OPEN SUBSCRIBER SENDER OF RELAY SHUNT CIRCUIT
NO. 1 CROSSBAR OFFICES

1. GENERAL

1.01 This section covers methods to be followed in connection with an open OF relay shunt circuit of the subscriber sender.

2. INDICATIONS OF TROUBLE CONDITION

2.01 Originating trouble indicator records.

3. REACTIONS DUE TO TROUBLE

3.01 False XSL (crossed SL lead) lamp signals are received on individual calls.

4. IMMEDIATE PROCEDURE TO FOLLOW

4.01 Analyze trouble indicator records.

4.02 Remove the subscriber sender circuit involved from service.

5. ANALYSIS OF TROUBLE

5.01 On calls to reverse battery trunks the TW relay is operated in the subscriber sender to shunt the OF relay and prevent it from operating when the trunk test is made. If this shunt path is open the OF relay will operate falsely and set the sender for a second trial. The marker in attempting to complete the call on second trial will find the previous connection still held because of the slow releasing relay of the reverse battery trunk holding ground on the sleeve and will therefore release with an XSL lamp indication.

6. SUGGESTED PROCEDURE FOR LOCATING AND CLEARING TROUBLE

6.01 Set the subscriber sender test circuit with the RVT (reverse battery trunk) key operated and proceed to test the sender involved.

7. TROUBLE CONDITIONS CAUSING REACTIONS MAY BE LISTED BELOW

7.01 Open 3 and 4 top contact of the TW relay in the subscriber sender circuit.

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PRINTED IN U.S.A.

FORM-2623(7-39)

ORIGINATING TROUBLE INDICATOR RECORD
CROSSBAR OFFICES

OFFICE _____

DATE _____ SHEET NO. _____

NO.	TI	CT	DT	DR	GO	G100	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					1	0	0	0	4				8	11			1,2	10	3	5	1	1										✓				✓			2	2	2	2	10	✓
2	✓			1					1	0	0	2	8	4				10			1,2	0	1	0	4	4										✓				✓			2	2	1	4	0	✓
3	✓			2					1	0	0	2	8	6				8			1,2	0	1	0	4	4										✓				✓			2	2	1	4	0	✓
4	✓			2					1	0	0	2	8	2				4			1,2	13	1	0	4	7										✓				✓			2	2	1	4	13	✓
5	✓			0					1	0	0	2	8	6				7			1,2	0	1	0	4	4										✓				✓			2	2	1	4	0	✓
6																																																
7																																																
8																																																
9																																																
10																																																

Column A - Trouble indication.
Column B - Any marker.
Column C - One particular sender in trouble. Same sender with GS 1-2 lamp in column E, reverse battery trunk code and AR lamp in column I,
    XSL lamp in column O and TW lamp in column P indicates sender is in trouble.
Columns D,F,G,H,J,K,L,M,N - 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	3,4	✓	6:30
2					✓	✓	✓		✓	✓	✓	✓			✓	✓				✓	✓	✓																					✓	XSL			✓	✓			3,4	3,4		6:44
3					✓	✓	✓		✓	✓	✓	✓			✓	✓				✓	✓	✓																					✓	XSL			✓	✓			3,4	3,4		6:45
4					✓	✓	✓		✓	✓	✓	✓			✓	✓				✓	✓	✓																					✓	XSL			✓	✓			3,4	3,4		6:46
5					✓	✓	✓		✓	✓	✓	✓			✓	✓				✓	✓	✓																					✓	XSL			✓	✓			3,4	3,4	✓	6:50

Analysis of Trouble: An XSL lamp indication on a particular sender selecting a reverse battery trunk results if the OF relay shunt in the sender is open. This causes the sender to request a second trial when it encounters the reverse battery. Marker selects a different trunk but original one will not release in time to remove ground from sleeve.

Immediate Procedure to Follow: Make sender busy.

Procedure for Locating and Clearing Trouble: Use subscriber sender test with RVT key operated.

J   K   L   M   N   O   P