

## COIN COLLECTORS

### QSD3A (SEMI-POSTPAY) SERIES

#### 1. GENERAL

1.01 This procedure contains identification and assembly of parts, installation, maintenance and connections for the QSD3A Coin Collectors.

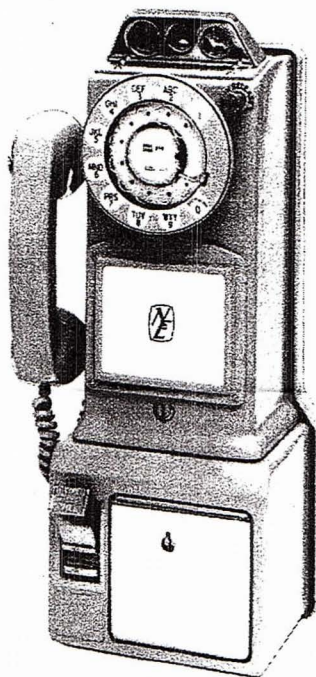


Fig. 1 - QSD3A Coin Collector

1.02 The QSD3A Coin Collector is intended for use on circuits which provide for battery reversal upon a called party answering. A reed relay is utilized within the set to provide control of the transmitter and receiver circuits. The reed relay renders the transmitter inoperative and reduces the efficiency of the receiver upon battery reversal occurring. Deposit of the minimum fee causes the relay to return the transmission and reception to normal.

1.03 An NE-685A subscriber set is required for this coin collector. This subscriber set provides the transmission network and ringer.

#### 2. IDENTIFICATION

2.01 The QSD3A Coin Collector is identical in construction to the 200 series Coin Collector as shown in NEP 2032Q-100, consisting of a steel lower housing mounted on an aluminum backplate and a steel upper housing which locks in place on backplate and lower housing. The lower housing includes a cash compartment equipped with a forged steel door, lock and coin return chute.

2.02 Component parts are assembled on the backplate and lower housing and either

on or in the upper housing. Circuit connections between removable upper housing and backplate are made with spur type contacts on upper housing and transfer springs on the backplate.

2.03 The encapsulated reed relay is mounted on the mechanism base (See Fig. 2) adjacent to the coin hopper and switch assembly.

### 3. INSTALLATION

3.01 Installation procedures as specified in NEP 2032Q-200 should be followed.

### 4. MAINTENANCE

4.01 Maintenance procedures as specified in NEP 2032Q-500 should be followed where applicable

### 5. FINAL TESTS

5.01 Trap (see Fig. 2) shall restore freely to normal position when released slowly from fully open position.

5.02 With the trap arm held against the top surface of the hopper opening there

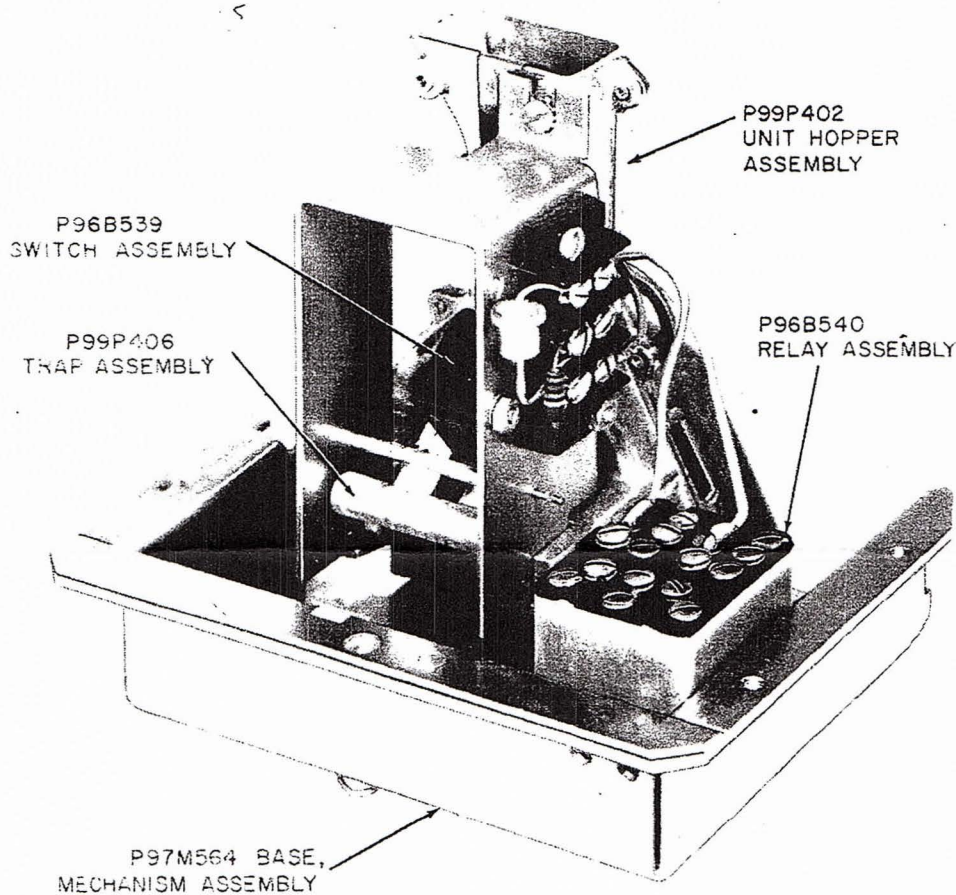


Fig. 2 - P97M563 Unit Mechanism Assembly



should be a minimum of 0.030 inch between the switch operating arm and the underside of the trap arm.

5.03 With handset off switchhook, deposit nickel. Nickel shall be held at holding latch. Lower switchhook slowly; coin shall drop into coin return. Make Test five times.

5.04 With handset off switchhook, deposit nickel. Nickel shall be held at holding latch. Operate pushbutton slowly; nickel shall be released by gate and drop into coin return. Make test five times.

NOTE: Tests 5.03 and 5.04 require either tip or ring line disconnecting in order to perform test.

5.05 With upper housing locked in place and switchhook up, dial tone should be heard.

5.06 Dial some known number (other than operator). After the called party answers, ensure that you can not be heard by the called party. Deposit a nickel. Nickel shall be held at holding latch. Deposit second nickel. Second nickel shall release first nickel and permit both coins to pass through coin chute, strike gong and cause the coin switch to operate as the coins pass through the hopper. An increase in reception volume shall be noted and conversation with the called party shall be possible.

5.07 Whilst the called party (as per 5.06) is on the line rotate the dial fully and then allow it to run back. After the dial

runs back normal conversation shall still be possible with the called party.

#### Coin Signal Test

5.08 Notify operator that tests for gong signals are about to be made. Deposit single nickel, dime and quarter. If operator does not identify signals correctly, inspect station for trouble. Correct as specified under Coin Chute Alignment in NEP 2032Q-500 on maintenance of coin collectors.

#### 6. CONNECTIONS

Fig. 3 shows connections for the QSD3A Coin Collector.

#### NOTES

1. When an NE-61R filter is required for radio frequency suppression, move yellow dial lead from Y upper housing contact spring to filter bracket terminal and connect filter leads as follows:

Yellow lead to filter bracket terminal.

Red lead to Y upper housing contact.

Black lead to BK upper housing contact.

2. Where necessary tip and ring line terminations may be made directly to the coin collector.

3. To prepare the NE-685A subset for use with the QSD3A coin collector make wiring changes as follows:

Remove blue strap between RR of network and L1 of terminal block.

Move slate-brown strap from 2 to L2 on terminal block.



Fig. 3 - Circuit Diagram for Connecting QSD3A Coin Collector to NE-685A Network Type Subset