DIMENSION® 2000 AND CUSTOM PBX

(CSS 201L)

X-Ray Test 52

(Special Feature Package 9 Tests)

1. GENERAL INFORMATION
2. RECORDS
3. TEST EQUIPMENT
4. TEST PROCEDURES
5. MINIMUM CIRCUIT PACK REQUIREMENTS

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1. GENERAL INFORMATION

1.1 Description

1.11   This Section describes the procedure to be used to perform X-Ray Test 52.

1.12   X-Ray Test 52 verifies proper operation of various Feature Package 9 (FP9) components.

1.2 Test Description

1.21   X-Ray Test 52 is comprised of seven subtests, four of these subtests are available to the field as follows:

1.211   Mode 0 - Memory Holdover. Mode 0 subroutine writes data into unloaded memory and signals write completion by displaying code 1124 (Format F31). This same routine also checks the unloaded memory against data previously written into it and displays completion code 1125 (Format F31) if the comparison is complete and error free.

1.212   Mode 1 - Initialization Routine. Mode 1 is the initialization routine. Mode 1 should be run before Mode 4 is run. If LC03 and LC190 Circuit Packs are installed, Mode 1 should be run before X-Ray Tests 02 and/or 17.

PRIVATE

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1.   GENERAL INFORMATION (Cont'd)

1.2   Test Description   (Cont'd)

   1.21   (Cont'd)

      1.213   Mode 4 - Energy Control Unit/ Query Test.
      Mode 4 tests the energy control units which are connected
      in groups of four per LC03 circuit pack. Query responses
      are tested and verified automatically. The number of LC03's
      tested is displayed at the MAAP after the first pass, (Format
      F32).

      1.214   Mode 7 - LC190 Test. Mode 7 exercises the LC190 which is
      also performed in tests 02 and 17. In test 52 the LC190
      message is verified orally with a station set.

2.   RECORDS

2.1   Form SD-97-1313 is required for recording the results of this test.

3.   TEST EQUIPMENT

3.1   Test Sets - See Section 400 of Handbook 281.

4.   TEST PROCEDURES

4.1   Preliminary

   4.11   Test 52 performs special Feature Package 9 (FP9) tests which
   should be performed on FP9 systems.

4.2   Test Execution

   4.21   To execute X-Ray test 52 Mode 0 at the MAAP momentarily operates
   STOP, ADD, and CHANGE in order. Dial 0, Operate ENTER and
   RESET. Operate EXECUTE and dial 52.

      4.211   The Alarm Panel lamps should now be cycling as indicated in
      figure 1 and completion code 1124 (see Format F31) should be
      displayed at the MAAP

      4.212   Simultaneously remove the AC power from the Common Control
      and Battery Backup Cabinets for a period of about one minute,
      thereafter simultaneously return the AC power to both cabinets.

      4.213   Test 52 should restart automatically as indicated by the Alarm
      Panel lamps cycling and completion code 1125 (see Format F31)
      should be displayed at the MAAP.

4.   TEST PROCEDURES (Cont'd)

4.2 Test Execution (Cont'd)

4.21   (Cont'd)

4.214 The tape should not have reloaded at this point.

4.215 This completes testing per X-Ray Test 52 Mode 0.

4.22   To execute X-Ray Test 52 Mode 1 at the MAAP momentarily operate STOP, ADD and CHANGE in order. Dial 1, operate ENTER and RESET. Operate EXECUTE and dial 52.

4.221 The Alarm Panel lamps should now be cycling as indicated in Figure 1 and Fault Code 620 should appear at the MAAP.

4.222 This completes testing per X-Ray Test 52 Mode 1.

4.23   To execute X-Ray Test 52 Mode 4 at the MAAP momentarily operate STOP, ADD, and CHANGE in order. Dial 4, operate ENTER and RESET. Operate EXECUTE and dial 52.

4.231 The Alarm Panel lamps should now be cycling as indicated in Figure 1.

4.232 After the first pass the number of LC03's tested will be displayed at the MAAP (See Format F32).

4.233 This completes testing per X-Ray Test 52 Mode 4.

4.24   To execute X-Ray Test 52 Mode 7 at the MAAP momentarily operate STOP, ADD and CHANGE in order. Dial 7, operate ENTER and RESET. Operate EXECUTE and Dial 52.

4.241 The Alarm Panel lamps should now be cycling as indicated in Figure 1. Connect a station set to the address (Port 0) indicated at the MAAP (See Format F2). The LC190 message should be heard two times per pass, once for each output circuit.

4.242 This completes testing per X-Ray Test 52 Mode 7.

5.   MINIMUM CIRCUIT PACK REQUIREMENTS

5.1 The system should be equipped per the COD for this test.

LAMP CYCLING SEQUENCE (LAMPS 1-22)

| ALARMS | PROCESSOR/MEMORY | MAAP PROCEDURES |

	I/O	CONTROL	OVER
MJ MN	BUS PROC MEM	TAPE I/O	TEMP FUSE
1 2	3 4 5	7 8	9 10

PASS FAIL
6

| PF | I/O | SCAN | NET | PAM |
| 11 | 12 | 13 | 14 | 15 |

| TONE | CNSL | LINKS | TTR | TRKS |
| 16 | 17 | 18 | 19 | 20 |

ANI   OTHER
21   22

FLASH RATE = 40 MS

- -

FAULT CODE DISPLAY

	I/O	BIT	CONTROL	OVER
MJ MN	BUS PROC MEM SWAP	TAPE I/O	TEMP FUSE
TH_8	TH_4 TH_2 TH_1	H_8 H_4	H_2 H_1

| PF | I/O | SCAN | NET | PAM |
| | T_8 | T_4 | T_2 | T_1 |

| TONE | CNSL | LINKS | TTREG | TRKS |
| | U_8 | U_4 | U_2 | U_1 |

TH = THOUSANDS
H = HUNDREDS
T = TENS
U = UNITS

EXAMPLE:

LAMPS ON

(TH_1) MEM = 1000
(H_8) TAPE = 800
(T_2) NET = 20
(U_4) LINKS = ___4

FAULT CODE: 1824

8	4	2	1	DIGIT
0	0	0	0	0
0	0	0	1	1
0	0	1	0	2
0	0	1	1	3
0	1	0	0	4
0	1	0	1	5
0	1	1	0	6
0	1	1	1	7
1	0	0	0	8
1	0	0	1	9

1 = LAMP ON

Fig. 1 —Alarm Panel Lamp Sequence and Fault Code Display

Reason for Issue:
New Section

Manager, Denver PBX PECC