

TAKING EQUIPMENT OUT OF SERVICE

INCOMING TRUNK FRAME

NO. 1 CROSSBAR OFFICES

1. GENERAL

1.01 This section covers the methods to be followed in taking an incoming trunk frame out of service. It also covers the methods for taking an incoming trunk or group of incoming trunks and associated miscellaneous relays mounted on the frame out of service.

2. APPARATUS

- 2.01 No. 298A (make busy) Plugs.
2.02 No. 508A (relay blocking) Tools.

3. METHOD OF TAKING EQUIPMENT OUT OF SERVICE

(A) Incoming Trunk Frame

3.01 Have all the trunks in the frame made busy in the approved manner at the originating office. If possible, this should only be done during the period of light traffic.

(B) Incoming Trunks

3.02 Have the trunk made busy in the approved manner at the originating office.

(C) All Incoming Trunk Relays

3.03 Have the associated incoming trunk made busy in accordance with 3.02.

(D) A, B and C Timing Circuit Relays

3.04 Have the associated incoming trunks made busy in accordance with 3.02. Twenty trunks are made busy for the A relay and ten trunks for either the B or C relay.

4. GENERAL PRECAUTIONS WHEN WORKING ON THE APPARATUS

4.01 It is desirable when working on the individual pieces of apparatus to make busy the equipment as indicated below.

4.02 On circuits so equipped, the operation of the F relay will cause the associated peg count register to operate when the register battery key is operated.

4.03 On circuits so equipped, the operation of the D, B, LC or SL relay will cause the operation of the associated group traffic register when all the other trunks in the group are busy.

(A) Incoming Trunks per SD-25022-01 and SD-25259-01

D Relays

4.04 Have the trunk made busy in accordance with 3.02.

4.05 Block the TC relay of the trunk operated and take care not to ground the bottom 7 and 8 springs of the D relay to prevent interference with the associated timing circuit.

S Relays

4.06 Have the trunk made busy in accordance with 3.02.

4.07 Block the D relay of the trunk operated to prevent interference with the associated timing circuit.

F Relays

4.08 Have the ten trunks associated with the same primary link switch made busy in the approved manner at the originating office.

4.09 Block the LC relay of the associated incoming link and connector circuit non-operated to prevent interference with this link.

RC Relays

4.10 Have the trunk made busy in accordance with 3.02.

4.11 Take care not to ground the top 4, 5 and 6 and lower 7 springs of the RC relay as this will cause a major alarm to sound.

RV Relays

4.12 Have the trunk made busy in accordance with 3.02.

4.13 Insulate the top 5 spring of the RC relay to prevent interference with the interrupter frame circuit.

All Other Relays

4.14 Have the trunk made busy in accordance with 3.02.

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(B) Incoming Trunks per SD-25024-01

A Relays

- 4.15 Have the trunk made busy in accordance with 3.02.
- 4.16 Block the D relay of the trunk operated and take care not to ground the top 1 spring of the A relay to prevent interference with the associated terminating sender link.

DC Relays

- 4.17 Have the trunks made busy in accordance with 3.02.
- 4.18 Block the ST and A relays non-operated to prevent interference with the associated KPA and terminating sender links. Also take care not to ground the bottom 6 spring of the DC relay to prevent interference with the interrupter frame circuit.

F Relays

- 4.19 Have the ten trunks associated with the same primary link switch made busy in the approved manner at the originating office.
- 4.20 Block the LC relay of the associated incoming link and connector circuit non-operated to prevent interference with this link.

LC Relays

- 4.21 Have the trunk made busy in accordance with 3.02.
- 4.22 Block the ST relay non-operated to prevent interference with KPA link.

RC Relays

- 4.23 Have the trunk made busy in accordance with 3.02.
- 4.24 Take care not to ground the top 4, 5 and 6, and the bottom 7 springs of the RC relay to prevent interference with the associated interrupter and ringing circuits.

RV Relays

- 4.25 Have the trunk made busy in accordance with 3.02.
- 4.26 Insulate the top 5 spring of the RC relay to prevent interference with the associated interrupter frame circuit.

SL Relays

- 4.27 If possible, work on this relay should be done only during periods of light traffic. The Traffic Department should also be notified.

ST Relays

- 4.28 Have the trunk made busy in accordance with 3.02.
- 4.29 Take care not to ground the 1 and 2 springs of the ST relay to prevent interference with the associated KPA link.

T Relays

- 4.30 Have the trunk made busy in accordance with 3.02.
- 4.31 Block the A relay of the trunk non-operated to prevent interference with the associated terminating sender link.

All Other Relays

- 4.32 Have the trunk made busy in accordance with 3.02.

(C) Incoming Trunks per SD-25026-01

D Relays

- 4.33 Have the trunk made busy in accordance with 3.02.
- 4.34 Block the D2 relay of the trunk non-operated and take care not to ground the top 5 and 6 springs of the D relay to prevent interference with the associated terminating sender link.

D1, D3 and D4 Relays

- 4.35 Have the trunk made busy in accordance with 3.02.
- 4.36 Insulate the top 5 spring of the D relay to prevent interference with the associated terminating sender link and control circuit.

F Relays

- 4.37 Have the ten trunks associated with the same primary link switch made busy in the approved manner at the originating office.
- 4.38 Block the LC relay of the associated incoming link and connector circuit non-operated to prevent interference with this link.

OC Relays

- 4.39 Have the trunk made busy in accordance with 3.02.
- 4.40 Care should be taken to prevent grounding the top 1, 2 and 3 springs of the OC relay as this will cause interference with the associated interrupter circuit and will also cause a major alarm to sound.

R2 and RM Relays

- 4.41 Have the trunk made busy in accordance with 3.02.
- 4.42 Block the RB relay of the trunk non-operated to prevent interference with the associated coin control circuit. Take care not to ground the lower 4 spring of the R2 relay to prevent interference with the associated ringing circuit.

TC Relays

- 4.43 Have the trunk made busy in accordance with 3.02.
- 4.44 Insulate the top 2 spring of the OC relay to prevent interference with the associated interrupter circuit.

All Other Relays

- 4.45 Have the trunk made busy in accordance with 3.02.

(D) Incoming Trunks per SD-25037-01

A1 Relays

- 4.46 Have the trunk made busy in accordance with 3.02.
- 4.47 Insulate the bottom 2 spring of the B relay to prevent interference with the associated terminating sender link and control circuit.

B Relays

- 4.48 Have the trunk made busy in accordance with 3.02.
- 4.49 Take care not to ground the bottom 3 spring of the B relay. Also block the F1 relay normal to prevent interference with the associated incoming link and connector circuit.

F Relays

- 4.50 Have the ten trunks associated with the same primary link switch made busy in the approved manner at the originating office.
- 4.51 Block the F1 relay of trunk non-operated and the LC relay of the associated incoming link and connector circuit non-operated to prevent interference with the link and the marker.

F1 and F2 Relays

- 4.52 Block the F relay non-operated and make all 10 no-test incomings associated with no-test junctors busy to prevent interference with the other trunks in the group. Take care not to ground the top 9 contact of the F1 relay to prevent interference with marker operation.

H1 Relays

- 4.53 Have the trunk made busy in accordance with 3.02.
- 4.54 Insulate the top 2 spring of the TC relay to prevent interference to the associated interrupter circuit.

RC Relays

- 4.55 Have the trunk made busy in accordance with 3.02.
- 4.56 Take care not to ground the top 1, 2 and 3 springs of the RC relay to prevent interference with the associated interrupter circuit.

RV Relays

- 4.57 Have the trunk made busy in accordance with 3.02.
- 4.58 Take care not to ground the top 1, 2 and 3 springs of the RV relay to prevent interference with the associated interrupter circuit.

TC Relays

- 4.59 Have the trunk made busy in accordance with 3.02.
- 4.60 Take care not to ground the top 1, 2 and 3 springs of the TC relay to prevent interference with the associated interrupter circuit.

All Other Relays

- 4.61 Have the trunk made busy in accordance with 3.02.

(E) Incoming Trunks per SD-25188-01

A Relays

- 4.62 Have the trunk made busy in accordance with 3.02.
- 4.63 Take care not to ground the 1 spring of the A relay to prevent interference with the associated terminating sender link and control circuit.

D Relays

- 4.64 Have the trunk made busy in accordance with 3.02.
- 4.65 Block the A relay of the trunk non-operated to prevent interference to the associated terminating sender link.

S Relays

- 4.66 Have the trunk made busy in accordance with 3.02.

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4.67 The lamp in the associated trunk and line test circuit O.G.T. test frame, subscriber line test, will light while the S relay is operated.

RC Relays

4.68 Have the trunk made busy in accordance with 3.02.

4.69 Take care not to ground the bottom 1, 2 and 3 springs on the RC relay as this will cause a major alarm to sound.

RV Relays

4.70 Have the trunk made busy in accordance with 3.02.

4.71 Insulate the bottom 2 spring of the RC relay to prevent interference with the associated interrupter frame circuit.

F Relays

4.72 Have the ten trunks associated with the same primary link switch made busy in the approved manner at the originating office.

4.73 Block the LC relay of the associated incoming link and connector circuit non-operated to prevent interference with this link. Also take care not to ground the top 11 contact of the F relay to prevent interference with marker operation.

All Other Relays

4.74 Have the trunk made busy in accordance with 3.02.

(F) Incoming Trunks per SD-25192-01

A Relays

4.75 Have the trunk made busy in accordance with 3.02.

4.76 Block the A1 relay of the trunk non-operated to prevent interference with the associated terminating sender link and control circuit.

A1 Relays

4.77 Have the trunk made busy in accordance with 3.02.

4.78 Block the D relay of the trunk operated to prevent interference with the associated terminating sender link and control circuit.

D Relays

4.79 Have the trunk made busy in accordance with 3.02.

4.80 Block the F relay non-operated and take care not to ground the top 4 and 5 con-

tacts of the D relay to prevent interference with the associated link and connector circuits.

F Relays

4.81 Have the ten trunks associated with the same primary link switch made busy in the approved manner at the originating office.

4.82 Block the LC relay of the associated incoming link and connector circuit non-operated to prevent interference with this link. Also block the F1 relay non-operated to prevent interference with marker operation.

F1 Relays

4.83 Have the trunk made busy in accordance with 3.02.

4.84 Take care not to ground the top 1 spring of the F1 relay to prevent interference with marker operation.

All Other Relays

4.85 Have the trunk made busy in accordance with 3.02.

(G) Incoming Trunk per SD-25202-01

D Relays

4.86 Have the trunk made busy in accordance with 3.02.

4.87 Block the F, F1 and F2 relays non-operated and take care not to ground the bottom 7 and 8 contacts of the D relay to prevent interference with the associated link and connector circuits.

F Relays

4.88 Have the ten trunks associated with the same primary link switch made busy in the approved manner at the originating office.

4.89 Block the LC relay of the associated incoming link and connector circuit non-operated to prevent interference with this link. Also take care not to ground the top 10 contact of the F relay to prevent interference with marker operation.

F1 and F2 Relays

4.90 Make all 10 no-test incomings associated with no-test junctors busy in the approved manner to prevent interference with other trunks in the group.

RC Relays

4.91 Have the trunk made busy in accordance with 3.02.

4.92 Take care not to ground the top 1, 2 and 3 springs of the RC relay as this will cause a major alarm to sound.

RV Relays

4.93 Have the trunk made busy in accordance with 3.02.

4.94 Insulate the top 2 spring of the RC relay to prevent interference with the associated interrupter frame circuit.

SL Relays

4.95 If possible work on this relay should be done only during periods of light traffic. The Traffic Department should also be notified.

4.96 Block the D relay of the trunk operated to prevent interference with the associated terminating sender link and control circuit.

All Other Relays

4.97 Have the trunk made busy in accordance with 3.02.

(H) Incoming Trunks per SD-25255-01

A Relays

4.98 Have the trunk made busy in accordance with 3.02.

4.99 Block the D relay of the trunk operated and take care not to ground the top 1 spring of the A relay to prevent interference with the associated terminating sender link.

D Relays

4.100 Have the trunk made busy in accordance with 3.02.

4.101 Block the F, F1 and F2 relays non-operated to prevent interference with the associated incoming link and connector circuit.

DC Relays

4.102 Have the trunk made busy in accordance with 3.02.

4.103 Block the ST and A relays normal to prevent interference with the associated KPA and terminating sender links. Also take care not to ground the top 6 spring of the DC relay to prevent interference with the interrupter frame circuit.

F Relays

4.104 Have the ten trunks associated with the same primary link switch made busy in the approved manner at the originating office.

4.105 Block the LC relay of the associated incoming link and connector circuit non-operated to prevent interference with this link. Also take care not to ground the top 10 spring of the F relay to prevent interference with marker operation.

F1 and F2 Relays

4.106 Have all ten no test incomings associated with the no test junctors made busy to prevent interference with other trunks in the group.

LC Relays

4.107 Have the trunk made busy in accordance with 3.02.

4.108 Block the ST relay non-operated to prevent interference with the KPA link.

RC Relays

4.109 Have the trunk made busy in accordance with 3.02.

4.110 Take care not to ground the top 1, 2 and 3 springs of the RC relay to prevent interference with the associated interrupter frame circuit.

RV Relays

4.111 Have the trunk made busy in accordance with 3.02.

4.112 Insulate the top 2 spring of the RC relay to prevent interference with the associated interrupter frame circuit.

SL Relays

4.113 If possible, work on this relay should be done only during periods of light traffic. The Traffic Department should also be notified.

ST Relays

4.114 Have the trunk made busy in accordance with 3.02.

4.115 Take care not to ground the top springs of the ST relay to prevent interference with the associated KPA link.

T Relays

4.116 Have the trunk made busy in accordance with 3.02.

4.117 Block the A relay of the trunk non-operated to prevent interference with the associated terminating sender link.

TR Relays

4.118 Have the trunk made busy in accordance with 3.02.

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4.119 Block the ST relay of the trunk non-operated to prevent interference with the associated KPA link.

All Other Relays

4.120 Have the trunk made busy in accordance with 3.02.

(I) Incoming Trunk per SD-25256-01

A Relays

4.121 Have the trunk made busy in accordance with 3.02.

4.122 Block the D relay of the trunk operated to prevent interference with the associated terminating sender link and control circuit.

A1 Relays

4.123 Have the trunk made busy in accordance with 3.02.

4.124 Block the D relay of the trunk operated to prevent interference with the associated terminating sender link and control circuit.

D Relays

4.125 Have the trunk made busy in accordance with 3.02.

4.126 Block the F relay of the trunk non-operated and take care not to ground the bottom 5 spring of the D relay to prevent interference with the associated link and connector circuits.

F Relays

4.127 Have the ten trunks associated with the same primary link switch made busy.

4.128 When taking the relays out of service, have the Traffic Department discontinue number checking on the associated trunks.

FL Relays

4.129 Have the trunk made busy in accordance with 3.02.

RC Relays

4.130 Have the trunk made busy in accordance with 3.02.

4.131 Take care not to ground the top 2 and 3 springs of the RC relay to prevent interference with the associated interrupter frame and to prevent the sounding of a major alarm.

RV Relays

4.132 Have the trunk made busy in accordance with 3.02.

4.133 Insulate the top 2 spring of the RC relay to prevent interference with the associated interrupter frame circuit.

NC Relays

4.134 When taking any of these relays out of service, have the Traffic Department discontinue number checking on the associated trunks in all of the associated offices in the same building.

(J) Incoming Trunk per SD-25263-01

D Relays

4.135 Have the trunk made busy in accordance with 3.02.

4.136 Take care not to ground the top 2 and 3 springs of the D relay as this will cause interference with the associated terminating sender link and control circuit. The operation of the D relay will also cause the associated group busy signals and idle trunk indicating circuit to operate.

F Relays

4.137 Have the ten trunks associated with the same primary link switch made busy in the approved manner at the originating office.

4.138 Block the LC relay of the associated incoming link and connector circuit non-operated to prevent interference with this link.

RC Relays

4.139 Have the trunk made busy in accordance with 3.02.

4.140 Take care to prevent grounding the top 4, 5 and 6 and bottom 7 springs of the RC relay as this will cause a major alarm to sound.

RV Relays

4.141 Have the trunk made busy in accordance with 3.02.

4.142 Insulate the top 5 spring of the RC relay to prevent interference with the associated interrupter frame circuit.

SL Relays

4.143 If possible work on this relay should be done only during periods of light traffic. The Traffic Department should also be notified.

4.144 Block the D relay of the trunk operated to prevent interference with the associated terminating sender link and control circuit.

All Other Relays

4.145 Have the trunk made busy in accordance with 3.02.

(K) Timing Circuit for Incoming Trunk Circuit
per SD-25038-01

A Relays

4.146 To remove this relay from service block the A relay in its non-operated position to prevent interference with the

associated incoming trunks. If work is to be performed on this relay, block the B and C relays in their normal position.

B and C Relays

4.147 Work on this relay should only be done during periods of light traffic.

5. REPORTS

5.01 Any required records of the equipment removed from service should be entered on the proper form.

