

## DATA SET 601-TYPE TRANSMITTER—RECEIVER MAINTENANCE

### 1. GENERAL

1.01 This section describes the maintenance required for the Data Set 601-type. Information concerning the business machine equipment associated with the data set is not included.

1.02 This section is reissued to change the nomenclature from CPS 1 to CPS ED1 and to show changes made to the apparatus units used on Data Sets 601A1, 601A2, 601B1, and 601B2.

1.03 The Data Set 601-type is designed for transmission or reception of telewriting analog signals on the Direct Distance Dialing (DDD) switching system.

1.04 For detailed operation, refer to CD- and SD-1D008-01.

### 2. MAINTENANCE

2.01 The filter may be replaced as necessary to convert any Data Set 601-type to another type, i.e., from A to B. The filters required for the various data sets are shown below.

DATA SET CODE	DIAL	FILTER CODE
601A	ROTARY	597A
601B	ROTARY	610A
601A1	ROTARY	597A
601B1	ROTARY	610A
601A2	TOUCH-TONE®	597A
601B2	TOUCH-TONE	610A

The corresponding nameplates should be replaced during this conversion.

2.02 The schematic of the control circuit is shown in Fig. 1.

2.03 The sequence chart for the data control circuit functions is shown in Fig. 2.

### Disassembly and Assembly of Parts

#### 2.04 Cover Removal:

- (1) Loosen but do not remove the six captive screws located around the base. See Fig. 3 and 4 for location of parts.
- (2) Remove covers, rear cover first.

#### 2.05 Filter Removal:



*Exercise caution when performing the disassembly and assembly of parts given below. Careless handling may result in broken wires or damaged apparatus.*

- (1) Remove covers as described in 2.04.
- (2) If working on Data Set 601A, 601B, 601A1, or 601B1, remove the rotary dial from the dial mounting bracket. When working on Data Set 601A2 or 601B2, the TOUCH-TONE dial must be removed from the mounting bracket.
- (3) Disconnect the filter spade terminals from the printed circuit board terminal strip. See Fig. 5 and 6.
- (4) Loosen the data set chassis by removing the four base mounting screws from the bottom of the base.

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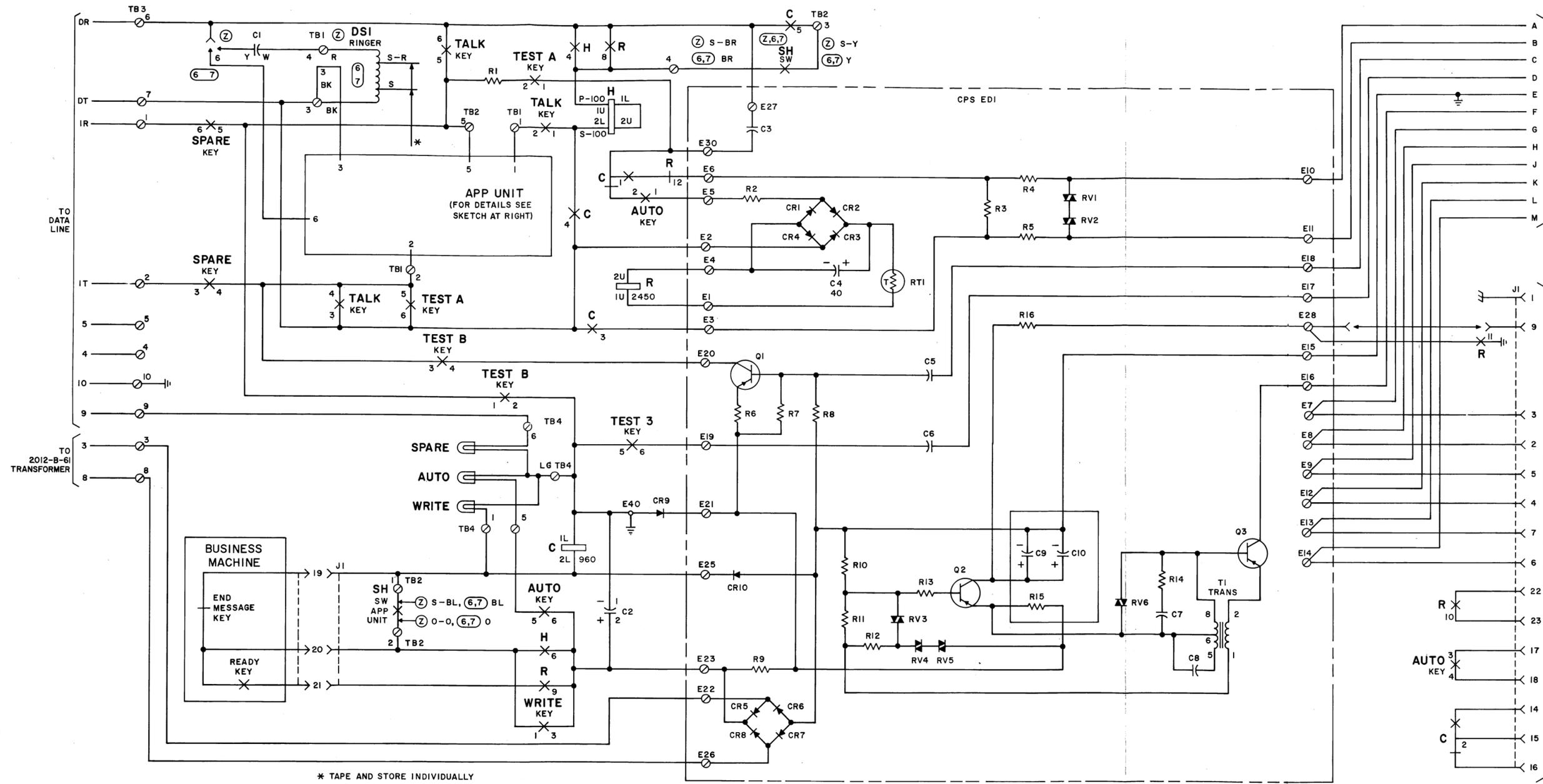
- (5) Remove the four printed circuit board mounting screws that secure the printed circuit board to the chassis and to the rear bracket assembly.
- (6) Remove the four rear bracket assembly mounting screws that secure the bracket to the chassis.
- (7) Remove the two hexagonal nuts that secure the filter to the chassis.
- (8) Carefully remove filter as shown in Fig. 7.

### **2.06 Filter Replacement:**

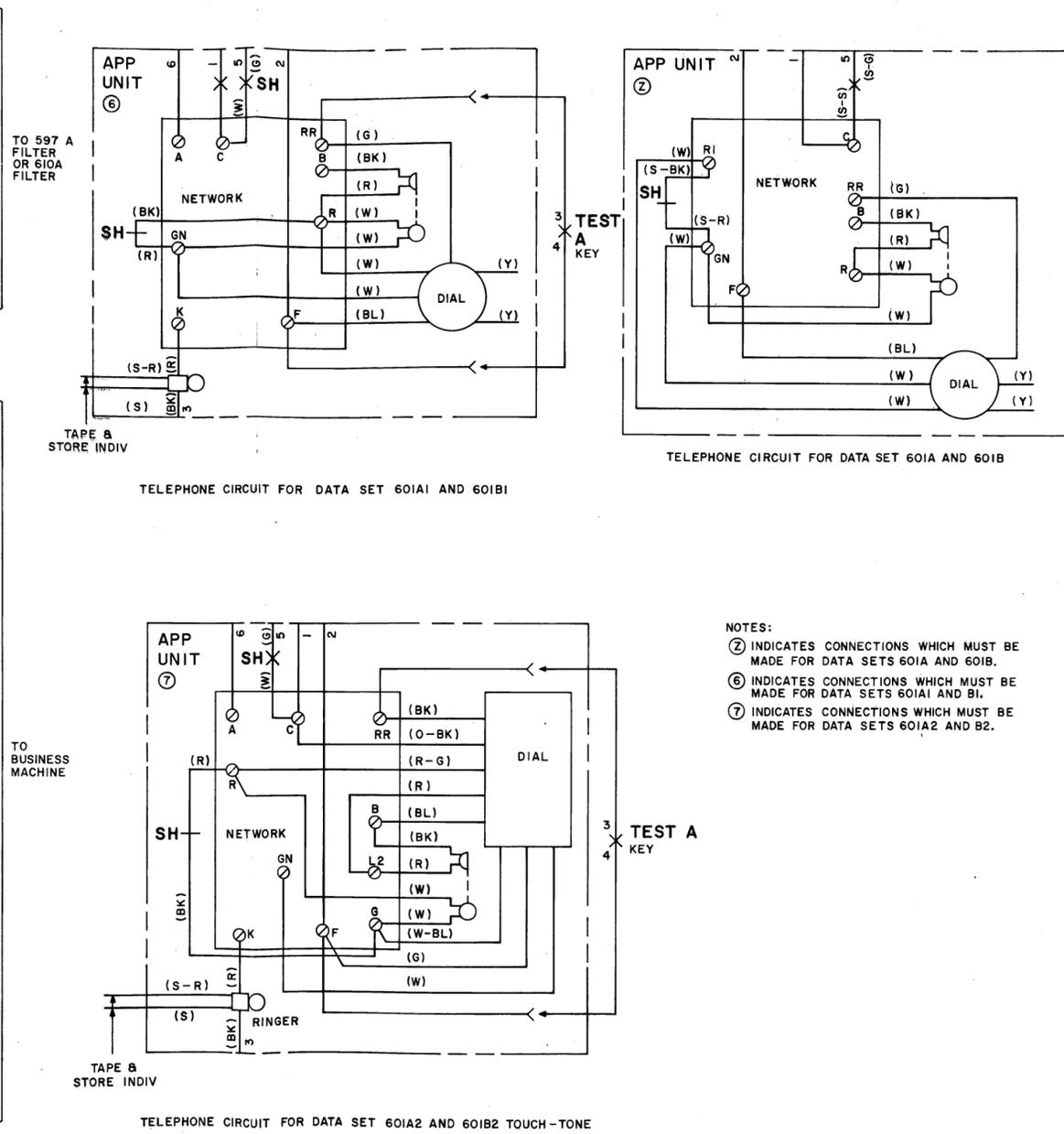
- (1) Place the filter mounting stud in filter mounting holes. Use the two hexagonal nuts to secure the filter.
- (2) Replace the four rear bracket assembly mounting screws.

- (3) Replace the printed circuit board mounting screws.
- (4) Replace the data set chassis and secure it in place with the four base mounting screws.
- (5) Connect the filter spade terminals to the printed circuit board terminal strip. See Fig. 5 and 6.
- (6) Replace the dial.

**2.07 Cover Replacement:** Replace covers by reversing the procedures shown in Fig. 3 and 4. Figures shown are of rotary dial data sets. The TOUCH-TONE data set covers are replaced the same way.



\* TAPE AND STORE INDIVIDUALLY



- NOTES:
- ② INDICATES CONNECTIONS WHICH MUST BE MADE FOR DATA SETS 601A AND 601B.
  - ⑥ INDICATES CONNECTIONS WHICH MUST BE MADE FOR DATA SETS 601A AND B1.
  - ⑦ INDICATES CONNECTIONS WHICH MUST BE MADE FOR DATA SETS 601A2 AND B2.

Fig. 1—Simplified Schematic of Data Set 601-Type

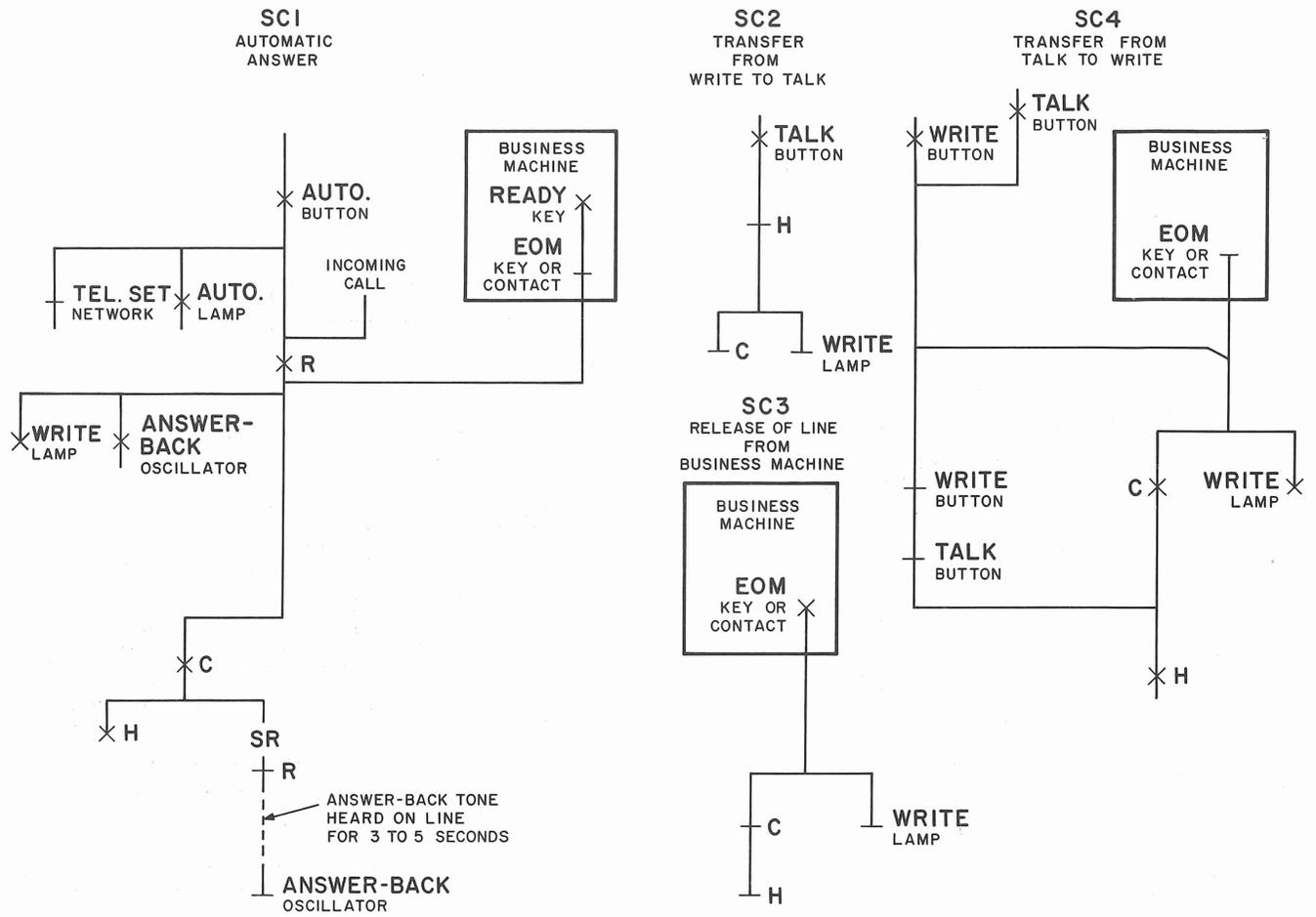


Fig. 2—Sequence Chart of Operation

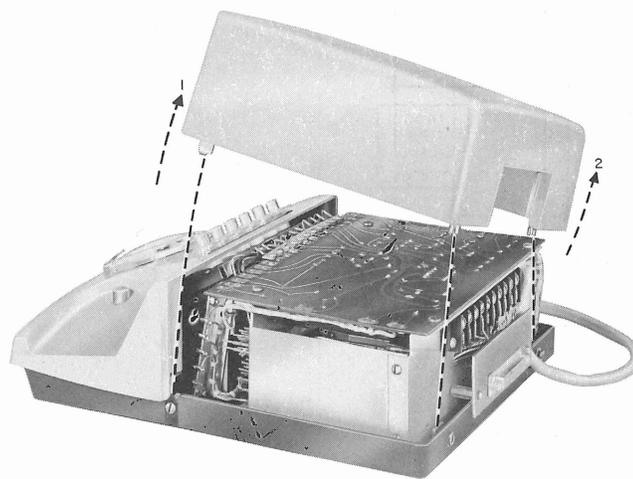


Fig. 3—Removal of Rear Cover

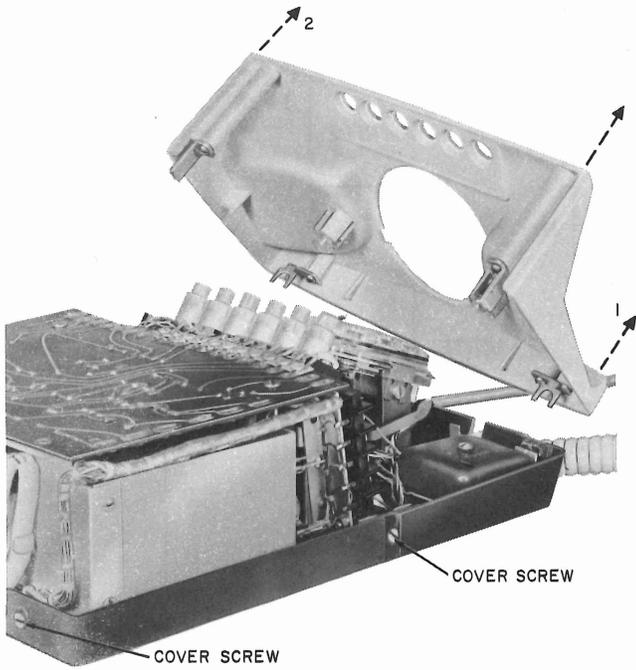


Fig. 4—Removal of Front Cover

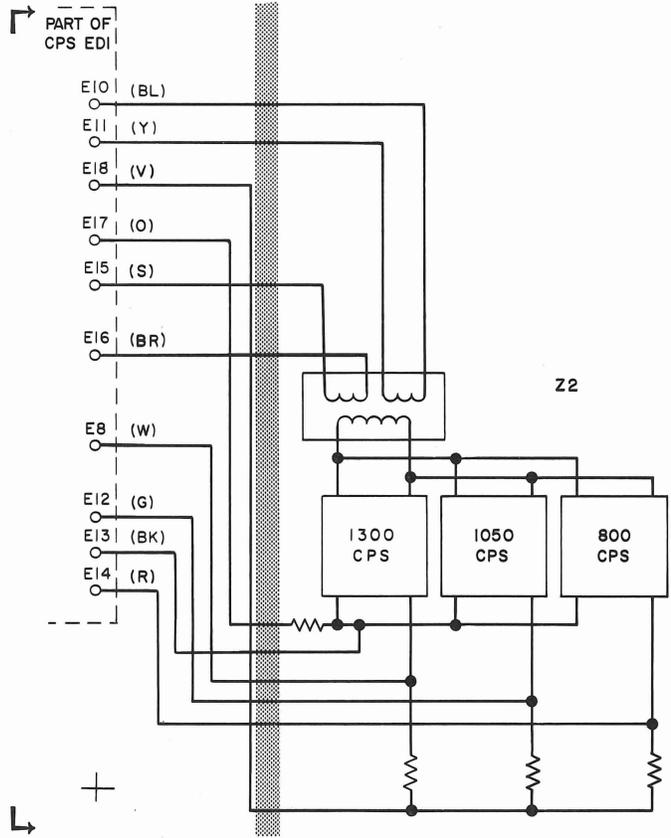


Fig. 6—610A Filter Connections

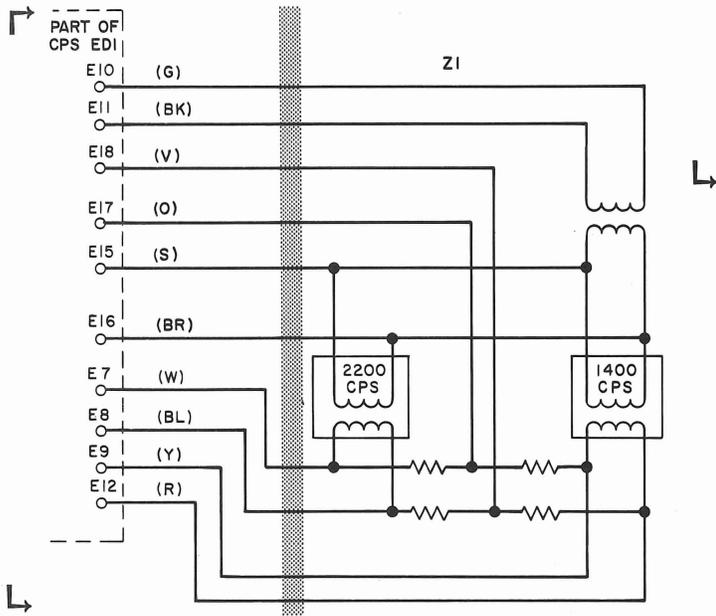


Fig. 5—597A Filter Connections

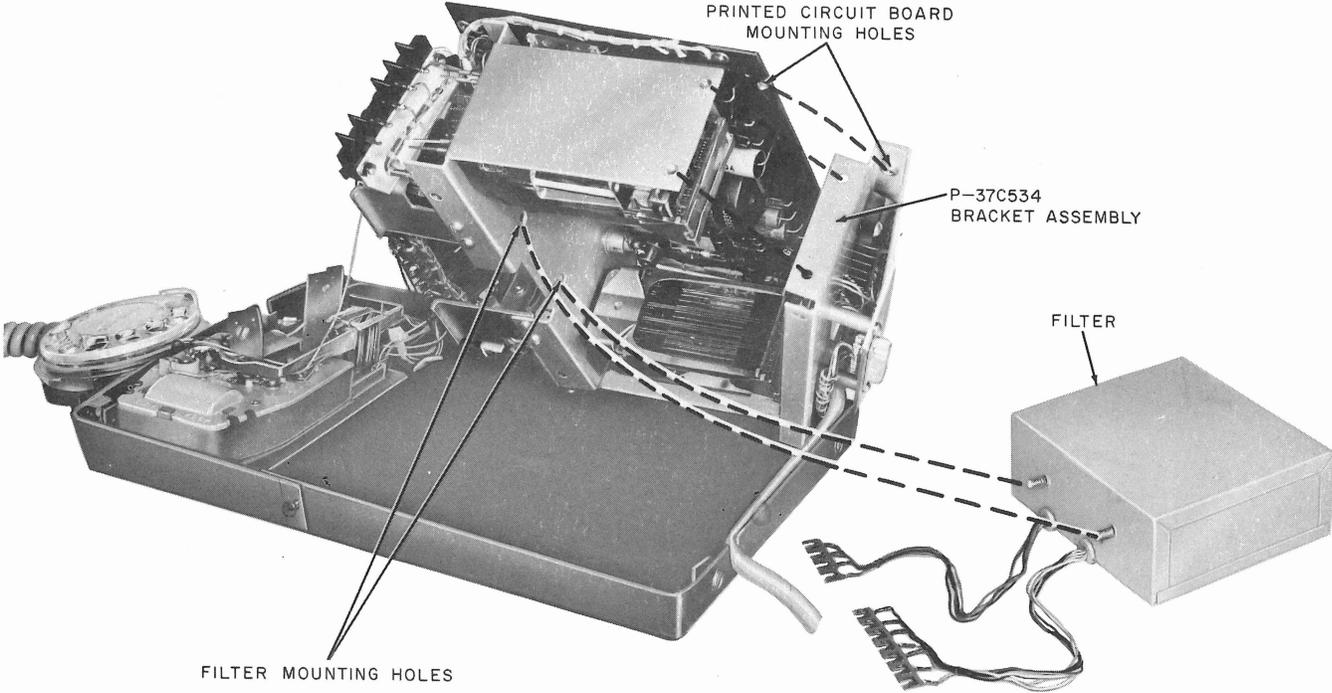


Fig. 7—Removal of Filter