

DIMENSION® 400 PBX
LOUDSPEAKER PAGING TESTS

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1. GENERAL INFORMATION

1.1 Description

- 1.11 This section describes the tests to be performed whenever Loudspeaker Paging either Basic or Deluxe is provided.
- 1.12 This feature provides a means of paging a party via telephone access to a loudspeaker system. With Deluxe paging the party being paged can dial an answer-back code, as specified by the pager, and be automatically connected to the pager. Also with Deluxe paging, priority keys can be established at the consoles or stations can be given priority to answer-back codes thereby pre-empting prior pagers from the paging zones.

2. RECORDS AND REQUIREMENTS

2.1 Records

- 2.11 Form SD-97-1313 is required for recording the results of these tests.

3. TEST EQUIPMENT

<u>AMT</u>	<u>ITE</u>	<u>DESCRIPTION</u>
1	4208A	Telephone Handset
1	9153L	Cord Assembly
1	500D	Telephone
	or	
	2500D	
1	249A	Adapter

PRIVATE

THE INFORMATION CONTAINED HEREIN SHOULD NOT BE DISCLOSED TO UNAUTHORIZED PERSONS. IT IS MEANT SOLELY FOR USE BY AUTHORIZED BELL SYSTEM EMPLOYEES.

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4. PROCEDURE

4.1 Preliminary

- 4.101 If the CSS 2015 PBX Loudspeaker Paging trunk(s) is to be connected to existing in-use equipment, these tests should be made during low or no traffic periods so that the loudspeakers may be connected to the LC13(s) during the tests described herein.
- 4.102 If the connections described in step 4.101 are not possible, telephone sets may be connected to the tip and ring test points on the LC13 circuit pack and in which case, a one way transmission path is established from the PBX to the telephone set. Note: When this type of arrangement is used, announcements made to the Loudspeaker will have to be checked by listening to the telephone set receiver that is connected to the zone under test.
- 4.103 Tests described in this section are divided into two parts. If the system is equipped with Loudspeaker Paging - Deluxe go to paragraph 4.214, otherwise go to paragraph 4.201.

4.2 Test Procedure

LOUDSPEAKER PAGING - BASIC ATTENDANT CONSOLE TESTS

- 4.201 If the console(s) is equipped with PAGING KEYS go to step 4.202, otherwise go to step 4.207.
- 4.202 At the console, depress and hold operated the PAGING KEY associated with the zone being tested. Verify:
- a) That the associated PAGING KEY lamp lights steadily.
- 4.203 Speak into the console handset transmitter. Verify:
- a) That the message is heard at the loudspeaker(s).
Note: If there is more than one zone, verify that the announcement is heard at the proper zone.
- 4.204 Release the PAGING KEY. Verify:
- a) That the associated PAGING KEY lamp extinguishes.
- 4.205 Repeat steps 4.202 through 4.204 until all PAGING KEYS have been tested. Note: If an ALL ZONE paging key is provided verify that the announcement is heard at all zones.
- 4.206 Repeat step 4.205 until all consoles have been tested.

LOUDSPEAKER PAGING - BASIC
STATION TESTS

- 4.207 If station access to the Loudspeaker Paging is allowed, go to step 4.208, otherwise go to step 4.213.
- 4.208 Utilizing a 249A Adapter connect a handset to a circuit pack test line associated with a station code that is allowed dial access to the Loudspeaker Paging circuit. Note: The information in the Misc. Trk. Rest. Grp., the Class of Service and the Station Line Assignments sections of the Customer Order Document may be used to determine a station code that is allowed dial access to the Loudspeaker Paging circuit.
- 4.209 Go off-hook with the handset, verify dial tone, and then dial the Loudspeaker Paging access code (trunk access code plus one extra digit for the zone). Verify:
- a) That confirmation tone is received at the handset receiver.
 - b) That the associated console PAGING KEY lamp lights steadily.
- 4.210 Speak into the handset transmitter. Verify:
- a) That the announcement is heard at the loudspeaker(s).
Note: If there is more than one zone verify that the announcement is heard at the proper zone.
- 4.211 Go on-hook with the handset.
- 4.212 Repeat steps 4.209 through 4.211 until all zones have been tested. Note: When all zones access (dial "0" zone access code) is tested verify that the announcement is heard at all zones.
- 4.213 This completes the testing of Loudspeaker Paging - Basic per this section.

LOUDSPEAKER PAGING - DELUXE
STATION TESTS

- 4.214 Utilizing a 249A Adapter connect a handset to a circuit pack test line associated with a station code that is allowed dial access to the Loudspeaker Paging circuit. Note: The information in the Misc. Trk. Rest. Grp., the Class of Service and the Station Line Assignments sections of the Customer Order Document may be used to determine a station code that is allowed dial access to the Loudspeaker Paging circuit.

- 4.215 Go on-hook with the handset, verify dial tone and then dial the Loudspeaker Paging access code. (access code, plus one digit for zone, plus a "0" digit for no answer back). After dial completion verify:
- a) Confirmation tone at the handset receiver.
 - b) If the console is equipped with PAGING KEYS, that the associated PAGING KEY lamp lights steadily.
- 4.216 Speak into the handset transmitter. Verify:
- a) That the announcement is heard on the loudspeaker(s).
Note: If there is more than one zone verify that the message is heard at the proper zone.
- 4.217 Go on-hook with the handset.
- 4.218 Repeat steps 4.215 through 4.217 until all zones have been tested.
Note: When the all zones access (dial "0" for zone) verify that the announcement is heard at all zones.

LOUDSPEAKER PAGING - DELUXE
STATION ACCESS - ANSWER-BACK TESTS

- 4.219 Utilizing another 249A Adapter connect another handset to a circuit pack test line associated with a station code that is allowed dial access to the Paging-Answer Back code. (This station will hereafter be referred to as the answer-back station.) Note: The information in the Misc. Trk. Rest. Grp., the Class of Service, and the Station Line Assignments sections of the Customer Order Document may be used to determine a station that is allowed dial access to the Paging-Answer Back code.
- 4.220 Go off-hook with the paging station (handset connected in step 4.214) verify dial tone, and then dial the Loudspeaker Paging Access code. (Use zone 1 plus answer-back channel 1.) After dial completion, verify:
- a) That confirmation tone is received at the paging handset station receiver.
- 4.221 Speak into the paging stations handset transmitter and announce that the answer-back station should answer back on channel 1.
- 4.222 At the paging station momentarily operate the switch-hook. Verify:
- a) That ringback is received at the paging stations' handset receiver.

- 4.223 Go off-hook with the answer-back station, verify dial tone, and then dial the paging answer-back code. (Paging answer-back access code plus one extra digit for answer-back channel.) After dial completion, verify:
- a) At the answer-back station, confirmation tone is received.
 - b) At the paging station, ringback is extinguished and confirmation tone is received.
 - c) After the confirmation tone, a transmission path exists between the answer-back and the paging stations.
- 4.224 Go on-hook with both the paging station and the answer-back station.
- 4.225 Repeat steps 4.220 through 4.224 until all answer-back codes (2 - 6) have been tested.

LOUDSPEAKER PAGING - DELUXE
ATTENDANT PAGING KEY ACCESS TESTS

- 4.226 If the console is equipped with PAGING KEYS go to step 4.227, otherwise go to step 4.232.
- 4.227 At the console depress and hold operated the PAGING KEY associated with the zone being tested. Verify:
- a) That the associated PAGING KEY lamp lights steadily.
- 4.228 Speak into the console handset transmitter. Verify:
- a) That the announcement is heard on the loudspeaker(s).
Note: If there is more than one zone verify that the announcement's heard at the proper zone.
- 4.229 Release the PAGING KEY. Verify:
- a) That the associated PAGING KEY lamp extinguishes.
- 4.230 Repeat steps 4.227 through 4.229 until all PAGING KEYS have been tested. Note: If on all zone PAGING KEY is provided verify that the announcement is heard at all zones.
- 4.231 Repeat 4.227 through 4.230 until all consoles have been tested.

LOUDSPEAKER PAGING - DELUXE
ATTENDANT PAGING DIAL ACCESS TESTS

- 4.232 At the console, momentarily operate a LOOP key. Verify:
- a) That the associated LOOP key ATND lamp lights.
- 4.233 At the console, momentarily operate the START key. Verify:
- a) That dial tone is received at the console handset receiver.
- 4.234 At the console, dial the Loudspeaker Paging access code (access code plus zone "1" plus answer-back digit "1"). After dial completion verify:
- a) Confirmation tone is received at the console handset receiver.
- 4.235 Speak into the console handset transmitter and announce that the answer-back station should answer-back on channel "1".
- 4.236 Go off-hook with the answer-back station, verify dial tone, and then dial the paging answer-back code (paging answer-back plus "1" for answer back channel). After dial completion verify:
- a) That the answer-back station and the attendant receive confirmation tones.
 - b) That after the confirmation tone a transmission path exists between the answer-back station and the attendant.
- 4.237 Go on-hook with the answer-back station and momentarily operate the console RELEASE key.

LOUDSPEAKER PAGING - DELUXE
STATION PRIORITY TESTS

- 4.238 From the Class of Service section of the Customer Order Document determine if priority paging is provided. If it is go to step 4.239, otherwise go to step 4.243.
- 4.239 Utilizing the 249A Adapters connect the two handsets to circuit pack test lines associated with station codes that have priority paging.
- 4.240 Go off-hook with one of the handsets, verify dial tone, and then dial the Loudspeaker Paging priority access code* (access code plus zone digit "1" plus priority answer-back code). After dial completion verify:

*Note: Refer to the System and Feature Summary section of the Customer Order Document.

- a) That confirmation tone is received at the handset receiver and that after confirmation tone announcement can be made on the loudspeakers.
- 4.241 Go off-hook with the second handset, verify dial tone, and then dial the same Loudspeaker Paging access code that was dialed by the handset in step 4.240. After dial completion verify:
- a) That confirmation tone is received at the second handset receiver and that after confirmation tone an announcement can be made on the loudspeaker(s).
 - b) That the first handset no longer has voice transmission to the Loudspeaker Paging circuit and that ringback is received at the first handset receiver.
- 4.242 Go on-hook with both handsets.

LOUDSPEAKER PAGING - DELUXE
ATTENDANT PRIORITY KEY ACCESS TESTS

- 4.243 From the Console Layout section of the Customer Order Document determine if the console is equipped with any priority paging keys. If the console is equipped with priority paging keys go to step 4.244 otherwise go to step 4.250.
- 4.244 Utilizing a 249A Adapter connect the handset to a circuit pack test line that is associated with a station code that is allowed dial access to the Loudspeaker Paging circuit.
- 4.245 Go off-hook with the handset, verify dial tone, and then dial the Loudspeaker Paging access code associated with the priority PAGING KEY to be tested (if the priority PAGING KEY to be tested is associated with zone 1 dial the access code plus the zone digit "1" plus answer-back digit "1"). After dial completion verify:
- a) That confirmation tone is received at the handset receiver.
 - b) That after confirmation tone is received, voice transmission is established to the loudspeakers.
 - c) That the console PAGING KEY lamp associated with the zone under test lights steadily.

- 4.246 At the console, depress and hold operated the priority PAGING KEY associated with the steadily lighted lamp. Verify:
- a) That the attendant has voice transmission to the loudspeakers.
 - b) That the handset no longer has voice transmission to the loudspeakers and receives audible ringback at the handset receiver.
- 4.247 Go on-hook with the handset and release the priority paging key.
- 4.248 Repeat steps 4.244 through 4.246 until all the console priority paging keys have been tested. Note: The zone that is dialed will have to correspond with the zone that the priority paging key is associated with.
- 4.249 Repeat steps 4.243 through 4.248 until all consoles have been tested.
- 4.250 Remove the 249A Adapter(s) and handset(s) from the circuit pack test lines.
- 4.251 This completes the testing of Loudspeaker Paging - Deluxe per this section.

Reason for issue:
New Section

Manager, Denver PBX PECC