NO. 3 ESS
CONTINUITY TESTS
TRUNK AND SERVICE CIRCUIT UNITS

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 each particular trunk and service circuit unit. The tests will be performed on the front of the unit using an extender board to make the test points more readily accessible.

1.2 Sequence

1.21 These tests should be performed before power verification tests of Handbook 269.

1.3 References

1.31 References are included with each table.

1.4 Records

1.41 The results of tests of this section shall be recorded on forms SD-97-1313 and SD-97-1315. For detailed information on test records refer to Section 6B, Handbook 3.

2. TEST EQUIPMENT

2.1	ITE-4525A*	Tone Buzzer Test Set
	ITE-9424*	Cord, 6' long with ITE-2461 sockets at both ends
	ITE-5477C*	Extender board, circuit pack ←

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

3. TEST OPERATION

3.1 Test Set Calibration

3.11 For detailed information on test set calibration see Section 100 of Handbook 269.

3.2 Procedure

3.21 For detailed information on test procedure see Section 100 of Handbook 269.

4. TABLES

4.1 The tables for each unit tested are listed as follows:

Paragraph	Drawing Number
4.101	SD-3H205-01
4.102	SD-3H208-01
4.103	SD-3H220-01
4.104	SD-3H401-01
4.105	SD-3H402-01
4.106	SD-3H403-01
4.107	SD-3H404-01
4.108	SD-3H406-01
4.109	SD-3H410-01
4.110	SD-3H411-01
4.111	SD-3H911-01

4.101 Dial Tone First Coin Line Circuit; SD-3H205-01

FROM				TO		
FRAME	LEAD DESIGNATION	UNIT EQL	TERMINAL	FRAME	TERMINAL	NOTE
MISC	T0(0),R0(0)	02-24	101,001	CDF	NOTE 1*	2*
	T2(0),R2(0)		102,002			
	T0(1),R0(1)		103,003			
	T2(1),R2(1)		104,004			
	T0(2),R0(2)		105,005			
	T2(2),R2(2)		106,006			
	T0(3),R0(3)		107,007			
	T2(3),R2(3)		108,008			
	T0(4),R0(4)		301,201			
	T2(4),R2(4)		302,202			
	T0(5),R0(5)		303,203			
	T2(5),R2(5)		304,204			
	T0(6),R0(6)		305,205			
	T2(6),R2(6)		306,206			
	T0(7),R0(7)		307,207			
	T2(7),R2(7)		308,208			
	T1(0),R1(0)		111,011			
	T3(0),R3(0)		112,012			
	T1(1),R1(1)		113,013			
	T3(1),R3(1)		114,014			
	T1(2),R1(2)		115,015			
	T3(2),R3(2)		116,016			
	T1(3),R1(3)		117,017			
	T3(3),R3(3)		118,018			
	T1(4),R1(4)		311,211			
	T3(4),R3(4)		312,212			
	T1(5),R1(5)		313,213			
	T3(5),R3(5)		314,214			
	T1(6),R1(6)		315,215			
	T3(6),R3(6)		316,216			
	T1(7),R1(7)		317,217			
	T3(7),R3(7)		318,218			

4.102 Noise Immunity Line Circuit; SD-3H208-01

FROM				TO		
FRAME	LEAD DESIGNATION	UNIT EQL	TERMINAL	FRAME	TERMINAL	NOTE
MISC	T1-00,R1-00	02-32	111,011	CDF	NOTE 1*	3*
	T1-10,R1-10		112,012			
	T1-01,R1-01		113,013			
	T1-11,R1-11		114,014			
	T1-02,R1-02		115,015			
	T1-12,R1-12		116,016			
	T1-03,R1-03		117,017			
	T1-13,R1-13		118,018			
	T1-04,R1-04		311,211			
	T1-14,R1-14		312,212			
	T1-05,R1-05		313,213			
	T1-15,R1-15		314,214			

* FOR NOTES SEE PAGE 11.

4.102 Noise Immunity Line Circuit; SD-3H208-01 (Cont.)

FROM				TO		
FRAME	LEAD DESIGNATION	UNIT EQL	TERMINAL	FRAME	TERMINAL	NOTE
MISC (Cont.)	T1-06,R1-06 T1-16,R1-16 T1-07,R1-07 T1-17,R1-17	02-32	315,215 316,216 317,217 318,218	CDF	NOTE 1*	3*
	T-00,R-00 T-10,R-10 T-01,R-01 T-11,R-11		101,001 102,002 103,003 104,004			
	T-02,R-02 T-12,R-12 T-03,R-03 T-13,R-13		105,005 106,006 107,007 108,008			
	T-04,R-04 T-14,R-14 T-05,R-05 T-15,R-15		301,201 302,202 303,203 304,204			
	T-06,R-06 T-16,R-16 T-07,R-07 T-17,R-17		305,205 306,206 307,207 308,208			
	SL-00,SLR-00 SL-10,SLR-10 SL-01,SLR-01 SL-11,SLR-11	02-35	111,011 112,012 113,013 114,014			
	SL-02,SLR-02 SL-12,SLR-12 SL-03,SLR-03 SL-13,SLR-13		115,015 116,016 117,017 118,018			
	SL-04,SLR-04 SL-14,SLR-14 SL-05,SLR-05 SL-15,SLR-15		311,211 312,212 313,213 314,214			
	SL-06,SLR-06 SL-16,SLR-16 SL-07,SLR-07 SL-17,SLR-17		315,215 316,216 317,217 318,218			

4.103 Universal Trunk Circuit; SD-3H220-01

FROM				TO		
FRAME	LEAD DESIGNATION	UNIT EQL	TERMINAL	FRAME	TERMINAL	NOTE
MISC OR CONT(1)	L(00)T,H(00)T L(01)T,H(01)T L(02)T,H(02)T L(03)T,H(03)T	02-20	010,110 011,111 012,112 013,113	CONT(0)	MASTER SCANNER T.S. UNIT (See NOTE 1*)	
	L(04)T,H(04)T L(05)T,H(05)T L(06)T,H(06)T L(07)T,H(07)T		014,114 015,115 210,310 211,311			
	L(08)T,H(08)T L(09)T,H(09)T L(10)T,H(10)T L(11)T,H(11)T		212,312 213,313 214,314 215,315			
	L(12)T,H(12)T L(13)T,H(13)T L(14)T,H(14)T L(15)T,H(15)T	06-20	010,110 011,111 012,112 013,113			

* FOR NOTES SEE PAGE 11.

4.103 Universal Trunk Circuit; SD-3H220-01 (Cont.)

FROM				TO		
FRAME	LEAD DESIGNATION	UNIT EQL	TERMINAL	FRAME	TERMINAL	NOTE
MISC OR CONT(1) (Cont.)	L(16)T,H(16)T L(17)T,H(17)T L(18)T,H(18)T L(19)T,H(19)T L(20)T,H(20)T L(21)T,H(21)T L(22)T,H(22)T L(23)T,H(23)T	06-20	014,114 015,115 210,310 211,311 212,312 213,313 214,314 215,315	CONT(0)	MASTER SCANNER T.S. UNIT (See NOTE 1*)	
MISC OR NET OR CONT	T(00),R(00) T1(00),R1(00) EA(00),EB(00) MA(00),MB(00) T(01),R(01) T1(01),R1(01) EA(01),EB(01) MA(01),MB(01) T(02),R(02) T1(02),R1(02) EA(02),EB(02) MA(02),MB(02) T(03),R(03) T1(03),R1(03) EA(03),EB(03) MA(03),MB(03)	02-20	001,101 002,102 003,103 004,104 005,105 006,106 007,107 008,108 201,301 202,302 203,303 204,304 205,305 206,306 207,307 208,308	CDF	NOTE 1*	3*
	T(04),R(04) T1(04),R1(04) EA(04),EB(04) MA(04),MB(04) T(05),R(05) T1(05),R1(05) EA(05),EB(05) MA(05),MB(05) T(06),R(06) T1(06),R1(06) EA(06),EB(06) MA(06),MB(06) T(07),R(07) T1(07),R1(07) EA(07),EB(07) MA(07),MB(07) T(08),R(08) T1(08),R1(08) EA(08),EB(08) MA(08),MB(08) T(09),R(09) T1(09),R1(09) EA(09),EB(09) MA(09),MB(09) T(10),R(10) T1(10),R1(10) EA(10),EB(10) MA(10),MB(10)	02-27	001,101 002,102 003,103 004,104 005,105 006,106 007,107 008,108 201,301 202,302 203,303 204,304 205,305 206,306 207,307 208,308 011,111 012,112 013,113 014,114 015,115 016,116 017,117 018,118 211,311 212,312 213,313 214,314			

* FOR NOTES SEE PAGE 11.

4.103 Universal Trunk Circuit; SD-3H220-01 (Cont.)

FROM				TO		
FRAME	LEAD DESIGNATION	UNIT EQL	TERMINAL	FRAME	TERMINAL	NOTE
MISC OR NET OR CONT (Cont.)	T(11),R(11) T1(11),R1(11) EA(11),EB(11) MA(11),MB(11)	02-27	215,315 216,316 217,317 218,318	CDF	NOTE 1*	3*
	T(12),R(12) T1(12),R1(12) EA(12),EB(12) MA(12),MB(12) T(13),R(13) T1(13),R1(13) EA(13),EB(13) MA(13),MB(13) T(14),R(14) T1(14),R1(14) EA(14),EB(14) MA(14),MB(14) T(15),R(15) T1(15),R1(15) EA(15),EB(15) MA(15),MB(15)	06-20	001,101 002,102 003,103 004,104 005,105 006,106 007,107 008,108 201,301 202,302 203,303 204,304 205,305 206,306 207,307 208,308			
	T(16),R(16) T1(16),R1(16) EA(16),EB(16) MA(16),MB(16) T(17),R(17) T1(17),R1(17) EA(17),EB(17) MA(17),MB(17) T(18),R(18) T1(18),R1(18) EA(18),EB(18) MA(18),MB(18) T(19),R(19) T1(19),R1(19) EA(19),EB(19) MA(19),MB(19) T(20),R(20) T1(20),R1(20) EA(20),EB(20) MA(20),MB(20) T(21),R(21) T1(21),R1(21) EA(21),EB(21) MA(21),MB(21) T(22),R(22) T1(22),R1(22) EA(22),EB(22) MA(22),MB(22) T(23),R(23) T1(23),R1(23) EA(23),EB(23) MA(23),MB(23)	06-27	001,101 002,102 003,103 004,104 005,105 006,106 007,107 008,108 201,301 202,302 203,303 204,304 205,305 206,306 207,307 208,308 011,111 012,112 013,113 014,114 015,115 016,116 017,117 018,118 211,311 212,312 213,313 214,314 215,315 216,316 217,317 218,318			

* FOR NOTES SEE PAGE 11.

4.104 TOUCH-TONE® Calling Detector Circuit Type B2; SD-3H401-01

FROM				TO		
FRAME	LEAD DESIGNATION	UNIT EQL	TERMINAL	FRAME	TERMINAL	NOTE
MISC	SC01L(0),SC01H(0) SC02L(0),SC02H(0) SC03L(0),SC03H(0) SC04L(0),SC04H(0) SC05L(0),SC05H(0) SC06L(0),SC06H(0) SC07L(0),SC07H(0) SC08L(0),SC08H(0) SC09L(0),SC09H(0)	05-18	11,21 31,41 12,22 32,42 13,23 33,43 14,24 34,44 15,25	CONT(0)	MASTER SCANNER T.S. UNIT (See NOTE 1*)	
	SC01L(1),SC01H(1) SC02L(1),SC02H(1) SC03L(1),SC03H(1) SC04L(1),SC04H(1) SC05L(1),SC05H(1) SC06L(1),SC06H(1) SC07L(1),SC07H(1) SC08L(1),SC08H(1) SC09L(1),SC09H(1)	05-50	11,21 31,41 12,22 32,42 13,23 33,43 14,24 34,44 15,25			
→	T0,R0 T1,R1	05-18 05-50	56,46 56,46	CDF	NOTE 1*	2*

4.105 MF Receiver Circuit; SD-3H402-01

FROM				TO		
FRAME	LEAD DESIGNATION	UNIT EQL	TERMINAL	FRAME	TERMINAL	NOTE
MISC	SC01H,SC01L SC00H,SC00L SC03H,SC03L SC02H,SC02L SC05H,SC05L SC04H,SC04L SC07H,SC07L SC06H,SC06L	03-55	11,21 31,41 12,22 32,42 13,23 33,43 14,24 34,44	CONT(0)	MASTER SCANNER T.S. UNIT (See NOTE 1*)	
	T,R		46,36	CDF	NOTE 1*	3*

4.106 Trunk Dial Pulse Transmitter Circuit; SD-3H403-01

FROM				TO		
FRAME	LEAD DESIGNATION	UNIT EQL	TERMINAL	FRAME	TERMINAL	NOTE
MISC	L1(0),H1(0) L2(0),H2(0) L1(1),H1(1) L2(1),H2(1) L1(2),H1(2) L2(2),H2(2) L1(3),H1(3) L2(3),H2(3)	02-17	211,311 212,312 213,313 214,314 215,315 216,316 217,317 218,318	CONT(0)	MASTER SCANNER T.S. UNIT (See NOTE 1*)	

* FOR NOTES SEE PAGE 11.

4.106 Trunk Dial Pulse Transmitter Circuit; SD-3H403-01 (Cont.)

FROM				TO		
FRAME	LEAD DESIGNATION	UNIT EQL	TERMINAL	FRAME	TERMINAL	NOTE
MISC	L1(4),H1(4) L2(4),H2(4) L1(5),H1(5) L2(5),H2(5) L1(6),H1(6) L2(6),H2(6) L1(7),H1(7) L2(7),H2(7)	02-17	011,111 012,112 013,113 014,114 015,115 016,116 017,117 018,118	CONT(0)	MASTER SCANNER T.S. UNIT (See NOTE 1*)	
	L1(8),H1(8) L2(8),H2(8) L1(9),H1(9) L2(9),H2(9) L1(10),H1(10) L2(10),H2(10) L1(11),H1(11) L2(11),H2(11)	02-20	211,311 212,312 213,313 214,314 215,315 216,316 217,317 218,318			
	T(0),R(0) T(1),R(1) T(2),R(2) T(3),R(3) T(4),R(4) T(5),R(5) T(6),R(6) T(7),R(7) T(8),R(8) T(9),R(9) T(10),R(10) T(11),R(11)	02-27	201,301 202,302 203,303 204,304 205,305 206,306 207,307 101,001 102,002 103,003 104,004 105,005	CDF	NOTE 1*	2*

4.107 MF Transmitter Circuit; SD-3H404-01

FROM				TO		
FRAME	LEAD DESIGNATION	UNIT EQL	TERMINAL	FRAME	TERMINAL	NOTE
MISC OR CONT	T(0),R(0) T(1),R(1) T(2),R(2) T(3),R(3)	02-27	201,301 202,302 203,303 204,304	CDF	NOTE 1*	2*
MISC OR CONT(1)	SC00L(0),SC00H(0) SC01L(0),SC01H(0) SC02L(0),SC02H(0) SC00L(1),SC00H(1) SC01L(1),SC01H(1) SC02L(1),SC02H(1) SC00L(2),SC00H(2) SC01L(2),SC01H(2) SC02L(2),SC02H(2) SC00L(3),SC00H(3) SC01L(3),SC01H(3) SC02L(3),SC02H(3)	02-17	011,111 012,112 013,113 014,114 015,115 016,116 211,311 212,312 213,313 214,314 215,315 216,316	CONT(0)	MASTER SCANNER T.S. UNIT (See NOTE 1*)	

* FOR NOTES SEE PAGE 11.

4.108 Superimposed Ringing Circuit; SD-3H406-01

FROM				TO		
FRAME	LEAD DESIGNATION	UNIT EQL	TERMINAL	FRAME	TERMINAL	NOTE
MISC	T0,R0 T1,R1 T2,R2 T3,R3 T4,R4 T5,R5 SC00L00,SC00H00 SC01L00,SC01H00 SC00L02,SC00H02 SC01L02,SC01H02 SC00L04,SC00H04 SC01L04,SC01H04 SC00L01,SC00H01 SC01L01,SC01H01 SC00L03,SC00H03 SC01L03,SC01H03 SC00L05,SC00H05 SC01L05,SC01H05	02-20	001,101 002,102 003,103 004,104 005,105 006,106 010,110 011,111 012,112 013,113 014,114 015,115 210,310 211,311 212,312 213,313 214,314 215,315	CDF	NOTE 1*	3*

4.109 Customer Dial Pulse Receiver and Regular Ringing Circuits; SD-3H410-01

FROM				TO		
FRAME	LEAD DESIGNATION	UNIT EQL	TERMINAL	FRAME	TERMINAL	NOTE
NET	SC00L(00),SC00H(00) SC00L(01),SC00H(01) SC00L(02),SC00H(02) SCD00L(00),SCD00H(00) SCD00L(01),SCD00H(01) SCD00L(02),SCD00H(02) SCD00L(03),SCD00H(03)	02-20	210,310 211,311 212,312 213,313 214,314 215,315 216,316	CONT(0)	MASTER SCANNER T.S. UNIT (See NOTE 1*)	
CONT(0)	DT0-0,DR0-0 T0,R0 DT0-1,DR0-1 T1,R1 DT0-2,DR0-2 T2,R2 DT0-3,DR0-3		301,201 302,202 303,203 304,204 305,205 306,206 307,207	CDF	NOTE 1*	2*

* FOR NOTES SEE PAGE 11.

4.110 Coin Control, Tone & Recorded Announcement and Remote Recording Announcement Circuit; SD-3H411-01

FROM				TO		
FRAME	LEAD DESIGNATION	UNIT EQL	TERMINAL	FRAME	TERMINAL	NOTE
MISC OR CONT(1)	SC01L(00),SC01H(00) SC01L(01),SC01H(01) SC01L(02),SC01H(02) SC01L(03),SC01H(03) SC01L(04),SC01H(04) SC01L(05),SC01H(05) SC01L(06),SC01H(06) SC01L(07),SC01H(07) SC01L(08),SC01H(08) SC01L(09),SC01H(09) SC01L(10),SC01H(10) SC01L(11),SC01H(11) SC02L(11),SC02H(11)	02-20	011,111 012,112 013,113 014,114 015,115 016,116 017,117 018,118 211,311 212,312 213,313 214,314 215,315	CONT(0)	MASTER SCANNER T.S. UNIT (See NOTE 1*)	
MISC OR CONT	R0(00),T0(00) R1(00),T1(00) R0(01),T0(01) R1(01),T1(01) R0(02),T0(02) R1(02),T1(02) R0(03),T0(03) R1(03),T1(03) R0(04),T0(04) R1(04),T1(04) R0(05),T0(05) R1(05),T1(05) R0(06),T0(06) R1(06),T1(06) R0(07),T0(07) R1(07),T1(07)	02-20	001,101 002,102 003,103 004,104 005,105 006,106 007,107 008,108 201,301 202,302 203,303 204,304 205,305 206,306 207,307 208,308	HCDF	NOTE 1*	3*
MISC OR CONT	RA1(00),TA1(00) RA1(01),TA1(01) RA1(02),TA1(02) RA1(03),TA1(03) RA1(04),TA1(04) RA1(05),TA1(05) RA1(06),TA1(06) RA1(07),TA1(07) RA1(08),TA1(08) RA1(09),TA1(09) RA1(10),TA1(10) RA1(11),TA1(11)	02-12	001,101 002,102 003,103 004,104 005,105 006,106 007,107 008,108 201,301 202,302 207,307 208,308	HCDF	NOTE 1*	3*

* FOR NOTES SEE PAGE 11.

4.110 Coin Control, Tone & Recorded Announcement and Remote Recording Announcement Circuit; SD-3H411-01 (Cont.)

FROM				TO		
FRAME	LEAD DESIGNATION	UNIT EQL	TERMINAL	FRAME	TERMINAL	NOTE
MISC OR CONT (Cont.)	RO(08),TO(08) R1(08),T1(08) RO(09),TO(09) R1(09),T1(09) RO(10),TO(10) R1(10),T1(10) RO(11),TO(11) R1(11),T1(11)	02-24	211,311 212,312 213,313 214,314 215,315 216,316 217,317 218,318	HCDF	NOTE 1*	3*
	CO(00),BA(00) STA(00),ST1A(00) CO(01),BA(01) STA(01),ST1A(01) CO(02),BA(02) STA(02),ST1A(02) CO(03),BA(03) STA(03),ST1A(03) CO(04),BA(04) STA(04),ST1A(04) CO(05),BA(05) STA(05),ST1A(05) CO(06),BA(06) STA(06),ST1A(06) CO(07),BA(07) STA(07),ST1A(07) CO(08),BA(08) STA(08),ST1A(08) CO(09),BA(09) STA(09),ST1A(09) CO(10),BA(10) STA(10),ST1A(10) CO(11),BA(11) STA(11),ST1A(11) DL1(11),DA(11)	02-24	001,101 002,102 003,103 004,104 005,105 006,106 007,107 008,108 201,301 202,302 203,303 204,304 205,305 206,306 207,307 208,308 011,111 012,112 013,113 014,114 015,115 016,116 017,117 018,118 019,119	HCDF	NOTE 1*	2*
	RT1(00),TT1(00) RT1(01),TT1(01) RT1(02),TT1(02) RT1(03),TT1(03) RT1(04),TT1(04) RT1(05),TT1(05) RT1(06),TT1(06) RT1(07),TT1(07) RT1(08),TT1(08) RT1(09),TT1(09) RT1(10),TT1(10) RT1(11),TT1(11)	02-27	002,102 003,103 004,104 005,105 006,106 007,107 202,302 203,303 204,304 205,305 206,306 207,307			
	RAO(00),TAO(00) RAO(01),TAO(01) RAO(02),TAO(02) RAO(03),TAO(03) RAO(04),TAO(04) RAO(05),TAO(05) RAO(06),TAO(06) RAO(07),TAO(07)	02-32	002,102 003,103 004,104 005,105 006,106 007,107 202,302 203,303			

* FOR NOTES SEE PAGE 11.

4.110 Coin Control Tone & Recorded Announcement and Remote Recording Announcement Circuit; (Cont.)

FROM				TO		
FRAME	LEAD DESIGNATION	UNIT EQL	TERMINAL	FRAME	TERMINAL	NOTE
MISC OR CONT (Cont.)	RAO(08),TAO(08) RAO(09),TAO(09) RAO(10),TAO(10) RAO(11),TAO(11) RTO(00),TTO(00) RTO(01),TTO(01) RTO(02),TTO(02) RTO(03),TTO(03) RTO(04),TTO(04) RTO(05),TTO(05) RTO(06),TTO(06) RTO(07),TTO(07) RTO(08),TTO(08) RTO(09),TTO(09) RTO(10),TTO(10) RTO(11),TTO(11)	02-32	204,304 205,305 206,306 207,307 012,112 013,113 014,114 015,115 016,116 017,117 212,312 213,313 214,314 215,315 216,316 217,317	HCDF	NOTE 1*	2* ←

4.111 Distribute Point Applique Circuit; SD-3H911-01

FROM				TO		
FRAME	LEAD DESIGNATION	UNIT EQL	TERMINAL	FRAME	TERMINAL	NOTE
MISC	MM(0),M0(0) MM(0),M1(0) MM(2),M0(2) MM(2),M1(2)	01-43	57,56 55,45 54,53 52,42	CDF	NOTE 1*	2*
	MM(1),M0(1) MM(1),M1(1) MM(3),M0(3) MM(3),M1(3)	01-39	57,56 55,45 54,53 52,42			

4.2 NOTES:

1. For Job Assignment see Office Record Drawings.
2. "H" Side
3. "E" Side

Arrows indicate new or changed information.

Manager, ESS Installation & Field Engineering

8-26-77

Reason for Reissue:
Corrections.