DIMENSION® PBX
30A8 CAS SYSTEM STATUS INDICATOR
TEST

CONTENTS

1.　GENERAL

1.1　This section provides the testing of 30A8 CAS System Status Indicator(s) (SSI) for the Dimension 400 and 2000 PBX.

1.2　PROC 77 and PROC 573 allow the craftsperson to determine whether 30A8 SSI failure is due to a 30A8 SSI malfunction or the Contact Interface board (LC15) which controls it.

> Notes: 1 - Tests (PROC 77 or PROC 573) will run without any peripheral being connected to the system, and will not produce a failure message.
>
> 2 - Tests (PROC 77 or PROC 573) will run without any Contact Interface board (LC15) plugged into the carrier, and will not produce a failure message. (See Section 573, Handbook 281).

1.3　Testing of 30A8 SSI is done by looking at the unit under test, while the test is running, to see if the lamps are working correctly.

1.4　For detail information about the PROC 77 see Section 527, Handbook 218B, and about PROC 573 see Section 573, Handbook 281

2.　RECORD

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

PRIVATE

3.   TEST EQUIPMENT

3.1   For 201S and 201L, MAAP is required.

4.   PROCEDURE

4.1   For Dimension 400 PBX:

4.1.1   Insure that the right tape has been loaded.

4.1.2   Connect the MAAP to the PBX.

4.1.3   PROC 77 (Fig. 1) is used (See Section 527, Handbook 218B) to determine if
         a Contact Interface board (LC15) is faulty (Lamp(s) on the 30A8 SSI do not
         light).

4.1.4   Operate the following MAAP keys as listed (See Section 527, Handbook 218B):
         'PROC. NO.', '7', '7', 'ENTER' which will load the program into the memory.
         When WAIT lamp extinguishes, intially test will start in Mode 0, and also
         will be displaying the first LC15 board's location that is in Translation.

                 Note: Field 3 will be displaying either:
                             0 = CAS or
                             1 = UCD

4.1.5   To find the location of a board different than what is being displayed in field
         1 and 2, operate DISPLAY Key as often as needed.

4.1.6   To change any data in fields 4-12; operate the following MAAP keys: 'CHANGE',
         Number of the field to be changed (4-12), 'ENTER' (blanks the field), '0' or
         '1', 'ENTER'. This sequence can be repeated.

                 Note: Mode 0; will sequentially test all (8) lamps on the 30A8 SSI (fields
                         5-12).

                         Mode 1; sequentially test a set of test points defined by the craftsperson.
                         Therefore while doing the sequence above, enter 1 in all the desired
                         fields (5-12) to be tested.

4.1.7   Operate EXECUTE key to start the test. If in <u>Mode 0</u>, sequentially the lamps on the 30A8 will blink at 60 Interrupts Per Minute (IPM) for 5 seconds and then will move to testing the next lamp. The 1 in field 5-12 corresponding to the lamp also will be blinking at the same rate. If in <u>Mode 1</u>, the lamp corresponding to the first field (5-12) with 1 in it will start blinking at 60 IPM rate as long as desired. To test the next lamp, operate STEP key.

      Note: For any problem, refer to step 5.

4.2   <u>For Dimension 2000 PBX:</u>

4.2.1   Insure that the right tape has been loaded.

4.2.2   Connect the MAAP to the PBX.

4.2.3   PROC 573 (Fig. 2) is used (See Section 573, Handbook 281) to determine if a Contact Interface board (LC15) is faulty, (Lamp(s) on the 30A8 SSI do not light).

4.2.4   Operate the following MAAP key as listed: 'PROC. NO.', '5', '7', '3', 'ENTER' which will load the program into the memory. When WAIT lamp extinguishes, Test 1 (field 1) will initially be ready to be executed (See Section 573, Handbook 281). Fields 2-5, initially will be displaying the location of the first LC15 board in the translation. To find the location of other Contact Interface board(s) in the system, operate NEXT CIRCUIT Key till the desired board (LC15) is located.

4.2.5   To increment test number (field 1) by one, operate NEXT TEST key.

4.2.6   When Test 3 or 4 is required, to select a particular contact for testing, operate NEXT DATA key until the desired number (0-7) corresponding to the contact to be tested is displayed in field 5.

4.2.7   When the desired test and the requirements for that test are entered, then operate EXECUTE key to start the test.

      Note: For any problem, refer to step 5.

5.   TROUBLE-SHOOTING AIDS

5.1   If any of the lamp(s) on 30A8 SSI did not light, the problem could be:

     a)   The lamp is bad. See step 5.3
     b)   The corresponding relay to the lamp is not functioning. See step 5.3.
     c)   The wiring to 30A8 SSI is wrong. See step 5.3.

5.2   If none of the lamps on the 30A8 SSI light, the problem could be:

     a)   Wrong tape has been loaded. See step 5.4.
     b)   The 30A8 SSI unit is bad. See step 5.3
     c)   The Contact Interface board (LC15) is not being seized. See step 5.5.
     d)   The Contact Interface board (LC15) is bad. See step 5.6.
     e)   The wiring to the 30A8 SSI is wrong. See step 5.7.
     f)   Software problem; Contact RTAC Engineer. END.

5.3   Change the 30A8 SSI unit and retest the new one. If the problem still exists, connect the original SSI back. The problem could be the relay corresponding to the lamp(s); See Table A and Figure 3. Change the LC15 board and retest the new board. If the problem still exists, put back the original LC15, and assume the problem is in wiring (see Section 250.22, Handbook 282). END.

5.4   Make sure that the correct tape with the feature you are testing for has been loaded. If the tape is wrong, load the correct tape and retest. If the problem still exists, then refer to step 5.2.

5.5   To activate a LC15 board; RT- lead has to be at steady low and BRBCK lead has to be at steady high. To select a port (relay), BBS-* has to be active (Low), See Table A and Figure 3, it flashes everytime the port (relay) is selected.

TABLE A

PORT SELECTION FOR LC15

CONTACT NO.	BRBS	BKRB	BPS-* (Note 1)			
			0	1	2	3
0	*	--	*	--	--	--
1	--	*	*	--	--	--
2	*	--	--	*	--	--
3	--	*	--	*	--	--
4	*	--	--	--	*	--
5	--	*	--	--	*	--
6	*	--	--	--	--	*
7	--	*	--	--	--	*

Notes:

   1 :   Active Low
   * :   Active
   - :   Inactive

5.6   Replace the LC15 board and retest. If the problem still exists, then put back the original LC15 board. See step 5.2

5.7   The wiring from the PBX to the SSI could be wrong. Refer to Section 250.22, Handbook 282. If it all checked out correct but the problem still exists, see step 5.2.

FLIPCHART ISSUE 11					CONTACT INTERFACE TEST									PROC 77
EQUIPMENT LOCATION OF TEST TRUNK			E Q P T		T E S T	T P 1	T P 2	T P 3	T P 4	T P 5	T P 6	T P 7	T P 8	
TRUNK CARRIER 1	SLOT 2		T Y P E 3		M O D E 4	5	6	7	8	9	10	11	12	

Fig. 1 – FLIPCHART FOR PROC. 77

TEST 1: AUTOMATICALLY SEQUENCE THRU ALL CONTACTS ON A BOARD OPENING AND CLOSING EACH EXCLUSIVELY AT A 60 IPM RATE FOR 5 SECONDS.	TEST 2: SAME AS TEST 1 EXCEPT EACH CONTACT REMAINS CLOSED FOR ENTIRE 5 SECOND INTERVAL.	TEST 3: MANUAL SELECTION OF CONTACT OPENING AND CLOSING IT AT A 60 IPM RATE FOR ANY DESIRED TESTING INTERVAL.	TEST 4: SAME AS TEST 3 EXCEPT CONTACT REMAINS CLOSED FOR DURATION OF TESTING INTERVAL.
USE: 'NEXT CIRCUIT' TO ADVANCE NEXT BOARD - ALL TESTS 'NEXT DATA' TO ADVANCE NEXT CONTACT - TESTS 3 & 4		NOTE: FIELDS (7-14) INDICATE CURRENT STATE OF CONTACT WHEN TESTING IS ACTIVE 0-OPEN, 1-CLOSED.	FAILURE CODE: 9-NETWORK FAILURE
ISSUE L8.3 FLIPCHART	PROC 573		

FLIPCHART
ISSUE L8.3   CONTACT INTERFACE TEST

| TEST NO | CONTACT INTERFACE BOARD EQUIPMENT LOCATION 3&4 | | | | | CONTACT STATES OF BOARD UNDER TEST | | | | | | | | FAILURE CODE | PROC 573 |
	MODULE	CAB	CARR	SLOT	CURRENT CONTACT	CONTACT 0	CONTACT 1	CONTACT 2	CONTACT 3	CONTACT 4	CONTACT 5	CONTACT 6	CONTACT 7		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

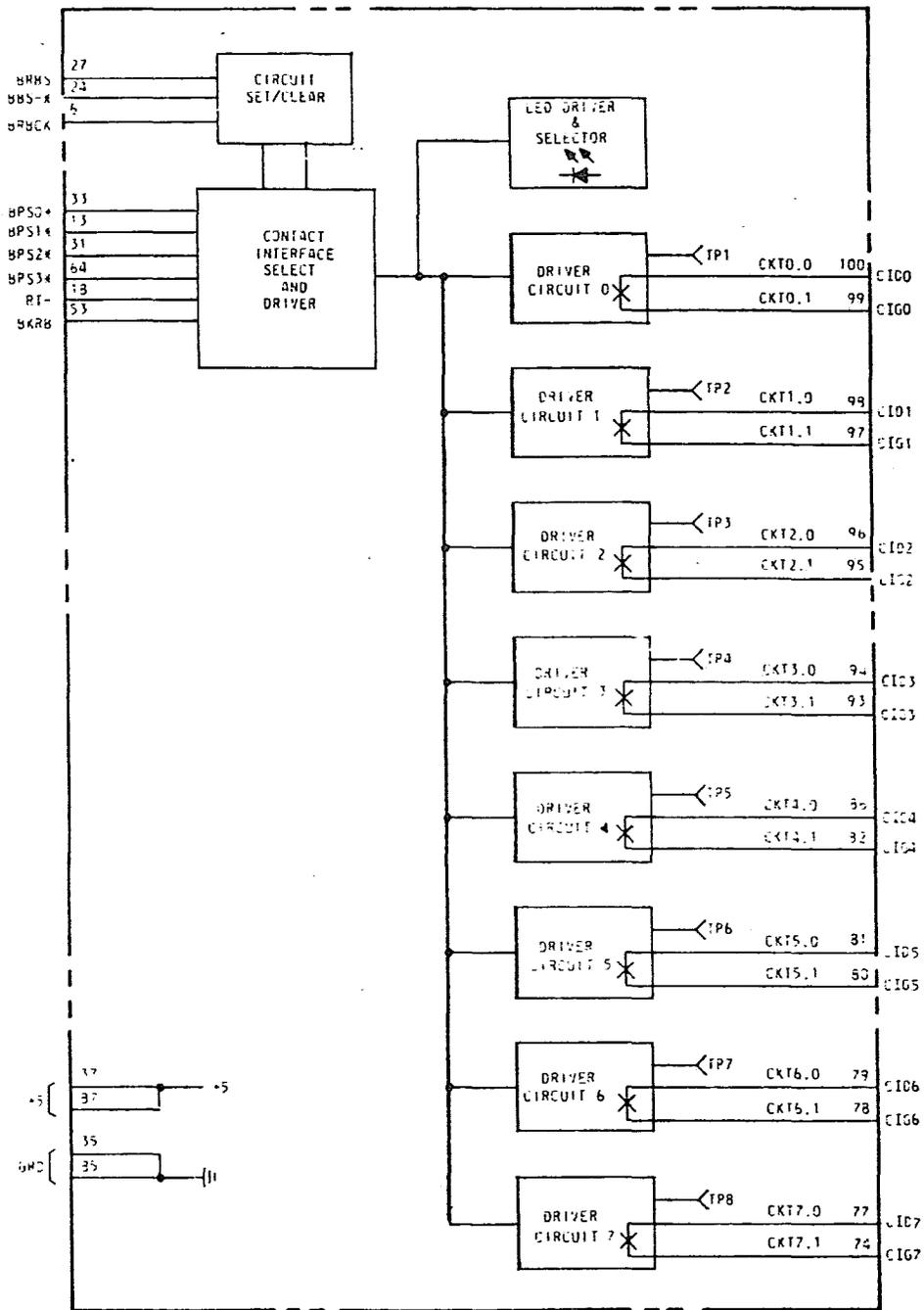Fig. 2 - FLIPCHART FOR PROC. 573

Fig. 3 - LC15 Circuit Pack

Reason for Issue:
  New Section

Manager, Denver PBX PECC