

**CENTRAL OFFICE
FUSE ALARM
MAINTENANCE EQUIPMENT
EQUIPMENT DESIGN REQUIREMENTS
COMMON SYSTEMS**

1. GENERAL

Scope

1.01 This specification, together with supplementary information listed herein, covers the equipment design requirements for fuse alarm maintenance equipment for use in telephone central offices.

Purpose

1.02 The purpose of this equipment is to permit connection of various fuse alarm circuits to the office alarm systems.

Description

1.03 The alarm relay unit, NJ01078C, is a shop wired mounting plate equipped with two D5A terminal strips, wire spring relays for battery alarm, and J-type relays for miscellaneous ringing alarms. The unit occupies the space of one 2- by 23-inch mounting plate space.

1.04 The alarm relay unit, NJ01078D, is a shop wired unit mounting plate equipped with one 251B terminal strip and relays as described in 1.03. The unit occupies the space of two 1-3/4- by 19-inch mounting plate spaces.

Features

1.05 With the exception of the ringing alarm relays, diodes are furnished on the relays to minimize impulse noise produced. The need for common aisle alarm type fusing has been eliminated by limiting the number of fuse panels that may be connected. This is similar to the method used on SD-68068-01, 4A toll system fuse alarm circuit. These units feature a universal output arrangement in that, by proper option

selections at the unit terminal strip, high resistance battery, ground, or loop closure outputs are available. It is anticipated these units will largely eliminate the need to provide fuse alarm circuits on a miscellaneous basis.

Location

1.06 These units are intended for mounting either at the top of a fuse bay or if miscellaneous fuse panels require alarm connection in a nearby miscellaneous relay rack location. To minimize office cabling, these units should not be all mounted in one central location.

Records

1.07 To insure that the maximum fuse panel combining restrictions of NS01078-02, Note 305, are not exceeded, an office record of fuse panel assignments to fuse alarm relays is required. These may be located as the first sheet of the fuse record book or on an appropriate office wiring list.

2. SUPPLEMENTARY INFORMATION

CD-01078-02—(Part of NS)

3. DRAWINGS

NS01046-01—Common Systems, Central Office Alarm Systems
NS01078-02—Common Systems, Central Office Alarm Fuse Alarm Circuit
SD-95072-01—Dist, Fuse, Common Aisle, and Miscellaneous Alarm Circuits

4. EQUIPMENT***NJ01078C—WECO Appd—Fuse Alarm Relay Panel***

Equipment—NJ01078C()

List 1—Assembly, wiring, and equipment required for one 2 inch by 23 inch relay panel.**List 2**—Wiring and equipment required in addition to List 1 to provide one fuse alarm relay circuit per NS01078-02, Fig. 4 (see Note A).**List 3**—Wiring and equipment required in addition to List 1 to provide one 20 Hz alarm relay per NS01078-02, Fig. 6. (Maximum 2 per unit. Provide one List 3 per 20 Hz fuse panel.)**List 4**—Wiring and equipment required in addition to List 1 for connection to No. 5 crossbar alarm system per NS01078-02, V option (see Note B).**List 5**—Wiring and equipment required in addition to List 1 to provide one machine ring fuse alarm relay per NS01078-02, Fig. 8. (Maximum 2 per unit. Provide one List 5 per MR fuse panel.)**Notes:**

- A. See NS01078-02 for maximum number of fuse panels to be assigned to one alarm relay.
- B. When List 4 is specified, the entire panel must be used for connection to the No. 5 crossbar alarm system.

NJ01078D—WECO Appd—Fuse Alarm Relay Panel

Equipment—NJ01078D()

List 1—Assembly, wiring, and equipment required for one 3-1/2 inch by 19 inch relay panel.**List 2**—Wiring and equipment required in addition to List 1 to provide one fuse alarm relay circuit per NS01078-02, Fig. 4 (see Note A).**List 3**—Wiring and equipment required in addition to List 1 to provide one 20 Hz alarm relay per NS01078-02, Fig. 6. (Maximum 2 per unit. Provide one List 3 per 20 Hz fuse panel.)**List 4**—Wiring and equipment required in addition to List 1 for connection to No. 5 crossbar alarm system per NS01078-02, V option (see Note B).**List 5**—Wiring and equipment required in addition to List 1 to provide one machine ring fuse alarm relay per NS01078-02, Fig. 8. (Maximum 2 per unit. Provide one List 5 per MR fuse panel.)**Notes:**

- A. See NS01078-02 for maximum number of fuse panels to be assigned to one alarm relay.
- B. When List 4 is specified the entire panel must be used for connection to the No. 5 crossbar alarm system.

LIST OF "MFR DISC." EQUIPMENT

<u>EQUIPMENT</u>	<u>RATING</u>	<u>REPLACING EQUIPMENT</u>
NJ01078A	Mfr Disc.	NJ01078C
NJ01078B	Mfr Disc.	NJ01078D

The above equipment has been replaced as indicated.