

**PREFERENCE CONTROL AND MAKE-BUSY CIRCUITS**  
**WIRE-SPRING-RELAY TYPE**  
**FOR LINE LINK, AUXILIARY LINE LINK, TRANSFER LINE LINK,**  
**TRUNK LINK, TRANSFER TRUNK LINK, NUMBER GROUP,**  
**OUTGOING SENDER, AND DIRECT ACCESS PRETRANSLATOR CONNECTOR**  
**TESTS**  
**NO. 5 CROSSBAR OFFICES**

1. GENERAL	PAGE
1.01 This section is reissued for the following reasons:	
(a) To revise the title of the section to include the direct access pretranslator connector	
(b) To revise Test B to include a test of the direct access pretranslator connector	
(c) To delete Test C	
(d) To reletter Tests D and E to Tests C and D, respectively	
(e) To make minor changes as required.	
1.02 The tests covered are:	
PAGE	
A. <i>Marker Preference Chain—Transfer and Alarm Features:</i> This test checks the ability of the marker preference chain transfer circuit to recognize an open in the chain circuit, to cause the transfer from one marker chain to another, and to sound the minor alarm.	2
B. <i>Frame Make-Busy Features—Line Link, Transfer Line Link, Direct Access Pretranslator Connector, and Number Group Frames:</i> This test checks the operate path of the make-busy circuit	
C. <i>Frame Make-Busy Feature—Auxiliary Line Link Frame:</i> This test checks that a paired line link frame appears to the marker as nonpaired when the auxiliary line link frame is made busy.	4
D. <i>Marker Preference—Paired Line Link Frames:</i> This test checks the preference control circuit as used with paired line link frames when the marker attempts mate operation.	4
1.03 Test B requires that a line link frame, transfer line link, direct access pretranslator connector, or a number group frame be made busy.	
1.04 Test C requires that an auxiliary line link frame be made busy.	
1.05 <i>Lettered Steps:</i> A letter a, b, c, etc, added to a step number in Part 3 of this section indicates an action which may or may not be required depending on local conditions. The condition under which a lettered step or a series of lettered steps should be made is given in the ACTION column, and all steps governed by the same condition are designated by the same letter within a test. Where a condition does not apply, all steps designated by that letter should be omitted.	



STEP	ACTION	VERIFICATION
		TR- relays released. Minor alarm sounds. CH lamp lighted.
8	Remove insulator from TR relay.	
9	Restore TR key.	
10	Momentarily operate AR key.	Minor alarm silenced. CH lamp extinguished. TR relay released.
11	Block nonoperated CH relay.	
12	Insulate 5 of TR relay.	
13	Repeat Steps 4 through 10.	
14	◆Operate TR key if restored in Step 1.◆	

**B. Frame Make-Busy Features—Line Link, Transfer Line Link, ◆Direct Access Pretranslator Connector◆ and Number Group Frames**

*Note:* Make this test as rapidly as possible to reduce interference with traffic.

1a	◆If circuit under test is associated with line link, transfer line link, or number group frame—◆ At line link, transfer line link, or number group frame— Insert ◆349A◆ make-busy plug into LMB or NMB jack.	LMB or NMB lamp lighted. Major alarm sounds. At circuit under test— MB relay operated.
2a	At line link, transfer line link, or number group frame— Remove make-busy plug from LMB or NMB jack.	LMB or NMB lamp extinguished. Major alarm silenced. At circuit under test— MB relay released.
3b	◆If circuit under test is associated with a direct access pretranslator connector— At jack, lamp, and key circuit— Insert 322A make-busy plug into DAPC MB jack.	At circuit under test— MB relay operated.
4b	At jack, lamp, and key circuit— Remove make-busy plug from DAPC MB jack.	At circuit under test— MB relay released.◆

**SECTION 218-764-501**

<b>STEP</b>	<b>ACTION</b>	<b>VERIFICATION</b>
<b>C. Frame Make-Busy Feature—Auxiliary Line Link Frame</b>		
1	At MTF— Restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.
3	At auxiliary line link frame— Insert ♦349A♦ make-busy plugs into MBO, MBE jacks.	
4	At MTF— Operate ORIG or TSTA (ORIG).	
5	Operate MT- or MTT1, MTU- to select completing or combined marker.	
6	Operate STP2 key.	
7	Operate FT-, FU-, VG- or VGT1, VGU-, HG-, VF- for an assigned originating line location on even-paired line link frame.	
8	Operate CST-, CSU-, CGB, CSGA/CSGB, CRU- or CGB, CRU- to select class of service, rate treatment if required.	
9	Operate A- through ♦K-♦ as required to direct call to outgoing route.	
10	Momentarily operate ST key.	ORIG, BT-OF lamps lighted.
11	Momentarily operate RL key.	All lamps extinguished.
12	Repeat Steps 7 through 11 selecting an assigned originating line location on associated odd-paired line link frame.	
13	At auxiliary line link frame— Remove make-busy plugs from MBO, MBE jacks.	
14	At MTF— Restore all keys not required in next test.	
<b>D. Marker Preference—Paired Line Link Frames</b>		
1	At MTF— Restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.

STEP	ACTION	VERIFICATION
3	Operate ORIG or TSTA (ORIG).	
4	Operate MT- or MTT1, MTU- to select completing or combined marker.	
5	Operate STP2, MFEB keys.	
6	Operate FT-, FU-, VG- or VGT1, VGU-, HG-, VF- for an assigned originating line location on paired line link frame.	
7	Operate CST-, CSU-, CGB, CSGA/CSGB, CRU- or CGB, CRU- to select class of service, rate treatment if required.	
8	Operate A- through K- as required to direct call to outgoing route.	
9	At line link connector frame— Insert plug of 32A test set into RC jack.	
10	Restore TR key if operated.	
11	Momentarily operate ST (white) key on 32A test set.	MPP relay associated with home line link frame operated momentarily. MPP relay associated with mate line link frame not operated.
12	Momentarily operate RLS (red) key on 32A test set.	
13	At MTF— Restore MFEB key.	
14	At line link connector frame— Momentarily operate ST (white) key on 32A test set.	MPP relay associated with mate line link frame operated momentarily. MPP relay associated with home line link frame not operated.
15	Momentarily operate RLS (red) key on 32A test set.	
16	Operate TR key.	
17	Momentarily operate ST (white) key on 32A test set.	EP relay associated with mate line link frame operated momentarily. EP relay associated with home line link frame not operated.
18	Momentarily operate RLS (red) key on 32A test set.	

**SECTION 218-764-501**

<b>STEP</b>	<b>ACTION</b>	<b>VERIFICATION</b>
19	At MTF— Operate MFEB key.	
20	At line link connector frame— Momentarily operate ST (white) key on 32A test set.	EP relay associated with home line link frame operated momentarily. EP relay associated with mate line link frame not operated.
21	Momentarily operate RLS (red) key on 32A test set.	
22	Remove plug of test set from RC jack.	
23	Restore TR key.	
24	At MTF— Restore all keys and switches.	