FALSELY GROUNDED DISTRICT JUNCTOR DC LEAD
NO. 1 CROSSBAR OFFICES

1. GENERAL

1.01 This section covers methods to be followed in connection with troubles due to a grounded DC lead in the district junctor.

2. INDICATIONS OF TROUBLE CONDITION

2.01 Originating trouble indicator records.

3. REACTIONS DUE TO TROUBLE

3.01 The individual call involved fails to complete.

3.02 District junctors on the frame involved are unable to serve calls.

3.03 During busy-hour periods this trouble may cause an overload of the originating traffic.

4. IMMEDIATE PROCEDURE TO FOLLOW

4.01 Analyze trouble indicator records.

4.02 Make the district frame involved busy.

5. ANALYSIS OF TROUBLE

5.01 A false ground on the DC lead of a particular district junctor causes the F relay of the district junctor to operate and in turn operates the LC relay of the district link and connector circuit. Whenever any call is originated from this frame, this false ground will cause additional LC and F relays to lock, causing the marker to return a trouble release and summon the trouble indicator.

6. SUGGESTED PROCEDURE FOR LOCATING AND CLEARING TROUBLE

6.01 Remove covers of the LC relays on the district link and connector frame. Open the locking contact on each LC relay until one fails to release. This is the group in which the false ground is located.

6.02 Remove the covers from the district junctor F relays of the above mentioned group. Release the operated F relays of these district junctors until one fails to release. This is the district junctor in trouble.

6.03 Block this F relay non-operated.

6.04 Make the particular group of districts junctors busy and restore the remaining district junctors on the frame to service.

7. TROUBLE CONDITIONS CAUSING REACTIONS MAY BE LISTED BELOW

7.01 Grounded DC lead on the subscriber sender link primary switch.

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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	✓		✓	2			0,1		3	0	6	4	10		1			2				3	All	All	9	0											✓		✓				2	4	3	4	3	
2	✓			1			0,2		2	1	9	2	0			6		8				4	6	2	4	8	2										✓			✓			2	4	3		3	
3	✓		✓	0			1,2		3	1	2	0	0		8			4				13	All	5	1	2	0										✓			✓			2	4	4	8	3	
4	✓			2			0,1		2	1	7	0	0	1				3				3	All	All	0	3											✓			✓			2	4	3	5	3	
5	✓		✓	1			0,2		1	2	1	1	10				2	5				3	All	All	3	4											✓			✓			2	4	3	1	3	
6																																																
7																																																
8																																																
9																																																
10																																																

Column A - Trouble indication.
Columns B,C,D - Any marker, sender or trunk.
Column F - Same district frame with no MS lamp in column M. Different district frame with MS lamp.
Column I - District frame indicated by column F with XDC lamp in column O and multiplicity of SW lamps in column F, it indicates trouble on this frame.
Columns E,G,H,J,K,L,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			✓	✓		✓	3,4	1		10:50
2						✓	✓	✓			✓	✓	✓	✓		✓	✓		✓	✓	✓																						✓	XDC			✓	✓		✓	3,4	1		10:52
3						✓	✓	✓			✓	✓	✓	✓		✓	✓		✓	✓	✓																						✓	XDC			✓	✓		✓	3,4	1		10:54
4						✓	✓	✓			✓	✓	✓	✓		✓	✓			✓	✓																						✓	XDC			✓	✓		✓	3,4	1		10:56
5						✓	✓	✓			✓	✓	✓	✓		✓	✓			✓	✓	✓																					✓	XDC			✓	✓		✓	3,4	1		10:59
6																																																							
7																																																							
8																																																							
9																																																							
10																																																							

Analysis of Indication: The XDC lamp display occurs when a sender with a false ground on the DC lead selects a marker. Therefore, any district junctor frame may show in column F, but same frame should show in column I. A multiplicity of LC lamps indicates a falsely operated LC relay and SW lamps indicate falsely operated F relays.

Immediate Procedure to Follow: Make district junctors on frame involved busy.

Procedure to Locate and Clear Trouble: Locate LC relay operated falsely and then F relay in that group which is operated falsely. Block this relay down and test for false ground.

J | K | L | M | N | O | P