

PERFORMANCE REQUIREMENTS
CARRIER GROUP ALARM CIRCUIT FOR T1 CARRIER
GENERAL EQUIPMENT REQUIREMENTS
COMMON SYSTEMS

1. GENERAL

1.01 This section covers the requirements which the J98711P, List 1 and List 2 panels must meet before turnover to the telephone company.

1.02 This section is reissued to include information on the performance requirements of J98711P, List 2. Due to extensive changes marginal arrows have been omitted.

1.03 Reference shall be made to Section 800-630-180 covering general requirements for additional information necessary for the proper application of requirements.

1.04 Test Equipment: These requirements are based on the use of the KS-14510, List 1 or List 5 volt-ohm-milliammeter or equivalent for voltage checks and continuity.

1.05 J98711P, List 1 Panel:

- (a) Check that X or J wiring is installed as specified.
- (b) Check that Z or Y wiring is installed as specified.
- (c) Check that W wiring is in-circuit in all cases.

1.06 J98711P List 2 Panel:

- (a) Check that J and K wiring is in-circuit in all cases.
- (b) Check that all of the option screws S, T, V, W, X, Y, and Z are in the open-circuit positions.

2. REQUIREMENTS FOR J98711P LIST 1 PANEL

A. Occurrence of System Failure

2.01 After continuity checks and insertion of the proper fuse at the central office battery distribution fuse board, check that -48

volts appears at the L terminal of the S1 relay winding.

2.02 At the rear of the associated T carrier terminal, ground terminal B1 of the jack for the alarm control unit (slot designation D, connector position 6). The following sequence should occur on the carrier group alarm panel:

- (a) Relays C, C1A through C3B, S, and S1 should all operate immediately and -48 volts should appear at position 12 of the C relay.
- (b) After a delay of approximately 10 seconds, the following sequence of events takes place:
 - (1) D2 relay operates.
 - (2) The -48 volts is replaced by an open circuit at position 12 of the C relay.
 - (3) D and D1 relays operate.
 - (4) S1 relay releases, followed by S relay which releases slowly and reoperates the S1 relay.
 - (5) D2 relay releases.
 - (6) The -48 volts reappears at position 12 of the C relay.

B. Restoral of System

2.03 Remove ground from terminal B1 of the jack for the alarm control circuit (see 2.02). The following sequence should occur:

- (a) After a delay of approximately 10 seconds, the D2 relay operates.
- (b) The -48 volts is replaced by an open circuit at position 12 of the C relay.
- (c) The C, C1A through C3B, D, D1, D2, and S1 relays release.

3. REQUIREMENTS FOR J98711P, LIST 2 PANEL

A. Occurrence of System Failure

3.01 After continuity checks and insertion of the proper fuse at the central office battery distribution fuse board, check that -48 volts appears at the L terminal of the C1 relay winding.

3.02 At the rear of the associated T carrier terminal, ground terminal B1 of the jack for the alarm control unit (slot designation D, connector position 6). The following sequence should occur on the carrier group alarm panel:

(a) Relays C, C1 through C3B, S, and S1 should all operate immediately. The group alarm lamp GA should light and -48 volts appears at position 12 of the C relay.

(b) After a delay of approximately 10 seconds, the following sequence of events takes place:

- (1) D2 and D3 relays operate.
- (2) The -48 volts is replaced by an open circuit at position 12 of the C relay.
- (3) D and D1 relays operate.
- (4) S1 relay releases, followed by S relay which releases slowly and reoperates the S1 relay.
- (5) D2 and D3 relays release.
- (6) The -48 volts reappears at position 12 of the C relay.

B. Restoral of the System

3.03 Remove the ground from terminal B1 of the jack for the alarm control circuit (see 3.02). The following sequence should occur:

- (a) After a delay of approximately 10 seconds the D2 and D3 relays operate.
- (b) The -48 volts is replaced by an open circuit at position 12 of the C relay.
- (c) The C, C1 through C3B, D, D1, D2, D3, and S relays release.

(d) The group alarm lamp GA is extinguished.

C. Occurrence of Hit (Less than 10 Seconds)

3.04 At the rear of the associated T carrier terminal, ground terminal B1 of the jack for the alarm control unit (slot designation D, connector position 6). Immediately remove the ground. The following sequence should occur on the carrier group alarm panel:

(a) Relays C, C1 through C3B, S, and S1 should all operate immediately. The group alarm lamp GA should light and -48 volts appears at position 12 of the C relay.

(b) After a delay of approximately 10 seconds, the following sequence of events takes place:

- (1) D2 and D3 relays operate.
- (2) The -48 volts is replaced by an open circuit at position 12 of the C relay.
- (3) D and D1 relays operate.
- (4) S1 relay releases, followed by S relay which releases slowly and reoperates the S1 relay.
- (5) D2 and D3 relays release.
- (6) The -48 volts reappears at position 12 of the C relay.

(c) After approximately 8 additional seconds the following sequence of events takes place:

- (1) The D2 and D3 relays operate.
- (2) The -48 volts is replaced by an open circuit at position 12 of the C relay.
- (3) The C, C1 through C3B, D, D1, D2, D3, and S relays release.
- (4) The group alarm lamp GA is extinguished.

4. TEST REPORTS AND RECORDS

4.01 The required record of these tests should be entered on the proper form.