OUTGOING ANNOUNCEMENT TRUNKS
TESTS USING TRUNK TEST CIRCUIT SD-25918-01
NO. 5 CROSSBAR OFFICES

1. GENERAL

1.01 This section describes a method of testing outgoing announcement trunks, SD-25689-01, SD-25690-01, and SD-26148-01, using the trunk test circuit SD-25918-01 and the master test frame in No. 5 crossbar offices.

1.02 This section is reissued for the following reasons:

(a) To add 1.09 to clarify out-of-service conditions for LAMA-C and Electronic Translation System (ETS) testing.

(b) To add Test V for ETS verification.

(c) To delete Test K and U (covered in marker tests)

(d) To revise Test B to include both change and non-change conditions.

(e) To make minor changes as required.

This reissue affects Equipment Test Lists.

1.03 The tests covered are:

MISC CLASS OF TEST

A. Trunk Seizure and Release—Flat Rate Trunks: This test checks the seizure of the trunk and completion of a connection from a calling flat rate line through the trunk to the central announcement bureau. It checks the supervisory and regular release features of the trunk.

B. Trunk Seizure and Release—Coin Trunks: This test checks the seizure of the trunk and completion of a connection from a coin subscriber through the trunk to the central announcement bureau. It checks the coin control, supervisory, and regular release features of the trunk.

C. Trunk Seizure and Release—AMA Trunks *(ETS or LAMA-C Not Provided)*: This test checks the seizure of the trunk and completion of a connection from a message rate line through the trunk, arranged for AMA operation, to the central announcement bureau. It checks the charging, supervisory, and regular release features of the trunk.

D. Trunk Seizure and Release—Message Register Trunks *(ETS or LAMA-C Not Provided)*: This test checks the seizure of the trunk and completion of a connection from a message rate line through the trunk, arranged for message register operation, to the central announcement bureau. It checks the charging, supervisory, and regular release features of the trunk.

E. Cancel Disconnect Entry—AMA Trunks When Disconnect Entry Is Provided *(ETS or LAMA-C Not Provided)*: This test checks the ability of the trunk to release and prevent false overcharging when a disconnect entry cannot be made.

NOTICE

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<td>F. Trunk Busy Feature:</td>
<td>This test checks that the trunk tests busy on a service basis but can be seized on a no-test basis when made busy.</td>
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<tr>
<td>G. Trunk Seizure and Release—Tandem Operation:</td>
<td>This test checks the seizure of the trunk, completion of the connection to the central announcement bureau, and the supervisory and release features of the trunk for tandem operation.</td>
</tr>
<tr>
<td>H. Trunk Guard Test—Non-Tandem Operation:</td>
<td>This test checks the ability of the trunk to bring in a minor alarm and send back overflow tone to the calling subscriber. This occurs when the tip and ring polarity is reversed or the trunk has been seized during a charge period of the incoming announcement trunk.</td>
</tr>
<tr>
<td>I. Trunk Guard Test—Tandem Operation:</td>
<td>This test checks the ability of the trunk to send back an overflow flash toward the originating end. This occurs when the tip and ring polarity of the trunk is reversed or the trunk has been seized during a charge period of the incoming announcement trunk circuit for tandem operation.</td>
</tr>
<tr>
<td>J. Timed Release Feature:</td>
<td>This test checks that the trunk will release within a fixed interval after the announcement is completed even though the calling subscriber has not disconnected.</td>
</tr>
<tr>
<td>K. Deleted</td>
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**OGT CLASS OF TEST**

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<td>L. Trunk Seizure and Release—Flat Rate Trunks:</td>
<td>This test checks the seizure, supervision, and regular release features of the trunk.</td>
</tr>
<tr>
<td>M. Trunk Seizure and Release—Coin Trunks:</td>
<td>This test checks the seizure, coin control, supervision, and regular release features of the trunk.</td>
</tr>
<tr>
<td>N. Trunk Seizure and Release—AMA Trunks (ETS or LAMA-C Not Provided):</td>
<td>This test checks the seizure, charging, supervision, and regular release features of the trunk.</td>
</tr>
<tr>
<td>O. Trunk Seizure and Release—Message Register Trunks (ETS or LAMA-C Not Provided):</td>
<td>This test checks the seizure, charging, supervision, and regular release features of the trunk.</td>
</tr>
<tr>
<td>P. Cancel Disconnect Entry—AMA Trunks When Disconnect Entry Is Provided (ETS or LAMA-C Not Provided):</td>
<td>This test checks the ability of the trunk to release and prevent false overcharging when a disconnect entry cannot be made.</td>
</tr>
<tr>
<td>Q. Trunk Busy Feature:</td>
<td>This test checks that the trunk tests busy on a service basis but can be seized on a no-test basis when made busy.</td>
</tr>
<tr>
<td>R. Trunk Seizure and Release—Tandem Operation:</td>
<td>This test checks the seizure, supervision, and release features of the trunk for tandem operation.</td>
</tr>
<tr>
<td>S. Trunk Guard Test—Non-Tandem Operation:</td>
<td>This test checks the ability of the trunk to bring in a minor alarm and send back overflow tone to the calling subscriber. This occurs when the tip and ring polarity is reversed or the trunk has been seized during a charge period of the incoming announcement trunk.</td>
</tr>
<tr>
<td>T. Trunk Guard Test—Tandem Operation:</td>
<td>This test checks the ability of the trunk to send back an overflow flash toward the originating end. This occurs when the tip and ring polarity of the trunk is reversed or the...</td>
</tr>
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</table>
trunk has been seized during a charge period of the incoming announcement trunk circuit for tandem operation.

U. *Deleted*

V. *ETS Verification Test: This test verifies the following conditions
(1) trunk seizure and release (2) trunk supervisory scanning (FT, S1, and CS leads) (3) Make-busy override (4) Correct trunk register assignment.

1.04 When the outgoing announcement trunk to be tested is arranged for flat rate, coin, and AMA or message register operation, perform Tests A through E or L through P as required.

1.05 The manner of selecting some circuits and test conditions at the master test frame (MTF) and its associated circuits varies depending on the apparatus options furnished with these circuits. Therefore, where variable means of selection are provided, precise instructions for the selection of circuits and test conditions are not given. Precise instructions for the use of these variable means are given in Section 218-106-301.

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

1.07 *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.

1.08 *When the office is arranged for LAMA-C or ETS, the distributors and scanners associated with the marker and trunk used in the test call must be in service or in a maintenance-busy condition—not in an out-of-service condition. To change a scanner or distributor from an out-of-service to a maintenance-busy condition,
of 131 cord tip and solder KS-6780 connecting clips to the tip and ring cord tips. Insulate and tape sleeve conductor to body of cord.

Tests J, P, $and V$

2.08 KS-3008 stopwatch, or equivalent. *arranged for LAMA-C or ETS.*

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<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
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</thead>
<tbody>
<tr>
<td>All Tests</td>
<td>At master test frame— Restore all keys and switches.</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Momentarily operate RL key.</td>
<td>All lamps extinguished.</td>
</tr>
<tr>
<td>2</td>
<td>Select trunk.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Select A through K digits as required for route to trunk under test.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Operate GPA/GPB key when trunk under test is in an allotted group.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Select originating class of call and associated translator indication.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Select route advance as required.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Select completing marker.</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Operate TLK, KY keys.</td>
<td></td>
</tr>
</tbody>
</table>

All Tests Except E and P

10 Operate FS, TS keys.

All Tests Except C, D, E, N, O, and P

11a If ETS provided— Operate PCS key. *Allows selected class of service to be used.*

12a Operate PTS key. *Allows selection of trunk.*

Tests A Through K

13 Select MISC class of test.
4. METHOD

MISC Class of Test

A. Trunk Seizure and Release—Flat Rate Trunks

14 Select flat rate class of service having access to trunk under test.

15 Momentarily operate ST key.

16 Restore TLK key.

17 Momentarily operate RL key.

18b If no other tests are to be made—Restore all keys and switches.

B. Trunk Seizure and Release—Coin Trunks

14 Select coin class of service having access to trunk under test.

15 Operate CN key.

16 Momentarily operate ST key.

VERIFICATION

- If LAMA-C provided—
  S1 lamp lighted.
- If ETS provided—
  FT, S1 lamps lighted.
- AS lamp lighted.
- PK lamp not lighted.
- Audible ring heard until announcement starts.
- Complete announcement heard.
- If ETS or LAMA-C provided—
  CS lamp lighted.

- AS lamp extinguished.
- If ETS provided—
  FT, CS, S1 lamps extinguished.
- If LAMA-C provided—
  CS, S1 lamps extinguished.
- All lamps extinguished.
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#### Step 17
- **Action:** Restore TLK key.
- **Note:** The determination as to whether a charge condition should be established on this type of call rests with local operating companies rate structure.

#### Step 18
- **Action:** Restore CN key.

#### Step 19
- **Action:** Momentarily operate RL key.

#### Step 20
- **Action:** Operate CN and TLK keys.

#### Step 21
- **Action:** Momentarily operate ST key.

#### Step 22
- **Action:** Restore TLK key immediately following the lighting of the AS lamp and before the announcement starts.

#### Step 23b
- **Action:** If an announcement is heard—Restore CN key.

#### Step 24b
- **Action:** Repeat Steps 19 through 22.

#### Step 25
- **Action:** Restore CN key.

#### Step 26
- **Action:** Momentarily operate RL key.

#### Step 27c
- **Action:** If no other tests are to be made—Restore all keys and switches.

### C. Trunk Seizure and Release—AMA Trunks *(ETS or LAMA-C Not Provided)*

#### Step 14
- **Action:** Select AMA class of service having access to trunk under test.
STEP | ACTION | VERIFICATION
--- | --- | ---
16 | Restore TLK key. | AS lamp extinguished. If disconnect entry is provided— DE lamp lighted.
17 | Momentarily operate RL key. | All lamps extinguished.
19 | Momentarily operate ST key. | If announcement is not heard— AS lamp extinguished. DE lamp not lighted. All lamps extinguished.
20 | Restore TLK key immediately following the lighting of the AS lamp and before the announcement starts. | All lamps extinguished. All lamps extinguished.
21b | If an announcement is heard— Repeat Steps 17 through 20. | All lamps extinguished.
22 | Momentarily operate RL key. | All lamps extinguished.
23c | If no other tests are to be made— Restore all keys and switches. | All lamps extinguished.

D. Trunk Seizure and Release—Message Register Trunks *(ETS or LAMA-C not Provided)*

14 | Select message rate class of service having access to trunk under test. | AS lamp lighted. PK lamp not lighted. Audible ring heard until announcement starts. When announcement starts— RP lamp lighted. Complete announcement heard.
15 | Momentarily operate ST key. | AS lamp extinguished.
16 | Restore TLK key. | RP lamp extinguished.
17 | Momentarily operate RL key. |
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STEP 18
Operate TLK key.

STEP 19
Momentarily operate ST key.

STEP 20
Restore TLK key immediately following the lighting of the AS lamp and before the announcement starts.

STEP 21b
If an announcement is heard—
Repeat Steps 17 through 20.

STEP 22
Momentarily operate RL key.

STEP 23c
If announcement trunk is equipped to serve two-party lines—
Select party line class of service having access to trunk under test.

STEP 24c
Operate TLK key.

STEP 25c
Operate TP key.

STEP 26c
Momentarily operate ST key.

STEP 27c
Restore TLK key.

STEP 28c
Momentarily operate RL key.

STEP 29d
If no other tests are to be made—
Restore all keys and switches.

E. Cancel Disconnect Entry—AMA Trunks When Disconnect Entry is Provided *(ETS or LAMA-C not Provided)*

STEP 14
Select AMA class of service having access to trunk under test.

STEP 15
Operate NTFS, NTTS keys.

STEP 16
Operate LOC FR L key.

STEP 17
At OGT jack bay—
Insert make-busy plug into OGT-MB jack of trunk under test.
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<th>ACTION</th>
<th>VERIFICATION</th>
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</thead>
</table>
| 18   | At trunk equipment—  
     | Insert plug of headset into frame line telephone jacks. | Announcement heard.  
     | | MA relay operates after start of announcement.  
| 19   | Insert 32A test set into RC_ jack. |  
| 20   | Momentarily operate white button. |  
| 21b  | If trunk is nonwire-spring-relay type—  
     | Insulate 2B contact S2 relay. | S1 relay released.  
     | | In 2 to 7 seconds—  
     | MA relay released. |  
| 22c  | If trunk is wire-spring-relay type—  
     | Insulate 6 break contact S2 relay. |  
| 23   | Momentarily operate red button. |  
| 24   | Remove insulator from S2 relay. |  
| 25   | Remove telephone headset and test set from jacks. |  
| 26   | At master test frame—  
     | Restore LOC FR L key. |  
| 27d  | If no other tests are to be made—  
     | Restore all keys and switches. |  
| 28   | At OGT jack bay—  
     | Remove make-busy plug from OGT-MB jack. |  

**F. Trunk Busy Feature**

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
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</table>
| 14   | Select any originating class of service, except coin, having access to trunk under test. | TB lamp lighted.  
     | | TB lamp extinguished.  
| 15   | Insert make-busy plug into OGT-MB jack associated with trunk under test. | PK lamp not lighted.  
     | | AS lamp lighted.  
     | | Audible ring heard until announcement starts.  
     | | If ETS provided—  
     | | FT, S1 lamps lighted. |  
| 16   | Momentarily operate ST key. |  
| 17   | Momentarily operate RL key. |  
| 18   | Operate NTFS, NTTS keys. |  
| 19   | Momentarily operate ST key. |  

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| 20   | Momentarily operate RL key. | If LAMA-C provided—  
  S1 lamp lighted. |
| 21   | Remove make-busy plug from OGT-MB jack associated with trunk under test. | All lamps extinguished.  
  If ETS provided—  
  FT lamp remains lighted. |
| 22b  | If no other tests are to be made—  
  Restore all keys and switches. | If ETS provided—  
  FT lamp extinguished. |

**G. Trunk Seizure and Release—Tandem Operation**

<table>
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<th>ACTION</th>
<th>VERIFICATION</th>
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</thead>
</table>
| 14   | Select tandem subclass of test. | TAN lamp lighted.  
  If ETS provided—  
  FT lamp lighted.  
  AS lamp lighted.  
  Audible ring heard until announcement starts.  
  When announcement starts—  
  OGT-CS lamp lighted.  
  Complete announcement heard. |
| 15   | Momentarily operate ST key. | OGT-CS, AS lamps extinguished.  
  If ETS provided—  
  FT lamp extinguished.  
  TAN lamp extinguished. |
| 16   | Restore TLK key. | All lamps extinguished. |
| 17   | Momentarily operate RL key. | TAN lamp extinguished. |
| 18b  | If trunk has ground on the ring—  
  Restore all keys and switches. | All lamps extinguished. |

**H. Trunk Guard Test—Non-Tandem Operation**

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<tr>
<th>STEP</th>
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<tbody>
<tr>
<td>14</td>
<td>Select any originating class of service, except coin, having access to trunk under test.</td>
<td></td>
</tr>
</tbody>
</table>
| 15   | At OGT jack bay—  
  Using associated voltmeter determine polarity of ring conductor of announcement trunk. |  |
| 16   | Insert S3A cord into OGT test jack of trunk under test. |  |
| 17   | If trunk has battery on the ring—  
  Connect battery to tip and ground to ring of S3A cord. |  |
STEP | ACTION | VERIFICATION
--- | --- | ---
18c | If trunk has ground on the ring—  
Connect ground to tip and battery to ring of S3A cord. | • If LAMA-C provided—  
S1 lamp lighted.  
If ETS provided—  
FT, S1 lamps lighted.♦  
AS lamp lighted.  
Overflow tone heard.  
Minor alarm sounds.  
AN TRK- lamp associated with trunk under test lighted.

19 | At MTF—  
Momentarily operate ST key. | AN TRK- lamp extinguished.  
Minor alarm silenced.

20 | Momentarily operate AT-AR key. | AS lamp extinguished.  
♦ If ETS provided—  
FT, S1 lamps extinguished.  
If LAMA-C provided—  
S1 lamp extinguished.

21 | Momentarily operate RL key. | TAN lamp lighted.

22 | At OGT jack bay—  
Remove test connection. | • If ETS provided—  
FT lamp lighted.  
AS lamp lighted.

23d | If no other tests are to be made—  
At MTF—  
Restore all keys and switches. | TAN lamp lighted.

1. **Trunk Guard Test—Tandem Operation**

14 | Select tandem subclass of test. | TAN lamp lighted.

15 | At OGT jack bay—  
Using associated voltmeter determine polarity of ring conductor of announcement trunk. | TAN lamp lighted.

16 | Insert S3A cord into OGT test jack of trunk under test. | TAN lamp lighted.

17b | If trunk has battery on the ring—  
Connect battery to tip and ground to ring of S3A cord. | TAN lamp lighted.

18c | If trunk has ground on the ring—  
Connect battery to ring and ground to tip of S3A cord. | TAN lamp lighted.

19 | At MTF—  
Momentarily operate ST key. | ♦ If ETS provided—  
FT lamp lighted.♦  
AS lamp lighted.
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<tr>
<td>20</td>
<td>Momentarily operate AT-AR key.</td>
<td>Overflow tone heard. Minor alarm sounds. OGT-CS lamp flashes at overflow frequency assigned to the office. AN TRK- lamp associated with trunk under test lighted.</td>
</tr>
<tr>
<td>21</td>
<td>Momentarily operate RL key.</td>
<td>AN TRK- lamp extinguished. Minor alarm silenced.</td>
</tr>
<tr>
<td>22</td>
<td>At OGT jack bay— Remove test connection.</td>
<td>AS lamp extinguished. If ETS provided— FT lamp extinguished.</td>
</tr>
<tr>
<td>23d</td>
<td>If no other tests are to be made— Restore all keys and switches.</td>
<td>TAN lamp extinguished.</td>
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### J. Timed Release Feature

14 Select flat rate class of service having access to trunk under test.

15 Momentarily operate ST key.

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• If LAMA-C provided— S1 lamp lighted.

If ETS provided—

• FT, S1 lamps lighted.

AS lamp lighted.

Audible ring heard until announcement starts.

• If ETS or LAMA-C provided—

• CS lamp lighted.

In 1 to 2 minutes after announcement starts—

AS lamp extinguished.

• If ETS provided—

• CS, FT, S1 lamps extinguished.

If LAMA-C provided—

• CS, S1 lamps extinguished.

**Note:** The interval between the beginning of the announcement and the release of the trunk may vary depending upon the length of the announcement. The verification from one trunk circuit should be expected from all other trunk circuits in the same trunk group.

16 Momentarily operate RL key.

17b If no other tests are to be made— Restore all keys and switches.

All lamps extinguished.
OGT CLASS OF TEST

L. Trunk Seizure and Release—Flat Rate Trunks

15 Select flat rate class of service having access to trunk under test.

16 Momentarily operate ST key.  If LAMA-C provided—
   S1 lamp lighted.
   If ETS provided—
   FT, S1 lamps lighted.
   AS lamp lighted.
   PK lamp not lighted.

17 Operate ANS key.  If ETS or LAMA-C provided—
   CS lamp lighted.
   OGT-CS lamp lighted.
   High tone heard.

18 Restore TLK key.  If LAMA-C provided—
   CS, S1 lamps extinguished.
   If ETS provided—
   FT, S1, CS lamps extinguished.
   AS, OGT-CS lamps extinguished.
   High tone silenced.

19 Momentarily operate RL key.  All lamps extinguished.

20 Operate TLK key.  If LAMA-C provided—
   S1, CS lamps lighted.
   If ETS provided—
   FT, S1, CS lamps lighted.
   AS, OGT-CS lamps lighted.
   High tone heard.

21 Momentarily operate ST key.  If LAMA-C provided—
   CS, S1 lamps extinguished.
   If ETS provided—
   FT, S1, CS lamps extinguished.
   OGT-CS, AS lamps extinguished.
   High tone silenced.

22 Restore ANS key.  All lamps extinguished.

23 Momentarily operate RL key.  If no other tests are to be made—
   Restore all keys and switches.
M. Trunk Seizure and Release—Coin Trunks

15 Select coin class of service having access to trunk under test.

16 Operate CN key.

17 Momentarily operate ST key.

18 Operate ANS key.

19 Restore TLK key.

20 Restore CN key.

21 Momentarily operate RL key.

22 Restore ANS key.

23 Operate CN, TLK keys.

24 Momentarily operate ST key.

25 Operate ANS key for 1 to 1 1/2 seconds.

26 Restore TLK key.

27 Momentarily operate RL key.

28b If no other tests are to be made—
Restore all keys and switches.

VERIFICATION

• If ETS provided—
  FT, Sl, lamps lighted.
  AS lamp lighted.
  PK lamp not lighted.

• OGT-CS lamp lighted.
  High tone heard.
  If ETS provided—
  CS lamp lighted.

CC lamp lighted momentarily.
CND lamp lighted.
AS, OGT-CS lamps extinguished.
High tone silenced.
• If ETS provided—
  FT, Sl, CS lamps extinguished.

CND lamp extinguished.
All lamps extinguished.

• If ETS provided—
  FT, Sl, lamps lighted.
  AS lamp lighted.

• If ETS provided—
  CS lamp lighted while ANS key operated.
  High tone heard while ANS key operated.
  OGT-CS lamp lighted while ANS key operated.

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

All lamps extinguished.
STEP ACTION

N. Trunk Seizure and Release—AMA Trunks *(ETS or LAMA-C not Provided)*

15 Select AMA class of service having access to trunk under test.

16 Momentarily operate ST key.

17 Operate ANS key.

18 Restore TLK key.

19 Momentarily operate RL key.

20 Restore ANS key.

21 Operate TLK key.

22 Momentarily operate ST key.

23 Operate ANS key for 1 to 1 1/2 seconds.

24 Restore TLK key.

25 Momentarily operate RL key.

26b If no other tests are to be made— Restore all keys and switches.

VERIFICATION

AS lamp lighted.
PK lamp not lighted.
IE, RN, T, and U lamps lighted identifying trunk.

OGT-CS lamp lighted.
High tone heard.
AE lamp lighted.

AS, OGT-CS lamps extinguished.
High tone silenced.
If disconnect entry is provided—
DE lamp lighted.

All lamps extinguished.

AS lamp lighted.
IE, RN, T, and U lamps lighted identifying trunk.

High tone heard while ANS key operated.
AE lamp not lighted.

AS lamp extinguished.

All lamps extinguished.

O. Trunk Seizure and Release—Message Register Trunks *(ETS or LAMA-C not Provided)*

15 Select message rate class of service having access to trunk under test.

16 Momentarily operate ST key.

17 Operate ANS key.

AS lamp lighted.
PK lamp not lighted.

OGT-CS, RP lamps lighted.
High tone heard.
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<th>VERIFICATION</th>
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</thead>
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<tr>
<td>18</td>
<td>Restore TLK, ANS keys.</td>
<td>AS, OGT-CS lamps extinguished. High tone silenced.</td>
</tr>
<tr>
<td>19</td>
<td>Momentarily operate RL key.</td>
<td>All lamps extinguished.</td>
</tr>
<tr>
<td>20</td>
<td>Operate TLK key.</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Momentarily operate ST key.</td>
<td>AS lamp lighted. PK lamp not lighted.</td>
</tr>
<tr>
<td>22</td>
<td>Operate ANS key for 1 to 1 1/2 seconds.</td>
<td>High tone heard while ANS key operated. RP lamp not lighted.</td>
</tr>
<tr>
<td>23</td>
<td>Restore TLK key.</td>
<td>AS lamp extinguished.</td>
</tr>
<tr>
<td>24</td>
<td>Momentarily operate RL key.</td>
<td>All lamps extinguished.</td>
</tr>
<tr>
<td>25b</td>
<td>If announcement trunk is equipped to serve two-party lines— Select party line class of service having access to trunk under service.</td>
<td></td>
</tr>
<tr>
<td>26b</td>
<td>Operate TLK key.</td>
<td></td>
</tr>
<tr>
<td>27b</td>
<td>Operate TP key.</td>
<td></td>
</tr>
<tr>
<td>28b</td>
<td>Momentarily operate ST key.</td>
<td>AS lamp lighted.</td>
</tr>
<tr>
<td>29b</td>
<td>Operate ANS key.</td>
<td>TP, OGT-CS lamps lighted.</td>
</tr>
<tr>
<td>30b</td>
<td>Restore ANS key.</td>
<td>OGT-CS, AS lamp extinguished.</td>
</tr>
<tr>
<td>31b</td>
<td>Momentarily operate RL key.</td>
<td>All lamps extinguished.</td>
</tr>
<tr>
<td>32c</td>
<td>If no other tests are to be made— Restore all keys and switches.</td>
<td></td>
</tr>
</tbody>
</table>

**P. Cancel Disconnect Entry—AMA Trunk When Disconnect Entry Is Provided *(ETS or LAMA-C not Provided)*

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>Select AMA class of service having access to trunk under test.</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Insert make-busy plug into OGT-MB jack of trunk under test.</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Operate NTTS, NTFS keys.</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>At relay rack— Insert 32A test set into RC jack.</td>
<td></td>
</tr>
</tbody>
</table>
STEP | ACTION | VERIFICATION
--- | --- | ---
19 | Momentarily operate white button. | At MTF—
| | | AS lamp lighted.
20 | Operate ANS key. | OGT-CS lamp lighted.
| | | At trunk circuit under test—
| | | MA relay operated.
21b | If trunk is nonwire-spring-relay type—
| | Insulate 2B contact S2 relay. | OGT-CS lamp extinguished.
| | | In 2 to 7 seconds—
| | | AS lamp extinguished.
| | | At trunk circuit under test—
| | | MA relay released.
22c | If trunk is wire-spring-relay type—
| | Insulate 6 break contact S2 relay. | 
23 | At MTF—
| | Restore ANS key, **start timing.** | 
| | | 
24 | At trunk circuit under test—
| | Remove insulator from S2 relay. | 
25 | At MTF—
| | Momentarily operate red button. | 
26 | Remove make-busy plug from OGT-MB jack of trunk under test. | 
27 | Remove 32A test set from RC jack. | 
28d | If no other tests are to be made—
| | Restore all keys. | 

**Q. Trunk Busy Feature**

15 | Select any originating class of service, except coin, having access to trunk under test. | 
16 | Insert make-busy plugs into OGT-MB jack associated with trunk under test. | 
17 | Momentarily operate ST key. | TB lamp lighted.
| | | TB lamp extinguished.
18 | Momentarily operate RL key. | 
19 | Operate NTFS, NTTS keys. | 
20 | Momentarily operate ST key. | If ETS provided—
| | | FT, S1 lamps lighted.
| | | AS lamp lighted.
| | | PK lamp not lighted. |
### Step-by-Step Action

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
</table>
| 21   | Momentarily operate RL key. | • If LAMA-C provided—  
  S1 lamp lighted.  
  All lamps extinguished.  
  • If ETS provided—  
  FT lamp remains lighted.  
  • If ETS provided—  
  FT lamp extinguished.  |
| 22   | Remove make-busy plug from OGT-MB jack associated with trunk under test. |  |
| 23b  | If no other tests are to be made—  
  Restore all keys and switches. |  |

#### R. Trunk Seizure and Release—Tandem Operation

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
</table>
| 15   | Select tandem sub-class of test. | TAN lamp lighted.  
  • If ETS provided—  
  FT lamp lighted.  
  AS lamp lighted.  |
| 16   | Momentarily operate ST key. |  |
| 17   | Operate ANS key. | OGT-CS lamp lighted.  
  High tone heard.  
  • If ETS provided—  
  FT lamp extinguished.  
  OGT-CS, AS lamps extinguished.  
  High tone silenced.  |
| 18   | Restore TLK key. | All lamps extinguished.  
  TAN lamp extinguished.  |
| 19   | Momentarily operate RL key. |  |
| 20b  | If no other tests are to be made—  
  Restore all keys and switches. |  |

#### S. Trunk Guard Test—Non-Tandem Operation

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>Select any originating class of service, except coin, having access to trunk under test.</td>
<td></td>
</tr>
</tbody>
</table>
| 16   | At OGT jack bay—  
  Using associated voltmeter determine polarity of ring conductor of announcement trunk. |  |
| 17   | Insert S3A cord into OGT test jack of trunk under test. |  |
| 18b  | If trunk has battery on the ring—  
  Connect battery to tip and ground to ring of S3A cord. |  |
19c  If trunk has ground on the ring—
    Connect ground to tip and battery to ring of
    S3A cord.

20  At MTF—
    Momentarily operate ST key.

If LAMA-C provided—
    S1 lamp lighted.
If ETS provided—
    FT, S1 lamps lighted.
AS lamp lighted.
Overflow tone heard.
Minor alarm sounds.
AN TRK_ lamp associated with trunk under
test lighted.

21  Momentarily operate AT-AR key.

AN TRK_ lamp extinguished.
Minor alarm silenced.

22  Momentarily operate RL key.

All lamps extinguished.

23  At OGT jack bay—
    Remove test connection.

24d  If no other tests are to be made—
    Restore all keys and switches.

T.  Trunk Guard Test—Tandem Operation

15  Select tandem sub-class of call.

TAN lamp lighted.

16  At OGT jack bay—
    Using associated voltmeter determine polarity
    of ring conductor of announcement trunk.

17  Insert S3A cord into OGT test jack of trunk
    under test.

18b  If trunk has battery on the ring—
    Connect battery to tip and ground to ring of
    S3A cord.

19c  If trunk has ground on the ring—
    Connect battery to ring and ground to tip of
    S3A cord.

20  At MTF—
    Momentarily operate ST key.

If ETS provided—
    FT lamp lighted.
AS lamp lighted.
Overflow tone heard.
Minor alarm sounds.
OGT-CS lamp flashes at overflow frequency
assigned to the office.
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<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>Momentarily operate AT-AR key.</td>
<td>AN TRK_ lamp associated with trunk under test lighted.</td>
</tr>
<tr>
<td>22</td>
<td>Momentarily operate RL key.</td>
<td>AN TRK_ lamp extinguished. Minor alarm silenced.</td>
</tr>
<tr>
<td>23</td>
<td>At OGT jack bay— Remove test connection.</td>
<td>All lamps extinguished.</td>
</tr>
<tr>
<td>24d</td>
<td>If no other tests are to be made— Restore all keys and switches.</td>
<td>TAN lamp extinguished.</td>
</tr>
</tbody>
</table>

U. #Deleted
V. ETS Verification Test

15 Select a class of service having access to trunk under test.
16b If coin class of service— Operate CN key.
17 Momentarily operate ST key. AS, FT, and S1 lamps lighted. PK lamp not lighted.
18 Operate ANS key. OGT-CS and CS lamps lighted. High tone heard.
19 Restore TLK key. If coin class of service— CC lamp momentarily lighted. CND lamp lighted.
20 Momentarily restore CN key. CND lamp extinguished.
21 Momentarily operate RL key. All lamps extinguished.
22 Restore ANS key. |
23 Operate TLK key. FT lamp lighted.
24 Insert make-busy plug into MB_jack associated with trunk under test. TB lamp lighted.
25 Momentarily operate ST key. *Verifies trunk cannot be seized for service when manually made busy.*
26 Momentarily operate RL key. All lamps extinguished.
27 Operate NTFS, NTTS keys.
### Step-by-Step Guide

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
<th>Verification</th>
</tr>
</thead>
<tbody>
<tr>
<td>28</td>
<td>Momentarily operate ST key.</td>
<td>S1 and AS lamps lighted. PK lamp not lighted. <em>Verifies trunk can override a manual made-busy condition for testing.</em></td>
</tr>
<tr>
<td>29</td>
<td>Operate ANS key.</td>
<td>OGT-CS, CS lamps lighted. High tone heard.</td>
</tr>
<tr>
<td>30</td>
<td>Restore ANS key—<em>start timing.</em></td>
<td>OGT-CS, CS lamps extinguished. High tone silenced. In 13 to 32 seconds— S1 and AS lamps extinguished. If coin class of service— CC lamp momentarily lighted. CND lamp lighted.</td>
</tr>
<tr>
<td>31</td>
<td>Momentarily operate RL key.</td>
<td>All lamps extinguished, except FT lamp.</td>
</tr>
<tr>
<td>32</td>
<td>Remove make-busy plug from MB jack of trunk under test.</td>
<td>FT lamp extinguished.</td>
</tr>
<tr>
<td>33c</td>
<td>If no further tests are to be made— Restore all keys and switches.</td>
<td></td>
</tr>
</tbody>
</table>

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