

## POWER UNITS

### 34B1 AND 34C1

### IDENTIFICATION, INSTALLATION, AND CONNECTIONS

#### 1. GENERAL

1.01 The 34B1 and 34C1 power units are intended to provide interrupter and lamp power in key telephone units.

1.02 The schematic diagram and circuit description for the power units are covered in SD-81904-01 and CD-81904-01, respectively.

#### 2. IDENTIFICATION

2.01 The 34B1 power unit is approximately 14 inches wide by 8-1/4 inches high by 6-3/8 inches deep and is intended for wall mounting. The unit is furnished with a parallel-blade, 3-conductor, input receptacle which will accept an input cord provided with a 3-conductor, parallel-blade, molded plug (see 2.03). A wall mounting plate and fiberglass cover are furnished.

2.02 The 34C1 power unit is approximately 10-1/2 inches wide by 7 inches high by 5-1/2 inches deep and is designed for frame mounting. Two units can be mounted side by side in a standard 23-inch equipment frame. The unit is furnished with an input cord provided with three parallel male blades which will accept a cord with female end (see 2.03).

2.03 An ac input cord is required for each unit and must be ordered separately. Available part numbers and lengths are as follows:

PART NO.	LENGTH (FT)
P-40J326	1-1/2
P-40J327	2
P-40J328	4
P-40J329	6
P-40J099	12

**Caution:** The power cord should not be connected to the ac service receptacle until other wiring has been connected.

2.04 The 34B1 and 34C1 power units operate on an ac input of 111, 117, or 123 volts  $\pm 5$  percent, 60 Hz. The outputs of the power units are as follows:

(a) **AC Lamp Outputs:** 8.75 to 11 volts or 9.75 to 12 volts (see note); 0 to 25 amperes (0 to 35 amperes intermittent duty).

**Note:** Links are provided to furnish either  $\pm 10$  volts ac or  $\pm 11$  volts ac lamp power, depending upon individual key telephone unit requirements.

(b) **AC Interrupter Output:** 8.75 to 11 volts.

2.05 The power units are fused as follows:

**Input:** 5-ampere Bussman MDX-5 fuse

**Output:**  $\pm 10/11$  volts ac, 3-ampere, No. 24B fuses;  $\pm 10$  volts ac, 2-ampere, No. 24C fuse.

#### 3. INSTALLATION



**Reference shall be made to Section 167-400-200 for general requirements necessary for the proper installation of the power units.**

3.01 Install the 34B1 power unit as follows.

**Note:** The power unit must be mounted on a wall in a vertical position with enough open area to ensure adequate ventilation.

(a) Fasten the backboard plate assembly, B-993555, to the wall in accordance with Section 463-130-200.

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- (b) Hang the power unit on the backboard plate and secure with the machine screws provided.

**3.02** Mount the **34C1** power unit on an equipment frame using the four mounting holes on the metal enclosure and the machine screws provided.

*Note:* Two 34C1 units may be mounted side by side on a standard 23-inch equipment frame.

### 4. CONNECTIONS (See Fig. 1)

**4.01** The instructions that follow are for connecting the 34B1 and 34C1 power units to ac power service and to associated telephone equipment. Procedures apply to both units unless otherwise indicated.

**4.02** The power units have three terminals (111 volts, 117 volts, and 123 volts) for adjustment to the ac service voltage level available. They are shipped with the adjustment lead connected to the 117-volt terminal. With this connection, the units will perform satisfactorily for normal line voltages between 111 and 123 volts. Measure the ac line

voltage. If the voltage is abnormal, connect the adjustment lead to the terminal nearest the average line voltage.

**Caution:** *Disconnect ac power cord before changing taps or line fuse.*

**4.03** AC (60 Hz) lamp voltage links are normally connected for  $\pm 10$  volts. If the system requires higher lamp voltage, the link may be adjusted for  $\pm 11$  volts.

**4.04** Place the input cable in the black support clip provided (34C1 only). Place wiring supplying telephone equipment, connected in accordance with panel stamped designations and SD-81904-01, through the nylon cable clips provided on the power unit panel (bottom center of 34B1 and each end of 34C1).

**4.05** Connect LOC GRD in accordance with Section 167-400-200.

**4.06** Connect the ac input connector to the mating connector on the power unit.

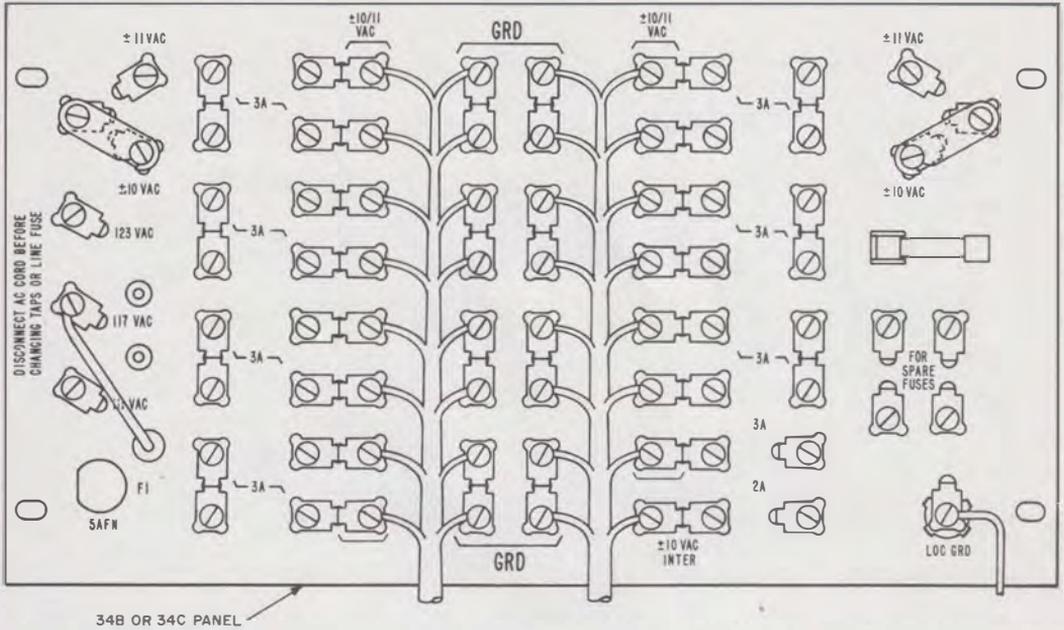


Fig. 1—Wiring Connections for 34-Type Power Units