

INCOMING SELECTOR OFF-NORMAL DETECTION AND RELEASE FRAME EQUIPMENT DESIGN REQUIREMENTS PANEL SYSTEMS

1. GENERAL

Scope

1.01 This specification, together with the supplementary information listed herein, covers the equipment design requirements for the framework, equipment, and circuits to be used in the engineering, manufacture, and installation of the incoming selector off-normal detection and release frame in panel offices.

1.02 This specification is reissued to:

- (a) Add Fig. 6, SD-21980-01 to Lists 1 and 2 of J24302A.
- (b) Rate List 3 "Mfr Disc.", add Lists 4 and 5, and change Note E of J24302A.
- (c) Add "S" Option to J24302B.
- (d) Add List 2 to J24302C.

Capacity

1.03 This frame has a capacity of 1600 incoming selectors and two walking units.

Description

1.04 If a full-automatic incoming selector sequence switch remains in position 3, 9, or 11 beyond the normal operating time, the switch can only be returned to normal by hand or by a customer call that did not complete. The equipment covered by this specification provides for checking each incoming selector sequence switch in rotation to determine if it is off normal. If the switch is found to be off normal longer than is required to complete a call, this equipment either returns the switch to normal or brings in an alarm.

1.05 The incoming off-normal detection and release equipment for testing a maximum of 1600 incoming selectors is mounted on a bulb-angle framework 11 feet 6 inches high and 2 feet 5/8 inches long.

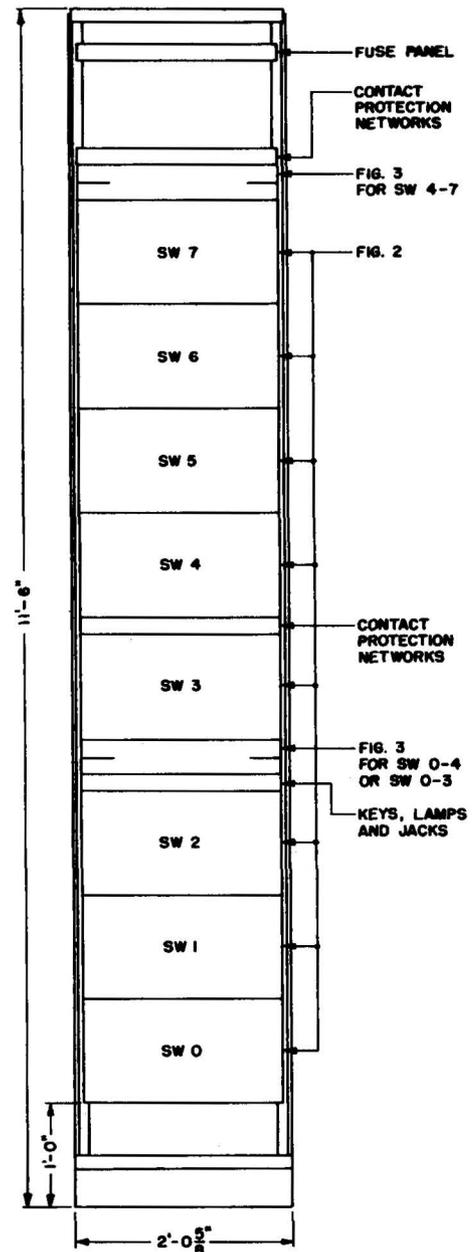


Fig. 1 - Off-Normal Incoming Selector Detection and Release Frame

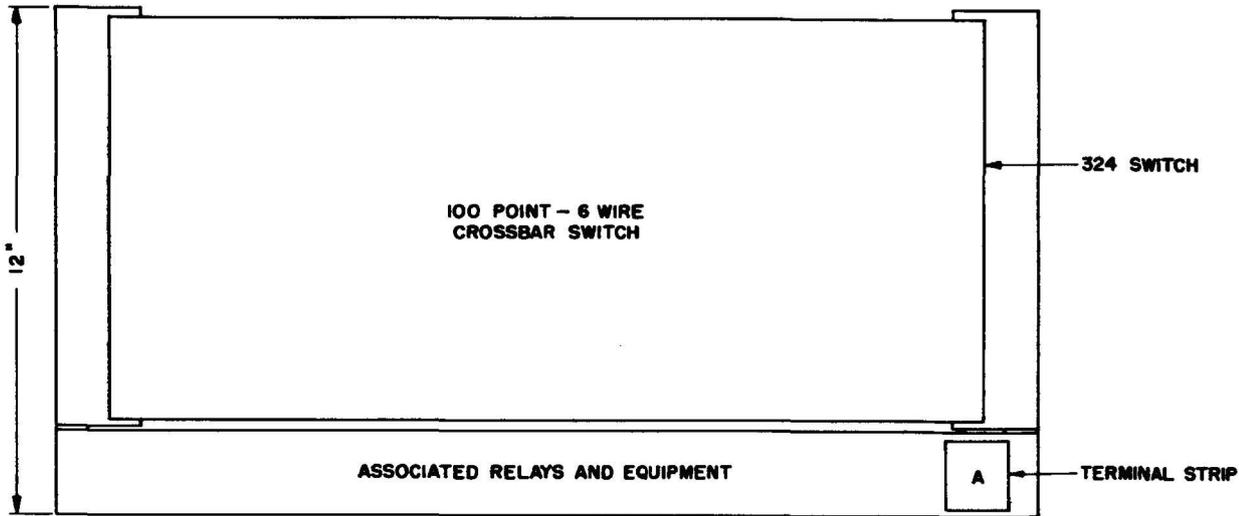


Fig. 2 - Detection and Release Unit

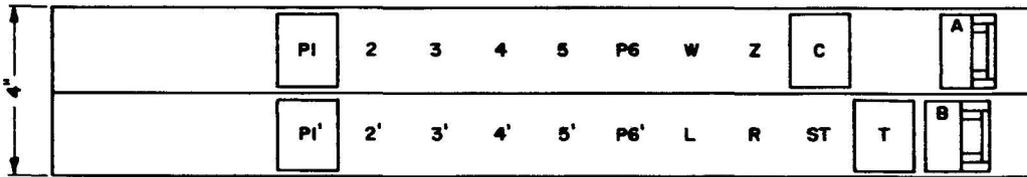


Fig. 3 - Walking and Select Magnet Control Unit

1.06 The J24302B detector and release unit consists of a crossbar switch and a mounting plate of apparatus with terminal strips on which external wiring is terminated except those wires to the crossbar switch. This unit provides for testing 200 incoming selectors.

1.07 The J24302C walking circuit unit is a 2-plate, surface-wired unit equipped with terminal strips for connecting external wires. This unit is associated with a maximum of 1000 incoming selectors.

1.08 This frame may be equipped to test a maximum of 1000 incoming selectors in one group or two groups of 800 incoming selectors each.

2. SUPPLEMENTARY INFORMATION

- 815-000-000 — Panel Systems Index
- AA128.002 — List of Equipment Design Requirements Sections

- AA128.006 — List of General Equipment Requirements Sections
- Floor Plan Data — Section 4.3, Sheet 38, — Incoming Selector Off-normal Detection and Release Frame

3. DRAWINGS

WECO J drawings should be ordered by referring to the prefix and base number and requesting the current dash (—) number.

Keysheet

- SD-21300-01 — Panel Systems — Battery on CO Relay

Equipment

- J24302A-() — Incoming Selector Off-normal Detection and Release Frame
- J24302B-() — Detection and Release Unit
- J24302C-() — Walking and Select Magnet Control Unit
- J24302D-() — Fuse Panel

Framework

ED-25529-70 — Guardrail Junctions
 ED-92744-10 — Bulb-angle Frame

Wiring and Cabling

ED-20622-01 — Method of Running Battery
 and Ground Leads — Single-
 sided Frames — Panel Systems

ED-25346-14 }
 ED-25346-15 } Method of Running Power
 ED-25346-16 } Feeders

ED-95131-() — Typical Fuse Panel Wiring
 and Equipment Arrangement —
 For Multiple Fuse Module
 Blocks Using Type 70 Fuses
 on 2-inch Mounting Plate

4. EQUIPMENT

**J24302A (A&M Only) — Incoming Selector
 Off-Normal Detection and Release
 Frame**

Equipment — J24302A-()

List 1 — Framework, assembly, wiring, and
 common equipment for one incoming
 selector off-normal detection and re-
 lease frame arranged for testing a
 maximum of 1000 full mechanical in-
 coming selectors. (See notes A and B.)

	WIRE	EQUIP
Detection and Release Ckt for Off-normal Incoming Selector, SD-21980-01:		
Fig. 1	5	0
Fig. 2	1	0
Fig. 3	1	1
Fig. 4	5	5
Fig. 5	5	0
Fig. 6 & V Option	1	1
Miscellaneous Ckt, SD-21983-01:		
Fig. 1	1	1
Fig. 2	5	5
Fig. 3	1	1

List 2 — Wiring and equipment required in ad-
 dition to list 1 to provide for testing
 a maximum of 1600 incoming selec-
 tors and two walking units. (See notes
 C and D.)

Detection and Release Ckt for
 Off-normal Incoming Selector,
 SD-21980-01:

	WIRE	EQUIP
Fig. 1	5	0
Fig. 2	1	0
Fig. 3	1	1
Fig. 4	3	3
Fig. 5	3	0
Fig. 6 & V Option	1	1
Miscellaneous Ckt, SD-21983-01, Fig. 2	4	4

List 4 — Equipment and wiring per SD-21980-01,
 Fig. 8 required in addition to list 1 and
 list 2 for each walking circuit for time-
 out and alarm feature.

List 5 — Equipment per SD-21980-01, Fig. 5
 "M" option only, required in addition
 to list 1 for contact protection for hold
 and select magnets for each two cross-
 bar switches (Max 4) (See note E.)

Notes

- A. One J24302B unit shall be equipped for each
 200 incoming selectors to be tested. One
 J24302C unit shall be furnished for five
 J24302B units equipped if the frame is to
 test a maximum of 1000 incoming selectors.
- B. Local cable A forms a part of list 1. If list
 2 is not furnished connection is made to
 switch 4.
- C. If the frame is to test a maximum of 1600
 incoming selectors, the fifth J24302B unit
 shall be assigned to the second J24302C
 unit, which shall serve connector switches
 4 to 7, and a supplementary cable B shall
 be furnished. Connector switch 4 shall be
 rewired to cable B.
- D. Local cable B forms a part of list 2. When
 this cable is furnished, the leads in cable A
 connected to switch 4 are disconnected and
 cable B is connected to this switch.
- E. One 189A mounting plate shall be furnished
 with the first and third list 5 equipped (Max
 2.)

**J24302B (A&M Only) — Detection and Release
 Unit**

Equipment — J24302B-()

List 1 — Assembly, equipment, and wiring for
 one detection and release unit per
 SD-21980-01, Fig. 1, with "S" option.

J24302C (A&M Only) — Walking and Select Magnet Control Unit

Equipment — J24302C-()

List 1 — Assembly, equipment, and wiring for one walking and select magnet control unit per SD-21980-01, Fig. 2.

List 2 — Equipment and wiring per SD-21980-01, Fig. 7, and "Q" option required in addition to list 1 for one time out and alarm circuit.

J24302D (A&M Only) — Fuse Panel

Equipment — J24302D-()

List 1 — Assembly, wiring, and equipment for one frame fuse panel per SD-21983-01, Fig. 1 and twelve Fig. 2.

5. GENERAL NOTES

5.01 If a maximum of 1000 incoming selectors is to be served by one J24302A frame, only one J24302C walking unit should be furnished and connected to the fifth J24302B unit on a job basis.

Wiring and Cabling

5.02 This frame shall be wired with No. 24 "BU" wire.

List of "A&M Only" and "Mfr Disc." Equipment

The following equipment has been replaced as indicated. Where "A&M Only" items appear, the issue numbers shown are those of the issue in which the rating was first applied.

EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
J24302A,L3	Mfr Disc.	1	J24302A,L5

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