

## COIN COLLECTORS

### POSTPAY — MAINTENANCE

#### 1.00 INTRODUCTION

This section covers specific items of maintenance required for postpay coin collectors. These items are in addition to appropriate items covered in the section entitled Coin Collectors, Maintenance, General. This section is reissued to:

- Change information in 3.00.
- Add Fig. 2.

#### 2.00 GENERAL

*Caution: Remove receiver or handset from switchhook before removing or reassembling upper housing from or to backplate of coin collector equipped for 10-cent operation. This reduces possibility of damage to gate operating arm.*

#### 3.00 TOOLS, GAUGES, AND MATERIAL

A 529A tool is required for retaining coins used in final tests. This is in addition to tools, gauges, and material required for general maintenance.

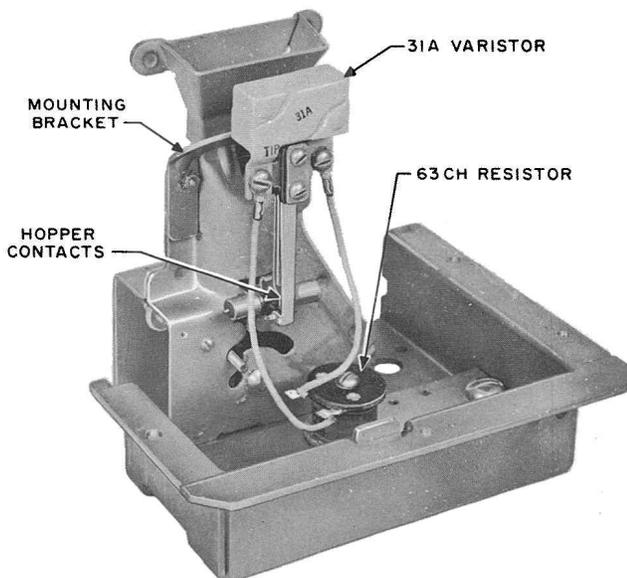


Fig. 1 — Older Mechanism Unit Assembly

#### 4.00 DIAL POSTPAY COIN COLLECTORS (CDO)

4.01 If a coin is found stuck between trap and hopper, release coin and proceed with tests and adjustments. If repeated troubles due to stuck coins are experienced, coin collector shall be replaced.

##### Mechanism Unit Assembly

4.02 Trap shall restore freely to normal position when released slowly from fully open position. If it does not, coin collector shall be replaced.

4.03 With trap in normal position, hopper contacts shall be made. With trap in fully operated position, hopper contacts shall be open.

4.04 On the older mechanism unit assembly, the 31A varistor and 63CH resistor are mounted as shown in Fig. 1.

4.05 On the current mechanism unit assembly, 31A varistor and 146A resistor are mounted as shown in Fig. 2.

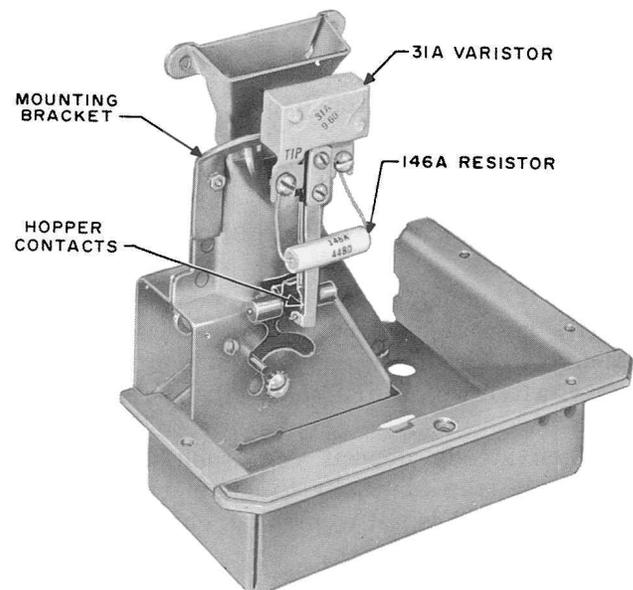


Fig. 2 — Current Mechanism Unit Assembly

**4.06** The contact spring terminal, to which the 31A varistor terminal marked TIP (+) is connected, is always wired so as to be on tip side of line.

**Hopper Contact Operation**

**4.07** With upper housing removed and with handset or receiver off switchhook, connect hand test set across line in series with hopper contacts as follows:

- At common battery stations connect hand test set between hopper contact spring terminal which is connected to Y housing contact spring and terminal R on transfer spring pile up or on wood terminal strip.
- At local battery stations connect hand test set between hopper contact spring terminal which is connected to Y housing contact spring, and terminal BK (or BKX when used) on transfer spring pile-up or on wood terminal strip.

**4.08** Dial a local number (not a free call line). If steady deposit coin tone is heard, proceed as in 4.09. If deposit coin tone is heard only momentarily, followed by a short delay and then regular dial tone, check that hopper contacts are properly closed.

- If contacts touch but do not make, burnish with 265C tool.
- If contacts do not touch, coin collector shall be replaced.

If no fault is found in hopper contact circuit, trouble may be in central office equipment.

*Note:* If hopper contacts are open with trap in its normal position, central office equipment will disconnect on calls to nonfree call lines, after which dial tone will be received.

**4.09** When steady deposit coin tone is heard, operate trap manually to complete connection. If connection is not completed, check for the following:

- Reversed or defective 31A varistor.

- Line reversed.
- Open resistor (63CH or 146A).

If no fault is found at station, trouble may be in line or central office equipment.

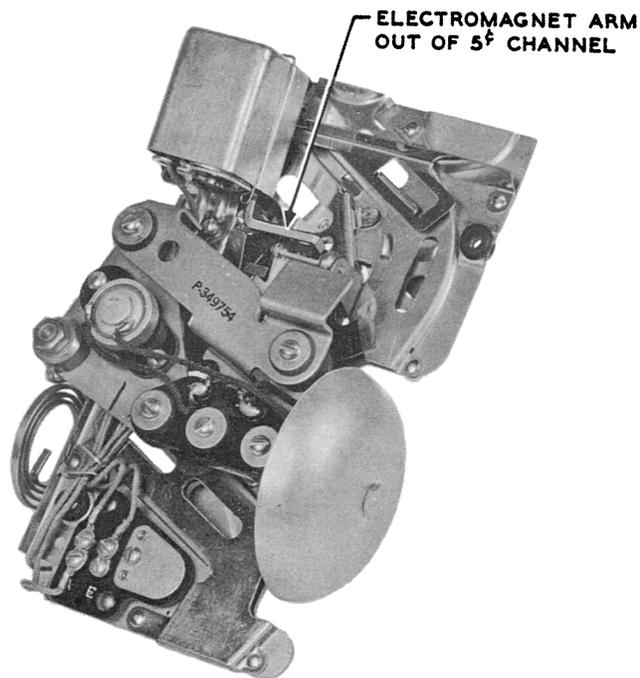
*Note:* Completion of circuit by manual operation of trap may require several attempts because of critical adjustment of central office equipment. Trap must be fully operated and quickly released. If trap is not fully operated, circuit may not cut through. If trap is not released quickly, central office equipment may disconnect, necessitating redialing.

**Varistor Effectiveness**

**4.10** In operating trap manually on a local call (4.09), a click will be heard in receiver. If click is as loud on a call to operator as it is on a local call, 31A varistor is defective and shall be replaced.

**Coin Chute Operation and Refund Tests**

**4.11** Position electromagnet arm so that end is out of 5¢ channel (see Fig. 3). Insert 529A tool in top of coin hopper to retain test coins.



**Fig. 3 — Dial Postpay Coin Chute**

**4.12** With upper housing locked in place and with receiver or handset *on switchhook*, deposit a nickel. Coin shall drop into coin return. Test shall be made five times and nickel shall return each time.

**4.13** With receiver or handset *off switchhook*, dial operator. When operator answers, deposit a nickel. Coin shall pass through chute, striking gong, and shall reach 529A tool in hopper.

- If test is met, electromagnet and line wires are connected correctly.
- If nickel falls into coin return, check switchhook operation and gate operating arm adjustment.
- If nickel does not pass through chute as indicated by not striking gong, deposit another nickel. If both coins pass through chute and strike gong, it indicates that first nickel stopped in chute at first latch. Check operation and wiring of electromagnet in accordance with connection diagram in appropriate section. If nickel still fails to reach 529A tool, replace coin chute and repeat tests.

**Note:** When dial tone is received, electromagnet arm is positioned in 5-cent channel. On calls to or through an operator, electromagnet arm remains in 5-cent channel. This allows a single nickel to pass through coin chute.

**4.14** If test in 4.13 is met, request operator to call back as in a delayed call. Answer call and repeat test with a nickel. Have operator make this test over local and toll connectors if both are available. If test in 4.13 is met but test over local and toll connectors is not met, trouble may be in line or central office equipment.

#### **Coin Signal Test**

**4.15** Use a 529A tool. Call operator and inform her that you are about to test coin signals. Deposit a nickel, dime, and quarter. If operator does not identify signals correctly, inspect for trouble at station and correct as specified under coin chute alignment in the section entitled Coin Collectors, Maintenance, General.

### **5.00 MANUAL POSTPAY COIN COLLECTORS**

#### **Coin Hopper**

**5.01** The coin hopper in these coin collectors is a simple channel to guide coins from coin chute to coin receptacle. Only coins returned in this service are improper deposits. If sticking of coins occurs in coin hoppers not provided with clear-out holes, coin collector shall be replaced.

#### **Coin Signal Test**

**5.02** Make test as in 4.15.