

E6 RANGE EXTENDER INSTALLATION

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1. GENERAL

1.01 This section describes installation procedures for the E6 Range Extender (E6RE).

1.02 The E6RE is designed to replace one of the 830-type Line Buildout (LBO) networks in the E6 repeater housing. It may be mounted in either the A or B position (Fig. 1). Power is supplied to the E6RE from the 831A/B gain network via a connector assembly attached to pins 7 and 14 of the 501A connector.

1.03 The E6RE provides an increase in effective central office battery voltage for extension of many special access lines or trunks to a nominal value of 2400 ohms. Also, an enable lead is provided to minimize current drain in idle circuit conditions. More detailed information on operation may be found in Section 332-206-129.

2. INSTALLATION

2.01 The E6RE is mounted in the E6 repeater housing on either the A or B side. However, it is recommended that the E6RE be connected on the central office switch side of the E6 and not between the repeater and a nonloaded facility.

2.02 Power is supplied to the E6RE by removing the E6 repeater housing and pushing the connector assembly over the 501A connector on the gain unit.

A. A-Side Installation

2.03 Install the E6RE on the A side of the E6 repeater housing as follows:

- (a) Remove 830- or 832-type network.
- (b) Slide E6RE into housing and tighten connecting screws 1, 2, 3, and 4.
- (c) Position the E6RE connector assembly so that pins 7 and 14 are aligned with pins 7 and 14 of the 501A connector on the gain unit.
- (d) Gently push the connector assembly until fully engaged with the 501A connector.
- (e) Dress excess cable into the recess beside connecting screw 1.

B. B-Side Installation

2.04 Install the E6RE on the B side of the E6 repeater housing as follows:

- (a) Remove 830- or 832-type network.
- (b) Fold the connector assembly under the E6RE and slide unit into the repeater housing.
- (c) Tighten connecting screws 1, 2, 3, and 4.
- (d) Align pins 7 and 14 of the connector assembly with pins 7 and 14 of the 501A connector on the gain unit.
- (e) Gently push the connector assembly over the 501A connector until fully engaged.

C. Removal of E6RE

2.05 Remove the E6RE from the E6 repeater housing as follows:

- (a) Use a small screwdriver as a lever alternately behind pins 7 and 14 to disengage the connector assembly.

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- (b) Loosen connecting screws 1, 2, 3, and 4.
- (c) Slide E6RE from the repeater housing.

The connector assembly does not affect the mounting arrangement of the repeater; therefore, the repeater

will continue to lock into its mounting in a normal manner.

2.06 Tables A and B provide restrictions on the maximum number of E6REs which may be mounted in existing E6 repeater bays. Special attention to fuse and wire size is required.

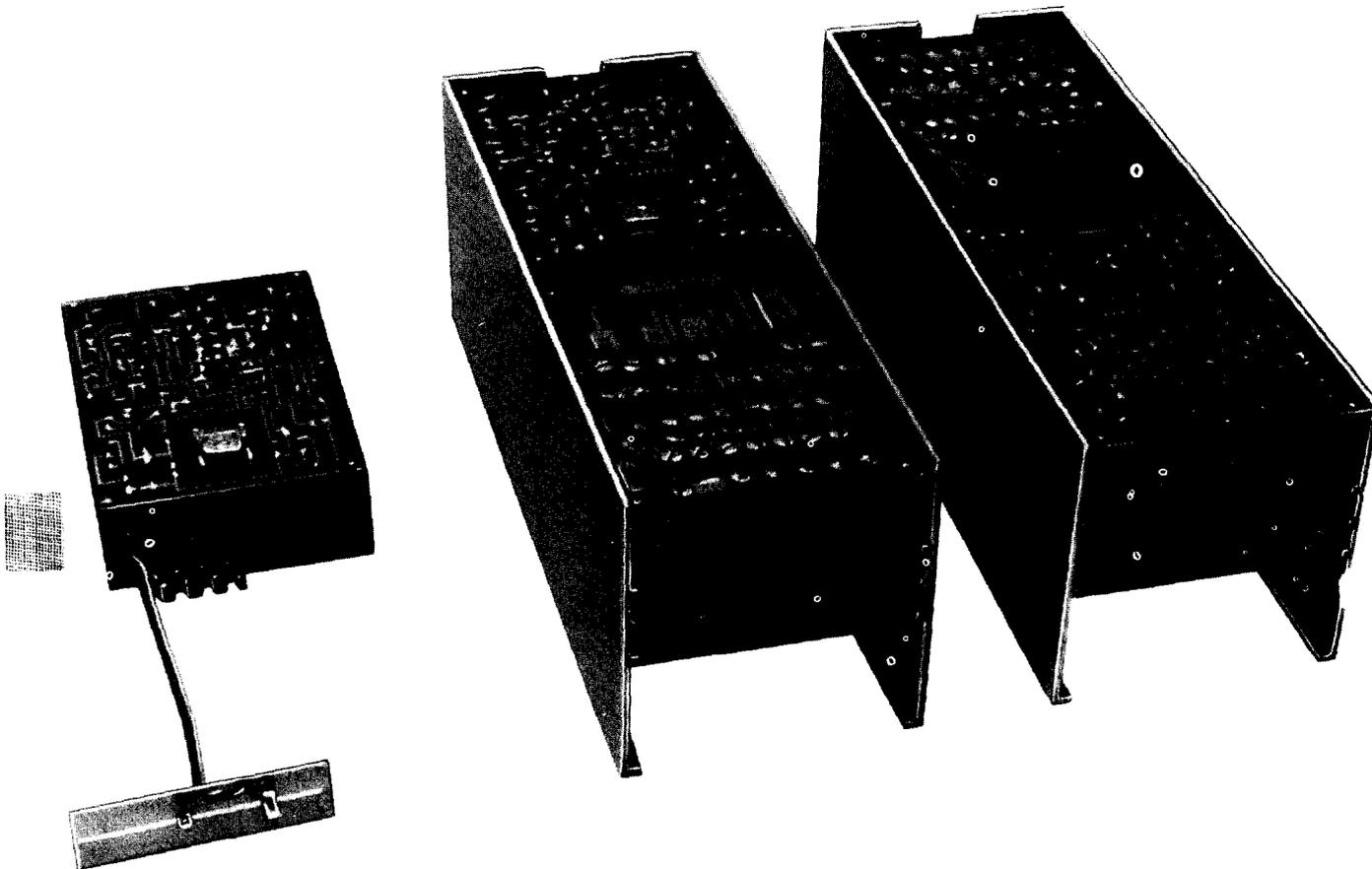


Fig. 1—E6RE Packaged in E6 Repeater

TABLE A
 PERMISSIBLE NUMBER OF E6 RANGE EXTENDERS ON
 EXISTING E6 REPEATER BAY
 (1-1/3 AMP FUSES ON 24-GAUGE WIRE)

| REPEATER GROUPING | REPEATERS WITH E6RE | REPEATERS WITHOUT E6RE | BAYS EQUIPPED WITH DISABLERS (J99253L) | |
|-------------------|---------------------|------------------------|--|----|
| | | | YES | NO |
| 18 | 3 | 15 | | |
| 12 | 5 | 7 | | ✓ |
| 12 | 4 | 8 | | ✓ |
| 6 | No Restrictions | No Restrictions | ✓ | |
| 6 | No Restrictions | No Restrictions | ✓ | ✓ |
| 9 (TSPS) | 6 | 3 | ✓ | ✓ |
| ESS Single Bay | No Restrictions | No Restrictions | ✓ | ✓ |
| ESS Double Bay | 0 | No Restrictions | ✓ | |

TABLE B
 PERMISSIBLE NUMBER OF E6 RANGE EXTENDERS ON
 MODIFIED E6 REPEATER BAY
 (3 AMP FUSES ON 20-GAUGE WIRE)

| REPEATER GROUPING | REPEATERS WITH E6RE | REPEATERS WITHOUT E6RE | BAYS EQUIPPED WITH DISABLERS (J99253L) | |
|-------------------|---------------------|------------------------|--|----|
| | | | YES | NO |
| 18 | 12 | 6 | | |
| 12 | No Restriction | No Restriction | | ✓ |
| 12 | No Restriction | No Restriction | | ✓ |
| 6 | No Restriction | No Restriction | ✓ | |
| 6 | No Restriction | No Restriction | ✓ | ✓ |
| TSPS Filter A | 30 | 12 | ✓ | ✓ |
| TSPS Filter B | 30 | 12 | | ✓ |