

337A PAGING ADAPTER

IDENTIFICATION, INSTALLATION, CORRECTIONS, OPERATION, AND MAINTENANCE

1. GENERAL

1.01 This section provides information on the identification, installation, connections, and maintenance of the 337A paging adapter.

1.02 Whenever this section is reissued, the reason(s) for reissue will be listed in this paragraph.

1.03 This issue of the section is based on the CD- and SD-69922-01, Issue 4B.

2. IDENTIFICATION

PURPOSE

2.01 The 337A paging adapter provides dial selective intercom paging access for 1A2 key telephone systems (KTSs). The paging adapter is specifically designed for use with the 407-, 424-, and 494-type key telephone units (KTUs). It cannot be used with button-per-path intercom systems.

ORDERING GUIDE

2.02 Order as follows:

(a) **Basic Unit:** Unit, Adapter, Paging, 337A — order one for each paging zone required (maximum 3). No additional unit is required for all zone paging.

(b) **Associated Apparatus (order separately):** Coupler, 33A or 33B — required when music-on-hold on CO lines and background music on the paging amplifier(s) are to be supplied.

(c) **Replaceable Components:**

- Fuse, F1, 70F (.25A)
- Fuse, F2, 70F (.25A)
- Fuse, F3, 70H (.75A)

- Fuse, F4, 70H (.75A)

- D-180768 Kit of Parts (additional option plugs).

DESIGN FEATURES

2.03 The 337A paging adapter (Fig. 1) provides dial paging access for 1A2 KTSs. The adapter is designed to interface with the 407-, 427-, and 494-type dial intercom KTUs. Features included are:

- Approximate dimensions are 5.2-inches wide, 5.0-inches long, and 1.68-inches high.
- Exposed screw terminals for all customer-provided (CP) connections.
- **Background Music** — a balanced music source capable of driving an 8-ohm load should be provided when background music over the paging system is required. The input to the 337A paging adapter is protected by fuses to guard against hazardous voltages from the customer music source. Since the music can only be fed to the paging amplifier, and not back to the 1A2 intercom system, a 33-type voice coupler is not required. However, if background music is to be provided to the paging amplifiers along with music-on-hold to the CO lines, a 33-type voice coupler will be required.
- **Alerting Tone** — each time a paging adapter is accessed, an audible tone is generated that is transmitted to both the calling party and the paging amplifier.
- **Customer-Provided Tones** — CP tones for coffee breaks, lunch breaks, etc, are not prohibited nor provided by the access circuit. A tone source connection must be made on the amplifier side of the access circuit allowing superposition of tones with background music or voice pages.

NOTICE

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- **Click Suppression** — Circuitry is provided in the 337A paging adapter to minimize audible clicks heard when the adapter is accessed or when the calling party terminates the page. It does not act on transients that may occur during an actual page.
- Fuses are provided to protect the 337A paging adapter from excessive currents from the customer-provided equipment (CPE).

2.04 The 337A paging adapter requires a service option when background music is provided. To activate the option for background music, the option plug stored in the P1 option slot is turned to connect the A and B terminals and the option plug stored in the P2 option slot is turned to connect the C and D terminals. Additional option plugs are available by ordering a D-180768 Kit of Parts. When background music is to be provided along with music-on-hold, the music input to the 337A paging adapter should be connected to terminals M1 and M2 of a 33-type coupler. Also, option plugs P1 and P2 in the 337A paging adapter should be turned to the store position.

2.05 The 337A paging adapter is activated by 10-volt ac, -24 volt dc, or 105-volt ac ringing voltage. These voltages are connected to the paging adapter from the dial intercom KTU via the RN lead. Refer to Section 518-215-402 for information on 1A2 KTU intercom services.

3. INSTALLATION AND CONNECTIONS

3.01 The 337A paging adapter is contained in a wall- or shelf-mountable housing.

Warning: All wiring should be completed before applying power to prevent damage to adapter components.

3.02 All telephone connections are made to the screw terminals under the cover. A separate terminal strip which is not covered is provided for customer connections.

3.03 For the 337A paging adapter connections, refer to Fig. 2.

3.04 If background music is provided, place the options described in paragraph 2.04.

4. OPERATION

4.01 The 337A paging adapter is designed to be used in conjunction with the 1A2 dial intercom services which are the 407-, 424-, and 494-type KTUs.

4.02 To access the 337A paging adapter, the number assigned to the paging adapter is dialed. This will cause a momentary voltage to appear on the RN lead (10-volt ac, -24 volt dc, or 105-volt ac ringing voltage) which will activate the paging adapter. The paging adapter is held operated under control of the lamp voltage from the dial intercom circuit via the L lead. A 500-Hz tone of 0.5 second duration is transmitted to the paging amplifier and the calling party indicating that the paging adapter is in the paging mode. The paging adapter will remain in the paging mode until the calling party goes on-hook. This releases the dial intercom circuit extinguishing the associated lamp which releases the paging adapter.

POWER

4.03 The 337A paging adapter is designed to operate on a -24 volt dc power supply obtained from the associated key system if capacity is available. Current drain is .030 amps at -24 volt direct current.

5. MAINTENANCE

5.01 Maintenance is limited to checking for blown fuses, loose or broken connections, and verification that the local wiring is correct. Refer to Fig. 3 for the schematic diagram of the 337A paging adapter.

5.02 When trouble is suspected in the adapter, have the customer remove all the CP terminations and then replace the adapter.



Do not attempt any tests or repairs on CPE.

5.03 When in the judgment of repair personnel the trouble is located in the CPE, the customer should be notified so proper maintenance of the CPE can be initiated.

6. COMPATIBILITY

6.01 The 337A paging adapter is compatible with the 407-, 424-, or 494-type KTU.

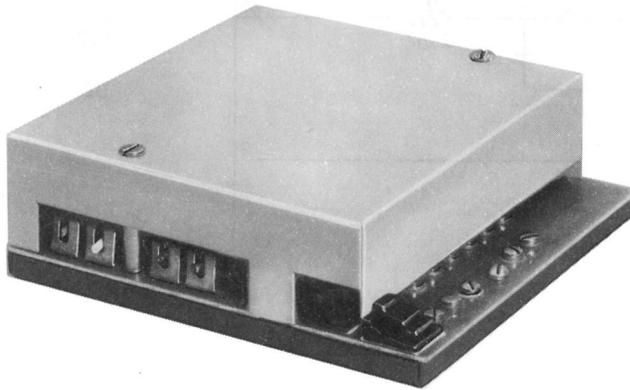
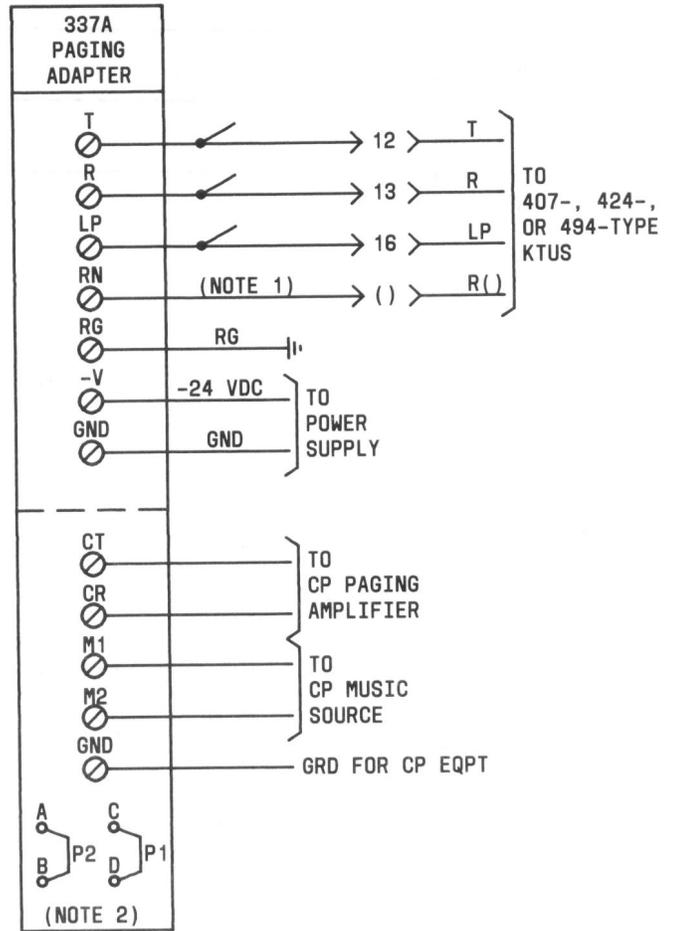


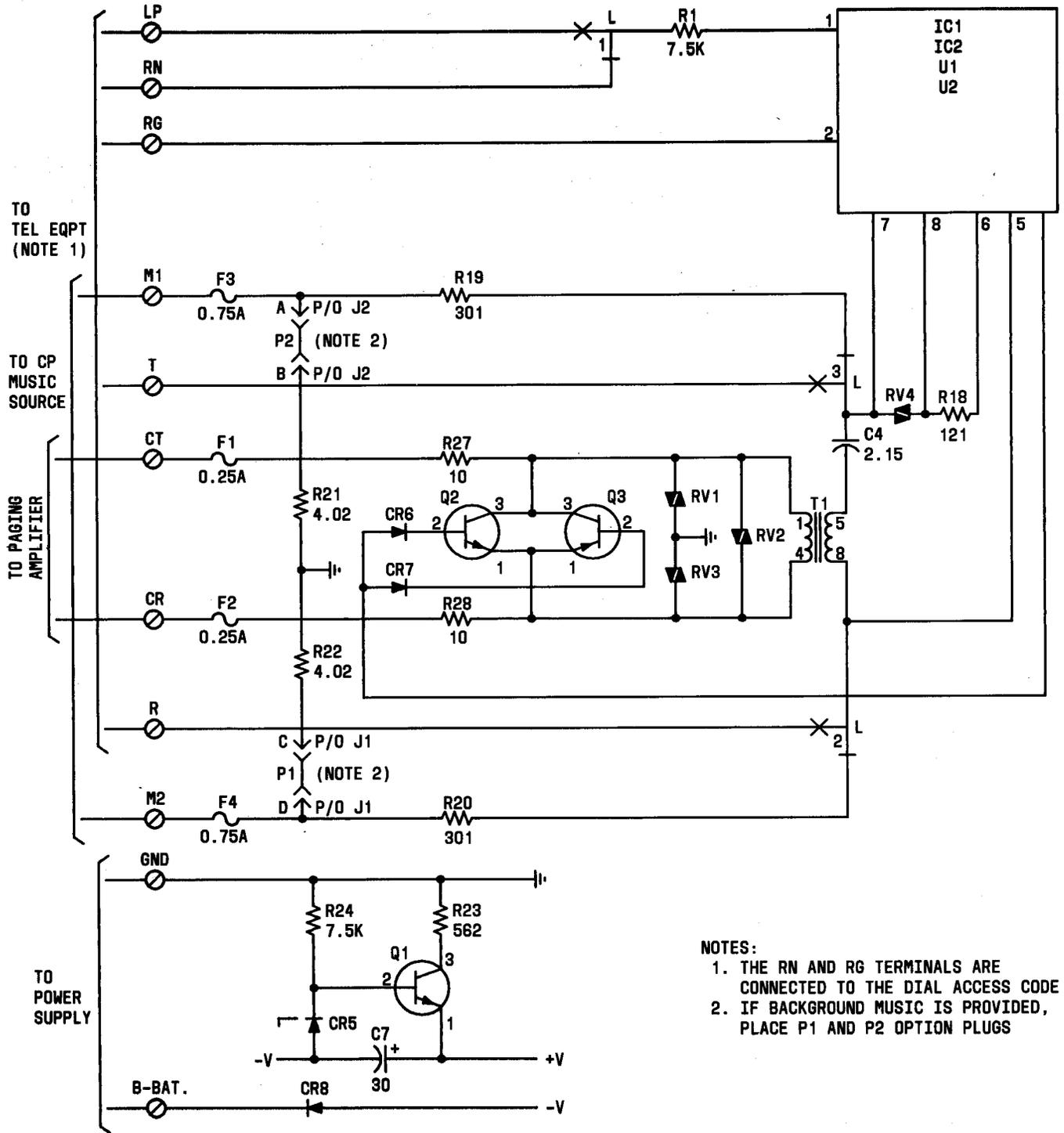
Fig. 1—337A Paging Adapter



NOTES:

1. THE RN AND RG TERMINALS ARE CONNECTED TO THE DIAL ACCESS CODE
2. IF BACKGROUND MUSIC IS PROVIDED, PLACE P1 AND P2 OPTION PLUGS

Fig. 2—337A Paging Adapter Connections



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1. THE RN AND RG TERMINALS ARE CONNECTED TO THE DIAL ACCESS CODE
 2. IF BACKGROUND MUSIC IS PROVIDED, PLACE P1 AND P2 OPTION PLUGS

Fig. 3—Schematic Diagram of 337A Paging Adapter