FALSELY GROUNDED NUMBER GROUP CONNECTOR JF LEAD
NO. 1 CROSSBAR OFFICES

1. GENERAL
1.01 This section covers methods to be followed in connection with troubles due to a falsely grounded JF (jump to frame) lead in the number group connector.

1.02 This section is revised to delete the information relative to the use of the TRG jacks and to correct the terminating trouble indicator record.

2. INDICATIONS OF TROUBLE CONDITION
2.01 Terminating trouble indicator displays.

3. REACTIONS DUE TO TROUBLE
3.01 No terminating service to any lines in a number group.

3.02 Terminating overload resulting from time-out of terminating markers.

4. IMMEDIATE PROCEDURE TO FOLLOW
4.01 Disconnect the JF lead on the number group connector involved in the trouble.

5. ANALYSIS OF TROUBLE
5.01 The false operation of the JF relay because of a false ground on a JF lead opens the operating circuit for the R/C relay. This causes the marker to fail to complete ringing check and, therefore, causes it to time out and furnish a trouble indication.

6. SUGGESTED PROCEDURE FOR LOCATING AND CLEARING TROUBLE
6.01 Analyze terminating trouble indicator records noting JF lamp.

6.02 Disconnect the JF lead from the number group connector terminal block.

7. TROUBLE CONDITIONS CAUSING REACTIONS MAY BE LISTED BELOW
7.01 Wrong cross connection.

7.02 Contacts 48 and 58 on MCA of number group connector crossed.
### Terminating Trouble Indicator Record

**Crossbar Offices**

| No. | TI | CT | DT | CR | DR | DL | CR | SN | TN | H | T | U | F | TE2 | RO | GB | NGC | HG | HP | L | FF | FC | IC | AL | MZ | LCF | LLG | LOG | LF | FF | CA | CR | ET | LC | HI | CH | LI | JPP | EP | IG | FS | MAM | TSL | CR | RC | RV | HP | TC |
|-----|----|----|----|----|----|----|----|----|----|---|---|---|---|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1   | ✓  | 20 | 1  | 0  | 1  | 6  | 6  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0  | 0   | 0  | 0  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
| 2   | ✓  | 10 | 0  | 2  | 1  | 6  | 6  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0  | 0   | 0  | 0  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
| 3   | ✓  | 10 | 0  | 2  | 1  | 6  | 6  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0  | 0   | 0  | 0  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
| 4   | ✓  | 20 | 1  | 0  | 1  | 6  | 6  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0  | 0   | 0  | 0  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |

**Legend:**

- **Column A:** Trouble indication.
- **Column B:** Any marker.
- **Column C:** Particular NGC lamp and false JF lamp without JC lamp indicates trouble on JF3 lead.
- **Column D:** No RC lamp indicates ringing control trouble with no OTS lamp in column 4.

### Analysis Indication:

A false JF indication is obtained on all numbers in the same number group connectors. Ringing control failure (no OTS lamp) with no RC lamp results because JF relay is operated falsely.

### Immediate Procedure to Follow:

Note false JF lamp indications. Remove JF lead in trouble at the number group connector.

### Procedure for Locating and Clearing Trouble:

The lead in trouble must be removed and tested for cross or ground.

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**J K L M N O P Q R S**