perforated.
19	Momentarily operate RL key.	All lamps extinguished.
20	Restore all keys and switches.	
<b>CC.5 5- or 7-Digit Intercom Call via Outgoing Trunk (Centralized Attendant Facilities)</b>		
1	At MTF— Restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.

STEP	ACTION	VERIFICATION
3	Select ORIG class of test.	
4	Select completing marker.	
5	Select originating line location.	
6	Select class of service and rate treatment as required having access to selected customer group.	
7a	◆If ETS provided— Operate PCS key.◆	
8	Select A_ through G_ digits as required to route call to a station within the customer group in another office.	
9	Select OR originating class of call and LT translator indication (7-digit) or FVD translator indication (5-digit).	
10	Operate REC key.	
11b	◆If ETS provided and CM dump is required— Operate TCPO key.	
	<b>Note:</b> See paragraph 1.10.◆	
12	Momentarily operate ST key.	DIS1, LK2, MRL lamps lighted. Trouble record taken. FVD or LT, class of service, called number, selected route designations perforated.
13	Momentarily operate RL key.	All lamps extinguished.
14	Restore all keys and switches.	
<b>CC.6 7-Digit Line Identification Feature (Centralized Attendant Facilities)</b>		
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 centralized attendant line location.	
5	Select trunk link frame having transfer trunk.	
6	Select marker under test.	

STEP	ACTION	VERIFICATION
7	Operate DTF, TI, ATT, REC keys.	
8a	♦If ETS provided and CM dump is required— Operate TCPO key.	
	<i>Note:</i> See paragraph 1.10.♦	
9	Momentarily operate ST key.	DIS1, MRL, CTT 2/5, CUT 2/5, CTA 2/5, CU 2/5, DT7 lamps lighted. Trouble record taken. Selected line location, class of service of transferring station, DTI, LK1, CH, 7T, ATT designations perforated.
10	Momentarily operate RL key.	
11	Restore all keys and switches.	
<b>CC.7 ♦LDN Call in Secondary Office (Centralized Attendant Facilities)</b>		
1	At MTF— Restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.
3	Select INC class of test.	
4	Select marker under test.	
5	Select A_ through G_ digits as required for listed directory number.	
6	Select incoming class of call with translator indication as required for completion to called line.	
7	Select any trunk link frame.	
8	Select incoming trunk class as required for completion to called line.	
9	Operate REC key.	
10	If ETS provided and CM dump is required— Operate TCPO key.	
	<i>Note:</i> See paragraph 1.10.	
11	Momentarily operate ST key.	DIS1, LK2, MRL lamps lighted. Trouble record taken. FTT_, FUT_, VGT_, HGT_, VFT_ designations

STEP	ACTION	VERIFICATION
		perforated indicating line location of attendant line circuit. CTI, DL4, CR1, CR7 designations perforated. If ETS provided— CTI, DL4 designations not perforated.
12	Momentarily operate RL key.	All lamps extinguished.
13	Restore all keys and switches.	
<b>CC.8 LDN Call Incoming To Primary Office From Secondary Office (Centralized Attendant Facilities)</b>		
1	At MTF— Restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.
3	Select INC class of test.	
4	Select marker under test.	
5	Select A8 digit.	
6	Select incoming class of call and associated translator indication.	
7	Select any trunk link frame.	
8	Select incoming trunk class.	
9	Operate REC key.	
10	If ETS provided and CM dump is required— Operate TCPO key.  <i>Note:</i> See paragraph 1.10.	
11	Momentarily operate ST key.	DIS1, LK2, MRL lamps lighted. Trouble record taken. RS0, A8, line location of attendant trunk designations perforated.
12	Momentarily operate RL key.	All lamps extinguished.
13	Restore all keys and switches.◀	