

ANI OUTGOING TRUNKS  
TESTS USING TRUNK TEST CIRCUIT SD-27587-01

NO. 1 CROSSBAR OFFICES WITH AMA

1. GENERAL

1.01 This section describes a method of testing ANI operator assistance or special toll, either coin or noncoin, outgoing trunks.

1.02 The tests covered are:

A. *Trunk Seizure*: This test checks the ability of the trunk circuit to respond to a seizure from the calling end.

B. *Tandem Wink*: This test checks the ability of the trunk circuit to respond to a momentary (minimum of 40 to 55 milliseconds) off-hook condition from the crossbar tandem end.

C. *District Junctor Cut-Through*: This test checks the ability of the trunk circuit to recognize that the district junctor has been cut through.

D. *Ringback — Noncoin Trunk*: This test checks the ability of a noncoin trunk circuit to respond to a ringback signal, applied at the crossbar tandem end, by applying ringing voltage to the calling end.

E. *Crossbar Tandem Release*: This test checks that the trunk circuit will return to an idle condition when a disconnect signal is received from the crossbar tandem.

F. *Calling End Release*: This test checks that the trunk circuit will forward a calling customer's disconnect signal to the crossbar tandem and return to an idle condition when a disconnect signal is received from the crossbar tandem.

G. *Ringback — Coin Trunk*: This test checks the ability of a coin trunk circuit to respond to a ringback signal.

H. *Coin Collect — Coin Trunk*: This test checks the ability of a coin trunk circuit to respond to a minimum duration coin collect signal.

I. *Coin Return — Coin Trunk*: This test checks the ability of a coin trunk circuit to respond to a coin return signal.

J. *Tandem Make Busy*: This test checks the ability of the trunk circuit to make itself busy when in an idle condition on receipt of an off-hook condition.

1.03 Part 3 provides a busy test of the particular trunk circuit under test as a prerequisite to performing any test. Should the trunk circuit be released to normal service before testing is complete, Part 3 must be repeated before testing is resumed.

1.04 Tests A, B, C, E, F, and I apply to both coin and noncoin trunk circuits.

1.05 Tests G, H, and I apply to only coin trunk circuits.

1.06 Test D applies to only noncoin trunk circuits.

1.07 *Lettered Steps*: A letter a, b, c, etc, added to a step number in Part 3 or 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.

**SECTION 216-815-501**

Where a condition does not apply, all steps designated by that letter should be omitted.

**2. APPARATUS**

**All Tests**

**2.01** Trunk test circuit SD-27587-01.

**2.02** P5F cord.

**2.03** P3E cord, 12 feet long, equipped with two 310 plugs (3P6G cord).

**2.04** P3K cord, 12 feet long, equipped with two 310 plugs (3P15B cord).

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**3. PREPARATION**

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

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| 1 | At trunk test circuit —<br>Restore all keys to normal.   |  |
| 2 | Connect one plug of P3E cord to T1 jack.   |  |
| 3 | Connect one plug of P3K cord to T2 jack.   |  |
| 4 | Connect socket of P5F cord to P jack.  |  |
| 5 | At miscellaneous circuit on relay rack —<br>Insert plug of P5F cord into P jack.   | At trunk test circuit —<br>IDL lamp lighted. |
| 6 | At trunk test circuit —<br>Set MTS switch to TRK BUSY TEST.  |  |
| 7 | At trunk circuit under test —<br>Touch plug tip of P3E cord to sleeve of T1 jack. If IDL lamp remains lighted, insert plug into T1 jack. If IDL lamp is not lighted, do not proceed. |  |

*Note:* IDL lamp lighted indicates trunk circuit is idle. If IDL lamp is extinguished, it indicates trunk circuit is busy.

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| 8 | Insert plug of P3E cord into T1 jack and plug of P3K cord into T2 jack. |  |
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**4. METHOD**

<b>STEP</b>	<b>ACTION</b>	<b>VERIFICATION</b>
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**A. Trunk Seizure**

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| 9 | At trunk test circuit —<br>Set MTS switch to TRK SEIZURE. |  |
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|----|-----------------|---|
| 10 | Operate ST key. | At trunk test circuit —<br>OK lamp lighted. |
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STEP	ACTION	VERIFICATION
11	Release ST key.	OK lamp extinguished.
12a	If no other test is to be performed — Remove all cords.	
<b>B. Tandem Wink</b>		
9	At trunk test circuit — Set MTS switch to TANDEM WINK.	
10	Operate ST key.	At trunk test circuit — OK lamp lighted.
11	Release ST key.	OK lamp extinguished.
12a	If no other test is to be performed — Remove all cords.	
<b>C. District Junctor Cut-Through</b>		
9	At trunk test circuit — Set MTS switch to JUNCTOR CUT THRU.	
10	Operate ST key.	At trunk test circuit — OK lamp lighted.
11	Release ST key.	OK lamp extinguished.
12a	If no other test is to be performed — Remove all cords.	
<b>D. Ringback — Noncoin Trunk</b>		
9	At trunk test circuit — Set MTS switch to RING BACK NONCOIN.	
10	Operate ST key.	At trunk test circuit — OK lamp lighted.
11	Release ST key.	OK lamp extinguished.
12a	If no other test is to be performed — Remove all cords.	
<b>E. Crossbar Tandem Release</b>		
9	At trunk test circuit — Set MTS switch to TANDEM RELEASE.	
10	Operate ST key.	At trunk test circuit — OK lamp lighted.
11	Release ST key.	OK lamp extinguished.
12a	If no other test is to be performed — Remove all cords.	

STEP	ACTION	VERIFICATION
<b>F. Calling End Release</b>		
9	At trunk test circuit — Set MTS switch to CALLING END RELEASE.	
10	Operate ST key.	At trunk test circuit — OK lamp lighted.
11	Release ST key.	OK lamp extinguished.
12a	If no other test is to be performed — Remove all cords.	
<b>G. Ringback — Coin Trunk</b>		
9	At trunk test circuit — Set MTS switch to RING BACK COIN.	
10	Operate ST key.	At trunk test circuit — OK lamp lighted.
11	Release ST key.	OK lamp extinguished.
12a	If no other test is to be performed — Remove all cords.	
<b>H. Coin Collect — Coin Trunk</b>		
9	At trunk test circuit — Set MTS switch to COIN COLLECT.	
10a	If office is equipped with —120 volt coin collect potential — Operate RV key.	
11	Operate ST key.	At trunk test circuit — OK lamp lighted.
12	Release ST key.	OK lamp extinguished.
13a	If office is equipped with —120 volt coin collect potential — Release RV key.	
14b	If no other test is to be performed — Remove all cords.	
<b>I. Coin Return — Coin Trunk</b>		
9	At trunk test circuit — Set MTS switch to COIN RETURN.	
10a	If office is equipped with —120 volt coin return potential — Operate RV key.	

STEP	ACTION	VERIFICATION
11	Operate ST key.	At trunk test circuit — OK lamp lighted.
12	Release ST key.	OK lamp extinguished.
13a	If office is equipped with —120 volt coin return potential — Release RV key.	
14b	If no other test is to be performed — Remove all cords.	

#### J. Tandem Make Busy

9	At trunk test circuit — Set MTS switch to TANDEM MAKE BUSY.	
10	Operate ST key.	At trunk test circuit — OK lamp lighted.
11	Release ST key.	OK lamp extinguished.
12a	If no other test is to be performed — Remove all cords.	

