CROSSED ORIGINATING MARKER MULTIPLE SL LEADS
NO. 1 CROSSBAR OFFICES

1. GENERAL

1.01 This section covers methods to be followed in connection with troubles due to crossed SL leads in the originating marker multiple.

1.02 When this section was converted from the A series to the plant series, the wrong information was included in the text. This section is reissued to provide the information previously contained in Section A370.211.

2. INDICATIONS OF TROUBLE CONDITION

2.01 Originating trouble indicator records.

3. REACTIONS DUE TO TROUBLE

3.01 During busy-hour periods this trouble may cause a backup of originating traffic.

3.02 The individual call involved is completed on second trial.

4. IMMEDIATE PROCEDURE TO FOLLOW

4.01 Analyze trouble indicator records.

4.02 Remove marker involved from service.

5. ANALYSIS OF TROUBLE

5.01 A cross between operating springs 7 and 17 of the MCA relay of a marker on the district link frame may cause false XSL (crossed SL lead) lamp indications because the SL lead is crossed to the sleeve lead of the 7R channel. If this marker attempts to complete a connection on any district link on which this channel is busy the XSL relay will operate falsely.

6. SUGGESTED PROCEDURE FOR LOCATING AND CLEARING TROUBLE

6.01 To prove that this cross exists, ground the sleeve of the 7R link at its CH relay in the marker and note that the XSL relay operates.

6.02 Locate the cross either by inspection of wiring at all district link frames or by opening the multiple to segregate the location.

7. TROUBLE CONDITIONS CAUSING REACTIONS MAY BE LISTED BELOW

7.01 Wire clipping cross between insulator and spring pileup of MCA relay on district frames.

© American Telephone and Telegraph Company, 1966
Printed in U.S.A.

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	✓			2			0		2	0	9	5	10			2		1				1	6	2	10	1											✓		✓				2	4	3	3	1	
2	✓			2			0,1		2	1	1	4	10			8		8				0	7	2	9	9											✓			✓			2	4	4	4	0	
3	✓			2			1		3	0	9	0	10		9			3				4	7	1	6	5											✓		✓				2	4	3	3	4	
4	✓			2			0,1		0	0	4	2	10		1			4				6	7	0	4	0											✓		✓				2	4	3	12	6	
5																																																
6																																																
7																																																
8																																																
9																																																
10																																																

Column A - Trouble indication.
Column B - Marker 2 only.
Column F - Any DF lamp with XSL lamp in column O and marker 2 in column B indicates marker is in trouble.
Columns C,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		✓				✓	✓	✓			✓	✓	✓	✓		✓	✓			✓	✓	✓																						✓	XSL			✓	✓		✓	3,4	1		5:10
2						✓	✓	✓			✓	✓	✓	✓		✓	✓			✓	✓	✓																						✓	XSL			✓	✓		✓	3,4	1		5:11
3		✓				✓	✓	✓			✓	✓	✓	✓		✓	✓			✓	✓	✓																						✓	XSL			✓	✓		✓	3,4	1		5:14
4		✓				✓	✓	✓			✓	✓	✓	✓		✓	✓			✓	✓	✓																						✓	XSL			✓	✓		✓	3,4	1		5:17
5																																																							
6																																																							
7																																																							
8																																																							
9																																																							
10																																																							

Analysis of Indication: XSL lamp indicates a falsely grounded SL lead. Since these indications occur on any district frame but only when marker 2 is involved, the trouble must be in the marker.

Immediate Procedure to Follow: Make marker 2 busy.

Procedure for Locating and Clearing Trouble: Check to see whether lead is crossed or grounded. Inspect or test by opening multiple.

J K L M N O P