FALSE CONTINUITY OF ORIGINATING MARKER CONNECTOR DC LEAD
NO. 1 CROSSBAR OFFICES

1. GENERAL

1.01 This section covers methods to be followed in connection with troubles due to false continuity of the DC lead in the originating marker connector.

2. INDICATIONS OF TROUBLE CONDITION

2.01 Originating trouble indicator records.

3. REACTIONS DUE TO TROUBLE

3.01 This trouble may cause an overload on the originating senders during busy hour loads.

4. IMMEDIATE PROCEDURE TO FOLLOW

4.01 Analyze trouble indicator records to locate the marker or marker connector in trouble.

4.02 Remove the marker or marker connector in trouble from service.

4.03 XDC (crossed DC lead) lamp indications on the marker may still be received. To eliminate these, insert a make-busy plug into the TIB (trouble indicator busy) jack of the marker in trouble.

5. ANALYSIS OF TROUBLE

5.01 The normally open 14 contact of the DMA relay if crossed in an originating marker connector will cause the following:

(a) All markers using this connector give a trouble release while the originating marker in trouble has a ground on its DC lead.

(b) The originating marker in trouble will give a trouble release if any other marker is using the marker connector.

6. SUGGESTED PROCEDURE FOR LOCATING AND CLEARING TROUBLE

6.01 Locate the particular marker connector in trouble by analyzing the trouble indicator records. The marker in trouble will not show failures on the connector having the falsely closed contact. All other markers using this connector will show failures with this connector.

7. TROUBLE CONDITIONS CAUSING REACTIONS MAY BE LISTED BELOW

7.01 Crossed 14 contact of DMA relay in originating marker connector.

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ORIGINATING TROUBLE INDICATOR RECORD
CROSSBAR OFFICES

OFFICE _____

DATE _____ SHEET NO. ____

NO.	TI	CT	DT	DR	GO	G 100	DL-GO	DL-G100	CF	CN	SN	OF	TL	KEL	KOL	KER	KOR	G	GT1	GT3	GS	DF	SW	M	JC	P	CHL	CHR	Z	ZCK	ZO	ZL	ZK	PS1	NC1	OT1	TC1	TCK	TP1	RP1	TPK	ZR	A	B	C	D	F	AR
1	✓			1			0,2		0	0	9	1	8		0			2	✓			0	1,7	0	3												✓			✓			4	2	4	3	2	
2	✓			2			0,1		0	0	4	2	4				2	1	✓			0													✓					✓			2	2	2	4	0	
3	✓			0			1,2		0	1	0	0	8		0			1	✓			2	1,6	0,9	1											✓			✓			3	4	2	1	2	
4	✓			2			0,1		0	0	2	3	2	2				1	✓			3	2,5	3,6	1										✓					✓			2	3	2	2	1	
5	✓			0			1,2		1	1	0	0	0			4		2	✓			1	3,4	0,2	1											✓			✓			2	4	2	3	3	
6	✓			0																																												
7	✓			0			2					2	8			1						2	7	1	0																							
8	✓			0																																												
9	✓			0																																												
10	✓			0																																												

Column A - Trouble indication.
Column B - Any marker. Marker in trouble will show with any sender lamp in column C, which other markers will show with connector in trouble.
Column O - XDC and XSM1 lamps indicate falsely closed DC lead.
Columns D,E,G,H,I,J,K,L,M,N,P - Have no significance.

A B C D E F G H I

NO.	OF	TP	EA	LA	SGR	CKG	K4	K5	SPE	SPO	NSE	NSO	DK	AK	TKE	TK	SR	RL	MS	CK	BK	CHE	A	C	S	SL	B	MR	S1K	MRL	ZS	Z	OT	TC	TP2	NM	RO	TB5	CRL	DT3	MR1	TRL	EC	X	SDT	OB	SD	SD1	OG	SO	CR	CL	TW	TIME
1						✓	✓	✓			✓	✓	✓	✓	✓	✓	✓		✓	✓																								✓	XDC,XSM1			✓	✓		✓	3,4	1		11:00
2						✓	✓	✓							✓	✓											✓																✓	XDC										11:03
3						✓	✓	✓			✓	✓	✓	✓		✓	✓		✓	✓	✓	✓																					✓	XDC,XSM1			✓	✓		✓	3,4	1		11:05
4						✓	✓	✓			✓	✓	✓	✓		✓	✓		✓	✓																							✓	XDC,XSM1			✓	✓		✓	3,4	1		11:07
5						✓	✓	✓			✓	✓	✓	✓		✓	✓		✓	✓																							✓	XDC,XSM1			✓	✓		✓	3,4	1		11:09
6																																											✓	XDC										11:10
7											✓	✓	✓	✓			✓		✓	✓	✓	✓																					✓	XDC										11:11
8																																											✓	XDC										11:13
9																																											✓	XDC										11:14
10																																											✓	XDC										11:15

Analysis of Indication: Note indication No. 6. Marker 0 must have its DC lead closed falsely as the XDC lamp is a standing test. If this marker is made busy the XDC lamp indications will still be received as shown in lines 8, 9 and 10 until the TIB jack for this marker is plugged or the trouble is cleared. To find connector in trouble, note that markers 1 and 2 always show connector 0-0 when they give an indication; while marker 0 never fails on this connector.

Immediate Procedure to be Followed: Remove marker 0 from service and plug TIB jack 0.

Procedure for Locating Trouble: Check for false closure on DC lead for marker 0 in connector 0-0.

J K L M N O P