

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

**1. GENERAL**

**PAGE**

**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**

**PAGE**

**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. . . . .

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**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. . . . .

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**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. . . . .

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**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. . . . .

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**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. . . . .

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<b>F. Trunk Busy Feature:</b> This test checks that the trunk tests busy on a service basis but can be seized on a no-test basis when made busy. . . . .	10	and regular release features of the trunk. . . . .	15
<b>G. Trunk Seizure and Release—Tandem Operation:</b> 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. . . . .	10	<b>N. Trunk Seizure and Release—AMA Trunks (ETS or LAMA-C Not Provided):</b> This test checks the seizure, charging, supervision, and regular release features of the trunk. . . . .	15
<b>H. Trunk Guard Test—Non-Tandem Operation:</b> 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. . . . .	11	<b>O. Trunk Seizure and Release—Message Register Trunks (ETS or LAMA-C Not Provided):</b> This test checks the seizure, charging, supervision, and regular release features of the trunk. . . . .	16
<b>I. Trunk Guard Test—Tandem Operation:</b> 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. . . . .	12	<b>P. Cancel Disconnect Entry—AMA Trunks When Disconnect Entry Is Provided (ETS or LAMA-C Not Provided):</b> This test checks the ability of the trunk to release and prevent false overcharging when a disconnect entry cannot be made. . . . .	17
<b>J. Timed Release Feature:</b> 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. . . . .	13	<b>Q. Trunk Busy Feature:</b> This test checks that the trunk tests busy on a service basis but can be seized on a no-test basis when made busy. . . . .	18
<b>K. Deleted</b>		<b>R. Trunk Seizure and Release—Tandem Operation:</b> This test checks the seizure, supervision, and release features of the trunk for tandem operation. . . . .	18
<b>OGT CLASS OF TEST</b>		<b>S. Trunk Guard Test—Non-Tandem Operation:</b> 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. . . . .	19
<b>L. Trunk Seizure and Release—Flat Rate Trunks:</b> This test checks the seizure, supervision, and regular release features of the trunk. . . . .	14	<b>T. Trunk Guard Test—Tandem Operation:</b> 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	

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trunk has been seized during a charge period of the incoming announcement trunk circuit for tandem operation. . . . 20

**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. . . . 20

**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,

use the procedure given in the following sections for the office arrangement.

218-798-308—Taking LAMA-C Equipment Out-of-Service.

218-799-701—Taking ETS Equipment Out-of-Service.

**1.09** The statement between asterisks (\* \*) after action or verification statements is added to clarify the function being simulated in the test procedures.

**1.10** 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.

## 2. APPARATUS

### All Tests

**2.01** Master test control circuit (SD-25800-01).

**2.02** Trunk test circuit (SD-25918-01).

**Tests E, F, P, Q, and V**

**2.03** 322A (make-busy) plug.

### Test E

**2.04** Head telephone set.

**Tests E, P, and V**

**2.05** 32A test set.

**2.06** KS-3008 stopwatch, or equivalent.

**Tests H, I, S, and T**

**2.07** Testing cord, S3A cord, 6 feet long, equipped with a 309 plug (switchboard cord), modified as follows: cut off spade-shaped portion at end

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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.

**3. PREPARATION**

Refer to 1.08 and 1.10 when office is

**Tests J, P, and V**

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

<b>STEP</b>	<b>ACTION</b>	<b>VERIFICATION</b>
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**All Tests**

- |   |  |                         |
|---|--|-------------------------|
| 1 | At master test frame—<br>Restore all keys and switches.                |                         |
| 2 | Momentarily operate RL key.  | All lamps extinguished. |
| 3 | Select trunk.  |                         |
| 4 | Select A through K digits as required for route to trunk under test.   |                         |
| 5 | Operate GPA/GPB key when trunk under test is in an allotted group.     |                         |
| 6 | Select originating class of call and associated translator indication. |                         |
| 7 | Select route advance as required.                                      |                         |
| 8 | Select completing marker.  |                         |
| 9 | Operate TLK, KY keys.  |                         |

**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—<br>Operate PCS key.<br>*Allows selected class of service to be used.* |  |
| 12a | Operate PTS key.<br>*Allows selection of trunk.*                                       |  |

**Tests A Through K**

- |    |                            |  |
|----|----------------------------|--|
| 13 | Select MISC class of test. |  |
|----|----------------------------|--|

STEP	ACTION	VERIFICATION
<b>Tests L Through U</b>		
14	Select OGT class of test.	
<b>4. METHOD</b>		
<b>MISC Class of Test</b>		
<b>A. Trunk Seizure and Release—Flat Rate Trunks</b>		
14	Select flat rate class of service having access to trunk under test.	
15	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. Audible ring heard until announcement starts. Complete announcement heard. ♦If ETS or LAMA-C provided— CS lamp lighted.
16	Restore TLK key.	AS lamp extinguished. ♦If ETS provided— FT, CS, S1 lamps extinguished. If LAMA-C provided— CS, S1 lamps extinguished.♦
17	Momentarily operate RL key.	All lamps extinguished.
18b	If no other tests are to be made— Restore all keys and switches.	
<b>B. Trunk Seizure and Release—Coin Trunks</b>		
14	Select coin class of service having access to trunk under test.	
15	Operate CN key.	
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. Audible ring heard until announcement starts. Complete announcement heard. ♦If ETS or LAMA-C provided— CS lamp lighted.♦

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STEP	ACTION	VERIFICATION
17	Restore TLK key.  ◆ <b>Note:</b> The determination as to whether a charge condition should be established on this type of call rests with local operating companies rate structure.◆	◆If charge condition established— CC lamp lighted momentarily. If no charge condition established— CR lamp lighted momentarily.◆ CND lamp lighted. AS lamp extinguished. ◆If ETS provided— FT, CS, S1 lamps extinguished. If LAMA-C provided— CS, S1 lamps extinguished.◆
18	Restore CN key.	CND lamp extinguished.
19	Momentarily operate RL key.	All lamps extinguished.
20	Operate CN and TLK keys.	
21	Momentarily operate ST key.	◆If LAMA-C provided— S1 lamp lighted. If ETS provided— FS, S1 lamps lighted.◆ AS lamp lighted.
22	Restore TLK key immediately following the lighting of the AS lamp and before the announcement starts.	If announcement is not heard— CR lamp lighted momentarily. ◆If announcement is heard— CC lamp lighted momentarily.◆ CND lamp lighted. AS lamp extinguished. ◆If ETS provided— FT, S1 lamps extinguished. If LAMA-C provided— S1 lamp extinguished.◆
23b	If an announcement is heard— Restore CN key.	CND lamp extinguished.
24b	Repeat Steps 19 through 22.	
25	Restore CN key.	CND lamp extinguished.
26	Momentarily operate RL key.	All lamps extinguished.
27c	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)◆**

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

STEP	ACTION	VERIFICATION
15	Momentarily operate ST key.	AS lamp lighted. PK lamp not lighted. Audible ring heard until announcement starts. Announcement heard. IE, RN-, T-, and U-lamps lighted identifying trunk. When announcement starts— AE lamp lighted.
16	Restore TLK key.	AS lamp extinguished. If disconnect entry is provided— DE lamp lighted.
17	Momentarily operate RL key.	All lamps extinguished.
18	Operate TLK key.	
19	Momentarily operate ST key.	AS lamp lighted. IE, RN-, T-, and U-lamps lighted identifying trunk. AE lamp not lighted. Audible ring heard.
20	Restore TLK key immediately following the lighting of the AS lamp and before the announcement starts.	If announcement is not heard— AS lamp extinguished. DE lamp not lighted.
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.	

**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.	
15	Momentarily operate ST key.	AS lamp lighted. PK lamp not lighted. Audible ring heard until announcement starts. When announcement starts— RP lamp lighted. Complete announcement heard.
16	Restore TLK key.	AS lamp extinguished.
17	Momentarily operate RL key.	RP lamp extinguished.

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STEP	ACTION	VERIFICATION
18	Operate TLK key.	
19	Momentarily operate ST key.	AS lamp lighted. Audible ring heard. RP lamp not lighted.
20	Restore TLK key immediately following the lighting of the AS lamp and before the announcement starts.	If announcement is not heard— AS lamp 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 announcement trunk is equipped to serve two-party lines— Select party line class of service having access to trunk under test.	
24c	Operate TLK key.	
25c	Operate TP key.	
26c	Momentarily operate ST key.	AS lamp lighted. Audible ring heard until announcement starts. When announcement starts— TP lamp lighted. Complete announcement heard.
27c	Restore TLK key.	AS lamp extinguished.
28c	Momentarily operate RL key.	All lamps extinguished.
29d	If no other tests are to be made— Restore all keys and switches.	
<b>E. Cancel Disconnect Entry—AMA Trunks When Disconnect Entry is Provided (ETS or LAMA-C not Provided)</b>		
14	Select AMA class of service having access to trunk under test.	
15	Operate NTFS, NTTS keys.	
16	Operate LOC FR L key.	
17	At OGT jack bay— Insert make-busy plug into OGT-MB jack of trunk under test.	

STEP	ACTION	VERIFICATION
18	At trunk equipment— Insert plug of headset into frame line telephone jacks.	
19	Insert 32A test set into RC_ jack.	
20	Momentarily operate white button.	Announcement heard. MA relay operates after start of announcement.
21b	If trunk is nonwire-spring-relay type— Insulate 2B contact S2 relay.	
22c	If trunk is wire-spring-relay type— Insulate 6 break contact S2 relay.	
23	Momentarily operate red button.	S1 relay released. In 2 to 7 seconds— MA relay released.
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

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

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

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

14	Select tandem subclass of test.	TAN lamp lighted.
15	Momentarily operate ST key.	♦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.
16	Restore TLK key.	OGT-CS, AS lamps extinguished. ♦If ETS provided— FT lamp extinguished.♦
17	Momentarily operate RL key.	All lamps extinguished.
18b	If trunk has ground on the ring— Restore all keys and switches.	TAN lamp extinguished.

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

14	Select any originating class of service, except coin, having access to trunk under test.	
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.	
19	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.
20	Momentarily operate AT-AR key.	AN TRK- lamp extinguished. Minor alarm silenced.
21	Momentarily operate RL key.	AS lamp extinguished. ◆If ETS provided— FT, S1 lamps extinguished. If LAMA-C provided— S1 lamp extinguished.◆
22	At OGT jack bay— Remove test connection.	
23d	If no other tests are to be made— At MTF— Restore all keys and switches.	
<b>I. Trunk Guard Test—Tandem Operation</b>		
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.	
16	Insert S3A cord into OGT test jack of trunk under test.	
17b	If trunk has battery on the ring— Connect battery to tip and ground to ring of S3A cord.	
18c	If trunk has ground on the ring— Connect battery to ring and ground to tip of S3A cord.	
19	At MTF— Momentarily operate ST key.	◆If ETS provided— FT lamp lighted.◆ AS lamp lighted.

STEP	ACTION	VERIFICATION
		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.
20	Momentarily operate AT-AR key.	AN TRK- lamp extinguished. Minor alarm silenced.
21	Momentarily operate RL key.	AS lamp extinguished. ◆If ETS provided— FT lamp extinguished.◆
22	At OGT jack bay— Remove test connection.	
23d	If no other tests are to be made— Restore all keys and switches.	TAN lamp extinguished.

**J. Timed Release Feature**

14	Select flat rate class of service having access to trunk under test.	
15	Momentarily operate ST key.	◆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.◆
		<b>Note:</b> 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.	All lamps extinguished.
17b	If no other tests are to be made— Restore all keys and switches.	

STEP	ACTION	VERIFICATION
K. Deleted		
<b>OGT CLASS OF TEST</b>		
<b>L. Trunk Seizure and Release—Flat Rate Trunks</b>		
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.	
21	Momentarily operate ST 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.
22	Restore ANS 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.
23	Momentarily operate RL key.	All lamps extinguished.
24b	If no other tests are to be made— Restore all keys and switches.	

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STEP	ACTION	VERIFICATION
<b>M. Trunk Seizure and Release—Coin Trunks</b>		
15	Select coin class of service having access to trunk under test.	
16	Operate CN key.	
17	Momentarily operate ST key.	♦If ETS provided— FT, S1, lamps lighted.♦ AS lamp lighted. PK lamp not lighted.
18	Operate ANS key.	♦OGT-CS lamp lighted.♦ High tone heard. ♦If ETS provided— CS lamp lighted.♦
19	Restore TLK key.	CC lamp lighted momentarily. CND lamp lighted. AS, OGT-CS lamps extinguished. High tone silenced. ♦If ETS provided— FT, S1, CS lamps extinguished.♦
20	Restore CN key.	CND lamp extinguished.
21	Momentarily operate RL key.	All lamps extinguished.
22	Restore ANS key.	
23	Operate CN, TLK keys.	
24	Momentarily operate ST key.	♦If ETS provided— FT, S1 lamps lighted.♦ AS lamp lighted.
25	Operate ANS key for 1 to 1 1/2 seconds.	♦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.♦
26	Restore TLK key.	CR lamp momentarily lighted. CND lamp lighted. AS lamp extinguished. ♦If ETS provided— FT, S1 lamps extinguished.♦
27	Momentarily operate RL key.	All lamps extinguished.
28b	If no other tests are to be made— Restore all keys and switches.	

STEP	ACTION	VERIFICATION
<b>N. Trunk Seizure and Release—AMA Trunks (ETS or LAMA-C not Provided)</b>		
15	Select AMA class of service having access to trunk under test.	
16	Momentarily operate ST key.	AS lamp lighted. PK lamp not lighted. IE, RN_, T_, and U_ lamps lighted identifying trunk.
17	Operate ANS key.	OGT-CS lamp lighted. High tone heard. AE lamp lighted.
18	Restore TLK key.	AS, OGT-CS lamps extinguished. High tone silenced. If disconnect entry is provided— DE lamp lighted.
19	Momentarily operate RL key.	All lamps extinguished.
20	Restore ANS key.	
21	Operate TLK key.	
22	Momentarily operate ST key.	AS lamp lighted. IE, RN_, T_, and U_ lamps lighted identifying trunk.
23	Operate ANS key for 1 to 1 1/2 seconds.	High tone heard while ANS key operated. AE lamp not lighted.
24	Restore TLK key.	AS lamp extinguished.
25	Momentarily operate RL key.	All lamps extinguished.
26b	If no other tests are to be made— Restore all keys and switches.	
<b>O. Trunk Seizure and Release—Message Register Trunks (ETS or LAMA-C not Provided)</b>		
15	Select message rate class of service having access to trunk under test.	
16	Momentarily operate ST key.	AS lamp lighted. PK lamp not lighted.
17	Operate ANS key.	OGT-CS, RP lamps lighted. High tone heard.

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

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

15	Select AMA class of service having access to trunk under test.
16	Insert make-busy plug into OGT-MB jack of trunk under test.
17	Operate NTTS, NTFS keys.
18	At relay rack— Insert 32A test set into RC jack.

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.	
22c	If trunk is wire-spring-relay type— Insulate 6 break contact S2 relay.	
23	At MTF— Restore ANS key, <i>start timing</i> .	OGT-CS lamp extinguished. In 2 to 7 seconds— AS lamp extinguished. At trunk circuit under test— MA relay released.
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.
18	Momentarily operate RL key.	TB lamp extinguished.
19	Operate NTFS, NTTS keys.	
20	Momentarily operate ST key.	◆If ETS provided— FT, S1 lamps lighted.◆ AS lamp lighted. PK lamp not lighted.

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

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

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

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

15	Select any originating class of service, except coin, having access to trunk under test.	
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.	

STEP	ACTION	VERIFICATION
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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STEP	ACTION	VERIFICATION
		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.	TAN lamp extinguished.

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.	
24	Insert make-busy plug into MB_jack associated with trunk under test.	FT lamp lighted.
25	Momentarily operate ST key.	TB lamp lighted. *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	ACTION	VERIFICATION
28	Momentarily operate ST key.	S1 and AS lamps lighted. PK lamp not lighted. *Verifies trunk can override a manual made-busy condition for testing.*
29	Operate ANS key.	OGT-CS, CS lamps lighted. High tone heard.
30	Restore ANS key— <i>start timing</i> .	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.
31	Momentarily operate RL key.	All lamps extinguished, except FT lamp.
32	Remove make-busy plug from MB_ jack of trunk under test.	FT lamp extinguished.
33c	If no further tests are to be made— Restore all keys and switches.⚡	

