1. GENERAL

1.01 This section describes a method of testing both wire-spring- and nonwire-spring-relay type verification requests, intercepting, official PBX, repair service, and information service trunks and intercept junctors using the master test frame (MTF) in No. 5 crossbar offices. Tests of the following circuits are included in this section; SB-2:5648-M, SY Q6662-01, SD 256~6-01, SQ EB09~-01, SU 2689-t"!M~ Sf}-2609:,-01, fffl'-26ti!t-&l, ___

1.02 This section is reissued for the reasons listed below. Revision arrows are used to emphasize the more significant changes. This reissue affects Equipment Test Lists.

(a) To revise paragraph 1.01 to include SD-numbers of circuits addressed in this section and to reference BSP section covering line sleeve tests in offices arranged for ETS.

(b) Paragraphs 1.09 and 1.10 have been added for clarification of ACTION and VERIFICATION steps.

(c) Test A has been modified to include verification of "audible ring until cut-through" feature.

(d) Test D, Steps 7 through 22 Action and Verification have been modified to be made without using circuit make-busy key.

(e) Test D.1 has been added.

1.03 The tests covered are:

OUTGOING TRUNKS

A. Trunk Seizure and Ringing:
This test checks trunk seizure, supervision, transmission path, ringing, and if provided, park on features and transfer to an attendant.

B. Busy Indications—Operator Fails to Disconnect:
This test checks that a trunk will test busy when the calling party disconnects and the operator does not disconnect after completing a call.

C. Busy Indications—Trunk Seized at Line Link Frame:
This test checks that when a trunk is seized at the line link frame it returns a busy indication to the number group, making the trunk busy to subsequent calls until released. It also checks that on trunks with two line link appearances, the second call on a double seizure will receive busy tone.

D. Ringing Trip Path Continuity:
This test checks the continuity of the ringing trip path when ringing on the ring conductor, and if so arranged, on the tip conductor.
D.1 Automated Loop Testing (ALT) Feature (When Provided):
This test verifies that the maintenance termination for intercepted telephone numbers will be enabled when the intercept trunk is seized in an office equipped with ALT.

INCOMING TRUNKS

E. Trunk Seizure and Ringing:
This test checks trunk seizure, supervision, transmission path, and ringing.

F. Busy Indications—Operator Fails to Disconnect:
This test checks that a trunk will test busy when the calling party disconnects and the operator does not disconnect after completing a call.

G. Busy Indications—Trunk Seized at Line Link Frame:
This test checks that if a trunk is seized at the line link frame it will return a busy indication to the number group, making the trunk busy to subsequent calls until released.

H. Ringing Trip Path Continuity:
This test checks the continuity of the ringing trip path when ringing on the ring conductor, and if so arranged, on the tip conductor.

JUNCTORS

I. Junctor Seizure and Ringing:
This test checks junctor seizure, transmission path, and ringing.

J. Busy Indications—Operator Fails to Disconnect:
This test checks that a junctor will test busy when the calling party disconnects and the operator does not disconnect after completing a call.

K. Busy Indications—Junctor Seized at Line Link Frame:
This test checks that when a junctor is seized at the line link frame, it returns a busy indication to the number group, making the junctor busy to subsequent calls until released.

L. Busy Indications—Make-Busy Switch Operated:
This test checks that a busy indication is returned to the number group when the junctor circuit make-busy switch is operated.

1.04 All tests will operate peg count traffic registers associated with PB leads, traffic usage recorder registers associated with BY or S leads, and group-busy registers associated with BY or S leads. Local instructions should be followed for recording and reporting the operation of these registers.

1.05 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 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.

1.06 Tests A and C include methods for testing the line link frame appearance of intercept trunk circuit SD-26121-01 used with the 7A and 13A Announcement Systems, and repair service trunk circuit SD-26095-01. Tests of the trunk link frame appearance of SD-26121-01 are covered in Section 218-282-501. Tests of the trunk link frame appearance of SD-26095-01 are covered in Section 218-280-501.

1.07 The manner of selecting some circuits and test conditions at the 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.
1.08 The location statement, At MTF—, is used to refer to all apparatus located on the four basic bays of the MTF.

1.09 Unless specified otherwise in a particular test, trunks under test should be in a normal non-made busy state.

1.10 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.

2. APPARATUS

2.01 The apparatus required for each test is listed in Table A. The details of each item are covered in the paragraph indicated by the number in parentheses.

<table>
<thead>
<tr>
<th>APPARATUS</th>
<th>TESTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.B</td>
<td>C</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Master Test Frame (2.02)</td>
<td>1</td>
</tr>
<tr>
<td>Test Set (2.03)</td>
<td>1</td>
</tr>
<tr>
<td>Cord (2.04)</td>
<td>1</td>
</tr>
<tr>
<td>Cord (2.05)</td>
<td>1</td>
</tr>
<tr>
<td>32A Test Set</td>
<td>1</td>
</tr>
<tr>
<td>Head Telephone Set</td>
<td>1</td>
</tr>
<tr>
<td>Tools (2.06)</td>
<td>√</td>
</tr>
<tr>
<td>KS-3008 Stop-watch or</td>
<td>1</td>
</tr>
<tr>
<td>equivalent</td>
<td></td>
</tr>
</tbody>
</table>

√ As required.

2.02 The MTF circuits required are as follows:

(a) Master test control circuit, SD-25800-01

(b) Voltmeter test circuit, SD-25792-01

(c) Trunk test circuit, SD-25918-01

(d) Telephone, key, and lamp circuit, SD-25744-01.

2.03 67C test set, equipped with one KS-6278 connecting clip (for checking the presence or absence of battery or ground).

2.04 Testing cord, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord), one KS-6278 connecting clip, and one 419A (test connector) tool (for establishing test connections to relay contact springs).

2.05 Testing cord, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord), one KS-6278 connecting clip, and one 624B tool (for establishing test connections to terminal strip terminals of wire-spring-relay type trunks).

2.06 Blocking and insulating tools as required. Use tools and apply as covered in Section 069-020-801.
SECTION 218-283-501

3. PREPARATION

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>At MTF— Restore all keys and switches.</td>
<td>All lamps extinguished.</td>
</tr>
<tr>
<td>2</td>
<td>Momentarily operate RL key.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Select marker 0 or 1.</td>
<td></td>
</tr>
<tr>
<td>4a</td>
<td>If trunk or junctor under test is not provided with rectified ringing detection— Operate IT key.</td>
<td></td>
</tr>
</tbody>
</table>

Tests A, B, C, E, I, J, K

5 Select LT class of test.

4. METHOD

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OUTGOING TRUNKS</td>
<td></td>
</tr>
</tbody>
</table>

A. Trunk Seizure and Ringing

All Trunks

6 Select A_ through D_ digits for line number assigned to selected trunk under test.

7 Select office designation of selected trunk.

**Note 1:** If trunk has two line link appearances and if trunk is *not* an intercept trunk arranged for machine announcement (6A Announcement System), or if trunk is an intercept trunk arranged to complete to a test access circuit at an automatic call distribution office, select line number and office designation assigned for first appearance.

**Note 2:** If trunk has two line link appearances and if trunk is an intercept trunk arranged for machine announcement (6A Announcement System), select line number and office designation assigned for second appearance.
Trunks Arranged for Operator Completion (SD-25648-01, SD-25662-01, SD-25696-01, SD-25698-01, SD-26094-01, SD-26122-01)

8. Momentarily operate ST key.

9. Operate T key.

10. Operate ± key for at least 1 but not more than 2 seconds.

VERIFICATION

S, MRL lamps lighted.

If trunk under test is SD-25696-01, SD-25698-01, or SD-26094-01—
  Ringing tone heard.
  When operator answers—
  Ringing tone silenced.
  S lamp extinguished.

If trunk under test is SD-25648-01, SD-25662-01, or SD-26122-01—
  Ringing tone heard.
  When operator answers—
  Ringing tone silenced.
  S lamp remains lighted.

Note: If trunk is immediately answered or connected to a position, the ringing tone may not be present. In such cases, it may be necessary to request the operator to disregard the next signal for approximately 10 seconds and then repeat test. On trunks working into automatic call-distributing type desks, if necessary and possible, request the operator or operators to remove the headset plugs from the telephone jacks for approximately 10 seconds and then repeat test.

S lamp flashes.

11b. If trunk and switchboard or desk are arranged to return supervision on flashes and it is desired to test this feature—
  Request operator to return a series of flashes.

12c. If trunk under test is SD-25696-01 or SD-26094-01—
  Operate and restore ± key several times.

At central switchboard—
  Trunk or cord lamp flashes.

13. At MTF—
  Request operator to disconnect.

S lamp lighted.


All lamps extinguished.

15. Restore T key.
<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
</table>
| 16d  | If trunk under test serves offices A and B—  
Select A_ through D_ digits for line number  
assigned in office B. |  |
| 17d  | Select office designation of selected trunk. |  |
|      | **Note:** If trunk has two line link appearances,  
select line number and office designation  
assigned for first appearance. |  |
| 18d  | Operate REC key. | S, MRL lamps lighted.  
Trouble record taken.  
FTT, FUT, VGT, HGT, VFT designations  
perforated corresponding to line link location  
of trunk. |
| 19d  | Momentarily operate ST key. | S, MRL lamps lighted.  
Trouble record taken.  
FTT, FUT, VGT, HGT, VFT designations  
perforated corresponding to line link location  
of trunk. |
| 20d  | Restore REC key. | All lamps extinguished. |
| 21d  | Momentarily operate RL key. |  |

**Trunks Arranged for Tip Ringing Identification**  
(SD-25648-01, SD-25662-01, SD-26122-01)

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>Operate T1 REV key.</td>
<td>S, MRL lamps lighted.</td>
</tr>
</tbody>
</table>
| 23   | Momentarily operate ST key. | Ringing tone heard.  
When operator answers—  
Ringing tone silenced.  
If off-hook supervision is provided for operator  
answer on toll or trouble calls—  
S lamp extinguished. |
| 24   | Operate T key. |  |
| 25   | Operate ±key for at least 1 but not more  
than 2 seconds. |  |

**Note:** If trunk is immediately answered or  
connected to a position, the ringing tone may  
not be present. In such cases, it may be  
necessary to request the operator to disregard  
the next signal for approximately 10 seconds  
and then repeat test. On trunks working into  
automatic call-distributing type desks, if  
necessary and possible, request the operator  
or operators to remove the headset plugs from
<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td>Restore T1 REV key.</td>
<td>the telephone jacks for approximately 10 seconds and then repeat test.</td>
</tr>
<tr>
<td>27b</td>
<td>If trunk and switchboard or desk are arranged to return supervision on flashes and it is desired to test this feature—Request operator to return a series of flashes.</td>
<td>S lamp flashes.</td>
</tr>
<tr>
<td>28</td>
<td>Request operator to disconnect.</td>
<td>S lamp lighted.</td>
</tr>
<tr>
<td>29</td>
<td>Restore T key.</td>
<td>All lamps extinguished.</td>
</tr>
<tr>
<td>30</td>
<td>Momentarily operate RL key.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Intercept Trunks Arranged for Machine Announcement—</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>6A Announcement System (SD-25648-01, SD-26121-01, SD-26122-01)</strong></td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Momentarily operate ST key.</td>
<td>S, MRL lamps lighted.</td>
</tr>
<tr>
<td>32</td>
<td>Operate T key.</td>
<td>Ringing tone heard. When announcement connects—Ringing tone silenced. Announcement starts at beginning and is clear and distinct.</td>
</tr>
<tr>
<td>33</td>
<td>Operate ± key for at least 1 but not more than 2 seconds.</td>
<td>Note 1: If trunk under test is SD-26121-01, and marker controlled immediate ringing is provided, announcement may be delayed unless option ZB is provided.</td>
</tr>
<tr>
<td>34</td>
<td>Restore T key.</td>
<td>Note 2: If trunk is immediately connected to the announcement machine, it may be necessary to repeat the test to obtain a ringing tone.</td>
</tr>
<tr>
<td>35</td>
<td>Momentarily operate RL key.</td>
<td>All lamps extinguished.</td>
</tr>
<tr>
<td></td>
<td><strong>Intercept Trunks Arranged for Machine Announcement—</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>7A Announcement System (SD-25648-01, SD-26121-01, SD-26122-01)</strong></td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>Momentarily operate ST key.</td>
<td>S, MRL lamps lighted.</td>
</tr>
<tr>
<td>37</td>
<td>Operate T key.</td>
<td></td>
</tr>
</tbody>
</table>

Note: The verification steps include observing the lamps for specific actions to confirm the machine announcement system is functioning correctly. This involves monitoring the S lamp, MRL lamps, and the ringing tone to ensure the system is working as expected. Additional notes provide guidelines for specific trunk configurations and immediate ringing cases, ensuring accurate testing and operation of the system.
<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
</table>
| 38   | Operate ± key for at least 1 but not more than 2 seconds. | Announcement starts and is clear and distinct.  
**Note:** Announcement may be in progress at operation of T key if another trunk has started announcement machine.  
# If audible ringing until cut-through is provided—  
Ringing tone heard.  
When announcement connects—  
Ringing tone silenced.  
Announcement starts at beginning and is clear and distinct.  

Note: Announcement may be in progress if another trunk had started announcement machine.  
# If audible ringing until cut-through is provided—  
Ringing tone heard.  
When announcement connects—  
Ringing tone silenced.  
Announcement starts at beginning and is clear and distinct.  

Note 1: If trunk under test is SD-26121-01, and marker controlled immediate ringing is provided, announcement may be delayed unless option ZB is provided.  
Note 2: Announcement may be in progress if another trunk had started announcement machine.  
# If audible ringing until cut-through is provided—  
Ringing tone heard.  
When announcement connects—  
Ringing tone silenced.  
Announcement starts at beginning and is clear and distinct.  

41   | Momentarily operate ST key. | S, MRL lamps lighted.  
42   | Operate T key. | Announcement starts and is clear and distinct.  
43   | Operate ± key for at least 1 but not more than 2 seconds. | Recorded announcement not heard.  
44   | Listen for 1 or 2 complete announcements according to options provided in trunk. |  
45   | Start timing. |  

After 4 seconds—  
At switchboard—  
Assistant answers.  
Ringing tone heard in telephone set.  
Restart timing.  
After 2 seconds—  

Intercept Trunks Arranged for Machine Announcement and Transfer to an Attendant—6A, 7A, and 13A Announcement Systems (SD-26121-01)
<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
</table>
| 46   | Momentarily operate RL key. | At MTF—  
Ringing tone not heard.  
Talking path established to assistant.  
All lamps extinguished. |
| 47e  | If voice alarm and control circuit provided—  
At relay rack appearance of trunk—  
Connect ground to terminal strip A, (AUX LL/TL UNIT) terminal 54. | Ringing tone heard.  
When announcement machine connected—  
Ringing tone silenced.  
Trunk transferred to attendant. |
| 48   | Repeat steps 41 through 43. |  |
| 49   | Restore T key. |  |
| 50   | Momentarily operate RL key. | All lamps extinguished. |

Intercept Trunks Arranged for Tip Ringing Identification and Machine Announcement—7A Announcement System (SD-25648-01, SD-26122-01)

| 51   | Momentarily operate ST key. | S, MRL lamps lighted. |
| 52   | Operate T, T1 REV keys. | Announcement starts at beginning and is clear and distinct. |
| 53   | Operate ± key for at least 1 but not more than 2 seconds. |  |
| 54   | Restore T, T1 REV keys. | All lamps extinguished. |
| 55   | Momentarily operate RL key. |  |

Trouble or Regular Intercept Trunks Arranged for Wide Area Data Service (SD-27645-01)

| 56   | Momentarily operate ST key. | S, MRL lamps lighted. |
| 57   | Operate T key. |  |
| 58   | Operate ± key for at least 1 but not more than 2 seconds. | Ringing tone (CPT code 1) momentarily heard.  
If trunk is arranged for trouble intercept—Prolonged ringing heard (CPT code 1).  
If trunk is arranged for regular intercept—40-ips CPT tone heard. |
| 59   | Restore T key. |  |
| 60   | Momentarily operate RL key. | All lamps extinguished. |
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**STEP** | **ACTION** | **VERIFICATION**
--- | --- | ---

**Intercept Trunks Arranged to Complete to a Test Access Circuit at Automatic Call Distribution Office (SD-25648-01, SD-25662-01, SD-26122-01)**

61 | Operate T, IT keys. | RT lamp lighted.
62 | Operate TTC16 key to ON. | RT lamp lighted.
63f | If trunk under test is used with a SF signaling unit—Operate ITDT key. | S, MRL lamp lighted.
64g | If trunk under test is *not* used with a SF signaling unit—Operate ITND key. | RT lamp extinguished.
65 | Momentarily operate ST key. | Interrupted dial tone heard from test access circuit at automatic call distribution office.
66 | Momentarily operate ± key. | Milliwatt tone heard.
67 | Restore TTC16 key. | All lamps extinguished.
68 | Key digit 2 using TOUCH-TONE® dial. | S, MRL lamps lighted.
69 | Restore T, IT, and ITDT or ITND keys. | Ringing tone heard. Announcement heard.
70 | Momentarily operate RL key. | If trouble in the announcement machine—Only ringing, followed by a repair service attendant, will be heard.

**Repair Service and Local Test Desk Trunks Arranged to Complete to a Distant Office Via a Park-On Circuit (SD-26095-01)**

71 | Momentarily operate ST key. | S, MRL lamps lighted.
72 | Operate T key. | Ringing tone heard. Announcement heard.
73 | Operate ± key for at least 1 but not more than 2 seconds. | If trouble in the park-on circuit—Reorder tone will be heard.
74 | At repair service position—Attendant answers. | If circuit is arranged to transfer to a switchboard—Attendant will answer if the transfer is in effect.
75 | Restore T key. |
STEP 76  Momentarily operate RL key.

**All Trunks**

STEP 77  Restore all keys and switches not required in next test.

**B. Busy Indication—Operator Fails to Disconnect**

(SD-25648-01, SD-25662-01, SD-25696-01, SD-25698-01, SD-26094-01, SD-26095-01, SD-26122-01, SD-27645-01)

6  Select A₁ through D₁ digits for line number assigned to selected trunk under test.

7  Select office designation of selected trunk.

*Note:* If trunk has two line link appearances, select line number and office designation assigned for first appearance.

8  Select line location of selected trunk.

9  Select ringing combination of selected trunk.

10  Select class of service of selected trunk.

11  Operate FNA or FNB key as required for line verification of selected trunk.

12  Momentarily operate ST key.

13  Restore LT class of test and select MLV class of test.

14b  If regular intercept calls on a combined trunk are handled at a call-distributing type desk—Operate T₁ REV key.

15  Operate T key.

16  Operate ± key for at least 1 but not more than 2 seconds.

17b  If regular intercept calls on a combined trunk are handled at a call-distributing type desk—Restore T₁ REV key.

18  When operator answers—

Request operator to hold connection for at least 10 seconds after disconnect signal is received and then to disconnect.
### Section 218-283-501

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>Restore T key.</td>
<td>All lamps extinguished.</td>
</tr>
<tr>
<td>20</td>
<td>Momentarily operate RL key.</td>
<td>All lamps extinguished.</td>
</tr>
<tr>
<td>21</td>
<td>Momentarily operate ST key.</td>
<td>BY, MRL lamps lighted.</td>
</tr>
<tr>
<td>22</td>
<td>Momentarily operate RL key.</td>
<td>All lamps extinguished.</td>
</tr>
<tr>
<td>23</td>
<td>Restore all keys and switches not required in next test.</td>
<td></td>
</tr>
</tbody>
</table>
STEP | ACTION | VERIFICATION
--- | --- | ---
12b | If trunk is arranged to trip ringing when operator answers—Momentarily operate RU relay manually. | SR, SL relays operated.
13 | Operate and hold L relay manually. | SR relay released.
14 | Release L relay. | SL relay holds.
 | | No battery or ground on terminal 4 of 227 type terminal strip or terminal 17 of D type terminal strip on unit.
15 | Remove blocking tool from CT relay. | All lamps extinguished.
16 | At MTF—Momentarily operate RL key. | 

**Intercepting Trunk Circuits Arranged for Tip Ringing Identification and Machine Announcements or Intercepting Trunk Circuits Arranged for Reverse Battery or E and M Lead Supervision (SD-25648-01, SD-26122-01)**

17c | If trunk is arranged for machine announcements—At relay rack frame—When trunk is idle—Block operated SL1 relay. | S, MRL lamps lighted.
 | | At relay rack frame—SL2, BY relays operated. | 
 | | If trunk under test is SD-25648-01—No battery on terminal 3 of terminal strip on unit. | 
 | | If trunk under test is SD-26122-01—No battery on terminal 37 of terminal strip on unit. | 
18c | At MTF—Momentarily operate ST key. | Busy tone heard.
 | | At relay rack frame— | 
 | | If trunk under test is SD-25648-01—Depending on trunk options, S lamp may flash at rate of busy tone. | 
 | | All lamps extinguished. | 
19c | At MTF—Operate T key. | 
20c | Operate RL key. | 
21c | At relay rack frame—Remove blocking tool from SL1 relay.Block operated SL2 relay. | 
22c | At MTF—Select line number and office designation assigned for first appearance. |
<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
</table>
| 23c  | Momentarily operate ST key. | S, MRL lamps lighted.  
At relay rack frame—  
SL1, BY relays operated.  
At MTF—  
Busy tone heard.  
If trunk under test is SD-25648-01—  
Depending on trunk options, S lamp may flash at the rate of busy tone. |
| 24c  | At MTF—  
Restore T key. |  |
| 25c  | At relay rack frame—  
Remove blocking tool from SL2 relay. |  |
| 26d  | If subgroup busy indication to the number group is required—  
At relay rack frame—  
On trunk circuit SD-25648-01—  
Ground terminal 17 of terminal strip on unit (appearance number 1).  
*Note:* If the trunk under test is the last trunk in a subgroup, ground will be present on terminal 18 of terminal strip on unit. | Ground on terminal 17 of terminal strip on unit of succeeding circuit. |
| 27d  | Remove test connection. |  |
| 28d  | Ground terminal 19 of terminal strip on unit (appearance number 2).  
*Note:* If the trunk under test is the last trunk in a subgroup, ground will be present on terminal 20 of terminal strip on unit. | Ground on terminal 19 of terminal strip on unit of succeeding circuit. |
| 29d  | Remove test connection. |  |
| 30d  | On trunk circuit SD-26122-01—  
Ground terminal 35 of terminal strip on unit (appearance number 1).  
*Note:* If the trunk under test is the last trunk in a subgroup, ground will be present on terminal 25 of terminal strip on unit. | Ground on terminal 35 of terminal strip on unit in succeeding circuit. |
| 31d  | Remove test connection. |  |
| 32d  | Ground terminal 36 of terminal strip on unit (appearance number 2).  
*Note:* If the trunk under test is the last trunk in a subgroup, ground will be present on terminal 35 of terminal strip on unit. | Ground on terminal 36 of terminal strip on unit in succeeding circuit. |
STEP ACTION

33 Remove test connection.

34 At MTF—
   Momentarily operate RL key.

35 Restore all keys not required in next test.

Note: If the trunk under test is the last trunk in a subgroup ground will be present on terminal 26 of terminal strip on unit.

Verification Request, Regular, or Trouble Intercepting Trunk Circuits (SD-25662-01)

36 Momentarily operate ST key.

37d If subgroup busy indication to the number group is required—
   At relay rack frame—
   Ground terminal 9 of terminal strip on unit.

Note: If the trunk under test is the last trunk in a subgroup, ground will be present on terminal 8 of terminal strip on unit.

38d Insulate 5T of BY relay.

39d Remove test connection from terminal strip and insulator from BY relay.

40 At MTF—
   Momentarily operate RL key.

Verification

All lamps extinguished.

S, MRL lamps lighted.
At relay rack frame—
SL, BY relays operated.
No battery on terminal 7 of terminal strip on unit.

Ground on terminal 9 on terminal strip on unit of succeeding circuit.

S, MRL lamps lighted.
At relay rack frame—
LS relay operated.
No battery on terminal 37 of terminal strip on unit.

All lamps extinguished.

Information, Repair, Official PBX, and Verification Request Service Trunks Arranged for E and M Lead Supervision (SD-26094-01)

41 Momentarily operate ST key.

42 At MTF—
   Momentarily operate RL key.
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**STEP** | **ACTION** | **VERIFICATION**
--- | --- | ---
44 At MTF—Momentarily operate RL key. | All lamps extinguished.
Trouble and Regular Intercept Trunks Arranged for Wide Area Data Service (SD-27645-01) | 45 Momentarily operate ST key. | S, MRL lamps lighted. At relay rack frame—BY, SL relays operated. No battery on terminal 37 of terminal strip on unit.
46 When subgroup busy indication to the number group is required—At relay rack frame—Ground terminal 35 of terminal strip on unit. | Ground on terminal 35 of terminal strip on unit in succeeding trunk circuit.
Note: If the trunk under test is the last trunk in a subgroup, ground will be present on terminal 25 of terminal strip. | 47 Remove test connection. | All lamps extinguished.
48 At MTF—Momentarily operate RL key. | Intercept Trunks Arranged to Complete to a Test Access Circuit at Automatic Call Distribution Office (SD-25648-01, SD-25662-01, SD-26122-01) | 49 Momentarily operate ST key. | S, MRL lamps lighted. At relay rack frame—If trunk under test is SD-25648-01—SL2, BY relays operated. No battery on terminal 3 of terminal strip on unit. If trunk under test is SD-25662-01—SL, BY relays operated. No battery on terminal 7 of terminal strip on unit. If trunk under test is SD-26122-01—SL2, BY relays operated. No battery on terminal 37 of terminal strip
STEP ACTION

50d If subgroup busy indication to the number group is required—
   At relay rack frame—
   On trunk circuit SD-25648-01—
   Ground terminal 17 of terminal strip on unit.

   Note: If the trunk under test is the last trunk in a subgroup, ground will be present on terminal 18 of terminal strip on unit.

51d Remove test connection.

52d On trunk circuit SD-25662-01—
   Ground terminal 9 of terminal strip on unit.

   Note: If the trunk under test is the last trunk in subgroup, ground will be present on terminal 8 of terminal strip on unit.

53d Remove test connection.

54d On trunk circuit SD-26122-01—
   Ground terminal 35 of terminal strip on unit or terminal strip B on unit with ACD.

   Note: If the trunk under test is the last trunk in subgroup, ground will be present on terminal 25 of terminal strip on unit or terminal strip B on unit with ACD.

55d Remove test connection.

56 At MTF—
   Momentarily operate RL key.

57 Momentarily operate ST key.

58 At MTF—
   Momentarily operate RL key.

Repair Service and Local Test Desk Trunks—Equipped With or Without Park-On Arrangement (SD-26095-01)

57 Momentarily operate ST key.

58 At MTF—
   Momentarily operate RL key.

VERIFICATION

on unit or terminal 34 of terminal strip B on unit with ACD.

Ground on terminal 17 of terminal strip of unit of succeeding circuit.

Ground on terminal 9 of terminal strip on unit of succeeding circuit.

Ground on terminal 35 of terminal strip on unit or terminal strip B of unit with ACD in succeeding circuit.

All lamps extinguished.

S, MRL lamps lighted.
At relay rack frame—
BY1, SL relays operated.
No battery on terminal 61 of A terminal strip on unit.

All lamps extinguished.

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### SECTION 218-283-501

<table>
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<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
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<tbody>
<tr>
<td><strong>All Trunks</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>59</td>
<td>Restore all keys and switches not required in next test.</td>
<td></td>
</tr>
<tr>
<td><strong>D. Ringing Trip Path Continuity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>All Trunks</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Select A_ through G_ digits as required for office code and directory number of selected trunk under test.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Select office designation as required for selected trunk.</td>
<td></td>
</tr>
<tr>
<td><strong>Note:</strong> If trunk under test has two line link appearances, select line number and office designation assigned for first appearance.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Intercept Trunks Arranged for Tip Ringing Identification and Machine Announcements; Intercept Trunks Arranged for Reverse Battery or E and M Lead Supervision; or Verification Request, Regular, or Trouble Intercept Trunks (SD-25648-01, SD-25662-01, SD-26122-01)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Select LT class of test.</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>• Momentarily operate ST key.</td>
<td>S, MRL lamps lighted.</td>
</tr>
<tr>
<td>9b</td>
<td>At relay rack frame •— If trunk under test is SD-25648-01 or SD-25662-01— Insulate 4T of SZ relay; block operated SZ relay.</td>
<td></td>
</tr>
<tr>
<td>10c</td>
<td>• At relay rack frame • — If trunk under test is SD-26122-01— Insulate 10M of R, T relays; block operated R relay.</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>At MTF— Momentarily operate •RL• key.</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>• Momentarily operate ST key. •</td>
<td>S, MRL lamps lighted.</td>
</tr>
<tr>
<td>13</td>
<td>Momentarily operate T key.</td>
<td>Ringing tone heard while T key is operated.</td>
</tr>
<tr>
<td>14</td>
<td>Operate G, VMT1 keys.</td>
<td>Voltmeter reading is 25 to 49 volts on 120-volt scale.</td>
</tr>
<tr>
<td>15</td>
<td>Restore G, VMT1 keys.</td>
<td></td>
</tr>
</tbody>
</table>

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STEP | ACTION | VERIFICATION
--- | --- | ---
16b | At relay rack frame— If trunk under test is SD-25648-01 or SD-25662-01— Manually operate TB relay. | •TB relay holds operated.
17c | If trunk under test is SD-26122-01— Remove blocking tool from R relay; block operated T relay. | Voltmeter reading is 25 to 49 volts on 120-volt scale.
18 | At MTF— Operate G, T1 REV, VMT1 keys. | •
19 | Restore G, T1 REV, VMT1 keys. | •
20b | At relay rack frame— If trunk under test is SD-25648-01 or SD-25662-01— Remove blocking tool and insulator from SZ relay. | •
21c | If trunk under test is SD-26122-01— Remove blocking tool from R or T relay, then insulators from R, T relays. | •
22 | At MTF— Momentarily operate RL key. | •
23 | Official PBX or Verification Request Trunks (SD-25696-01) | •
24 | Select LT class of test. | •
25 | At relay rack frame— When trunk is idle— Insulate 5T of L1 relay, then 1B of S relay. | S, MRL lamps lighted.
26 | Block operated S relay. | Ringing tone heard while T key is operated.
27 | At MTF— Momentarily operate ST key. | Voltmeter reading is 25 to 49 volts on 120-volt scale.
28 | Momentarily operate T key. | •
29 | Operate G, VMT1 keys. | All lamps extinguished.
30 | Restore G, VMT1 keys. | •
31 | Momentarily operate RL key. | •
32 | At relay rack frame— Remove insulator and blocking tool from S relay. | •
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<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td>Remove insulator from L1 relay.</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Select class of service having access to IAO trunk group used in test.</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Select MISC class of test.</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>Select route advance 0.</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>Operate KY, TLK, LOC FR L keys.</td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>At relay rack frame— Insert plug of head telephone set into frame line circuit jack.</td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>Insert plug of 32A test set into RC jack.</td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>Set MB switch to MB on trunk used in test.</td>
<td></td>
</tr>
<tr>
<td>40d</td>
<td>If trunk is arranged to trip ringing immediately— Block nonoperated CT, SR relays.</td>
<td></td>
</tr>
<tr>
<td>41e</td>
<td>If trunk is arranged to trip ringing when operator answers— Block nonoperated CT relay.</td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>Restore MB switch to N.</td>
<td></td>
</tr>
<tr>
<td>43</td>
<td>Momentarily operate white (ST) button of 32A test set.</td>
<td></td>
</tr>
<tr>
<td>44d</td>
<td>If trunk is arranged to trip ringing immediately— Remove blocking tool from SR relay.</td>
<td></td>
</tr>
<tr>
<td>45e</td>
<td>If trunk is arranged to trip ringing when operator answers— Momentarily operate L relay manually.</td>
<td></td>
</tr>
<tr>
<td>46</td>
<td>Momentarily operate red (RL) button of 32A test set.</td>
<td></td>
</tr>
<tr>
<td>47</td>
<td>Remove blocking tool from CT relay.</td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>Remove head telephone set and 32A test set from jacks.</td>
<td></td>
</tr>
</tbody>
</table>
STEP ACTION

Information, Repair, Official PBX, and Verification Request Service Trunks Arranged for E and M Lead Supervision (SD-26094-01)

49 Select class of service having access to IAO trunk group used in test.

50 Select MISC class of test.

51 Select route advance 0.

52 Operate KY, TLK, LOC FR L keys.

53 At relay rack frame—
    Insert plug of head telephone set into frame line circuit jack.

54 Insert plug of 32A test set into RC jack.

55 Set MB switch to MB on trunk used in test.

56 When trunk is idle—
    Insulate 8M of SL relay.

57 Restore MB switch to N.

58 Momentarily operate white (ST) button of 32A test set.

59 Momentarily operate E relay manually.

60 Momentarily operate red (RL) button of 32A test set.

61 Remove insulator from 8M of SL relay.

62 Remove head telephone set and 32A test set from jacks.

Trouble and Regular Intercept Trunks Arranged for Wide Area Data Service (SD-27645-01)

63 Select LT class of test.

64 At relay rack frame—
    Set MB switch to MB on trunk used in test.

65 When trunk is idle—
    Insulate 10M of R relay.

VERIFICATION

Ringing tone heard.
RU relay operated and released in unison with ringing tone.
SL relay operated.
Ringing tone silenced.
<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>66</td>
<td>Block operated R relay.</td>
<td>S, MRL lamps lighted.</td>
</tr>
</tbody>
</table>
| 67  | At MTF—  
Momentarily operate ST key. | S, MRL lamps lighted. |
| 68  | Momentarily operate T key. | Ringing tone heard while T key is operated. |
| 69  | Operate G, VMT1 keys. | Voltmeter reading is 25 to 49 volts on 120-volt scale. |
| 70  | Restore G, VMT1 keys. | All lamps extinguished. |
| 71  | Momentarily operate RL key. | All lamps extinguished. |
| 72  | At relay rack frame—  
Remove blocking tool from R relay and insulator from 10M of R relay. | All lamps extinguished. |
| 73  | Restore MB switch to N. | All lamps extinguished. |

**Repair Service and Local Test Desk Trunks—Equipped With or Without Park-On Arrangement (SD-26095-01)**

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>74</td>
<td>Select LT class of test.</td>
<td>S, MRL lamps lighted.</td>
</tr>
</tbody>
</table>
| 75  | At relay rack frame—  
Set MB switch to MB on trunk used in test. | S, MRL lamps lighted. |
| 76  | When trunk is idle—  
Insulate 2M of CT relay. | Ringing tone heard while T key is operated. |
| 77  | Block operated R relay. | Ringing tone heard while T key is operated. |
| 78  | At MTF—  
Momentarily operate ST key. | Voltmeter reading is 25 to 49 volts on 120-volt scale. |
| 79  | Momentarily operate T key. | Voltmeter reading is 25 to 49 volts on 120-volt scale. |
| 80  | Operate G, VMT1 keys. | All lamps extinguished. |
| 81  | Restore G, VMT1 keys. | All lamps extinguished. |
| 82  | Momentarily operate RL key. | All lamps extinguished. |
| 83  | At relay rack frame—  
Remove blocking tool from R relay and insulator from 2M of CT relay. | All lamps extinguished. |
| 84  | Restore MB switch to normal. | All lamps extinguished. |
**STEP** ACTION

**Intercept Trunks Arranged for Machine Announcement and Transfer to an Attendant—7A Announcement System (SD-26121-01)**

85 Select LT class of test.

86 At relay rack frame—
Set MB switch to MB on trunk used in test.

87 When trunk is idle—
Insulate 10 TR relay or 4 SL relay (according to options used).

88 Block LK relay operated.

89 At MTF—
Momentarily operate ST key.

90 Momentarily operate T key.

91 Operate G, VMT1 keys.

92 Restore G, VMT1 keys.

93 Momentarily operate RL key.

94 At relay rack frame—
Remove blocking tool from LK relay and insulator from 10 TR relay or 4 SL relay.

95 Restore MB switch to N.

**All Trunks**

96 Restore all keys and switches not required in next test.

**D.1 Automated Loop Testing Feature (When Provided)**

**Trunks Arranged for Regular or Trouble Intercept**
SD-25648-01, SD-25662-01, SD-26121-01, and SD-26122-01

5 Select A_ through G_ digits as required for office code and directory number of selected trunk under test.

6 Select office designation as required for selected trunk.

7 Select MISC class of test.

**VERIFICATION**

S, MRL lamps lighted.

Ringing tone heard while T key is operated.

Voltmeter reading is 25 to 49 volts on 120-volt scale.

All lamps extinguished.
### SECTION 218-283-501

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Operate KY key.</td>
<td>✓</td>
</tr>
</tbody>
</table>
| 9    | At relay rack frame—  
     | Insert plug of 32A test set into RC jack. | ✓ |
| 10   | Momentarily operate white (ST) button of 32A test set. | At circuit under test—  
     | ALT relay operates within 1/2 second. |
| 11   | Momentarily operate red (RL) key of 32A test set. | ✓ |
| 12   | Repeat Steps 5 through 11 for remaining intercept trunks in service. | ✓ |
| 13   | Remove 32A test set plug from RC jack. | ✓ |
| 14   | At MTF—  
     | Restore all keys and switches not required in next test. | ✓ |

### INCOMING TRUNKS

#### E. Trunk Seizure and Ringing

**Trunks Not Arranged for Tip Ringing Identification**  
(SD-64582-01, SD-95485-01, SD-95551-01)

<table>
<thead>
<tr>
<th></th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Select A_ through D_ digits of line number assigned the selected trunk under test.</td>
<td>S, MRL lamps lighted.</td>
</tr>
<tr>
<td>7</td>
<td>Select office designation of selected trunk.</td>
<td>✓</td>
</tr>
</tbody>
</table>
| 8 | Momentarily operate ST key. | If trunk under test is SD-64582-01—  
     | Operate T key. |  
     | Operate ± key for at least 1 but not more than 2 seconds. | When operator answers—  
     | S lamp extinguished. |  
     | At switchboard—  
     | Trunk lamp extinguished. | ✓ |
| 9 | If trunk under test is SD-95485-01 or SD-95551-01—  
     | Ringing tone heard. | ✓ |
     | When operator answers—  
     | Ringing tone silenced. | ✓ |
     | S lamp remains lighted. | ✓ |
     | At switchboard or desk—  
<pre><code> | Trunk lamp extinguished. | ✓ |
 | Toll or trouble identification tone not heard. | ✓ |
</code></pre>
<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>11b</td>
<td>If trunk and switchboard or desk are arranged to return supervision on flashes and it is desired to test this feature— At MTF— Request operator to return a series of flashes.</td>
</tr>
<tr>
<td>12c</td>
<td>If trunk under test is SD-64582-01— Momentarily operate ± key several times.</td>
</tr>
<tr>
<td>13</td>
<td>At MTF— Request operator to disconnect and then reconnect.</td>
</tr>
<tr>
<td>14</td>
<td>At MTF— Request operator to disconnect.</td>
</tr>
<tr>
<td>15</td>
<td>Momentarily operate RL key.</td>
</tr>
<tr>
<td>16</td>
<td>Restore T key.</td>
</tr>
<tr>
<td>17d</td>
<td>If trunk serves offices A and B— Select A_ through D_ digits for line number assigned in office B.</td>
</tr>
<tr>
<td>18d</td>
<td>Select office designation for selected trunk.</td>
</tr>
<tr>
<td>19d</td>
<td>Operate REC key.</td>
</tr>
<tr>
<td>20d</td>
<td>Momentarily operate ST key.</td>
</tr>
<tr>
<td>21d</td>
<td>Momentarily operate RL key.</td>
</tr>
<tr>
<td>22d</td>
<td>Restore REC key.</td>
</tr>
</tbody>
</table>

**Verification**

*Note:* If trunk is immediately answered, the ringing tone may not be present. In such cases, it may be necessary to request the operator to disregard the next signal for approximately 10 seconds and then repeat test.

- S lamp flashes.
- At switchboard—
  - Cord supervisory lamp flashes.
- At switchboard or desk—
  - Trunk lamp remained extinguished during disconnect.
- S lamp lighted.
- All lamps extinguished.

**Trunks Arranged for Tip Ringing Identification**

(SD-95485-01, SD-95551-01)

- Select A_ through D_ digits of line number assigned to selected trunk under test.
- Select office designation of selected trunk.
<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>Operate T1 REV key.</td>
<td>S, MRL lamps lighted.</td>
</tr>
<tr>
<td>26</td>
<td>Momentarily operate ST key.</td>
<td>Ringing tone heard.</td>
</tr>
<tr>
<td>27</td>
<td>Operate T key.</td>
<td>When operator answers—\n</td>
</tr>
<tr>
<td>28</td>
<td>Operate ± key for at least 1 but not more than 2 seconds.</td>
<td>If off-hook supervision is provided for operator answer on toll or trouble calls—\n</td>
</tr>
</tbody>
</table>

**Note:** If trunk is immediately answered, the ringing tone may not be present. In such cases, it may be necessary to request the operator to disregard the next signal for approximately 10 seconds and then repeat test.

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>29</td>
<td>Restore T1 REV key.</td>
<td>S lamp flashes.</td>
</tr>
<tr>
<td>30b</td>
<td>If trunk and switchboard or desk are arranged to return supervision on flashes and it is desired to test this feature—\n</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Request operator to disconnect.</td>
<td>All lamps extinguished.</td>
</tr>
<tr>
<td>32</td>
<td>Momentarily operate RL key.</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Restore T key.</td>
<td></td>
</tr>
</tbody>
</table>

**All Trunks**

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>34</td>
<td>Restore all keys and switches not required in next test.</td>
<td></td>
</tr>
</tbody>
</table>

**F. Busy Indications—Operator Fails to Disconnect**

(SD-64582-01, SD-95485-01, SD-95551-01)

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Select A through D digits for line number assigned selected trunk under test.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Select office designation of selected trunk.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Select line location of selected trunk.</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Select ringing combination of selected trunk.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Select class of service of selected trunk.</td>
<td></td>
</tr>
</tbody>
</table>
10 Operate FNA or FNB key as required for line verification of selected trunk.

11 Select LT class of test.

12 Momentarily operate ST key.

13 Restore LT class of test; select MLV class of test.

14 Operate T key.

15 Operate \( \pm \) key for at least 1 but not more than 2 seconds.

16 When operator answers—
Request operator to hold connection for at least 10 seconds after disconnect signal is received and then to disconnect.

17 Momentarily operate RL key.

18 Momentarily operate ST key.

19 Momentarily operate RL key.

20 Restore all keys and switches not required in next test.

G. Busy Indications—Trunk Seized at Line Link Frame

Verification Request or Operator Training Trunks (SD-64582-01)

1 At relay rack frame—
When trunk is idle—
Block operated SL relay.

2 Remove blocking tool from SL relay.

Intercepting or Verification Request Trunks (SD-95485-01)

3 At relay rack frame—
When trunk is idle—
Block operated S relay.

4a If GB relay is provided—
Block operated SL relay.

5a Remove blocking tool from S relay.

S, MRL lamps lighted.

All lamps extinguished.

BY, MRL lamps lighted.

All lamps extinguished.

No battery on terminal 4 of terminal strip on unit.

No battery on terminal 4 of terminal strip on unit.

If GB relay is provided—
GB relay operated.

GB relay remains operated.
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**STEP**

6b If subgroup busy indication to number group is required—
Ground terminal 17 of terminal strip on unit.

*Note:* If the trunk tested is the last trunk in a subgroup, ground will be present on terminal 16 of terminal strip on unit.

7b Remove test connection.

8 Remove blocking tool from SL or S relay.

**Intercepting or Verification Request Trunks (SD-95551-01)**

9 At relay rack frame—
When trunk is idle—
Block operated SL, S relays.

10 Remove blocking tool from SL relay.

11b If a subgroup busy indication to number group is required—
Ground terminal 14 of terminal strip on unit.

*Note:* If the trunk tested is the last trunk in a subgroup, ground will be present on terminal 13 of terminal strip on unit.

12b Block operated SL relay and remove blocking tool from S relay.

13b Remove test connection.

14 Remove blocking tool from S or SL relay.

**H. Ringing Trip Path Continuity**

**Intercepting or Verification Request Trunks (SD-95485-01, SD-95551-01)**

5 Select A_ through D_ digits for line number assigned to selected trunk under test.

6 Select office designation of selected trunk.

7 Select LT class of test.

8 At MTF—
Momentarily operate ST key.

S, MRL lamps lighted.

**VERIFICATION**

Ground on terminal 17 of terminal strip on unit of succeeding trunk circuit.

No battery on terminal 4 of terminal strip on unit.

No battery on terminal 4 of terminal strip on unit.

Ground on terminal 14 of terminal strip on unit of succeeding trunk circuit.

Ground on terminal 14 of terminal strip on unit of succeeding trunk circuit.
### Step-by-Step Instructions

**Step 9**
- At relay rack frame—
  - When trunk is idle—
  - Insulate 2T, 2B of S relay.

**Step 10**
- Block operated FL relay.

**Step 11**
- Momentarily operate T key.

**Step 12**
- Operate G, VMT1 keys.

**Step 13**
- Restore G, VMT1 keys.

**Step 14b**
- If trunk is arranged for tip ringing identification—
  - Operate G, T1 REV, VMT1 keys.

**Step 15b**
- Restore G, T1 REV, VMT1 keys.

**Step 16**
- Momentarily operate RL key.

**Step 17**
- At relay rack frame—
  - Remove blocking tool from FL relay and insulators from S relay.

### Verification Request or Operating Training Trunks (SD-64582-01)

**Step 18**
- Select A_ through G_ digits for office code and line number assigned selected trunk under test.

**Step 19**
- Select class of service having access to IAO trunk group used for test.

**Step 20**
- Select route advance 0.

**Step 21**
- Select MISC class of test.

**Step 22**
- Operate KY, TLK, LOC FR L keys.

**Step 23**
- At relay rack frame—
  - Insert plug of head telephone set into frame line circuit jack.

**Step 24**
- Insert plug of 32A test set into RC jack.

**Step 25**
- When trunk is idle—
  - Momentarily operate white (ST) button of 32A test set.

### Verification

- **Ringing tone heard while T key operated.**
- **Voltsmeter reading is 25 to 49 volts on 120-volt scale.**
- **Voltsmeter reading is 25 to 49 volts on 120-volt scale.**
- **All lamps extinguished.**

- **Ringing tone heard.**
- **R relay operated and released in unison with ringing tone.**
- **R1 relay operated.**
- **When operator answers—**
### SECTION 218-283-501

#### VERIFICATION

Ringing tone silenced.
R relay released.

- **Note:** If trunk is immediately answered, the ringing tone may not be present. In such cases, it may be necessary to request the operator to disregard the next signal for approximately 10 seconds and then repeat test.

### STEP 26
- Request operator to disconnect.

### STEP 27
- Momentarily operate red (RL) button of 32A test set.

### STEP 28
- Remove head telephone set and 32A test set from jacks.

### All Trunks
- Restore all keys and switches not required in next test.

### JUNCTORS

#### 1. Junctor Seizure and Ringing

**Intercept Junctor Circuit (SD-27595-01)**

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Select A through D digits for line number assigned to selected junctor under test.</td>
<td>S, MRL lamps lighted.</td>
</tr>
<tr>
<td>7</td>
<td>Select office designation of selected junctor.</td>
<td>S, MRL lamps lighted.</td>
</tr>
<tr>
<td>8</td>
<td>Momentarily operate ST key.</td>
<td>Ringing tone heard.</td>
</tr>
<tr>
<td>9</td>
<td>Operate T key.</td>
<td>When operator answers—Ringing tone silenced.</td>
</tr>
<tr>
<td>10</td>
<td>Operate ± key for at least 1 but not more than 2 seconds.</td>
<td>S lamp remains lighted.</td>
</tr>
<tr>
<td>11</td>
<td>Restore T key.</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Momentarily operate RL key.</td>
<td>All lamps extinguished.</td>
</tr>
</tbody>
</table>

- **Note:** If trunk is immediately answered, the ringing tone may not be present. In such cases, it may be necessary to request the assistant to disregard the next signal for approximately 10 seconds and then repeat test.
J. Busy Indications—Operator Fails to Disconnect

**Intercept Junctor Circuit (SD-27595-01)**

5. Select A_ through D_ digits for line number assigned the selected junctor under test.

6. Select office designation of selected junctor.

7. Select line location of selected junctor.

8. Select ringing combination of selected junctor.

9. Select class of service of selected junctor.

10. Operate FNA or FNB key as required for line verification of selected junctor.

11. Momentarily operate ST key.

12. Restore LT class of test and select MLV class of test.

13. Operate T key.

14. Operate ± key for at least 1 but not more than 2 seconds.

15. When operator answers—Request operator to hold connection for at least 10 seconds after disconnect signal is received and then to disconnect.


17. Momentarily operate ST key.

18. Momentarily operate RL key.

19. Restore all keys and switches not required in next test.

K. Busy Indications—Intercept Junctor Circuit Seized at Line Link Frame

**Intercept Junctor Circuit (SD-27595-01)**

6. Select A_ through D_ digits for line number assigned the selected junctor under test.
SECTION 218-283-501

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Select office designation of selected junctor.</td>
<td>S, MRL lamps lighted. At relay rack frame—Ground present on terminal 35 of terminal strip on unit.</td>
</tr>
<tr>
<td>8</td>
<td>Momentarily operate ST key.</td>
<td>All lamps extinguished.</td>
</tr>
<tr>
<td>9</td>
<td>At MTF—Momentarily operate RL key.</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Restore all keys and switches not required in next test.</td>
<td></td>
</tr>
</tbody>
</table>

L. Busy Indication—Make-Busy Switch Operated

Intercept Junctor Circuit (SD-27595-01)

1 When intercept junctor under test is idle—At relay rack frame—Set MB switch to MB. Ground present on terminal 35 of terminal strip on unit.
2 Restore MB switch.