1. GENERAL

1.01 This section covers the installation and testing of Dial Tone First and Automatic Nickel Local Overtime Features.

1.02 Information in this section was previously contained in Section 506-110-110 which is hereby canceled.

1.03 This section provides instructions for installing a D-180352 Kit (Fig. 1) which is an electromagnet replacement for the P-349747 electromagnet on P-20A125 through P-20A130 and P-340222 coin chute and gong assemblies. Modification information is also included for the 1200-type coin collectors.

1.04 Test A—Dial Tone First: This test verifies proper operation of the coin collector after central office and station set conversion has been completed.

1.05 Test B—Automatic Nickel Local Overtime: This test verifies proper operation of the automatic nickel local overtime feature (where provided) upon completion of the dial tone first modification.

1.06 All Plant Series sections for the 190-, 200-, and 1200-type coin collectors apply unless otherwise specified in this section.

2. APPARATUS

2.01 The following apparatus is used in this modification procedure:

(a) 446K diode

(b) 131A gauge or equivalent

(c) D-180352 Kit of Parts (required only with automatic nickel local overtime feature).

3. MODIFICATION

DIAL TONE FIRST

3.01 Open the set to obtain access to coin chute and gong assembly.

3.02 Remove the dial shorting feature from the following sets as directed:

(a) 191, 195, 196, 197 GT/GNT and 200 series coin collectors (except 235-type) — Disconnect, tape, and store the slate lead from terminal 1 of coin relay.

(b) 191, 195, 196, 197 GT/GS coin collectors — Disconnect, tape, and store the lead from terminal X on the backplate assembly.

(c) 191, 195, 196, and 197 GNS coin collectors — Disconnect, tape, and store the lead from terminal BKX on backplate assembly.

(d) For 1234G coin collectors — Disconnect, tape, and store the yellow lead from terminal 1 of coin relay.

(e) 235G and 1235G coin collectors — Disconnect, tape, and store the red lead from terminal 1 of coin relay.

Note: 191, 195, 196, and 197 G/GN sets do not require the modification covered in 3.02.

3.03 Install 446K diode between terminals A and E on coin chute terminal board (Fig. 2 and 3).

Caution: The polarity of the diode must be as shown in Fig. 3. Diode can be damaged if leads are stressed near the case. Leads should be supported close to the case during lead forming and installation to prevent damage.
AUTOMATIC NICKEL LOCAL OVERTIME FEATURE

3.04 If automatic nickel local overtime feature is provided:

(a) On P-20A125 through P-20A130 and P-340222 coin chute and gong assemblies, disconnect leads from terminals A and E and remove P-349747 electromagnet (Fig. 4).

(b) On P-340222 assembly, it will be necessary to remove P-347212 shield (Fig. 4) as follows:

1. Bend the tab outward on the left side of the shield.

2. Break the right side of the shield away from rivet by bending the shield in a repeated upward and downward motion.

(c) Install D-180352 Kit (Fig. 1 and 5) on the coin chute and gong assembly in the same position in which the electromagnet was located. Secure with existing hardware.

(d) Connect the leads to terminals A and E.

(e) After installing the kit, the following requirements must be met:

1. With the armature in the normal position (unoperated), the clearance between the lever and locking latch tab shall be .020 minimum and .060 maximum (Fig. 6). The locking latch tab is adjusted by bending only the top portion of the latch to meet this gap requirement.

2. With the coin chute mounted in the normal position and the armature fully operated, the locking latch tab shall clear the holding latch tab by .060 minimum (Fig. 7).
### 4. TESTS

#### 4.01 Method

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Dial Tone First</td>
<td>Lift handset.</td>
<td>Dial tone is present.</td>
</tr>
<tr>
<td>1</td>
<td>Deposit nickel.</td>
<td>Nickel does not return (See Note 1).</td>
</tr>
<tr>
<td>2</td>
<td>Slowly operate coin release.</td>
<td>Nickel drops into return chute.</td>
</tr>
<tr>
<td>3</td>
<td>Deposit nickel, depress switchhook.</td>
<td>Nickel returned.</td>
</tr>
</tbody>
</table>

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**Fig. 4**—Coin Chute and Gong Assembly Before Modification

**Fig. 5**—Coin Chute and Gong Assembly—After Modification
**ACTION**

5. Release switchhook and dial any digit except "0" or "1".

6. Depress and release switchhook, deposit 2 nickels, 1 dime, and 1 quarter.

7. Dial test line code. (See Note 3.)

8. Hang up handset.

9. Call operator, deposit nickel, dime and quarter.

10. Request operator to return coins.

11. Request operator to call back. (Hang up handset)

12. Lift handset, listen for dial tone and dial number that requires initial rate deposit. (Do not deposit coin.)

**VERIFICATION**

Dial tone breaks (See Note 2).

Coins pass through chute, strike bells and gong and are held at coin relay.

Audible ringing heard in handset.

Coins return.

Coins identified by operator.

Coins returned.

Ringer operates at maximum volume.

Recorded announcement is heard (insufficient deposit).

**B. Automatic Nickel Local Overtime**

1. Lift handset and deposit nickel.

2. Dial operator.

3. Replace handset.

**Note 1:** Failure to verify Step 2 (Test A) and Step 1 (Test B)—446K diode is reversed or defective.

**Note 2:** Failure to verify Step 4 (Test A)—lead on terminal 1 on coin relay is not insulated and stored or defective dial.

**Note 3:** The test line code should be a number that requires deposit for connection and a number that will not be answered, otherwise the coins will be collected.

**Note 4:** Failure to verify Step 2 (Test B)—defective chute or electromagnet.
Fig. 6—Clearance Between "D" Kit Lever and Locking Latch Tab

Fig. 7—Clearance Between Locking Latch Tab and Holding Latch Tab