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."

Revision arrows have been used to denote significant changes. This reissue does not affect the Equipment Test List.

1.03 The tests covered are:

PAGE

NOTICE
Not for use or disclosure outside the
Bell System except under written agreement

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.◀

1.06 ***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.

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 A, B, C, and E

2.03 329A plug.◀

Test D

2.04 23A transmission measuring set or equivalent.

2.05 Patching cord, P3E cord, 4 feet long, equipped with two 310 plugs (3P7E cord) to connect transmission measuring set to test frame jacks.

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 W1U 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

STEP	ACTION	VERIFICATION
Tests A Through E		
1	At outpulser-identifier trunk test frame—Restore all keys.	

STEP	ACTION	VERIFICATION
2	Momentarily operate RN key.	All lamps extinguished.
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.	XC_, S_, H_ lamps lighted.
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 **B. Tip Party** **C. Timed Release**		
9	Operate ST key.	At completion of test of each trunk, ST7, ST10 lamps extinguished. At completion of each cycle, EC lamp lighted.

STEP	ACTION	VERIFICATION

TABLE A

BSP TEST	OPERATE KEYS (See Note.)									
	TT	OFF 0	THO 0	HO 0	TO 0	UO 0	TP	TMD	TRMS	AB2
A	✓	✓	✓	✓	✓	✓	—	—	—	—
B	✓	✓	✓	✓	✓	✓	✓	—	—	—
C	✓	✓	✓	✓	✓	✓	—	✓	—	—
D	✓	✓	✓	✓	✓	✓	—	—	✓	—
E	✓	✓	✓	✓	✓	✓	—	—	—	✓

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.	RATA lamp extinguished.◀
11	Momentarily operate RN key.	All lamps extinguished.
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.	Meter indicates transmission loss specified in SD for trunk under test.
10e	When testing trunks in order of appearance on test switch— Momentarily operate CA key.	Test circuit advances to next trunk. Meter indicates transmission loss specified in SD for trunk under test.
11f	When not testing trunks in order of appearance on test switch— Momentarily operate RN key.	All lamps extinguished.
12	Remove patching cord.	

STEP	ACTION	VERIFICATION
13	Restore all keys not required for next test.	

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.	At completion of test of each trunk, BY lamp lighted. At completion of each cycle, EC lamp lighted.
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.	RATA lamp extinguished.
11	Momentarily operate RN key.	All lamps extinguished.
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.

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.	