FALSELY GROUNDED TERMINATING SENDER D LEAD
NO. 1 CROSSBAR OFFICES

1. GENERAL

1.01 This section covers methods to be followed in connection with a grounded D lead on a link of the terminating sender link frame in No. 1 crossbar offices.

2. INDICATIONS OF TROUBLE CONDITION

2.01 Numerous displays on terminating trouble indicator showing a check failure. This failure confined to one sender subgroup.

2.02 The displays vary according to the selections that have been received at the time the marker times out.

3. REACTIONS DUE TO TROUBLE

3.01 Marker holding time will increase with back-up of traffic during busy hour periods a possibility.

4. IMMEDIATE PROCEDURE TO FOLLOW

4.01 Analyze the trouble indicator records.

4.02 Make busy the terminating sender subgroup involved at the MB jack on the terminating trouble indicator frame.

5. ANALYSIS OF TROUBLE

5.01 The absence of any units lamp indicates the marker was called in by a false signal on the start lead. Trouble indication No. 3 shows additional lamps due to the progress of dialing at the moment of timing out. More than one sender in the same subgroup appearing in the displays indicates trouble in the terminating sender link. A terminating sender attached to a link with a grounded D lead will operate its TC1 relay and ground the start lead to the marker connector as soon as the sender SC2 relay releases.

6. SUGGESTED PROCEDURE FOR LOCATING AND CLEARING TROUBLE

6.01 With a test receiver connected to battery, test the D leads of all links with access to the subgroup. When the link frame in trouble is located, it will be advantageous to make the subgroup busy by blocking the related AMB- and BMB- relays in the control circuit and releasing the make busy plug at the terminating trouble indicator.

7. TROUBLE CONDITIONS CAUSING REACTIONS MAY BE LISTED BELOW

7.01 Cross to ground at pile-up of a terminating sender link secondary switch vertical unit.

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FORM E -2624(7-39)

TERMINATING TROUBLE INDICATOR RECORD
CROSSBAR OFFICES

OFFICE _____

DATE _____ SHEET NO. ____

NO.	TI	CT	DT	GR	DR	DL	CF	CN	SN	TH	H	T	U	F	TR2	RO	OAB	NGC	HB	HP	L	JF	JC	AL1	AL2	LCF	LLG	LOG	HF	RF	TF	CA	CB	IF	LC	M	CH	LJ	JPN	JP	JG	FS	MAN	TOL	CN	RC	RV	RP	TC
1	✓				0		0	1	1	All	All	All		All	✓	✓																																
2	✓				0		0	1	1	All	All	All		All	✓	✓																																
3	✓				1		0	1	3	All	All	All	All	All	✓	✓		1	2	0														3				3	✓		A	✓						
4	✓				0		0	1	1	All	All			All	✓	✓																																
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10																																																

Column A - Trouble indication
Column B - Any marker
Column C - A particular sender subgroup
Columns D & L - Check failure due to marker being called in before selections were complete.
Column G - IF lamp, if lit, will give the terminating sender link in trouble.
Columns E,F,H,I,J,K,M,N,O,P,Q,R and S have no significance.

A B C D E F G H I

NO.	LIN	LTI	TIN	TTI	OF	BB	SPL	NC	NT	NTX	NH	NHX	NN	NNX	NTT	GS	IP	IT	IPT	PN	TN	PTN	CKG	K1	K2	K3	TBK	LE	FC	AK	TK	LHL	RHL	TE	BC	GJ	SL	GC	GLH	CON	GT2	RL	PG	MKO	MK1	FL	HFL	AL	WAL	LTR	HTR	SDT	TCT	TRL	FCG	X	TIME
1																							✓																												✓							1:45P
2																							✓																												✓							1:47P
3																							✓	✓	✓	✓		✓	✓				✓																		✓							1:51P
4																							✓																												✓							1:53P
5																																																													
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Analysis of Indication: The absence of T and U lamps indicates that a false condition called in the marker before selections were completed. A false ground on the D lead would simulate trunk closure and call in a marker as soon as the sender SC2 relay released. More than one sender appearing in the indications points to trouble in the link.

Immediate Procedure to Follow: Analyze trouble indicator records - make busy terminating sender subgroup.

Procedure for Locating and Clearing Trouble: With a test receiver connected to battery, test the D leads of all links with access to the sender subgroup. When the link frame in trouble is located, it will be advantageous to block operated the AMB and BMB relays in the control circuit and release the make busy plug at the terminating trouble indicator.

J K L M N O P Q R S