

DIRECTIONAL RESERVATION CIRCUIT SD-26154-01

TESTS

NO. 5 CROSSBAR OFFICES

1. GENERAL

PAGE

1.01 This section is reissued for the following reasons:

DRE can be overridden from the remote control location. **5**

(a) To add Test E for checking the operation of the Directional Reservation Circuit, (DRE) from a remote Engineering Administration Data Acquisition System Network Management, (EADAS/NM) central unit.

E. EADAS/NM Control: This test checks the capability of controlling the DRE circuit by the EADAS/NM computer. **6**

This reissue affects Equipment Test Lists.

1.03 A total of four DRE circuits may be installed per marker group.

1.02 The tests covered are:

PAGE

1.04 Operation of EC relay allows EADAS/NM to control the DRE circuit and disables the manual control, switch A, and the remote control, Fig. 3 and 4 of SD-26154-01.♦

A. Seizure and Release: The following features are checked: (1) Proper operation and release of the BT relay. (2) Operation of MB0 and MB1 relays. (3) Operation of associated lamps at relay rack equipment location and, when provided, at MTF jack, lamp, and key circuit and testboard jack circuit.

2

2. APPARATUS

Test A, D

2.01 Blocking and insulating tools as required. Use tools and apply as covered in Section 069-020-801.

2.02 Testing cord, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord) and two KS-6278 connecting clips (for making test connection to front contact of BT relay).

B. B1, B2 Lead Continuity Test: This test checks for continuity between B1 and B2 leads when the MB-relay is operated.

3

Test B

2.03 67C test set or equivalent, equipped with one KS-6278 connecting clip (for use in checking presence of ground or battery).

C. Remote Control: This test checks that the DRE can be seized and controlled from a remote location.

3

D. Control Transfer: This test checks that the local control of the

NOTICE

Not for use or disclosure outside the Bell System except under written agreement

3. METHOD

STEP	ACTION	VERIFICATION
A. Seizure and Release		
1	At DRE— Operate B key to TST RLS.	
2	Set switch A to 1.	
3	Operate A key.	A (green), B (red) guard lamps lighted.
4	Operate B key to TST OPR.	A, B lamps remain lighted. BT0 (amber) lamp lighted.
5	Operate B key to TST RLS.	A, B lamps remain lighted. BT0 lamp extinguished.
6	Restore A key.	A, B lamps extinguished.
7	Repeat Steps 2 through 6 for A switch positions 2 through 5.	
8	Operate B key to NORM.	
9	Operate A key.	Lamp A lighted. If remote lamp indications are provided— At jack, lamp, and key circuit— DRE lamp lighted. At testboard jack circuit— DR lamp lighted.
10	At DRE— Block operated C relay.	If remote lamp indications are provided— At jack, lamp, and key circuit— DRE lamp flashes. At testboard jack circuit— DR lamp flashes.
11	At DRE— Remove cover from BT relay.	
12	Connect ground to front contact of BT relay.	
	Note: The operation of relays MB0 and MB1 cause the associated trunks to be made busy; therefore, Steps 13 and 14 should be performed with a minimum of delay.	
13	Remove blocking tool from C relay.	A, B, C, MB0, MB1 relays operated.
14	Restore A key.	A, B, C, MB0, MB1 relays released. Lamp A extinguished. If remote lamp indications are provided—

STEP	ACTION	VERIFICATION
		At jack, lamp, and key circuit— DRE lamp extinguished. At testboard jack circuit— DR lamp extinguished.
15	At DRE— Remove ground from BT relay contact.	
16	Replace BT relay cover.	
B. B1, B2 Lead Continuity Test		
1	At DRE— While trunk under test is idle— Test for presence of battery at terminal(s) listed in Table A for B2 lead. <i>Note:</i> Use high resistance test set to prevent operation of B relay in trunk circuit under test.	Battery present.
2	Test for presence of ground at terminal(s) listed in Table A for B1 lead.	Ground present.
3	Momentarily operate MB- relay. While MB- relay operated, test for presence of ground at terminal(s) listed in Table A for B2 lead.	Ground present.
C. Remote Control		
1	At remote control location— Set B_ switch associated with DRE under test to 2.	At DRE— A (green) lamp lighted. At remote control location DR lamp lighted.
2	At DRE— Operate B key to TST OPR.	A (green) lamp remains lighted. BT0 (amber) lamp lighted. B (red) guard lamp lighted. At remote control location— DR lamp extinguished.
3	At DRE— Operate B key to TST RLS.	A (green), B (red) lamps remain lighted. BT0 lamp extinguished.
4	Repeat Steps 1 through 3 for switch positions 3 through 6.	
5	At remote control location— Set B_ switch associated with DRE under test to 1.	

TABLE A

TRUNK		MB- RELAY	MBO OR MB1 RELAY CONTACT	LEAD TERMINALS	
TSA	TSB			B1	B2
1st		0	1	12	11
	2nd	1			
3rd		0	2	14	13
	4th	1			
5th		0	3	16	15
	6th	1			
7th		0	4	18	17
	8th	1			
9th		0	5	22	21
	10th	1			
11th		0	6	24	23
	12th	1			
13th		0	7	26	25
	14th	1			
15th		0	8	28	27
	16th	1			
17th		0	9	32	31
	18th	1			
19th		0	10	34	33
	20th	1			
21st		0	11	36	35
	22nd	1			
23rd		0	12	38	37
	24th	1			
25th		0	13	42	41
	26th	1			
27th		0	14	44	43
	28th	1			
29th		0	15	46	45
	30th	1			
31st		0	16	48	47
	32nd	1			
33rd		0	17	52	51
	34th	1			
35th		0	18	54	53
	36th	1			
37th		0	19	56	55
	38th	1			
39th		0	20	58	57
	40th	1			

STEP	ACTION	VERIFICATION
6	Repeat Steps 1 through 5 for remaining equipped directional reservation units.	
7	At DRE— Restore all keys and switches not required for next test.	All lamps extinguished.
D. Control Transfer		
1	At DRE— Operate B key to TST RLS.	
2	Operate A key.	A (green), B (red) guard lamps lighted.
3	Set A switch to 1.	
4	Operate B key to TST OPR.	A (green), B (red) lamps remain lighted. BT0 (amber) lamp lighted.
5	Insulate 3M of N relay.	
6	At remote control location— Set B_ switch to position 2.	At DRE— M, N, K relays operated. BT0 lamp extinguished.
7	Remove insulator from N relay.	BT0 lamp lighted.
8	Insulate 11M of M relay.	BT0 lamp extinguished.
9	Set A switch to 2.	
10	At remote control location— Set B_ switch to 3.	At DRE— K, M relays operated. BT0 lamp remains extinguished.
11	Remove insulator from M relay.	BT0 lamp lighted.
12	Insulate 3B of L relay.	BT0 lamp extinguished.
13	Set A switch to 3.	
14	At remote control location— Set B_ switch to 4.	At DRE— K relay operated. BT0 lamp remains extinguished.
15	Remove insulator from L relay.	BT0 lamp lighted.
16	Insulate 10M of M relay.	
17	Set A switch to 4.	

SECTION 218-762-501

STEP	ACTION	VERIFICATION
18	At remote control location— Set B_ switch to 5.	At DRE— K, L, M relays operated. BT0 lamp extinguished.
19	Remove insulator from M relay.	BT0 lamp lighted.
20	Insulate 10B of M relay.	
21	Set A switch to 5.	
22	At remote control location— Set B_ switch to 6.	At DRE— K, L relays operated. BT0 lamp extinguished.
23	Remove insulator from M relay.	BT0 lamp lighted.
24	At remote control location— Set B_ switch to 1.	
25	At DRE— Restore all keys and switches.	All lamps extinguished.
26	Repeat Steps 1 through 25 for remaining equipped DREs.	
E. EADAS/NM Control		
1	Establish talking connection with EADAS/NM central unit.	
2	At DRE circuit— Set A key to normal position.	A (green), B (red) guard lamps extinguished.
3	Set B key to NORM position.	
4	Request EADAS/NM central unit to initiate a request to seize the DRE circuit under test. Note: Refer to 1.03, 1.04.	At DRE circuit— EC relay operated. EC lamp lighted. A lamp lighted. ON relay operated. If remote lamp indications are provided— At MTF— DRE lamp lighted. At testboard jack circuit— DR lamp lighted. At EADAS/NM central unit— Discrete-on indication received at EADAS/NM, indicating EADAS/NM has control of the DRE or DRE circuits.
5	Request EADAS/NM to initiate a request to reserve one trunk.	At DRE circuit— S-1 relay operates.

STEP	ACTION	VERIFICATION
		At EADAS/NM control unit— Discrete-on indication that S-1 has operated indicating one trunk held in reserve.
6	Repeat Step 5, testing remaining S-2 through S-5 relays.	
7	Request EADAS/NM to release DRE circuit.	At DRE circuit— EC lamp extinguished. EC relay normal. A lamp extinguished. ON relay normal. If remote lamp indications are provided. At MTF— DRE lamp extinguished. At testboard jack circuit— DR lamp extinguished.
8	Repeat Steps 2 through 7 for remaining equipped DREs.	
9	Restore circuit per local instructions.⚡	

