DIMENSION® 600/2000 PBX
MAAP TEST
(PROC 526)

1. GENERAL

1.1 This section is issued in order to make available the information contained in the Administration and Maintenance Manual, 500-497, PROC 526.

1.2 The attachment provides test procedures to be used when MAAP failure is suspected.

ATTACHMENT

PROC 526 (7 pages)

Reason for Issue:
Update

Manager, Denver PBX PECC

PROCEDURE 526 - MAAP TEST

A. DESCRIPTION

Procedure 526 should be used primarily when a MAAP malfunction is suspected. Procedure 526 may also be used to verify and retire the OTHER-515 alarm resulting from a transmission failure to the MAAP.

Five tests are available:

- Test 1 - Tests digital readouts.
- Test 2 - Tests control keys.
- Test 3 - Tests dial keys.
- Test 4 - Tests BUSY OUT, WAIT, SEE NOTE and IN USE indicators.
- Test 5 - Tests for a MAAP transmission failure.

TEST 1:	TEST 2:	TEST 3:	TEST 4:	TEST 5:	NOTES:
TESTS DIGITAL DISPLAYS. USE 'NEXT DATA' TO INCREMENT DISPLAYED NUMBER.	TESTS CONTROL KEYS SHOWN ON FLIP CHART. USE INDICATED CONTROL KEYS TO CHANGE DISPLAY FROM 0 TO 1.	TESTS DIAL KEYS. USE KEY 1-9 TO CHANGE THE DISPLAY FROM 0 TO THE KEY NUMBER. USE OTHER DIAL KEYS TO CHANGE THE DISPLAY FROM 0-1.	TESTS BUSY OUT, WAIT, IN USE & SEE NOTE INDICATORS. USE 'NEXT DATA' TO TURN INDICATORS ON OR OFF.	DISPLAYS MAAP ALARM STATUS. USE 'CLEAR DATA', 'EXECUTE' TO RESET MAAP ALARM. FLDS 2-25: ALL 0=ALARM RESET ALL 1=ALARM SET	THE TEST NUMBER CAN ONLY BE CHANGED BY 'NEXT TEST'.

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FIELD	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
	TEST NO	TEST 2		NEXT PROC			STOP	CLEAR DATA			WORD NO		RLS BUSY	BUSY OUT	RMV	ADD		CHG FIELD	NEXT UNIT		CHG	DISPL	EXEC	NEXT DATA	NEXT CKT	
	TEST 3	1	2	3	4	5	6	7	8	9	CLEAR	ENTRY	0	ENTER												
	3.	-.	1.	2.	3.	4.	0.	0.	0.	0.	0.	0.	0.	0.	-.	-.	-.	-.	-.	-.	-.	-.	-.	-.	-.	526

B. FIELD DEFINITIONS AND CODES

Field	Code	Definition
1	1-5	Test number.
2	Dash	Unused.
Fields 3 through 25: For Tests 1 through 4: 0 (after key pressed) = default or test failure. For Test 5: 0 = NETWORK OTHER-515 alarm not set. 1 = NETWORK OTHER-515 alarm set.		
3	0-9	Digital display (Test 1).
	1	Dial key 1 display (Test 3): Pass test.
4	0-9	Digital display (Test 1).
	1	NEXT PROC control key display (Test 2): Pass test.
	2	Dial key 2 display (Test 3): Pass test.
5	0-9	Digital display (Test 1).
	3	Dial key 3 display (Test 3): Pass test.
6	0-9	Digital display (Test 1).
	4	Dial key 4 display (Test 3): Pass test.
7	0-9	Digital display (Test 1).
	1	STOP control key display (Test 2): Pass test.
	1	Dial key 5 display (Test 3): Pass test.
8	0-9	Digital display (Test 1).
	1	CLEAR DATA control key display (Test 2): Pass test.
	6	Dial key 6 display (Test 3): Pass Test.

Field	Code	Definition
9	0-9	Digital display (Test 1).
	7	Dial key 7 display (Test 3): Pass test.
10	0-9	Digital display (Test 1).
	8	Dial key 8 display (Test 3): Pass test.
11	0-9	Digital display (Test 1).
	1	WORD NO control key display (Test 2): Pass test.
	1	Dial key 9 display (Test 3): Pass test.
12	0-9	Digital display (Test 1).
	1	Dial key CLEAR ENTRY display (Test 3): Pass test.
13	0-9	Digital display (Test 1).
	1	RLS BUSY OUT control key display (Test 2): Pass test.
	1	Dial key 0 display (Test 3): Pass test.
14	0-9	Digital display (Test 1).
	1	BUSY OUT control key display (Test 2): Pass test.
	1	Dial key ENTER display (Test 3): Pass test.
15	0-9	Digital display (Test 1).
	1	REMOVE control key display (Test 2): Pass test.

B. FIELD DEFINITIONS AND CODES (Contd)

Field	Code	Definition
16	0-9	Digital display (Test 1)
		ADD control key display (Test 2):
	1	Pass test
17	0-9	Digital display (Test 1)
18	0-9	Digital display (Test 1)
		CHANGE FIELD control key display (Test 2):
	1	Pass test
19	0-9	Digital display (Test 1)
		NEXT UNIT control key display (Test 2):
	1	Pass test
20	0-9	Digital display (Test 1)
21	0-9	Digital display (Test 1)
		CHANGE control key display (Test 2):
	1	Pass test
22	0-9	Digital display (Test 1)

Field	Code	Definition
22 (Contd)		DISPLAY control key display (Test 2):
	1	Pass test
23	0-9	Digital display (Test 1)
		EXECUTE control key display (Test 2):
	1	Pass test
24	0-9	Digital display (Test 1)
		NEXT DATA control key display (Test 2):
	1	Pass test
25	0-9	Digital display (Test 1)
		NEXT CIRCUIT control key display (Test 2):
	1	Pass test

C. TEST PROCEDURES

A list of MAAP failure tests, what each one does, and how each is run follows:

Call in Procedure 526:

PROC NO.; 526; ENTER

Test 1 is automically selected.

Depressing the NEXT TEST key repeatedly advances the procedure to the desired test.

Test 1:

Test 1 displays all digits in fields 1 through 25 and the error display.

To start the test, depress the EXECUTE key. EXECUTE zeros all fields and the ERROR display.

Depressing the NEXT DATA key increments the display to all 1s. Each depression of the NEXT DATA key increments the display from all 0s through all 9s. Depressing the NEXT DATA key after all 9s have been displayed causes Test 1 to be executed, starting the sequence over. Field 1 remains a one and all other fields (including the ERROR display) are dashed.

Test 2:

Test 2 tests all control keys except PROC NO, RESET and NEXT TEST.

> **CAUTION**
>
> **Do not attempt to test the RUN TAPE key using this procedure.**

To start the test, select Test 2 and depress the EXECUTE key. Depressing the EXECUTE key displays a 1 in field 23 to indicate proper operation of the EXECUTE key, and displays zeros in the other fields.

Depress the other control keys in the following order and note the transition from 0 to 1, in the appropriate field, indicating proper operation:

Control Key	Field
NEXT PROC	4
STOP	7
CLEAR DATA	8
WORD NO	11
RLS BUSY OUT	13
BUSY OUT	14
REMOVE	15
ADD	16
CHANGE FIELD	18

C. TEST PROCEDURES (Contd)

Control key	Field
NEXT UNIT	19
CHANGE	21
DISPLAY	22
NEXT DATA	24
NEXT CIRCUIT	25

Test 3:

Test 3 tests all dial keys.

To start the test, select Test 3 and depress the EXECUTE key. EXECUTE displays zeros in fields 3 through 14. Depress each of the dial keys. If the key depressed passes the test, the proper symbol will be displayed in the appropriate field:

Dial key	Field	Display
1	3	1
2	4	2
3	5	3
4	6	4
5	7	5
6	8	6
7	9	7
8	10	8
9	11	9
CLEAR ENTRY	12	1
0	13	1
ENTER	14	1

Test 4:

Test 4 tests the BUSY OUT, WAIT, SEE NOTE and IN USE indicators.

To start the test, select Test 4 and depress the EXECUTE key. EXECUTE will light all of the indicators.

Depressing the NEXT DATA key alternately turns the indicators on and off.

When exiting Test 4 the indicators return to their original state.

Test 5:

Test 5 displays MAAP alarm status.

To start the test, select Test 5 and depress the EXECUTE key. EXECUTE causes all ones to be displayed on the MAAP if the NETWORK OTHER-515 alarm is set because of a MAAP failure. All zeros are displayed if the alarm is not caused by a MAAP failure.

> **NOTE**
>
> The NETWORK OTHER-515 alarm indicator can be turned on by other faults in the system.

D. REPAIR GUIDE

When a MAAP panel fault is indicated, the following steps should be performed, in the order shown, to isolate and repair the faulty unit:

Step	Isolation Procedure
1.	Execute Tests 1 through 4 to verify the existence of the fault.
2.	If a limited number of failures is indicated, replace the MAAP.
3.	If complete failure is indicated, replace the MAAP and then LC34/366.

END