

TAKING EQUIPMENT OUT OF SERVICE
LINE CHOICE CONNECTOR CIRCUIT PER SD-25275-01
NO. 1 CROSSBAR OFFICES

1. GENERAL

1.01 This section covers a method to be followed in taking out of service the line choice connector circuit and individual pieces of apparatus of this circuit.

2. APPARATUS

2.01 No. 508A (relay blocking) Tools.

2.02 No. 298A Plug.

3. METHOD OF TAKING THE CIRCUIT OUT OF SERVICE

3.01 To remove the line choice connector from service plug the No. 298A plug into the TMB jack.

Caution: Removing the line choice from service stops all terminating traffic to the subscribers in the line choice. For this reason a line choice should be made busy only when it will greatly expedite clearing a trouble.

4. METHOD OF TAKING EQUIPMENT OUT OF SERVICE

(A) CR, CE, LJA and LJB Relays

4.01 These relays cannot be removed from service without seriously affecting terminating service to a group of subscribers, hence if a trouble cross or ground or open exists the trouble should be cleared immediately.

4.02 If the trouble indicator is being brought in on each call as a result of a trouble ground on a JA or JB lead, it may be desirable to remove the line choice connector from service as outlined in 3.01.

4.03 If a winding of the CR, CE, LJA or LJB (245 type) relay is defective, replace the coil immediately. The line choice need not be removed from service, but extreme care should be taken to avoid falsely grounding or crossing any of the leads.

4.04 LJA and LJB Relays: If a set of contacts becomes unusable temporarily transfer the connections of the defective contacts to a set of spare contacts on the same relay until permanent repair may be made.

(B) Marker Connector MCA to MCC Relays

4.05 Make busy the associated terminating marker in the approved manner.

(a) If the contacts of the relay are crossed, the associated leads in the marker should be insulated.

(b) If the contacts of the relay are falsely grounded, the false ground should be cleared immediately.

(C) Marker Preference MP Relays

4.06 The MP relays are out of service if the TR relays are operated. If the TR relays are unoperated, momentarily operate the MTR key. This will cause the TR relays to operate. To silence the alarm operate the SA key if it is normal, or restore it to normal if it is operated.

(D) Marker Preference E Relays

4.07 The E relays are out of service if the TR relays are unoperated. If the TR relays are operated, momentarily operate the MTR key. This will cause the TR relays to release. To silence the alarm operate the SA key if it is normal or restore it to normal if it is operated.

(E) Transfer TR1 Relay

4.08 If the TR1 relay is operated, block it operated, if unoperated, block it unoperated. If the trouble necessitates the removal from service of the associated terminating marker, remove it in the approved manner. If necessary, block all TR relays in the same position as the TR1 relay is blocked.

Note: When the TR1 relay is blocked operated or unoperated, the connector alarm and its associated lamps are out of service. Therefore prompt action is necessary in restoring this relay to service in order to reduce to a minimum the elapsed time that the connector alarm is out of service.

(F) Transfer TR2 and Check CH Relays

4.09 If the TR1 relay is operated, block it operated, if unoperated, block it unoperated. See note under 4.08.

(G) Transfer TR3 to TR6 Relays

4.10 Block all TR- relays operated or unoperated as in 4.08 so as to give service without removing any markers from ser-

vice if possible, otherwise make busy the affected markers. Clear the trouble as soon as traffic will permit the removal of the affected marker from service.

(H) Winding of the K- Resistance

4.11 Transfer the BK- connection at the line link end to the BK- connection of its associated winding, or the BK- connection of another K- resistance where the entire resistance is to be removed. Where the connection is transferred to its associated winding no test is made for the false operation of the associated HG relays in the line link.

5. GENERAL PRECAUTIONS WHEN WORKING ON THE APPARATUS

5.01 Due to multiple wiring and common equipment, it is desirable when working on the individual pieces of apparatus to make busy equipment and take other precautions as indicated below.

(A) Marker Connector MCA to MCC Relays

5.02 Make busy the associated terminating marker in the approved manner. Work on any of the MCA to MCC relays shall only be performed during periods of light traffic when momentary interference to all terminating calls to the line choice will not cause serious reaction.

Caution: Crossing or grounding any of the associated leads or the contacts may cause the frame to be tied up and provide a trouble indication.

(B) Marker Preference MP Relays

5.03 Transfer the circuit to the E relays in accordance with 4.06.

(C) Marker Preference E Relays

5.04 Transfer the circuit to the MP relays in accordance with 4.07.

(D) Transfer TR1 Relay

5.05 Make busy the associated terminating marker in the approved manner.

5.06 If the TR relays are operated, block all the TR relays operated, if the TR relays are unoperated, block all the TR relays unoperated. See note under 4.08.

5.07 On a current flow test of any TR relay, block all TR relays unoperated as outlined in 5.06. Then remove the blocking tool from the relay that is to be "current flowed." See note under 4.08.

(E) Transfer TR2 and Check CH Relays

5.08 Remove the CH or TR2 relay from service in accordance with 4.09. On a current flow test of the TR2 relay, proceed in accordance with 5.07.

5.09 If the connections on the winding of the TR2 relay are to be opened then proceed in accordance with 5.06.

Note: While working or putting a current flow test on the TR2 relay, the connector alarm and its associated lamps may operate momentarily.

(F) Transfer TR3 to TR6 Relays

5.10 Remove the associated terminating markers from service in the approved manner. On a current flow test of a TR3 to TR6 relay, proceed in accordance with 5.07.

5.11 If the connections on the winding of the relay are to be opened then proceed in accordance with 5.06.

(G) K- Resistance

5.12 Before replacing the resistance, remove the BK leads from the resistance at the marker connector end and connect them together so that the continuity of the BK lead through all the associated K- resistances will not be opened.

CR, CE, LJA and LJB Relays

5.13 Same as 4.01 to 4.04.

6. REPORTS

6.01 Any required record of the equipment removed from service should be entered on the proper form.