

## 531C SUBSCRIBER SET MAINTENANCE

### 1. GENERAL

- 1.01 This section covers maintenance procedures for the 531C subscriber set.

### 2. MAINTENANCE

- 2.01 **Wiring:** Check both internal and external wiring for broken or loose connections.
- 2.02 **Relay:** If trouble is experienced in operation of the relay, the following items should be checked:
- (a) **Contacts:** Check for dirty or pitted contacts and proper contact follow.
  - (b) **Relay operation:** If the relay chatters or fails to operate it is an indication that the varistor may be open or shorted.
  - (c) **Alignment:** Check that the set is mounted in a vertical position, so that armature does not bind.
  - (d) **Replacement:** If trouble in the relay is not cleared by the above procedures, replace the set.
- 2.03 **Varistor:** If varistor is found to be open or shorted, replace entire set.
- 2.04 **Vacuum Tube:** If trouble in the vacuum tube is indicated by relay failure, short-circuit the yellow and black tube leads and note if relay operates when ringing voltage of the correct polarity is applied. If relay operates under this test the vacuum tube is defective and should be replaced. In sets of earlier manufacture, containing 372A vacuum tubes, the 426A tube may be used as replacement. The 426A tube may be mounted by using a round-head machine screw (P-210810) in the tapped hole located in the base of the set. (See Fig. 1.) When sets of earlier manufacture are returned to Western Electric Company shops, the bracket for mounting 372A tubes (P-479173) will be replaced with the bracket for mounting 426A tubes (P-13A283).

### 2.05 Piece Parts:

| Item   | Part No. |
|--|----------|
| Thermoplastic Cover .....                              | P-372112 |
| Machine Screw (for mounting tube in base of set) ..... | P-210810 |
| Lock Washer (used with above screw) ....               | P-387666 |

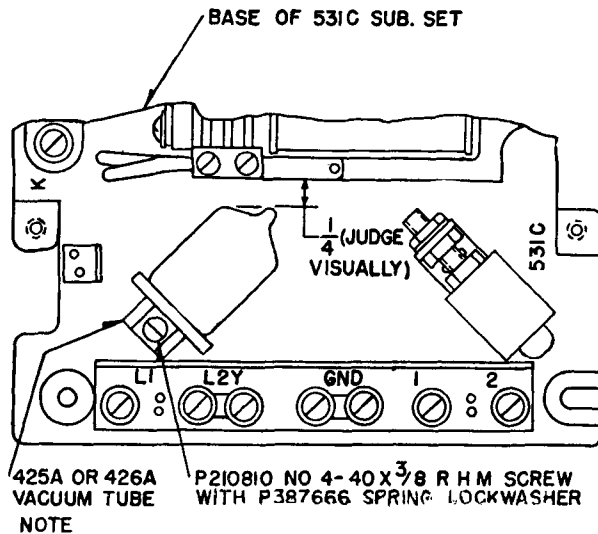


FIG 1