NO. 3 ESS
CONTINUITY TESTS
TEST FRAME

CONTENTS

1. GENERAL INFORMATION

1.1 Description

1.11 This section provides a method for verifying continuity of installer-run cabling for cables originating at the Test Frame.

1.12 These tests incorporate the use of Extender Boards which, when inserted into appropriate Equipment Locations (EQL), facilitate easy location of the terminals and connection of the continuity test set to the terminals.

1.2 Sequence

1.21 These tests should be performed after all interframe cables originating at the Test Frame have been run and connected.

1.22 These tests should be completed prior to Test Frame Power Verification Tests (Handbook 269, Section 151).

1.3 Records

1.31 The results of these tests should be recorded on SD-97-1313 and SD-97-1315 forms. Detailed information on completing these forms appears in Handbook 3, Section 6B.

1.4 References

1.41 The following documents may be useful as references during the performance of these tests:

Document	Title
SD-3H902-01	Control Frame Circuit
SD-3H904-01	Test Frame Circuit
SD-3H912-01	Scanner Assignment Rules

2. TEST EQUIPMENT

2.1 Test Sets

Amt.	ITE	Description
1	*4511	Whistler Test Set
1	*4525A	Tone Buzzer Test Set
→ 2	**5477C	Extender Board

* Included in ITE-5653, No. 3 ESS Test Accessory Set.

→ ** Included in ITE-5543, 3ACC/Auxiliary Processor Test Set.

3. TEST PREPARATION

3.1 Table Information

3.11 Table A provides lead termination information for cabling from the Test Frame to Control Frame (0).

3.12 Table B provides lead termination information for scanner leads from the Test Frame to Control Frame (0) master scanner terminal strip.

3.13 Table C provides lead termination information for cabling from the Test Frame to the HCDF.

3.14 Table D provides lead termination information for ringing and tone leads from the Test Frame to the Miscellaneous Power Frame.

NOTE: All remaining R & T leads are tested using Handbook 269, Section 175, Ringing and Tone Distribution Tests.

3.15 Notes pertaining to Tables A through D are located after Table D.

3.16 All tests require the use of Extender Board(s) to facilitate access to interframe cable leads.

3.2 Test Set Calibration

3.21 Calibrate the test sets per Handbook 269, Section 100, paragraph 4.2 for ITE-4525 and paragraph 5.2 for ITE-4511.

4. TEST PROCEDURE

4.1 Operate the test sets per Handbook 269, Section 100, paragraphs 4.3 and 5.3 for ITE-4525 and ITE-4511, respectively.

4.2 Perform continuity tests on the leads specified in Tables A through D.

TABLE A

FROM TEST FRAME			TO CONTROL FRAME (0)		
LEAD DESIG	TEST AT EQL	TERM	TEST AT EQL	TERM	NOTE
DP,N000	056-17	107,007	158-31	102,002	1
DP,N001		106,006	(Repeat at 058-31)	103,003	
DP,N002		105,005		104,004	
DP,N003		104,004		105,005	
DP,N004		103,003		106,006	
DP,N005		102,002		107,007	
DP,N006		101,001		109,009	
DP,N007		100,000		108,008	
PT,R5	056-02	309,209	144-35	304,204	
PT,R4		308,208		303,203	
PT,R3		307,207		302,202	
PT,R2		306,206		301,201	
T,R		305,205		309,209	
T1,R1		304,204		308,208	
TPNT,R11		203,303		306,206	
TPNT,R01		202,302		305,205	
TELA,B		301,201		307,207	
P54BTST		300		300	
P48RA		200		200	
SCFAL,H	048-24	304,204	140-35	108,109	
SSP		202		105	
RSP		301		106	
TSP		201		107	1

TABLE B

FROM TEST FRAME			TO CONTROL FRAME (0)			
LEAD DESIG	TEST AT EQL	TEST AT TERM	TERM STRIP	TERM ROW	TERM COL	NOTE
DTSC00H,L	048-02	318,218	00	07H,L	00	1
LESC00H,L		217,317		10	14	
LESC01H,L		216,316		31	11	
SRSC00H,L		315,215		00	04	
SCAC0FH,L		213,313		26	12	
SCACACFH,L		212,312		25	12	
SRSC01H,L		209,309		00	00	
02		208,308		30	08	
03		207,307		30	09	
04		206,306		30	10	
05		205,305		30	11	
06		204,304		30	12	
07		203,303		30	13	
08		202,302		30	14	
SRSC09H,L		201,301		30	15	
TPSC09H,L	048-39	309,209		25	07	
02		208,308		26	03	
17		207,307		24	09	
11		306,206		26	06	
12		305,205		26	05	
15		304,204		26	07	
TPSC16H,L		203,303		24	08	
CPSCH,L		202,302		06	13	
TPSC04H,L		201,301		26	04	
TPSC14H,L		109,009		27	04	
TPSC13H,L		108,008		27	03	
00		107,007		27	05	
06		106,006		25	03	
01		105,005		24	06	
18		004,104		25	06	
08		103,003		25	05	
07		102,002		25	04	
TPSC03H,L		101,001		24	07	
TDSC0H,L		000,100	00	08H,L	04	1

TABLE B (Cont.)

FROM TEST FRAME			TO CONTROL FRAME (0)			
LEAD DESIG	TEST AT EQL	TEST AT TERM	TERM STRIP	TERM ROW	TERM COL	NOTE
ITSC03H,L0	052-24	019,119	00	29H,L	10	1
02		018,118		29	09	
01		017,117		29	08	
00		016,116		08	02	
ITSC04H,L0		015,115		29	11	
ITSC03H,L1		014,114		31	14	
02		013,113		31	13	
01		012,112		31	12	
00		011,111		11	04	
ITSC04H,L1		010,110		31	15	
LISCA0H,1L	052-35	318,218		06	15	
LISCB0H,1L		317,217		29	14	
LISCC0H,1L		316,216	00	29H,L	15	1

TABLE C

FROM TEST FRAME			TO HCDF		
LEAD DESIG	TEST AT EQL	TEST AT TERM	LOC	TERM	NOTE
TPPDT,R1	048-39	218,318	J01	000,001	1
TPNR2		317		003	
TPRNG0		217		002	
TPPDT,R		216,316		004,005	
TDNT,R		315,215		006,007	
LIT,R		314,214		010,011	
ITNT,R10		313,213		012,013	
ITNT,R11		312,212		014,015	
CPNT,R		311,211		016,017	
TTNT,R		310,210		020,021	
DTNT,R	052-02	318,218		022,023	
SRNT,R0		317,217		024,025	
SRNT,R1		316,216		026,027	
RTT,R		315,215		030,031	
TPNT,R10		214,314		032,033	
TPNT,R00		213,313	J01	034,035	1

TABLE C (Cont.)

FROM TEST FRAME			TO HCDF		
LEAD DESIG	TEST AT EQL	TEST AT TERM	LOC	TERM	NOTE
TENT,R0	052-02	109,009	J01	036,037	1
TENT,R1		107,007		040,041	
LENT,R		105,005		042,043	
ITTTS,G10	052-24	309,209		050,051	
ITTTT,R20		308,208		052,053	
ITTS14		307		054	
ITTTG11		207		055	
ITTTT,R21		306,206		056,057	
ITTTS,G20		109,009		060,061	
ITTTT,R30		108,008		062,063	
ITTTS,G21		107,007		064,065	
ITTTT,R31		106,006	J01	066,067	
TTYNT,R01	056-02	317,217	J02	234,235	
TTYNT,R11		316,216		236,237	
TTYPLT,R01		315,215		240,241	
TTYPLT,R11		314,214		242,243	
TTYT,R01		313,213		244,245	
TTYT,R11		312,212		246,247	
TTYNT,R00		117,017		220,221	
TTYNT,R10		116,016		222,223	
TTYPLT,R00		115,015		224,225	
TTYPLT,R10		114,014		226,227	
TTYT,R00		113,013		230,231	
TTYT,R10		112,012	J02	232,233	1

TABLE D

FROM TEST FRAME			TO MP FRAME (RINGING & TONE PLANT)		
LEAD DESIG	TEST AT EQL	TEST AT TERM	TERM STRIP	TERM	NOTE
60A-2	048-39	018	(D)	34	1
60B-2		118		35	
120A-2		112		36	
120B-2		113		37	

NOTE 1: Remove circuit pack(s) in and/or adjacent to this EQL to allow clearance for the ITE-5477C Extender Board. Replace pack(s) after test. ←

→Arrows indicate new or changed information.

Reason for Reissue:
Circuit Design Change.

Manager, ESS Installation & Field Engineering