

DIMENSION® 2000 AND CUSTOM PBX
MICRODIAGNOSTIC 9

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1. GENERAL INFORMATION

1.1 Description

- 1.11 This section describes the procedures to be followed to perform Microdiagnostic 9. The Microdiagnostics are a series of tests of the processor that are initiated from the Alarm Panel. The machine instructions for the performance of these tests are provided in the processor on Read Only Memories (ROM). The circuits tested by this section are shown in SD-1E480-01.

1.2 Sequence of Operations

- 1.21 This test should be run after the Application of Power Section and before any Call Processing Sections. All Microdiagnostics should be run in order (Tests 0 through 9, covered in SEC. 310 through 319) since each Microdiagnostic uses some of the circuits tested by the previous test while testing additional circuits.

2. RECORDS AND REQUIREMENTS

2.1 Records

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

2.2 Requirements

- 2.21 The tests in this section are based on the performance requirements for SD-1E480-01.

3. TEST EQUIPMENT

- 3.1 MAAP is required.

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 Test Description

- 4.11 This test tests the processor circuits and then causes a tape load. This test does not run repeated cycles.
- 4.12 A diagram of the Alarm Panel is shown in SEC. 310.
- 4.13 If it is necessary to replace a circuit pack while performing this test section, follow the procedure given in PAR. 4.34 of SEC. 310.
- 4.14 If a pack is replaced, repeat all previously run Microdiagnostic Tests.

4.2 Test Procedure

- 4.21 The tape will be loaded twice during this test section to verify that both a power failure reload and a manually initiated reload can be accomplished.
- 4.22 Verify that a program tape, either generic or X-Ray, is properly inserted into the minirecorder.
- 4.23 Connect a MAAP to the processor to be tested.
- 4.24 Set the alarm panel TEST SELECT Thumbwheel Switch to position 9.
- 4.25 Power Failure Reload:
 - 4.251 Momentarily (for a few seconds) disconnect power to the control cabinet (i.e. RAM memory). To do this, first disconnect the reserve (backup) power system. If the system is equipped with the nominal holdover battery, simply flip the ON/OFF switch on the battery unit to OFF. If the system is equipped with UPS (see DCS #1E480-53), remove commercial AC power to the UPS power supplies and disconnect the DC backup to the system, being careful to mark the wires disconnected so as to insure proper reconnection. Then, with all systems, operate the AC and DC circuit breakers on the control cabinet power supply to the OFF position, then back to ON. Reconnect backup power, returning the system to normal.
- 4.26 Manually Initiated Reload (performed after the tape has finished loading from performing paragraph 4.251):
 - 4.261 Momentarily operate the alarm panel ENABLE switch.

4.3 Test Results Indications

- 4.31 Immediately after the return of power or immediately after the ENABLE switch is operated, the MJ and PROC indicators light, the tape begins loading, and the right side of the MAAP displays a "0" (indicates that the memory test is being loaded).

4. PROCEDURE (Cont'd)

4.3 Test Results Indications (Cont'd)

- 4.32 A few seconds later the PASS indicator lights steadily and the MAAP displays a "1" (indicates that the program is being loaded).
- 4.33 A minute or two later the MAAP displays a "6" (indicates that translations are currently being loaded).
- 4.34 Finally, the MAAP displays a "3" (loading patches) for a brief moment and then the MAAP field goes blank.
- 4.35 The MJ and PROC indicators extinguish while the PASS indicator flashes.
- 4.36 If the X-Ray tape is used, after the tape is loaded the software controlled alarms will start flashing in a sequence from left to right, top to bottom, as a page is read.
- 4.37 If this is a dual processor system, perform this section on both processors.
- 4.38 If this test passes, microdiagnostic testing is completed.
If this test fails, proceed to paragraph 4.39. Remember that Microdiagnostics 0 thru 8 should be performed (passing) before MD9 is tried.
- 4.39 A load failure will result in either no lighted indicator pattern (see paragraph 4.36) or in the FAIL indicator lighting. When a failure occurs, replace in the order listed, the following units, returning to their original location any unit that does not change the symptoms and rerun the test:

LC29B

LC30B

Minirecorder

If the trouble still exists, refer to SEC. 500 (tape alarm).

- 4.40 End of Section.

Reason for Issue:
Update

Manager, Denver PBX PECC