OUTGOING INFORMATION, OUTGOING REPAIR SERVICE, OUTGOING OFFICIAL PBX, COMMON OVERFLOW, TONE, AND ASSOCIATED AUXILIARY TRUNKS FROM TRUNK LINK FRAME TESTS USING TRUNK TEST CIRCUIT SD-25918-01 NO. 5 CROSSBAR OFFICES

1. GENERAL

1.01 This section describes a method of testing SD-25720-01, SD-25902-01, SD-25925-01, SD-25926-01, SD-25936-01, SD-26095-01, SD-26096-01, SD-26108-01, SD-26131-01, SD-26132-01, SD-26133-01, SD-26144-01, and SD-27731-01, using trunk test circuit and the master test frame.

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 tests H and I to include calling data transmitter (CDT) features.

(b) To add paragraphs 1.14 and 1.15.

(c) To remove LAMA-C from exclusion in test M.

1.03 The tests covered are:

COMMON OVERFLOW TRUNKS

A. Seizure—Overflow Tone: The following features are checked: (1) Seizure of common overflow trunk. (2) Ability of trunk to transmit overflow (low) tone. (3) Supervision.

B. Permanent Signal Tone and Local Overload Announcement: The following features are checked: (1) Ability of trunk to transmit permanent signal (high) tone. (2) Ability of trunk to transmit local overload announcement (if trunk is so arranged). (3) Operation of CT relay. (4) Tip and ring reversal when trunk is associated with tie lines using SF signaling.

C. Trunk Busy: The following features are checked: (1) Seizure by the MTF when trunk is made busy. (2) Busy condition to service call when trunk is made busy.

COIN AND NONCOIN TONE TRUNKS

D. Seizure: The following features are checked: (1) Seizure of tone trunk. (2) Ability of trunk to provide line-busy tone with click. (3) Supervision. (4) Coin return when originating end disconnects. (5) Ability of trunk to provide call progress tone (CPT) when associated with data service. (6) Tip and ring reversal when trunk is associated with ONAL service. (7) Timed release of trunk when associated with ONAL service.

E. All Paths Busy (Overflow) Tone: The following features are checked: (1) Ability of trunk to provide line-busy tone without click. (2) Ability of trunk to provide CPT when associated with data service. (3) Tip and ring reversal when trunk is associated with ONAL service.

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F. No-Such-Number Tone: The following features are checked: (1) Ability of trunk to provide no-such-number tone. (2) Ability of trunk to provide CPT when associated with data service. (3) Tip and ring reversal when trunk is associated with ONAL service.

G. Trunk Busy: The following features are checked: (1) Seizure by the MTF when trunk is made busy. (2) Busy condition to service call when trunk is made busy.

OUTGOING TRUNKS TO INFORMATION, REPAIR SERVICE, OR OFFICIAL PBX AND ASSOCIATED AUXILIARY TRUNKS (NOT ARRANGED FOR INCOMING CX OR SX SUPERVISION)

H. Operation: The following features are checked: (1) Seizure of trunk. (2) Transmission. (3) Coin return when originating end disconnects. (4) Tandem completion. (5) Supervision. (6) Trunk terminating in an ACD office, either to a position or test access circuit.

I. Trunk Busy: The following features are checked: (1) Seizure by the MTF when trunk is made busy. (2) Busy condition to service call when trunk is made busy. (3) Busy condition to service call when trunk to repair service is held busy by repair service desk. (4) Busy condition to service call when trunk is arranged for park-on operation.

J. Trunk Transfer: The following features are checked: (1) Ability of trunk to transfer or to be made busy when transfer key at repair service desk is operated. (2) Ability of trunk, when busy and transfer keys are operated, not to transfer until call is completed.

OUTGOING TRUNKS TO INFORMATION (ARRANGED FOR INCOMING CX OR SX SUPERVISION)

K. Operation: The following features are checked: (1) Seizure of trunk. (2) Supervision. (3) Transmission. (4) Pad control. (5) Trunk terminating in an ACD office, either to a position or test access circuit.

L. Trunk Busy: The following features are checked: (1) Seizure by the MTF when trunk is made busy. (2) Busy condition to service call when trunk is made busy. (3) Busy condition to service call when trunk is held busy by switchboard.

ALL TRUNKS

M. False-Busy and False-Idle Conditions (ETS Not Provided): This test checks for continuity and crosses on the F, BT, and FT leads.

1.04 Tests G, H, and I require an assistant at the repair service desk, switchboard, or official PBX. Test J requires an assistant at the repair service desk and another at the switchboard. Tests K and L require an assistant at the switchboard.

1.05 Tests J and M should be made during periods of light traffic.

1.06 If there is a service call for repair service during the time that Test J is being made, the assistant at the desk or switchboard to which the trunks are transferred should record the information and forward it in accordance with local instructions.

1.07 Tests of the line link frame appearances of official PBX, information, and repair service trunks are included in Section 218-283-501.

1.08 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 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.

1.09 The manner of selecting some circuits or test conditions at the MTF and its associa...
circuit 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.

1.10 The location statement, At MTF—, is used to refer to all apparatus located on the four basic bays of the MTF.

1.11 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

1.12 When the trunk under test is arranged for ETS, the first completed test call from the MTF will cause the TST bit to be set in the trunk register associated with the selected trunk, enabling trunk supervisory scanning to be repeated on the FT, CS, and S1 lamps at the MTF trunk test circuit. As long as the TST bit is set in the trunk register, supervision will continue to be repeated on the lamps, even on service calls. The TST bit will remain set in the trunk register until (1) a test call is made from the MTF to another trunk, or (2) the command STOP:TRK TST is entered at the maintenance TTY.

1.13 On issue 76D of SD-25880-01 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.

1.14 When CDT (calling data transmitter) billing system is provided in the office, this trunk may or may not handle billable calls. When it is arranged for billable calls, supervisory scan points will be assigned and supervision will be repeated from the scan points on test calls to the MTF by CS and S1 lamps.

1.15 When CDT is provided, there may be several configurations in the office-single controller, dual controller with the trunk assigned to one controller, or dual controller and the trunk is assigned to both controllers. When assigned to both controllers in a dual controller configuration, one test must be made to each controller to verify scan points for each controller.

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.

2.02 MTF circuits as follows:

(a) Master test control circuit, SD-25800-01
(b) Trunk test circuit, SD-25918-01
(c) Telephone, key, and lamp circuit, SD-25744-01
(d) Voltmeter test circuit, SD-25792-01
(e) Miscellaneous circuit, SD-25574-01
(f) Jack, lamp, and key circuit, SD-25762-01.

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

2.04 Oscillator J94730B (SD-95616-01), part of 1A fault locator test set J94730A.

2.05 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 or one 624B tool as required (for making test connections to terminal strip terminals).

2.06 Testing cord, P3F cord, 4 feet long, equipped with a 309 and 310 plug (3P12A cord).

2.07 Blocking tools as required. Use tools and apply as covered in Section 069-020-801.
TABLE A

<table>
<thead>
<tr>
<th>APPARATUS</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master Test Frame (2.02)</td>
<td>1</td>
<td>1</td>
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<tr>
<td>KS-3008 Stopwatch or</td>
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<tr>
<td>Test Set (2.03)</td>
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<tr>
<td>1A Fault Locator (2.04)</td>
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<tr>
<td>Cord (2.05)</td>
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<tr>
<td>Cord (2.06)</td>
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<td></td>
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<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Head Telephone Set</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<td>1</td>
<td>1</td>
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<td>1</td>
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<tr>
<td>322A (make-busy) Plug</td>
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<tr>
<td>Tools (2.07)</td>
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</tbody>
</table>

√ As required.

3. PREPARATION

STEP ACTION VERIFICATION

Test A Through L

Note: Refer to paragraphs 1.09 through 1.15.

1 At MTF—
   Restore all keys and switches.

2 Momentarily operate RL key.                All lamps extinguished.

3 Select marker.

4 Select MISC class of test.

5 Select OR originating class of call and LT
translator indication.

6 Select trunk.

7a If trunk is allotted—
   Operate GPA/GPB key as required.

8b If ETS provided—
   Operate PCS, PTS keys.

Tests A, B, D, E, F, H Through L

9 Insert plug of head telephone set into TEL
   jack of voltmeter test panel.
<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Operate FS, TS keys.</td>
<td></td>
</tr>
</tbody>
</table>
| 11c    | If trunk is equipped with MB switch—  
At relay rack frame—  
Set MB switch to MB.                                                                 |              |
| 12d    | If trunk is **not** equipped with MB switch—  
At MTF—  
Insert make-busy plug into OGT-MB jack associated with trunk under test.     |              |
| 13     | At MTF—  
Operate NTFS, NTTS keys.                                                                                                          |              |
| 14e    | • If trunk is to be tested for CDT—  
Operate CDTT key.                                                                                                                    |              |
| 15e    | When trunk is assigned to CDT dual controllers, select controller—  
Operate CDC 0/1 key.                                                                                                               |              |
| 16e    | When a trouble record is to be taken from the CDT translator access (TA) circuit—  
Operate TREC key.                                                                                                                  |              |
| 17e    | When the CDT controller operates with both shared and dedicated translator circuits and a particular translator circuit is to be used for the test—  
Operate TAD key to select dedicated TA circuit or operate TAS key to select shared TA circuit. |              |

**Note:** When a TA circuit is not selected, the controller will select the next available TA circuit.
<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>METHOD</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMMON OVERFLOW TRUNKS</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A.</td>
<td>Seizure—Overflow Tone</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Select A, B, C digits for office code of trunk group that is not allotted and has no alternate route.</td>
<td></td>
</tr>
<tr>
<td>12c</td>
<td>If trunk is <em>not</em> associated with tie lines using SF signaling— Select class of service and rate treatment, as required, other than coin and not associated with tie lines using SF signaling.</td>
<td></td>
</tr>
<tr>
<td>13c</td>
<td>Select route advance 2.</td>
<td></td>
</tr>
<tr>
<td>14d</td>
<td>If trunk is associated with tie lines using SF signaling— Select class of service and rate treatment, as required, associated with tie lines.</td>
<td></td>
</tr>
<tr>
<td>15d</td>
<td>Select route advance 1.</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Operate TTL, TLK keys.</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Momentarily operate ST key.</td>
<td>If ETS provided— FT lamp lighted. AS lamp lighted. 120- or 60-1pm overflow tone heard. If trunk is associated with tie lines using SF signaling— PK lamp lighted.</td>
</tr>
<tr>
<td>18</td>
<td>Dial 0.</td>
<td>AS lamp remains lighted.</td>
</tr>
<tr>
<td>19</td>
<td>Restore TLK key.</td>
<td>If ETS provided— FT lamp extinguished. AS lamp extinguished. Overflow tone silenced. If trunk is associated with tie lines using SF signaling— PK lamp extinguished.</td>
</tr>
<tr>
<td>20</td>
<td>Momentarily operate RL key.</td>
<td>All lamps extinguished.</td>
</tr>
<tr>
<td>21</td>
<td>Restore all keys and switches not required in next test.</td>
<td></td>
</tr>
</tbody>
</table>
22. Remove head telephone set from TEL jack.

B. Permanent Signal Tone and Local Overload Announcement

11c. If trunk is not associated with tie lines using SF signaling—
Select class of service and rate treatment, as required, other than coin and not associated with tie lines using SF signaling.

12c. Select route advance 1.

13d. If trunk is associated with tie lines using SF signaling—
Select class of service and rate treatment, as required, associated with tie lines.

14d. Select route advance 0.

15. Operate PS, TLK keys.

16e. If verification of 600 ms open feature of permanent signal trunk is being tested—
(Note below).
Operate CRV key.

Note: Means are provided in the permanent signal holding trunk to prevent improperly operated customer key equipment from causing permanent signals. One method causes a T and R short, preventing line current from flowing (M.D.). The other method causes a 600 ms, minimum open of the line (standard). In either case above, the hold relay of improperly operated customer key equipment that may have caused a permanent signal, will release.

17. Momentarily operate ST key.

If 600 ms open feature is being tested—
PK lamp flashes once, then remains lighted.
<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>18e</td>
<td>If verification of 600 ms open feature of permanent signal trunk is being tested— Restore CRV key.</td>
<td>PK lamp extinguished.</td>
</tr>
<tr>
<td>19f</td>
<td>If OTC key is provided— Momentarily operate OTC key.</td>
<td>OT-PS lamp momentarily lighted.</td>
</tr>
<tr>
<td>20</td>
<td>Patch T jack of overflow trunk to T1 jack of voltmeter test circuit.</td>
<td>High tone silenced.</td>
</tr>
<tr>
<td>21</td>
<td>Operate VMT1, G keys.</td>
<td>Voltmeter deflection steady.</td>
</tr>
<tr>
<td>22</td>
<td>Operate T1 REV key.</td>
<td>Voltmeter deflection not materially changed.</td>
</tr>
<tr>
<td>23</td>
<td>Restore T1 REV, TLK keys.</td>
<td>AS lamp remains lighted.</td>
</tr>
<tr>
<td>24</td>
<td>Restore VMT1, G keys.</td>
<td>If trunk is associated with tie lines using SF signaling— PK lamp extinguished.</td>
</tr>
<tr>
<td>25</td>
<td>Remove patching cord from T, T1 jacks.</td>
<td>If ETS provided— FT lamp extinguished. AS lamp extinguished.</td>
</tr>
<tr>
<td>26</td>
<td>Momentarily operate RL key.</td>
<td>All lamps extinguished.</td>
</tr>
<tr>
<td>27g</td>
<td>If trunk is arranged for local overload announcement— Restore PS key.</td>
<td>OAN lamp lighted. If remote office control of announcement feature is provided— At remote office— Alarm sounds.</td>
</tr>
<tr>
<td>28g</td>
<td>Operate TLK key.</td>
<td>If ETS provided— FT lamp lighted. AS lamp lighted. Local overload announcement heard.</td>
</tr>
<tr>
<td>29g</td>
<td>Operate OAN key to ON.</td>
<td>Note: After one complete announcement, AS lamp extinguished and announcement discontinued. If ETS provided, FT lamp extinguished.</td>
</tr>
<tr>
<td>30g</td>
<td>At MTF— Momentarily operate ST key.</td>
<td>All lamps extinguished except OAN.</td>
</tr>
<tr>
<td>31g</td>
<td>Momentarily operate RL key.</td>
<td>OAN lamp extinguished. If remote office control of announcement feature</td>
</tr>
</tbody>
</table>
| 32g  | Restore OAN key. | }
<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>At MTF—&lt;br&gt;Restore all keys and switches not required in next test.</td>
</tr>
<tr>
<td>34</td>
<td>Remove hand telephone set from TEL jack.</td>
</tr>
</tbody>
</table>

**C. Trunk Busy**

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>Select A, B, C digits for office code of trunk group that is not allotted and has no alternate route.</td>
</tr>
<tr>
<td>15e</td>
<td>If trunk is <strong>not</strong> associated with tie lines using SF signaling—&lt;br&gt;Select class of service and rate treatment, as required, other than coin and not associated with tie lines using SF signaling.</td>
</tr>
<tr>
<td>16e</td>
<td>Select route advance 2.</td>
</tr>
<tr>
<td>17e</td>
<td>Operate TTL key.</td>
</tr>
<tr>
<td>18f</td>
<td>If trunk is associated with tie lines using SF signaling—&lt;br&gt;Select class of service and rate treatment, as required, associated with tie lines.</td>
</tr>
<tr>
<td>19f</td>
<td>Select route advance 0.</td>
</tr>
<tr>
<td>20f</td>
<td>Operate PS key.</td>
</tr>
<tr>
<td>21</td>
<td>Operate TLK key.</td>
</tr>
<tr>
<td>22</td>
<td>Momentarily operate ST key.</td>
</tr>
</tbody>
</table>

If ETS provided—<br>FT lamp lighted.<br>AS lamp lighted.<br>If trunk is associated with tie lines using SF signaling—<br>PK lamp lighted.

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>23</td>
<td>Momentarily operate RL key.</td>
</tr>
</tbody>
</table>

All lamps extinguished.<br>If ETS provided—<br>FT lamp remains lighted.

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>Operate FS, TS keys.</td>
</tr>
<tr>
<td>25</td>
<td>Momentarily operate ST key.</td>
</tr>
</tbody>
</table>

TB lamp lighted.
## SECTION 218-280-501

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td>Momentarily operate RL key.</td>
<td>All lamps extinguished. If ETS provided— FT lamp remains lighted.</td>
</tr>
<tr>
<td>27c</td>
<td>If trunk is equipped with MB switch— At relay rack frame— Restore MB switch to N.</td>
<td>If ETS provided— FT lamp extinguished.</td>
</tr>
<tr>
<td>28d</td>
<td>If trunk is <strong>not</strong> equipped with MB switch— At MTF— Remove make-busy plug from OGT-MB jack.</td>
<td>If ETS provided— FT lamp extinguished.</td>
</tr>
<tr>
<td>29</td>
<td>At MTF— Restore all keys and switches not required in next test.</td>
<td></td>
</tr>
</tbody>
</table>

### COIN AND NONCOIN TONE TRUNKS

#### D. Seizure

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Select A, B, C digits of office code.</td>
</tr>
<tr>
<td>12</td>
<td>Select class of service and rate treatment as required.</td>
</tr>
<tr>
<td>13</td>
<td>Operate BB, TLK keys.</td>
</tr>
<tr>
<td>14c</td>
<td>If trunk is arranged for coin operation— Operate CN key.</td>
</tr>
<tr>
<td>15d</td>
<td>If there are no idle intraoffice trunks on the same trunk link frame, the same trunk switch, and the same trunk select tens as selected tone trunk— At MTF— Insert make-busy plug into M-C-MB jack of selected marker.</td>
</tr>
<tr>
<td>16d</td>
<td>Select route advance as required.</td>
</tr>
<tr>
<td>17d</td>
<td>At marker— Block nonoperated PBY relay.</td>
</tr>
<tr>
<td>18e</td>
<td>If there is not an idle intraoffice trunk on the same trunk link frame, the same trunk switch, and the same trunk tens as the selected tone trunk and nonwire-spring-relay type markers are provided— At marker— Connect 8T to 9T of LB relay.</td>
</tr>
</tbody>
</table>
19f  If there is not an idle intraoffice trunk on the same trunk link frame, the same trunk switch, and the same trunk select tens as the selected tone trunk and wire-spring-relay type markers are provided—
At marker—
Connect 10M to 10F of LB relay.

20  At MTF—
Momentarily operate ST key.

If ETS provided—
FT lamp lighted.
AS lamp lighted.
PK lamp not lighted.
If trunk is associated with ONAL service—
PK lamp lighted.
If CP or SA relay is provided in tone trunk—
60-imp tone with click heard.
If CP or SA relay is not provided in tone trunk—
60-imp tone heard.
If trunk is associated with data service—
60-imp CPT heard.

21  Dial 0.

22  Restore TLK key.

If ETS provided—
FT lamp extinguished.
AS lamp extinguished.
Tone silenced.
If trunk is associated with ONAL service—
PK lamp extinguished.
If trunk is arranged for coin operation—
CR lamp momentarily lighted.
CND lamp lighted.

23c If trunk is arranged for coin operation—
Restore CN key.

CND lamp extinguished.

24  Momentarily operate RL key.

All lamps extinguished.

25g If trunk is associated with ONAL service arranged for timed release—
Operate TLK key.

26g Momentarily operate ST key; **start timing.**

If ETS provided—
FT lamp lighted.
AS, PK lamps lighted.
In 6 or 12 minutes, depending on arrangement of interrupter—
AS, PK lamps extinguished.
If ETS provided—
FT lamp extinguished.
27g  Momentarily operate RL key.

28d  If there are no intraoffice trunks on same trunk link frame as selected tone trunk—
    At marker—
    Remove blocking tool from PBY relay.

29d  Remove test connections on LB relay placed in Step 18e or 19f.

30d  At MTF—
    Remove make-busy plug from M-C-MB jack, if placed in Step 15d.

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

32  Remove head telephone set from TEL jack.

E. All Paths Busy (Overflow) Tone

11  Select A, B, C digits for office code of trunk group that is not allotted and has no alternate route.

12  Select class of service and rate treatment as required.

13  Select route advance 1.

14  Operate TTL, TLK keys.

15c If trunk is arranged for coin operation—
    Operate CN key.

16  Momentarily operate ST key.

17  Restore TLK key.

If ETS provided—
    FT lamp lighted.
    AS lamp lighted.
    120- or 60-ipv overflow tone heard.
If trunk is associated with ONAL service—
    PK lamp lighted.
If trunk is associated with data service—
    120-ipv CPT heard.

If ETS provided—
    FT lamp extinguished.
    Tone silenced.
    AS lamp extinguished.
If trunk is associated with ONAL service—
    PK lamp extinguished.
If trunk is arranged for coin operation—
<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>18c</td>
<td>If trunk is arranged for coin operation—Restore CN key.</td>
<td>CR lamp momentarily lighted. CND lamp lighted.</td>
</tr>
<tr>
<td>19</td>
<td>Momentarily operate RL key.</td>
<td>CND lamp extinguished.</td>
</tr>
<tr>
<td>20</td>
<td>Restore all keys and switches not required in next test.</td>
<td>All lamps extinguished.</td>
</tr>
<tr>
<td>21</td>
<td>Remove head telephone set from TEL jack.</td>
<td></td>
</tr>
</tbody>
</table>

F. No-Such-Number Tone

<p>| 11   | Select class of service and rate treatment as required. | |
| 12   | Select route advance 0. | |
| 13   | Operate PD, TLK keys. | |
| 14c  | If trunk is arranged for coin operation—Operate CN key. | |
| 15   | Momentarily operate ST key. | If ETS provided—FT lamp lighted. AS lamp lighted. No-such-number tone heard. If trunk is associated with ONAL service—PK lamp lighted. If trunk is associated with data service—40-4pm CPT heard. |
| 16   | Restore TLK key. | If ETS provided—FT lamp extinguished. AS lamp extinguished. If trunk is associated with ONAL service—PK lamp extinguished. If trunk is arranged for coin operation—CR lamp momentarily lighted. CND lamp lighted. |
| 17c  | If trunk is arranged for coin operation—Restore CN key. | CND lamp extinguished. |
| 18   | Momentarily operate RL key. | All lamps extinguished. |
| 19   | Restore all keys and switches not required in next test. | |
| 20   | Remove head telephone set from TEL jack. | |</p>
<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>G. Trunk Busy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Select A, B, C digits for office code of trunk group that is not allotted and has no alternate route.</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Select class of service and rate treatment as required.</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Select route advance 1.</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Operate TTL, TLK keys.</td>
<td></td>
</tr>
</tbody>
</table>
| 18e | If trunk is arranged for coin operation—Operate CN key. | If ETS provided—
PT lamp lighted.
AS lamp lighted.
If trunk is associated with ONAL service—PK lamp lighted. |
| 19 | Momentarily operate ST key. | AS lamp extinguished.
If trunk is arranged for coin operation—CR lamp momentarily lighted.
CND lamp lighted. |
| 20 | Restore TLK key. | CND lamp extinguished. |
| 21e | If trunk is arranged for coin operation—Restore CN key. | All lamps extinguished.
If ETS provided—
FT lamp remains lighted. |
| 22 | Momentarily operate RL key. | |
| 23 | Operate FS, TS keys. | TB lamp lighted. |
| 24 | Operate TLK key. | All lamps extinguished.
If ETS provided—
FT lamp remains lighted. |
| 25 | Momentarily operate ST key. | |
| 26 | Momentarily operate RL key. | |
| 27c | If trunk is equipped with MB switch—At relay rack frame—Restore MB switch to N. | If ETS provided—
FT lamp extinguished. |
| 28d | If trunk is not equipped with MB switch—At MTF—Remove make-busy plug from OGT-MB jack. | If ETS provided—
FT lamp extinguished. |
29 At MTF—
Restore all keys and switches not required in next test.

OUTGOING TRUNKS TO INFORMATION, REPAIR SERVICE, OR OFFICIAL PBX AND ASSOCIATED AUXILIARY TRUNKS (NOT ARRANGED FOR INCOMING CX OR SX SUPERVISION)

H. Operation

18c If 11X-type codes are not provided—
Select A, B, C digits as required for route containing selected trunk.

19d If 11X-type codes are provided—
Select prefix digits 11 and digit A for route containing selected trunk.

20 Select class of service and rate treatment as required other than coin.

21 Select route advance 0.

22 Operate KY, TLK keys.

23f If trunk terminates in other than announcement system—
Momentarily operate ST key.

• If CDTT key is operated—
  S1 lamp lighted.
• If ETS provided—
  FT, S1 lamps lighted.
• If LAMA-C provided—
  S1 lamp lighted.
  AS lamp lighted.
  Ringing tone heard.
  When assistant answers—
  Ringing tone silenced.
• If ETS or LAMA-C provided—
  CS lamp lighted.
• If CDTT key is operated—
  CS lamp lighted.

Note 1: Ringing tone not heard if assistant answers immediately.

Note 2: In ACD offices, ringing tone may or may not be heard.

AS lamp remains lighted.

• If CDTT key is operated—
  S1, CS lamps extinguished.
• If ETS provided—
<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
</table>
| 26f  | Momentarily operate RL key. | CS, FT, S1 lamps extinguished.  
If LAMA-C provided—  
CS, S1 lamps extinguished.  
AS lamp extinguished.  
All lamps extinguished. |
| 27g  | If trunk terminates in an ACD and test of operators ability to transfer to service position is desired—  
Momentarily operate ST key. | Ringing tone may or may not be heard.  
When ACD operator answers—  
Ringing tone silenced.  
At ACD—  
Service assistant answers and remains connected. |
| 28g  | Ask operator to transfer call to a service position for test. | All lamps extinguished. |
| 29g  | Inform service assistant that this is a test call and disconnect—  
Momentarily operate RL key. | If ETS provided—  
FT lamp lighted.  
AS lamp lighted.  
Ringing tone heard.  
When announcement connects—  
Ringing tone silenced.  
Announcement starts at beginning and is clear and distinct. |
| 30h  | If trunk terminates in 6A announcement system—  
Momentarily operate ST key. | Note: If trunk is immediately connected to the announcement machine, it may be necessary to repeat the test to obtain a ringing tone. |
| 31h  | Restore TLK key. | If ETS provided—  
FT lamp extinguished.  
AS lamp extinguished. |
| 32h  | Momentarily operate RL key. | All lamps extinguished. |
| 33h  | If trunk terminates in 7A, or 13A announcement system—  
Momentarily operate ST key. | If ETS provided—  
FT lamp lighted.  
AS lamp lighted.  
Announcement starts, is clear and distinct. |

Note: Announcement may be in progress at operation of ST key if another trunk has started announcement machine.  
If audible ring until cut through is provided—  
Ringing tone heard.  
When announcement connects—  
Ringing tone silenced.  
Announcement starts at
34i Restore TLK key.

35i Momentarily operate RL key.

36j If trunk is arranged for coin return after disconnect—
   At MTF—
   Restore class of service and select coin class
   of service and rate treatment as required.

37j Operate CN, TLK keys.

38j Momentarily operate ST key.

39j Disconnect from call.

40j At MTF—
   Restore TLK key.

41j Restore CN key.

42j Momentarily operate RL key.

43j Restore coin class of service and select class
   of service and rate treatment, as required,
   other than coin.

44k If trunk is arranged for tandem operation—
   Restore class of service and rate treatment.

45k Select TAN subclass of test.

46k Operate TLK key.

47k Momentarily operate ST key.

VERIFICATION

beginning and is clear and
distinct.

If ETS provided—
   FT lamp extinguished.
   AS lamp extinguished.

All lamps extinguished.

If ETS provided—
   FT, S1 lamps lighted.
   AS lamp lighted.
   At terminating appearance of trunk—
   Call answered.
   If ETS provided—
   CS lamp lighted.

If ETS provided—
   CS lamp extinguished.

If ETS provided—
   FT, S1 lamps extinguished.
   AS lamp extinguished.
   CR lamp momentarily lighted.
   CND lamp lighted.

CND lamp extinguished.

All lamps extinguished.

If CDTT key is operated—
   S1 lamp lighted.
   If ETS provided—
<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>48k</td>
<td>Disconnect from call.</td>
<td>FT, S1 lamps lighted. If LAMA-C provided— S1 lamp lighted. AS lamp lighted. At terminating appearance of trunk— Call answered. If ETS or LAMA-C provided— CS lamp lighted. ♦If CDTT key is operated— CS lamp lighted.♦</td>
</tr>
<tr>
<td>49k</td>
<td>At MTF— Restore TLK key.</td>
<td>If ETS or LAMA-C provided— CS lamp extinguished. ♦If CDTT key is operated— CS lamp extinguished.♦</td>
</tr>
<tr>
<td>50k</td>
<td>Momentarily operate RL key.</td>
<td>♦If CDTT key is operated— S1 lamp extinguished.♦ If ETS provided— FT, S1 lamps extinguished. If LAMA-C provided— S1 lamp extinguished. AS lamp extinguished. All lamps extinguished.</td>
</tr>
<tr>
<td>51k</td>
<td>Restore TAN subclass of test.</td>
<td></td>
</tr>
<tr>
<td>52k</td>
<td>Select class of service and rate treatment, as required, other than coin.</td>
<td></td>
</tr>
<tr>
<td>53l</td>
<td>If trunk terminates in ACD office to a test access circuit and SF signaling is provided— Operate ACDC key.</td>
<td></td>
</tr>
<tr>
<td>54m</td>
<td>If trunk terminates in ACD office to a test access circuit— Operate TTC16 key.</td>
<td>If ETS provided— FT, S1 lamps lighted. AS lamp lighted. When test access circuit is seized— Interrupted dial tone heard.</td>
</tr>
<tr>
<td>55m</td>
<td>Momentarily operate ST key.</td>
<td></td>
</tr>
<tr>
<td>56m</td>
<td>Restore ACDC, TTC16 keys as required.</td>
<td>If ETS provided— FT, S1 lamps extinguished. AS lamp extinguished. Interrupted dial tone silenced.</td>
</tr>
<tr>
<td>57m</td>
<td>Restore TLK key.</td>
<td></td>
</tr>
<tr>
<td>STEP</td>
<td>ACTION</td>
<td>VERIFICATION</td>
</tr>
<tr>
<td>------</td>
<td>--------</td>
<td>--------------</td>
</tr>
<tr>
<td>58m</td>
<td>Momentarily operate RL key.</td>
<td>All lamps extinguished.</td>
</tr>
<tr>
<td>59</td>
<td>Restore all keys and switches not required in next test.</td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>Remove head telephone set from TEL jack.</td>
<td></td>
</tr>
</tbody>
</table>

1. **Trunk Busy**

18f  If 11X-type codes are *not* provided—
Select digits required for route containing selected trunk.

19b  If 11X-type codes are provided—
Select prefix digits 11 and digit A for route containing selected trunk.

20   Select class of service and rate treatment, as required, other than coin.

21   Select route advance 0.

22   Operate KY, TLK keys.

23   Momentarily operate ST key.

24   Disconnect from call.

25   At MTF—
Momentarily operate RL key.

26   Operate FS, TS keys.

27   Momentarily operate ST key.

*If CDTT key is operated—
S1 lamp lighted.♦
If ETS provided—
FT, S1 lamps lighted.
If LAMA-C provided—
S1 lamp lighted.
AS lamp lighted.
At terminating appearance of trunk—
Call answered.
If ETS or LAMA-C provided—
CS lamp lighted.
♦If CDTT key is operated—
CS lamp lighted.♦

*If ETS or LAMA-C provided—
CS lamp extinguished.
♦If CDTT key is operated—
CS lamp extinguished.♦

All lamps extinguished.
If ETS provided—
FT lamp remains lighted.

TB lamp lighted.
<table>
<thead>
<tr>
<th><strong>STEP</strong></th>
<th><strong>ACTION</strong></th>
<th><strong>VERIFICATION</strong></th>
</tr>
</thead>
</table>
| 28       | Momentarily operate RL key. | All lamps extinguished.  
FT lamp remains lighted. |
| 29h      | If a repair service trunk, arranged to appear busy with associated trunk key at repair service desk operated, is under test—  
Restore MB switch to N or remove make-busy plug from OGT-MB jack. | If ETS provided—  
FT lamp extinguished. |
| 30h      | Momentarily operate ST key. | If ETS provided—  
FT, SI lamps lighted.  
AS lamp lighted.  
At repair service desk—  
Call answered.  
If ETS provided—  
CS lamp lighted.  
All lamps extinguished. |
| 31h      | At MTF—  
Momentarily operate RL key. | TB lamp lighted.  
All lamps extinguished. |
| Note 1:  | At repair service desk, disregard disconnect signal for approximately 15 seconds. | |
| Note 2:  | At MTF, proceed to next step within 15 seconds. | |
| 32h      | Momentarily operate ST key. | If ETS provided—  
FT lamp extinguished. |
| 33h      | Momentarily operate RL key. | E relay operated.  
Ground present on terminal 46 of unit terminal strip.  
Ground not present on terminal 45 of unit terminal strip. |
| 34i      | If dedicated repair service trunk is arranged for park-on operation—  
Restore MB switch to N or remove make-busy plug from OGT-MB jack. | E relay released.  
Ground not present on terminal 46 of unit terminal strip.  
Ground present on terminal 45 of unit terminal strip. |
| 35i      | At relay rack frame—  
Ground terminal 68 of unit terminal strip. | E relay operated.  
Ground present on terminal 46 of unit terminal strip.  
Ground not present on terminal 45 of unit terminal strip. |
| 36i      | Remove ground connection. | |
| 37       | At MTF—  
Restore all keys and switches not required in next test. | |
38. Restore MB switch to N or remove make-busy plug from OGT-MB jack as required.

39. Remove head telephone set from TEL jack.

J. Trunk Transfer

11. At repair service desk—
   Restore TRNS key if operated.

12c. If 11X-type codes are not provided—
   At MTF—
   Select A, B, C digits as required for route containing selected trunk.

13d. If 11X-type codes are provided—
   At MTF—
   Select prefix digits 11 and digit A for route containing selected trunk.

14. Select class of service and rate treatment, as required, other than coin.

15. Select route advance 0.

16. Operate KY, TLK keys.

17. Momentarily operate ST key.

18. Operate TRNS key.

19. At MTF—
   Restore TLK key.

20. Momentarily operate RL key.

21. Operate TLK key.

22. Momentarily operate ST key.

23. At MTF—
   Restore TLK key.


**STEP**

**ACTION**

**VERIFICATION**

---

**Note 1:** At switchboard, disregard disconnect signal for approximately 30 seconds.

**Note 2:** At MTF, perform Steps 24 through 27 within 30 seconds.

- **24**
  - Momentarily operate RL key.
  - All lamps extinguished.

- **25**
  - At repair service desk—
  - Restore TRNS key.
  - TB lamp lighted.

- **26**
  - At MTF—
  - Momentarily operate ST key.
  - All lamps extinguished.

- **27**
  - Momentarily operate RL key.
  - If trunk is arranged to be made busy when transfer key at repair service desk is operated—
  - At repair service desk—
  - Operate TRNS key.
  - If selected trunk is arranged to make busy associated official lines to repair service desk—
  - At trunk make-busy circuit on relay rack frame—
  - Associated LB relay operated.
  - If ETS provided—
  - At MTF—
  - FT lamp lighted.
  - TB lamp lighted.

- **29e**
  - At MTF—
  - Momentarily operate ST key.
  - All lamps extinguished.

- **30e**
  - Momentarily operate RL key.

- **31**
  - Restore all keys and switches not required in next test.

- **32e**
  - If trunk is arranged to be made busy when transfer key at repair service desk is operated—
  - At repair service desk—
  - Restore TRNS key to position prior to test.
  - At trunk make-busy circuit on relay rack frame—
  - Associated LB relay released.
  - If ETS provided—
  - At MTF—
  - FT lamp extinguished.

- **33**
  - At MTF—
  - Remove head telephone set from TEL jack.

---

**OUTGOING TRUNKS TO INFORMATION (ARRANGED FOR INCOMING CX OR SX SUPERVISION)**

**K. Operation**

- **11c**
  - If 11X-type codes are **not** provided—
  - Select A, B, C digits as required for route containing selected trunk.
12d  If 11X-type codes are provided—
Select prefix digits 11 and digit A for route
containing selected trunk.

13  Select TOL subclass of test.

14  Select route advance 0.

15  Operate KY, TLK keys.

16e  If trunk terminates at switchboard or desk—
Momentarily operate ST key.

17e  At switchboard or desk—
Disconnect from call.

18e  Restore TLK key.

19e  Momentarily operate RL key.

19f  If trunk terminates in ACD office to a test
access circuit and SF signaling is provided—
Operate ACDC key.

21g  If trunk terminates in ACD office to a test
access circuit—
Operate TTC16 key.

22g  Momentarily operate ST key.

23g  Restore ACDC, TTC16 keys as required.

24g  Key digit 2.

If ETS provided—
FT lamp lighted.
TAS lamp lighted.
Ringing tone heard.
When call is answered—
Ringing tone silenced.
OGT-CS lamp lighted.

Note 1: Ringing tone is not heard if assistant
answers immediately.

Note 2: In ACD offices, ringing tone may
or may not be heard.

At MTF—
OGT-CS lamp flashes.

If ETS provided—
FT lamp extinguished.
TAS, OGT-CS lamps extinguished.
All lamps extinguished.

If ETS provided—
FT lamp lighted.
TAS lamps lighted.
When test access circuit is seized—
OGT-CS lamp lighted.
Interrupted dial tone heard.

Interrupted dial tone silenced.
1000 Hz tone heard.
25g  Restore TLK key.
     
26g  Momentarily operate RL key.
     
27h  If trunk is equipped with MB switch—
     At relay rack frame—
     Set MB switch to MB.
     
28h  Restore MB switch to N.
     
29i  If trunk is not equipped with MB switch—
     At MTF—
     Insert make-busy plug into OGT-MB jack.
     
30i  At MTF—
     Remove make-busy plug from OGT-MB jack.
     
31  Restore all keys and switches not required in
     next test.
     
32  Remove head telephone set from TEL jack.
<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>L. Trunk Busy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14e</td>
<td>If 11X-type codes are <em>not</em> provided— Select A, B, C digits as required for route containing selected trunk.</td>
<td></td>
</tr>
<tr>
<td>15f</td>
<td>If 11X-type codes are provided— Select prefix digits 11 and digit A for route containing selected trunk.</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Select TOL subclass of test.</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Select route advance 0.</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Operate KY, TLK keys.</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Momentarily operate ST key.</td>
<td>If ETS provided— FT lamp lighted. TAS lamp lighted. At switchboard or desk— Call answered.</td>
</tr>
<tr>
<td>20</td>
<td>Disconnect from call.</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>At MTF— Momentarily operate RL key.</td>
<td>All lamps extinguished. If ETS provided— FT lamp remains lighted.</td>
</tr>
<tr>
<td>22</td>
<td>Operate FS, TS keys.</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Momentarily operate ST key.</td>
<td>TB lamp lighted.</td>
</tr>
<tr>
<td>24</td>
<td>Momentarily operate RL key.</td>
<td>All lamps extinguished. If ETS provided— FT lamp remains lighted.</td>
</tr>
<tr>
<td>25</td>
<td>Operate NTFS, NTTS keys.</td>
<td></td>
</tr>
<tr>
<td>26g</td>
<td>If trunk is arranged to remain busy when originating end disconnects first— Momentarily operate ST key.</td>
<td>TAS lamp lighted. At switchboard— Call answered.</td>
</tr>
<tr>
<td>27g</td>
<td>At MTF— Momentarily operate RL key.</td>
<td>All lamps extinguished. If ETS provided— FT lamp remains lighted.</td>
</tr>
<tr>
<td><strong>Note 1:</strong></td>
<td>At switchboard, disregard disconnect signal for approximately 15 seconds.</td>
<td></td>
</tr>
<tr>
<td><strong>Note 2:</strong></td>
<td>At MTF, proceed to next step within 15 seconds.</td>
<td></td>
</tr>
<tr>
<td>28g</td>
<td>Momentarily operate ST key.</td>
<td>TB lamp lighted.</td>
</tr>
</tbody>
</table>
SECTION 218-280-501

STEP       ACTION                                         VERIFICATION

29g        Momentarily operate RL key.                     All lamps extinguished.

30c        If trunk is equipped with MB switch—
            At relay rack frame—
            Restore MB switch to N.
            If ETS provided—
            FT lamp remains lighted.

31d        If trunk is **not** equipped with MB switch—
            At MTF—
            Remove make-busy plug from OGT-MB jack.
            If ETS provided—
            FT lamp extinguished.

32         At MTF—
            Restore all keys and switches not required in
            next test.

33         Remove head telephone set from TEL jack.

ALL TRUNKS

M. False-Busy and False-Idle Conditions (ETS Not Provided)

1         At relay rack frame—
            Connect power to 1A fault locator; operate
            W-T switch to W and HR-LRT switch to HR.
            Whistle heard.

2         Connect WT jack of 1A fault locator to
            terminal of terminal strip on unit as follows:
            Trunk not equipped with D-type terminal strip—
            Terminal 10 on unit terminal strip or on
            terminal strip A as provided.
            Trunk equipped with D-type terminal strip—
            Terminal 45 on unit terminal strip or on
            terminal strip A as provided.
            Whistle not heard.

3a        If trunk is equipped with MB switch—
            Set MB switch to MB.

4a        Set MB switch to MB on all other trunks using
            same route on same trunk link frame.
            Whistle heard.

5a        When selected trunk is idle—
            Momentarily restore MB switch to N.
            Whistle silenced while MB switch is restored.

6b        If trunk is **not** equipped with MB switch—
            At MTF—
            Insert make-busy plug in OGT-MB jack.

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<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>7b</td>
<td>Insert make-busy plugs into all other OGT-MB jacks of all trunks using same route on same trunk link frame.</td>
<td>Whistle heard.</td>
</tr>
<tr>
<td>8b</td>
<td>When selected trunk is idle— Momentarily remove make-busy plug.</td>
<td>Whistle silenced while make-busy plug is removed.</td>
</tr>
<tr>
<td>9</td>
<td>At relay rack frame— When selected trunk is idle— Block operated relay as follows: BY relay on outgoing trunk for information service, arranged for incoming CX or SX supervision. CO relay on coin tone trunk. S1 relay on all other trunks.</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Restore MB switch to N or remove make-busy plugs from OGT-MB jack for selected trunk.</td>
<td>Whistle still heard.</td>
</tr>
<tr>
<td>11</td>
<td>Connect HRG (high resistance ground) terminal to terminal of terminal strip on unit as follows: Noncoin trunk connected to auxiliary trunk that provides coin return after customer disconnects— Terminal 9 on auxiliary trunk terminal strip. All other trunks not equipped with D-type terminal strips— Terminal 9 on unit terminal strip or on terminal strip A. Trunk equipped with D-type terminal strip— Terminal 55 on unit terminal strip or on terminal strip A.</td>
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</tr>
<tr>
<td>12</td>
<td>Disconnect connection to terminal 10 and connect to terminal 11 or disconnect connection to terminal 45 and connect to terminal 15 as provided.</td>
<td>Whistle heard.</td>
</tr>
<tr>
<td>13</td>
<td>Remove blocking tool from relay blocked operated.</td>
<td>Whistle silenced.</td>
</tr>
<tr>
<td>14</td>
<td>Remove test connections from terminal strip.</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Remove power from 1A fault locator.</td>
<td></td>
</tr>
</tbody>
</table>