

INCOMING TRUNK SD-65812-01
ARRANGED FOR CALL DISTRIBUTION TERMINATION
WITH TELEPHONE CONSOLE
OPERATION TESTS
701B PBX

1. GENERAL

1.01 This section describes a method of testing the operating features of incoming trunk SD-65812-01 arranged for inward dialing with telephone console.

1.02 This section is reissued to delete the use of test set SD-66073-01 (J54701B), to make major revisions, and to bring the section up to date. Since this is a general revision, arrows ordinarily used to indicate changes have been omitted.

1.03 The tests covered are:

A. Incoming Directory Numbered Call to Attendant: The following features are checked. (1) Seizure. (2) Digit absorbing. (3) Attendant answer. (4) Attendant completion. (5) Calling party disconnects — without calling party control (ZQ and ZF options). (6) Calling party disconnects — with calling party control (ZQ and YC options). (7) Attendant disconnects — central office remains connected (ZR option).

B. Incoming DID Call: The following features are checked. (1) Seizure. (2) Station answer. (3) Station flash to call attendant — without dial transfer (E and ZM options). (4) Dial transfer (ZN and ZW options). (5) Calling party disconnects first — without transfer (ZQ option). (6) Called station disconnects first — without transfer (ZQ option). (7) Called station disconnects first (ZR option). (8) Calling party disconnects first — called party remains off-hook (ZR option).

C. Busy Line Transfer: This test checks that a DID calling party is transferred to the attendant when the called station is busy.

D. Don't Answer Transfer: This test checks that a DID calling party is transferred to the attendant when the called station does not answer after approximately five rings.

1.04 This test requires action and verification at the telephone console, unit under test, and the central office. When a step requires a key to be depressed, the key is nonlocking and should be momentarily depressed, then released.

1.05 The TRK key in the ACTION column is associated with the trunk under test.

1.06 These tests shall be made at a time when the normal operation of the PBX will not be affected.

1.07 Local instructions should be followed for recording and reporting any register operations caused by performing these tests.

1.08 When performing Test B the DID calls register will score.

1.09 When performing Test A the directory calls register will score.

1.10 When performing Tests A, B, C, and D the calls to attendant register will score.

1.11 Lettered Steps: A letter a, b, c, etc, added to a step number in Part 4 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

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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.

2. APPARATUS

2.01 1011G handset (dial hand test set) equipped with a 2W38A cord assembly consisting of one W2CK cord, one 471A jack, and one 310 plug.

2.02 Two 500-type telephone sets, or equivalent.

3. PREPARATION

STEP	ACTION	VERIFICATION
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All Tests

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|---|---|--|
| 1 | At central office —
Make busy trunk selected for test. | |
| 2 | Connect a 500-type telephone set to spare line terminals at distributing frame. (Locate telephone set near trunk under test.) This is referred to as station A. | |
| 3 | Connect a 500-type telephone set to spare line terminals at distributing frame. (Locate telephone set near trunk under test.) This is referred to as station B. | |
| 4 | Operate handset switch to MON. | |
| 5 | At trunk unit under test —
Connect handset to TST jack. This is referred to as station C. | |

4. METHOD

STEP	ACTION	VERIFICATION
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A. Incoming Directory Numbered Call to Attendant

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|---|---|---|
| 6 | At station C —
Operate handset switch to TALK. | At incoming selector associated with trunk under test —
Relay A operated. |
| 7 | At station C —
Dial level on which directory number is associated plus three digits. | If attendant delays in answering —
Audible ringing tone heard. |
| 8 | At telephone console —
Attendant depresses TRK key. | At station C —
Audible ringing tone silenced.
Conversation satisfactory between attendant and station C.
At trunk unit under test —
OA, TR, P, PA, A, SP relays operated. |

STEP	ACTION	VERIFICATION
9	At telephone console — Attendant is requested to complete call to station A and remain connected.	At station A — Bell rings.
10	Remove handset switch hook.	Bell tripped.
Calling Party Disconnects (ZF Option)		
11	At station C — Operate handset switch to MON.	At trunk unit under test — A, P, PA, SP relays released.
12	At telephone console — Attendant depresses RLS key.	At trunk unit under test — OA, TR relays released. At incoming selector associated with trunk unit under test — Selector released.
Calling Party Disconnects — With Calling Party Control (ZQ and YC Options)		
13	At station C — Operate handset switch to MON.	At trunk unit under test — A, P, PA, SP, OA, TR relays released. At incoming selector associated with trunk unit under test — Selector released.
14	At station A — Place handset on switch hook.	
15	At telephone console — Request attendant to release.	
Attendant Disconnects — Central Office Remains Connected (ZR Option)		
16	Repeat Steps 6 through 10.	
17	At telephone console — Attendant depresses RLS key.	At trunk unit under test — OA relay released. TR, P relays released. At incoming selector associated with trunk unit under test — Selector released. At trunk unit under test — PA relay released. After approximately 2 to 3 seconds — SP relay released. A relay released.
18	At station C — Operate handset switch to MON.	

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STEP	ACTION	VERIFICATION
19a	If no further tests are to be performed — Remove telephone sets from spare line terminals, handset from TST jack. Notify central office to remove make-busy from central office trunk termination.	

B. Incoming DID Call

6	At station C — Operate handset switch to TALK.	At incoming selector associated with trunk unit under test — Selector seized.
7	At station C — Dial digits of station A.	Audible ringing tone heard. At station A — Bell rings.
8	Remove handset from switch hook.	Ringling tripped. At station C — Audible ringing tone silenced.

Station Flash To Call Attendant — Without Dial Transfer (E and ZM Options)

9	At station A — Momentarily depress switch hook.	Audible ringing tone heard.
10	At telephone console — Attendant depresses TRK key.	Audible ringing tone silenced. Conversation satisfactory between stations A, C, and attendant.
11	Attendant is requested to complete call to station B.	
12	At station A — Place handset on switch hook.	
13	At telephone console — Attendant completes call to station B.	At station B — Bell rings.
14	Remove handset from switch hook.	Ringling tripped.

Dial Transfer (ZN and ZW Options)

15	At station A — Momentarily depress switch hook.	Dial tone heard.
16	Dial 0 for attendant.	Audible ringing tone heard.
17	At telephone console — Attendant depresses TRK key.	Audible ringing tone silenced. Conversation satisfactory between attendant and station A.

STEP	ACTION	VERIFICATION
18	Attendant is requested to complete call to station B.	At station B — Bell rings.
19	Remove handset from switch hook.	Ringling tripped.
20	At telephone console — Attendant depresses RLS key.	
Calling Party Disconnects — Without Transfer (ZQ Option)		
21	At station C — Operate handset switch to MON.	At incoming selector associated with trunk unit under test — Selector released.
Called Station Disconnects — Without Transfer (ZQ Option)		
22	Repeat Steps 6 through 8.	
23	At station A — Replace handset on switch hook.	At incoming selector associated with trunk unit under test — Selector released.
Called Station Disconnects First (ZR Option)		
24	At station B — Replace handset on switch hook.	At trunk unit under test — After about 1 second — T1, RV relays operated.
25	At station C — Operate handset switch to MON.	T1, RV relays released. At incoming selector associated with trunk unit under test — Selector released.
Calling Party Disconnects — First Called Party Remains Off-Hook (ZR Option)		
26	Repeat Steps 6 through 8.	
27	At station C — Operate handset switch to MON.	At incoming selector associated with trunk unit under test — Selector released.
28a	If no further tests are to be performed — Remove telephone sets from spare line terminals, handset from TST jack. Notify central office to remove make-busy from central office trunk termination.	

C. Busy Line Transfer

6	At station A — Remove handset from switch hook.	Dial tone heard.
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STEP	ACTION	VERIFICATION
7	At station C — Operate handset switch to TALK.	At incoming selector associated with trunk unit under test — Selector operated.
8	At station C — Dial digits of station A.	Audible ringing tone heard. At telephone console — TRK lamp flashed at 60 ipm. If ZI option is provided — TRK lamp flashed at 120 ipm. At incoming selector associated with trunk under test — Selector released.
9	At telephone console — Attendant depresses TRK key.	At trunk unit under test — Trunk seized. At telephone console — TRK lamp steadily lighted. At station C — Audible ringing tone silenced.
10	At telephone console — Attendant depresses RLS key.	At trunk unit under test — Trunk released.
11a	If no further tests are to be performed — Disconnect all telephone sets. Request central office to remove make-busy from central office trunk termination.	

D. Don't Answer Transfer

6	At station C — Operate handset switch to TALK.	At incoming selector associated with trunk unit under test — Selector seized.
7	At station C — Dial digits of station A.	Audible ringing tone heard. At station A — Bell rings. After approximately five rings — At station C — Audible ringing tone heard. At station A — Ringing tripped. At telephone console — TRK lamp flashed at 60 ipm. If ZI option is provided — TRK lamp flashed at 120 ipm.
8	Attendant depresses TRK key.	At trunk unit under test — Trunk seized. At telephone console — TRK lamp steadily lighted. At station C — Audible ringing tone silenced.

STEP	ACTION	VERIFICATION
9	At telephone console — Attendant depresses RLS key.	At trunk unit under test — Trunk released. At incoming selector associated with trunk unit under test — Selector released.
10a	If no further tests are to be performed — Disconnect all telephone sets. Request central office to remove make-busy from central office trunk termination.	