

NO. 4A ANNOUNCEMENT SYSTEM  
ANNOUNCEMENT TRUNKS  
TESTS

1. GENERAL

1.01 This section describes a method of testing announcement trunks in the No. 4A (Time of Day Announcement System).

1.02 The tests and features tested cover operation tests of trunks in No. 1 crossbar, No. 1 crossbar tandem, panel, panel tandem, No. 5 crossbar, step-by-step and manual or No. 1 tandem offices as follows:

(A) No. 1 Crossbar and Crossbar Tandem Offices (PCI Trunks)

The features tested are:

- (a) Seizure.
- (b) Supervision.
- (c) Ringing.
- (d) Time Announcement.
- (e) Release.

(B) Panel and Panel Tandem Offices (PCI Trunks)

Features tested same as for Test (A).

(C) No. 1 Crossbar Offices (Operator Class Trunks)

Features tested same as for Test (A).

(D) Panel Offices (Operator Class Trunks)

Features tested same as for Test (A).

(E) No. 5 Crossbar Offices

Features tested same as for Test (A).

(F) Step-by-Step Offices

Features tested same as for Test (A) and digit absorbing.

(G) Manual Local or No. 1 Tandem Offices

Features tested same as for Test (A).

1.03 These tests should preferably be made during periods of light traffic.

2. APPARATUS

Tests (A) and (C)

2.01 Operator telephone set.

2.02 P3F cord equipped with one No. 309 plug and one No. 310 plug (3P12B).

2.03 Outgoing Trunk Test Frame (SD-25177-01).

Tests (B) and (D)

2.04 Operator telephone set.

2.05 Outgoing Trunk Test Board (SD-21610-01).

2.06 No. P3F cord equipped with one No. 309 plug and one No. 310 plug (3P12B).

Test (E)

2.07 Master Test Control Circuit (SD-25800-01).

2.08 No. 322A (make busy) plug.

2.09 Trunk Test Circuit (SD-25918-01).

2.10 Master Test Frame Telephone, Key and Lamp Circuit (SD-25744-01).

2.11 Miscellaneous Circuit, Master Test Frame (SD-25574-01).

Test (F)

2.12 Trunk Test Set Circuit (SD-90469-02).

2.13 Operator telephone set.

2.14 No. P2J cord equipped with two No. 310 plugs (2P9A). This cord is used where a battery supply jack is available.

2.15 No. W2M cord equipped with one No. 310 plug (tip and sleeve connections) and two No. 54 and two No. 90 cord tips (2W12A). This cord is used in place of the P2J cord where a battery supply jack is not available.

2.16 One P3C cord, equipped with two No. 310 plugs (3P7A).

Test (G)

2.17 Operator telephone set.

SECTION 201-509-502

3. METHOD

<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
<u>(A) No. 1 Crossbar and Crossbar Tandem Offices (PCI Trunks)</u>		
1	At outgoing trunk test frame, insert plug of operator telephone set into A & B jacks	
2	Patch T1 jack to test jack of trunk to be tested	
3	Operate C1 (or TDM), TLK1 and TST1 keys	
4	Operate TRK COMP RES and A OPR COMP keys for trunk loop compensation	
5	Operate numerical keys corresponding to announcement trunk number	
6	Operate SDR1 key	SUP1 lamp may be lighted and ringing may be heard momentarily Full time announcements are given for approximately one or two minutes depending on trunk arrangement SUP1 lamp lighted
7	Restore the SDR1 key	
8	Operate DISC 1 key momentarily	SUP1 lamp extinguished
9	Remove patching cord from test jack of trunk	
10	Restore all operated keys when no additional trunks are to be tested	
11	When all tests are completed, disconnect operator telephone set	
<u>(B) Panel and Panel Tandem Offices (PCI Trunks)</u>		
1	At outgoing trunk test position, insert plug of operator telephone set into telephone jacks	
2	Patch T1 jack to test jack of trunk to be tested	
3	Operate SDR, RCI (or TAN) and T keys	
4	Operate COMP keys for trunk loop compensation	
5	Operate numerical keys corresponding to announcement trunk number	
6	Operate ST key	S1 lamp may be lighted and ringing may be heard momentarily Full time announcements are given for approximately one or two minutes depending on trunk arrangement S1 lamp lighted
7	Restore the ST key	
8	Operate DISC key momentarily	S1 lamp extinguished
9	Remove patching cord from test jack of trunk	

<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
10	Restore all operated keys when no additional trunks are to be tested	
11	When all tests are completed, disconnect operator telephone set	
<u>(C) No. 1 Crossbar Offices (Operator Class Trunks)</u>		
1	At outgoing trunk test frame, insert plug of operator telephone set into A & B jacks	
2	Patch T1 jack to test jack of trunk to be tested	
3	Operate A OPR COMP keys for trunk loop compensation	
4	Operate TLK1, NO SDR1 and TST1 keys	SUP1 lamp may be lighted and ringing may be heard momentarily Full time announcements are given for approximately one or two minutes depending on trunk arrangement SUP1 lamp lighted
5	Operate DISC1 key	SUP1 lamp extinguished
6	Restore the NO SDR1 key	
7	Remove patching cord from test jack of trunk	
8	Restore all operated keys when no additional trunks are to be tested	
9	When all tests are completed, disconnect operator telephone set	
<u>(D) Panel Offices (Operator Class Trunks)</u>		
1	At outgoing trunk test position, insert plug of operator telephone set into telephone jacks	
2	Patch T1 jack to test jack of trunk to be tested	
3	Operate COMP keys for trunk loop compensation	
4	Operate T key	S1 lamp may be lighted and ringing may be heard momentarily Full time announcements are given for approximately one or two minutes depending on trunk arrangement S1 lamp lighted
5	Operate DISC key momentarily	S1 lamp extinguished
6	Remove patching cord from test jack of trunk	
7	Restore all operated keys when no additional trunks are to be tested	
8	When all tests are completed, disconnect operator telephone set	

SECTION 201-509-502

STEP

ACTION

VERIFICATION

(E) No. 5 Crossbar Offices

- |    |   |   |
|----|---|---|
| 1  | At master test frame jack bay, insert a No. 322A make busy plug into MB jack of trunk under test            |   |
| 2  | At master test frame, restore all operated keys   |   |
| 3  | Momentarily operate RL key  | All lamps extinguished  |
| 4  | From the locally prepared locating chart, determine the location of trunk to be tested and class of service |   |
| 5  | Operate the following keys when they are provided to select trunk under test:                               |   |
|    | A,B,C (0-9) Code Digits   |   |
|    | CST (0-2) Class of Service Tens   |   |
|    | CSU (0-9) Class of Service Units  |   |
|    | FGO/FG1 Frame Group Selection   |   |
|    | NTFS No Test Frame Selection  |   |
|    | GPA/GPB Allotted Group Selection  |   |
|    | KY Connect Number Key   |   |
|    | MISC Miscellaneous Class  |   |
|    | MT (0-9) Marker-Transverter Selection   |   |
|    | RA (0) Route Advance  |   |
|    | TS (0-19) Trunk Selection   |   |
|    | NTTS No Test Trunk Selection  |   |
| 6  | Operate TLK and TR key  |   |
| 7  | Operate ST key  | AS lamp lighted<br>MISC lamp lighted<br>Ringing may be heard momentarily<br>Full time announcements are given for approximately one or two minutes depending on trunk arrangement |
| 8  | Restore TLK key   | AS lamp extinguished  |
| 9  | Momentarily operate RL key  | All lamps extinguished  |
| 10 | Remove MB plug from MB jack   |   |

(F) Step-by-Step Offices

- |    |   |  |
|----|---|--|
| 1  | At trunk relay rack, patch test set (BAT-G) jack to a 48 volt battery supply jack |  |
| 2  | Insert plug of operator telephone set into TEL jack                               |  |
| 3  | Patch T jack of test set to TST jack of trunk under test                          |  |
| 4  | Operate numerical keys (300) and (600) for trunk loop compensation                |  |
| 5a | If digit absorbing is not required - operate and restore DL ST key                | SL lamp lighted<br>Ringing tone may be heard momentarily<br>REV lamp lighted when announcement starts<br>Full time announcements are given for a period determined by the trunk arrangement<br>REV lamp extinguished<br>S1 lamp extinguished |

<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
6b	If digit absorbing is required - operate and restore DL ST key and dial number corresponding to announcement trunk, then dial one extra digit to simulate over-dialing	SL lamp lighted Ringing tone may be heard momentarily REV lamp lighted when announcement starts Full time announcements are given for a period determined by the trunk arrangement REV lamp extinguished Sl lamp extinguished
7	Operate FL key momentarily	
8	Disconnect patching cord from the TST jack of the trunk	
9	Restore all operated keys when no additional trunks are to be tested	
10	When all tests are completed, disconnect the battery supply cord and disconnect operator telephone set from the test set	

(G) Manual Local or No. 1 Tandem Offices

1	Insert plug of operator telephone set to idle "A" position	
2	Operate talking key of an idle cord circuit	
3	Make a busy test of trunk	Trunk not busy
4	Insert plug of cord into jack of trunk	Cord SUPV lamp may be lighted and ringing may be heard momentarily Full time announcements are heard and continue until originating end disconnects
5	Remove plug from jack of trunk	
6	When all tests are completed, disconnect operator telephone set from position	