AUTOMATIC NUMBER IDENTIFICATION OUTGOING TRUNKS
TESTS USING AUTOMATIC TRUNK TEST CIRCUIT SD-95889-01
NO. 1 CROSSBAR OFFICES

1. GENERAL

1.01 This section describes a method of testing automatic number identification (ANI) outgoing trunk circuits arranged for MF or PCI pulsing by using the automatic trunk test circuit SD-95889-01. The automatic feature of the trunk test circuit permits each ANI trunk in the office to be tested in turn until all have been checked. Also, any particular trunk may be selected and tested individually.

1.02 This section is reissued for the following reasons:

(a) To add paragraphs 1.05 and 2.03
(b) In paragraph 1.03, add information under Test E
(c) In Part 3, PREPARATION:
   (1) Add notes to Steps 3a and 5c
   (2) Add Step 8e
(d) In Part 4, METHOD:
   (1) Combine STEP, ACTION, VERIFICATION for Tests A, B, and C
   (2) Add Step 10e to Tests A, B, C, and E
   (3) Change Test F, Steps 5a and 9b verification, to "3 to 6.24 seconds."

1.03 The tests covered are:

A. Individual or Ring Party: This test checks the following features:

1) On all types of trunks, marginal test of trunk supervisory relays
2) On all types of trunks, continuity and polarity test of trip and ring circuits
3) On all types of trunks, calling party identification
4) On PCI trunks only, end-of-pulse signal
5) On MF trunks only, wink signal and normal presentation of a high bridge circuit to the CAMA office by the trunk
6) On special toll and operator-assistance trunks, terminating holding circuit
7) On special toll and operator-assistance trunks, ringback circuit
8) On special toll and operator-assistance coin trunks, coin return (CR) and coin collect (CC)
9) On coin ANI trunks, positive talking battery to the calling station from trunks arranged for dial-tone-first operation
B. Tip-Party: This test checks the trunk TP relay.

C. Timed Release: This test checks proper functioning of the trunk on a call where the called party disconnects and the calling party does not.

D. Transmission Measuring: This test checks that the trunk meets the transmission requirements specified in the particular trunk circuit.

Abandoned Call: This test checks that the person-to-person coin trunk will time out and release on an abandoned call and the initial coin deposit is automatically returned.

F. Manual Time-Out Control: This test checks the 3 to 6.24 second time-out interval.

G. Manual Test of RV Thermistor: This test checks the release action caused by the thermistor in the event of a trunk lockup condition and is performed on MF pulsing trunks only.

1.04 During Tests A through E, the repeat single test (RST), pass busy (PB), and circuit tested (CT) registers will score. These register operations should be reported in accordance with local instructions.

1.05 In offices equipped for automatic trouble analysis (ATA), a feature has been provided to record failures at the ATA location (RATA). By inserting a 329A plug into the RATA jack, the RATA lamp lighted signifies that this feature is operational.

2. Apparatus

Tests A Through E

2.01 Automatic trunk test circuit, SD-95889-01.

2.02 Outpulser identifier test circuit, SD-95815-01.

Tests F and G

2.06 KS-3008 stopwatch or equivalent.

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

2.08 WIU patching cord equipped with one 2-test clip per specification AT6928 and one KS-6780 connecting clip with a 108 cord tip (rubber insulation).

3. Preparation

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tests A Through E</td>
<td>At outpulser-identifier trunk test frame—Restore all keys.</td>
</tr>
</tbody>
</table>

Verification
2. Momentarily operate RN key.

3a. If busy trunks are to be passed by—
Operate PB key.

★Note: If the RATA feature is to be used, the PB key must be operated.

4b. If a particular trunk is to be tested—
Operate MS, XC-PCS, S-PCS, H-PCS, and SWT or SWS key to select trunk.

5c. If repeated tests of a particular trunk are required—
Operate REP key.

★Note: If the RATA feature is to be used, the REP key must be normal.

6d. If special toll coin trunks are provided—
Operate CC or CR key.

7. Operate keys listed in Table A for test to be made.

Note: With PB key normal, if busy trunk becomes idle within 2 minutes, test circuit will proceed automatically. If trunk is busy more than 2 minutes, the alarm is sounded and the test circuit must have the CA key operated momentarily to advance.

★Tests A, B, C, and E

8e. If office is equipped with automatic trouble analysis (ATA) having the record with ATA (RATA) feature and it is to be used for this test—
Insert the 329A plug into the RATA jack.

★RATA lamp lighted.

4. METHOD

STEP ACTION VERIFICATION

A. Individual or Ring Party At completion of test of each trunk, ST7, ST10 lamps extinguished.

B. Tip Party At completion of each cycle, EC lamp lighted.

C. Timed Release

9. Operate ST key.
### TABLE A

<table>
<thead>
<tr>
<th>BSP TEST</th>
<th>TT</th>
<th>OFF 0</th>
<th>THO 0</th>
<th>HO 0</th>
<th>TO 0</th>
<th>UO 0</th>
<th>TP</th>
<th>TMD</th>
<th>TRMS</th>
<th>AB2</th>
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<tbody>
<tr>
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<td>—</td>
<td>✓</td>
</tr>
</tbody>
</table>

*Note:* Check (/) means operated; (—) means nonoperated.

10e If office is equipped with ATA having the RATA feature and it was used for this test—Remove 329A plug from the RATA jack.

11 Momentarily operate RN key.

12 Restore all keys not required for next test.

### D. Transmission Measuring

*Note:* Transmission measuring set 23A must be calibrated properly.

8 Connect patching cord from 23A transmission measuring set MEAS jack to TM IN jack on test frame.

9 Operate ST key.

10e When testing trunks in order of appearance on test switch—Momentarily operate CA key.

11f When not testing trunks in order of appearance on test switch—Momentarily operate RN key.

12 Remove patching cord.
E. Abandoned Call

**Note:** If the test frame is equipped with the ARID (automatic return of initial deposit) key, it will test for the ARID feature only on those trunks so equipped, when the key is operated. The test frame will block when testing coin trunks not equipped with this feature. With a plug in the RATA jack, a failure is recorded at the ATA location and the test circuit is advanced. The analyzer should disregard this type of failure.

9. Operate ST key.

10c. If office is equipped with ATA having the RATA feature and it was used for this test—Remove 329A plug from the RATA jack.

11. Momentarily operate RN key.

12. Restore all keys.

F. Manual Time-Out Control

1. At trunk circuit—Connect ground to terminal strip B punching 28 (MF pulsing trunks) or 30 (PCI pulsing trunks).

   **Note:** This ground will make the trunk busy to the originating office.

2a. If trunk is an MF pulsing trunk—At outgoing trunk circuit—Insulate 1M of SI relay.

3a. Block operated ON relay.

4a. Block operated CS2 relay.

5a. Manually operate CT1 relay.

   Within 3 to 6.24 seconds—SP relay operated.

6a. Remove blocking and insulating tools from ON, CS2, and SI relays.

   SP relay released.
SECTION 216-910-501

**STEP** | **ACTION** | **VERIFICATION**
--- | --- | ---
7b | If trunk is PCI pulsing trunk—Insulate 1M of CT1 relay. | 
8b | Block operated ON relay. | 
9b | Manually operate CT1 relay. | Within 3 to 6.24 seconds—SP relay operated. 
10b | Remove blocking and insulating tools from ON, CT1 relays. | SP relay released. 
11 | Remove ground from punching on terminal strip B. | 
12 | Repeat Steps 1 through 11 for each trunk tested. | 

**G. Manual Test of RV Thermistor**

1 | At trunk circuit—Connect ground to terminal strip B punching 28. | 

*Note:* This ground will make the MF pulsing trunk busy to the originating office.

2 | Block SI relay operated. | Within 1 to 10 seconds—RV relay operated. 
3 | Release SI relay. | RV relay released. 
4 | Remove ground from punching on terminal strip B. | 
5 | Repeat Steps 1 through 4 for each trunk tested. |