

## OUTGOING TRUNKS

### USING OUTGOING TRUNK TEST FRAME SD-25177-01

#### NO. 1 CROSSBAR OFFICES

#### 1. GENERAL

**1.01** This section describes a method of testing outgoing trunks from No. 1, Crossbar Offices using manual outgoing trunk test circuit SD-25177-01.

**1.02** This section is reissued for the following reasons:

- (a) To omit former Test Q (Tandem Announcement Connecting Trunks).
- (b) To revise Tests A, B, and H.
- (c) To add new Test Q (Trunks to BELLBOY Personal Signaling System).
- (d) To add new Test R (Trunks to 6a Teletypewriter Switchboard).

**1.03** The tests covered are:

**A. Revertive Pulsing Trunks to No. 1 Crossbar, No. 5 Crossbar, or Panel Offices:**

Tests of these trunks are made by directing calls to the final multiple test line in panel offices and the incoming trunk test line in crossbar offices. These test lines, in conjunction with the test frame, check the ringing and supervisory features of trunks as well as electrical tests of the A and L relays.

**B. A Relay Nonoperate Test — Panel Incoming 24V Trunk and Crossbar Incoming Trunks:**

This test makes a nonoperate test of the trunk A relay through the use of compensating resistance while directing a call to a busy line.

**C. Revertive Pulsing Trunks to Crossbar Tandem or Panel Office Selector Tandem:**

Tests of these trunks are made by directing calls to test lines or test line circuits in the respective types of offices.

**D. Trunks to Panel Call Indicator (Including Official PBX Trunks Requiring Call Indicator Pulses):** These trunks are tested by

directing calls to a call indicator test line, a busy number or to a PBX operator.

**E. PCI Trunks to Crossbar Tandem (non-CAMA) or Panel Sender Tandem:**

These trunks are tested by directing a call to the tandem office test line circuit, to a busy line, or to a test line circuit in a local office reached through the tandem office. Included in this test, is a test from the TO jacks (cable side) for trunks arranged for dial coin zone service to a panel sender tandem or on a PCI basis to a crossbar tandem. This test excludes the dial coin zone trunk equipment.

**F. Dial Pulse (DP) Trunks (Manual Dialing):**

These trunks are tested by manually dialing a call to a test line or busy line with compensating resistance key settings to check the electrical requirements of the control relays.

**G. Dial Pulse (DP) Trunks (Automatic Dialing):**

The same tests are placed on the trunks as in Test F except that the called number is written up on the register keys and is then pulsed automatically.

**H. Multifrequency Trunks:**

Trunks direct to crossbar offices are tested by directing calls to test lines or busy lines in the respective crossbar offices. Trunks to No. 4A, No. 4M, and tandem crossbar offices (non-CAMA) are tested either to the No. 4A, No. 4M, or tandem test line or through the respective office to a terminating office test line. CAMA trunks are tested to the No. 4A, No. 4M, No. 5, or tandem test line.

**J. Overflow Trunks:**

These trunks are tested on a regular call basis with a check of overflow tone or a supervisory flash on tandem office overflow trunks.

**K. Free Trunks to Official PBX:** These trunks are tested on a regular call basis with a check of audible ringing and proper supervision.

**L. Information Trunks:** These trunks are tested in the same manner as those in Test K.

**M. Repair Service Trunks:** These trunks are tested in the same manner as those in Test K.

**N. Test Trunk to Local Test Desk:** An operation test of these trunks is made with a check of supervision and the testman's ability to hold the connection.

**O. PCI Trunks to Crossbar Tandem Operator Identified CAMA:** These trunks are tested either to the tandem test line or through the tandem office to a terminating office test line.

**P. Dial Coin Zone Trunks to Panel Sender Tandem or Crossbar Tandem:** This test is made from the T jacks and tests through the dial coin zone trunk equipment; the completion of call is under control of the coin operator.

**Q. Trunks to BELLBOY Personal Signaling System:** This test checks that proper supervision and announcement is received over the trunks.

**R. Trunks to 6A Teletypewriter Switchboard:** This test checks supervisory and reseizure features of the trunks.

**1.04** A list should be prepared containing for each trunk group where required, the trunk, A relay operate, A relay nonoperate and L relay nonoperate compensating resistance settings necessary for test purposes. For dial pulse and multifrequency trunk groups, the list should also contain the type of start pulsing signal and the type of pulsing required for the dial pulse groups.

**1.05** Information for determining the required compensating resistances may be obtained from incoming trunk test frame and marker and decoder cross-connection records together with Bell System Practices covering compensating resistances and incoming trunk test frame cross connections.

**1.06** The trunk compensating resistance list should contain the minimum loop resistance value for ordinary operation and the maximum loop resistance to be used for testing the various trunk groups under extreme conditions.

**1.07** The A relay operate compensating resistance should be a value such that, when added to the trunk loop resistance, the sum is as near as possible to, but not more than the maximum external circuit loop resistance value for supervision as covered on the circuit drawing.

*Note:* In the case of trunks to tandem having through supervision, or on 2-wire office selectors, no A relay operate compensating resistance should be added and the test should be made on a regular circuit operation basis.

**1.08** The A relay nonoperate compensating resistance should be a value such that, when added to the trunk compensating resistance, the L relay nonoperate compensating resistance, 500 ohms (CH relay winding in the test circuit) and the trunk loop resistance, the sum is as near as possible to, but not less than the value required to produce the nonoperate current test value for the A relay.

**1.09** The L relay nonoperate compensating resistance should be a value such that, when added to the trunk compensating resistance, 500 ohms (CH relay winding in test circuit), the trunk loop resistance and any compensating resistance in use at the distant end when the incoming selector is in the incoming advance position, the sum is as near as possible to, but not less than the value required to produce the nonoperate current test value of the L relay.

**1.10** Lamps and keys associated with jack T1 have a 1 in the designation as ON1, SDR1, etc. Lamps and keys associated with jack T2 have a 2 in the designation as ON2, SDR2, etc. In the procedures for Tests A to R inclusive, it is assumed that the T1 jack is used and reference is made to the associated lamps and keys.

**1.11** The REP key (if furnished) when operated on revertive pulse and multifrequency type calls and used with the TST1 cord will automatically make repeat tests only to a

"busy" test line or to a test line which conditions the incoming trunk circuit to send back pulses of reversed battery. In order to satisfy the test circuit when the REP key is operated, six pulses (six flashes) of reversed battery are required from the incoming trunk circuit.

**1.12 Lettered Steps:** A letter a, b, c, etc, added to a step number in Parts 3 and 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 lettered steps should be made is given in the ACTION column, and all steps gov-

erned 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** Three P3F cords, 4 feet long, equipped with one 310 plug and one 309 plug (3P12A, 3P12B, and 3P12C cords).

**2.02** Head telephone set.

**2.03** Outgoing trunk test frame SD-25177-01.

## 3. PREPARATION

STEP	ACTION	VERIFICATION
<b>ALL TESTS</b>		
1	Restore all test frame keys to normal.	
2a	If ON1 lamp is lighted — Operate DISC1 key momentarily.	ON1 lamp extinguished.
3b	If trunk is made busy and is not in use on a service call — Operate NT1 key.	
4c	If trunk to be tested is other than 4-wire reverse battery supervision — Patch T1 jack to T jack of trunk to be tested.	
5d	If trunk is 4-wire reverse battery supervision — Patch T and R jacks to T and R jacks of trunks to be tested.	
6d	Operate MF4W key.	
7e	If trunk is 4-wire E and M lead signaling trunk — Operate EM4W key.	
8f	If trunk is busy on service call.	BY1 and ON1 lamps light.
9g	If desired to disconnect at this point — Remove patch cord.	BY1 lamp extinguished.
10g	Operate DISC1 key momentarily.	ON1 lamp extinguished.
11f	If cord is left in trunk jack — When trunk becomes idle.	BY1 lamp extinguished.
12f	Operate DISC1 key momentarily.	ON1 lamp extinguished.

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STEP	ACTION	VERIFICATION
13h	If a 4-wire trunk with a relay on the "S" lead or a test trunk to local test desk is to be tested — Patch DMB1 jack to trunk S or T and MB jack.	
14i	If trunk has battery on tip and ground on ring when called subscriber receiver is "OFF HOOK" — Operate RS1 key.	

4. METHOD

STEP	ACTION	VERIFICATION
<b>A. Revertive Pulsing Trunks to No. 1 Crossbar, No. 5 Crossbar, or Panel Offices</b>		
15	Operate DM key.	
16j	If trunk has 24V on supervisory relay — Operate TFV key.	
17	Operate required TRK COMP RES and A OPR COMP keys.	
18k	If a nonoperate test of L and A relays on battery cutoff panel trunks is desired — Operate PRE OPR L & A RYS key and required L RY NONOPR COMP RES and A RY NONOPR COMP RES keys.  <i>Note:</i> When no A RY NONOPR COMP RES key setting is given, set these keys to 4000.	
19l	When trunk under test is common to two crossbar units and call is to second unit (OFFICE B) — Operate HF key.	
20	Set up number of test line.	
21	Operate TST1 and SDR1 keys.	ON1 lamp lights. SDR lamp flashes at 120 ipm during selections. Selections completed — SDR lamp extinguished. SUP1 lamp lights.
22	Operate TLK1 key.	Ringling induction for at least one interval. Ringling tripped. SUP1 lamp flashes according to type of test line called. Synchronizing type test line — Series of clicks in receiver at end of test. SUP1 lamp lights steadily. Nonsynchronizing type test line — SUP1 lamp will continue to flash with the supervisory relay operate and release.

STEP	ACTION	VERIFICATION
23m	If repeat test is desired — Operate DISC1 key momentarily. <i>Note:</i> If trunk under test is over carrier facilities, restore TLK1 key until selections are completed.	Test repeated.
24	Remove patch cord from trunk jack.	
25	Restore all keys to normal.	
26	Operate DISC1 key momentarily.	All lamps extinguished.
<b>B. A Relay Nonoperate Test — Panel Incoming 24V Trunk and Crossbar Incoming Trunks</b>		
15	Operate DM and ANO keys.	
16j	If trunk has 24V on supervisory relay — Operate TFV key.	
17k	If a panel incoming trunk — Operate required L RY NONOPR COMP RES keys.	
18	Operate required A OPR COMP, TRK COMP RES, and A RY NONOPR COMP RES keys.	
19	Operate TST1 key.	
20	Set up number of a busy line.	
21	Operate SDR1 key.	ON1 lamp lights. SDR lamp flashes at 120 ipm during selections. Selections completed — SDR lamp extinguished. SUP1 lamp flashes at busy-back rate.
22	Operate TLK1 key.	Busy-back tone.
23l	If repeat test is desired — Operate DISC1 key momentarily. <i>Note:</i> If trunk under test is over carrier facilities, restore TLK1 key until selections are completed.	Test repeated.
24	Remove patch cord from trunk jack.	
25	Restore all keys to normal.	
26	Operate DISC1 key momentarily.	All lamps extinguished.
<b>C. Revertive Pulsing Trunks to Crossbar Tandem or Panel Office Selector Tandem</b>		
15	Operate 1 OFF, 1 OFF OB and 1 OFF OG keys for number of tandem office test trunk or test line circuit.	

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STEP	ACTION	VERIFICATION
16	Operate required A OPR COMP and 1 OFF COMP keys.	
17	Operate TST1 key.	
18	Operate SDR1 key.	ON1 lamp lights. SDR lamp flashes at 120 ipm during selections. Selections completed — SDR lamp extinguished. SUP1 lamp flashes.  <i>Note:</i> Disregard any MO lamp indication that may occur during this test.
19j	If repeat test is desired — Operate DISC1 key momentarily.	Test repeated.
20	Remove patch cord from trunk jack.	
21	Restore all keys to normal.	
22	Operate DISC1 key momentarily.	All lamps extinguished.

**D. Trunks to Panel Call Indicator (Including Official PBX Trunks Requiring Call Indicator Pulses)**

- 15 Operate CI and TST1 keys.
- 16 Operate required A OPR COMP and TRK COMP RES keys.

**Call Indicator Trunks**

17	Set up number of call indicator test line.	
18	Operate SDR1 key.	ON1 lamp lights. SDR lamp flashes at 60 ipm until call is completed. Call completed — SDR lamp extinguished.
19	Operate TLK1 key.	Ringling induction for at least one interval. SUP1 lamp flashes according to type of test line. Series of clicks in receiver at end of test.
20j	If repeat test is desired — Operate DISC1 key momentarily.	Test repeated.
21	Remove patch cord from trunk jack.	
22	Restore all keys to normal.	
23	Operate DISC1 key momentarily.	All lamps extinguished.

**PBX Trunks**

- 24 Set up any 4-digit number.

STEP	ACTION	VERIFICATION
25	Operate SDR1 key.	ON1 lamp lights. SDR lamp flashes at 60 ipm until call is completed. Call completed — SDR lamp extinguished. SUP1 lamp lighted.
26	Operate TLK1 key.	Ringing induction until operator answers. <i>Note:</i> When operator answers, advise her to disregard the call.
27k	If repeat test is desired — Operate DISC1 key momentarily.	Test repeated.
28	Remove patch cord from trunk jack.	
29	Restore all keys to normal.	
30	Operate DISC1 key momentarily.	All lamps extinguished.

#### E. PCI Trunks to Crossbar Tandem (non-CAMA) or Panel Sender Tandem

15	Operate required A OPR COMP and TRK COMP RES keys.	
16	Operate TDM and TST1 keys.	
17	Set up number for tandem office test line circuit, busy line or test line circuit in local office reached through tandem.	
18	Operate SDR1 key.	ON1 lamp lights. SDR lamp flashes at 60 ipm during selections. Selections completed — SDR lamp extinguished. SUP1 lamp flashes in accordance with test line called.
19j	If repeat test is desired — Operate DISC1 key momentarily.	Test repeated.
20	Remove patch cord from trunk jack.	
21	Restore all keys to normal.	
22	Operate DISC1 key momentarily.	All lamps extinguished.

#### F. Dial Pulse (DP) Trunks (Manual Dialing)

15	Operate DT1 key.
16j	For trunks requiring battery and ground pulse dialing — Operate BGD key.
17k	For 4-wire repeater type trunks — Operate ORD key.

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STEP	ACTION	VERIFICATION
18l	For trunks arranged for delay dial start pulsing signal — Operate TO key.	
19	Operate NO SDR1 key.	ON1 lamp lights. Wait for SUP1 lamp to light steadily before proceeding.
20m	On GO type trunks that give dial tone start pulsing signal — Operate TLK1 key.	Wait for dial tone before proceeding.
21	Dial number of test line.	SUP1 lamp extinguished each time dial is moved off normal.  <i>Note:</i> Each time dial returns to normal SUP1 lamp relights and should not flash before the dial is moved off normal for the next digit.  Call completed — SUP1 lamp flashes in accordance with type of test line called.
22	Remove patch cord from trunk jack.	
23h	Remove patch cord from trunk S or T and MB jack.	
24	Restore all keys to normal.	
25	Operate DISC1 key momentarily.	All lamps extinguished.

**G. Dial Pulse (DP) Trunks (Automatic Dialing)**

15	Operate required A OPR COMP keys.
16j	For trunks requiring dialing on loop basis — Operate LPD key.
17k	For trunks requiring dialing on battery and ground basis — Operate BGD key.
18l	For trunks requiring dialing on loop resistance basis — Operate ORD key.
19m	For trunks requiring GO start pulsing signal — Operate GO key.
20n	For trunks requiring delay dial start pulsing signal — Operate TO key.

STEP	ACTION	VERIFICATION
21	Set up number of test line. <i>Note:</i> If the trunk under test is common to two units, set up the office indicating digit on the TAN U key, if provided. If the TAN U key is not provided set up the office indicating digit on the TAN H key.	
22p	If desired to check for dial tone on dial tone trunks — Operate DT key.	<i>Note:</i> When dial tone is received after Step 23 is performed, release the DT key to allow the test to proceed.
23	Operate TST1 and DP1 keys.	ON1 lamp lights. KP lamp flashes during pulsing. Selections completed — KP lamp lights steadily. SUP1 lamp flashes according to type of test line called.
24q	If desired to check audible test indications — Operate TLK1 key.	
25	If desired to make repeat test — Operate DISC1 key momentarily.	Test repeated.
26	Remove patch cord from trunk jack.	
27	Restore all keys to normal.	
28	Operate DISC1 key momentarily.	All lamps extinguished.

#### H. Multifrequency Trunks

15	Operate required A OPR COMP keys. <i>Note:</i> Operate A OPR COMP O key for 4-wire trunks.	
16j	If trunk requires delayed dial start pulsing signal — Operate TO key.	
17k	If testing to test line in No. 4A, No. 4M or tandem office — Set up 3-digit office test code followed by any four numerical digits. <i>Note:</i> If trunk to be tested is a CAMA trunk and has been taken out of service at the request of the distant office, DO NOT ATTEMPT to make a test call since this can result in an incomplete or false entry on the tape at the CAMA office.	
18l	If testing through a non-CAMA tandem office to a terminating office — Set up the required office code and busy or test line number.	

STEP	ACTION	VERIFICATION
19m	If testing direct trunks to a crossbar office — Set up the busy or test line number.  <i>Note:</i> If the trunk under test is common to two crossbar units, set up the office indicating digit on the TAN U key, if provided. If the TAN U key is not provided set up the office indicating digit on the TAN H key.	
20n	If testing MF panel outgoing trunk — Operate PNL key.	
21	Operate TLK1, TST1, and MF1 keys.	ON1 lamp lights. KP lamp flashes during pulsing. KP lamp lights steadily after completion of pulsing.  If call is to a No. 1 or No. 5 crossbar office or non-CAMA tandem or through a non-CAMA tandem to terminating office — SUP1 lamp flashes and audible signals heard in accordance with type of test line called.  If call is to a CAMA office — Tone or clicks heard as provided by test line. SUP1 lamp may or may not light.  <i>Note:</i> If the call to the CAMA test line is established for a duration of about 45 seconds or longer, it may be automatically disconnected by the incoming trunk circuit.
22o	If repeat test is desired — Operate DISC1 key momentarily.	Test repeated.
23	Remove patch cord from trunk jack.	
24	Restore all keys to normal.	
25	Operate DISC1 momentarily.	All lamps extinguished.
<b>J. Overflow Trunks</b>		
15	Operate NO SDR1 and TLK1 keys.	ON1 lamp lights. Overflow trunks — Overflow tone in receiver. Tandem overflow trunks — SUP1 lamp flashes.
16	Remove patch cord from trunk jack.	SUP1 lamp extinguished.
17	Restore all keys to normal.	
18	Operate DISC1 key momentarily.	All lamps extinguished.

STEP	ACTION	VERIFICATION
<b>K. Free Trunks to Official PBX</b>		
15	Operate NO SDR1 and TLK1 keys.	ON1 lamp lights. Ringing induction until call answered. SUP1 lamp lights and remains lighted during conversation.
16	Inform operator tests are being made and to disregard call.	
17j	If repeat test is required — Operate DISC1 key momentarily.	Test repeated.
18	Remove patch cord from trunk jack.	SUP1 lamp extinguished.
19	Restore all keys to normal.	
20	Operate DISC1 key momentarily.	All lamps extinguished.
<b>L. Information Trunks</b>		
15	Operate NO SDR1 and TLK1 keys.	ON1 lamp lights. Ringing induction until call answered. SUP1 lamp lights and remains lighted during conversation.
16	Inform operator tests are being made and to disregard call.	
17j	If repeat test is required — Operate DISC1 key momentarily.	Test repeated.
18	Remove patch cord from trunk jack.	SUP1 lamp extinguished.
19	Restore all keys to normal.	
20	Operate DISC1 key momentarily.	All lamps extinguished.
<b>M. Repair Service Trunks</b>		
15	Operate NO SDR1 and TLK1 keys.	ON1 lamp lights. Ringing induction until call answered. SUP1 lamp lights and remains lighted during conversation.
16	Inform repair clerk tests are being made and to disregard call.	
17j	If repeat test is required — Operate DISC1 key momentarily.	Test repeated.
18	Remove patch cord from trunk jack.	SUP1 lamp extinguished.

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STEP	ACTION	VERIFICATION
19	Restore all keys to normal.	
20	Operate DISC1 key momentarily.	All lamps extinguished.
<b>N. Test Trunk to Local Test Desk</b>		
15j	If 102C retard coil is used in operator's telephone circuit — Operate 500-ohm A OPR COMP key.	
16k	If 102A retard coil is used in operator's telephone circuit — Operate 1000-ohm A OPR COMP key.	
17	Operate MISC TRKS and TST1 keys.	
18	Operate TLK1 and NO SDR1 keys.	ON1 and SUP1 lamps light. Ringing induction until call answered.
19	While testman is on line — Remove plug from trunk jack.	SUP1 lamp remains lighted.
20	Reinsert plug in trunk jack.	
21	Request testman to disconnect — Immediately remove plug from trunk jack.	SUP1 lamp extinguished.
22h	Remove patch cord from S or T and MB jack.	
23	Restore all keys to normal.	
24	Operate DISC1 key momentarily.	All lamps extinguished.

**O. PCI Trunks to Crossbar Tandem Operator Identified CAMA**

15	Operate required A OPR COMP and TRK COMP RES keys.	
16	Operate TDM, TST1, and TLK1 keys.	
17j	If testing to test line in tandem office — Set up tandem test code and any four numerical digits.	
18k	If testing through tandem office to a terminating office — Set up the required office code and test line number.	

*Note:* If CAMA trunk has been taken out of service at the request of the tandem switchman, DO NOT ATTEMPT to make a test call since this can result in an incomplete or false entry on the tape at the CAMA office.

STEP	ACTION	VERIFICATION
19	Operate SDR1 key.	<p>ON1 lamp lights.            SDR lamp flashes at 60 ipm during pulsing.            SDR lamp extinguished after completion of pulsing.</p> <p><i>Note:</i> On calls through a CAMA tandem to a terminating office the CAMA operator will request a calling number. Give the name of the office which has access to the trunk being tested and a busy line, test line, or a charge number in accordance with local practice, as the number making the call.</p> <p>SUP1 lamp flashes and audible signals heard in accordance with type of test line called.</p>
20	If repeat test is desired — Operate DISC1 key momentarily.	Test repeated.
21	Remove patch cord from trunk jack.	
22	Restore all keys to normal.	
23	Operate DISC1 key momentarily.	All lamps extinguished.
<b>P. Dial Coin Zone Trunks to Panel Sender Tandem or Crossbar Tandem</b>		
15	Operate required TRK COMP RES keys.	
16	Operate TDM, TST1, and TLK1 keys.	
17	Set up number for tandem office test line circuit or busy line or test line circuit in local office reached through tandem.	
18	Operate SDR1 key.	<p>ON1 lamp lights.            SDR lamp flashes at 60 ipm during pulsing.            SDR lamp extinguished after completion of pulsing.            Ringing induction heard until call answered.            Call answered.</p>
19	Inform operator tests are being made.	
20	Operate TN key momentarily.	<p>At operator's position —            Identifying test tone heard.            Operator disconnects and call established.            Audible signals heard in accordance with test line called.</p> <p><i>Note:</i> Disregard any MO lamp indication that may occur during this test. Also, due to circuit conditions of dial coin zone equipment there will be no SUP1 lamp signals.</p>

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STEP	ACTION	VERIFICATION
21j	If repeat test is desired — Operate DISC1 key momentarily.	Test repeated.
22	Remove patch cord from trunk jack.	
23	Restore all keys to normal.	
24	Operate DISC1 key momentarily.	All lamps extinguished.
<b>Q. Trunks to BELLBOY Personal Signaling System</b>		
15	Operate DT1 key.	
16j	For trunks requiring battery and ground pulsing, operate BGD key.	
17	Operate NO SDR1 key.	SUP1 lamp lit.
18	Dial an unassigned BELLBOY number. <i>Note:</i> An unassigned number is any non-working or out-of-block number.	SUP1 lamp extinguished each time dial is moved off normal. <i>Note:</i> Each time dial returns to normal the SUP1 lamp relights and should not flash before the dial is moved off normal for the next digit.
		Ringing tone heard when call completed. If testing subscriber trunk — Ringing tone cut off. Intercept announcement heard. If testing operator trunk — Ringing tone cut off. 120 ipm reorder tone heard.
19	Remove patch cord from trunk jack.	
20	Restore all keys.	
21	Operate DISC1 key momentarily.	All lamps extinguished.
<b>R. Trunks to 6A Teletypewriter Switchboard</b>		
	<i>Note:</i> Before starting this test, request 6A switchboard operator to answer test calls in the talk mode.	
15	Operate TLK1 and NO SDR1 keys.	SUP1 lamp lit. Ringing tone heard until call answered.
16	Operator answers.	SUP1 lamp extinguished.
17	Request operator to leave plug in trunk jack until cord lamp flashes.	
18	Restore TLK1 and NO SDR1 keys.	
19	Operate DISC1 key momentarily.	
20	Operate TLK1 and NO SDR1 keys.	SUP1 lamp lit.

STEP	ACTION	VERIFICATION
21	Operator answers.	SUP1 lamp extinguished. At 6A switchboard — Cord lamp was lighted and then flashed at recall rate. When operator removed plug from trunk jack, cord lamp extinguished and trunk lamp lit. When plug was reinserted in trunk jack, trunk lamp extinguished.
22	Advise operator that test complete. Remove patch cord from trunk jack.	
23	Restore all keys.	
24	Operate DISC1 key momentarily.	