

55, 155, 166 AND 191 TYPE COIN COLLECTORS
MULTI-SLOT, PREPAYMENT TESTS AND ADJUSTMENTS

SEE ADDENDUM

1. GENERAL

- 1.01 This section provides maintenance procedures for 55, 155, 166 and 191 type coin collectors converted from 50, 150, 161, and 181 type coin collectors equipped with stainless steel coin chutes which are provided with cut-over clips P-339881.
- 1.02 It is intended to be used in conjunction with Section C64.223 and Section C42.129.
- 1.03 The procedures and requirements in this section replace paragraphs 3.04, 3.05 and 3.06 and supplement paragraph 7.01 of Section C42.129.

2. TESTS

TESTS FOR 5¢ INITIAL CALLING RATE

SEE ADDENDUM

- 2.01 The following tests shall be made by installers and repairmen to determine that the coin chute mechanism is in proper operating condition.
- 2.02 With the upper housing locked in place on the coin collector and with handset or receiver on switchhook, deposit a nickel. The coin should drop into the "Coin Return". Repeat test five times and nickel shall be returned each time.
- 2.03 With upper housing locked in place on the coin collector and with handset or receiver off switchhook, deposit nickel. Dial tone should be heard in receiver at dial stations or operator should answer at manual stations.
- 2.04 At dial stations, when dial tone is heard, hang up handset or receiver. Coin should drop into "Coin Return" on hang up. At manual stations, when operator answers, request that coin be refunded.

- 2.05 With upper housing locked in place on the coin collector and with handset or receiver on switchhook, deposit quarter. Quarter should stop in chute (stopped by open gate) and no gong tone should be heard. Lift handset or receiver off switchhook, quarter should be released and should strike the gong. Dial tone should be heard in receiver or operator should answer.
- 2.06 With upper housing locked in place on the coin collector and with handset or receiver off switchhook, deposit dime. Bell should be struck twice. If dime is deposited before the quarter or separately, dial tone should be heard in receiver or operator should answer.
- 2.07 At dial stations when dial tone is heard, hang up handset or receiver. Coins should drop into "Coin Return" on hang-up. At manual stations when operator answers, request that coins be returned.

TESTS FOR 10¢ INITIAL CALLING RATE SEE ADDENDUM

- 2.08 Unless otherwise directed by local supervision, when a 191G or a newly converted coin collector is installed, or substituted for maintenance reasons, it will be necessary for the installer to test the 10¢ initial calling rate feature. This shall be done as outlined in the following paragraphs.
- 2.09 Remove the cutover clip, P339881, and with the upper housing locked in place and with the handset or receiver on the switchhook, deposit a nickel. The coin should drop into the "Coin Return". Repeat the test five times. The coin should be rejected each time.
- 2.10 With the upper housing locked in place and with the handset or receiver off the switchhook, deposit a nickel. The nickel should stop in the chute and no gong tone should be heard. Drop another nickel in the chute. Both coins should drop into the hopper striking the gong and dial tone should be heard or, in manual areas, the operator should answer.
- 2:11 Upon hearing dial tone or when the operator answers, drop a third nickel into the chute. The nickel should drop into the hopper striking the gong. Hang up the handset or receiver and the coins should be returned or, ask the operator to return the coins.
- 2.12 Restore the cutover clip, being careful that it is not mutilated or out of adjustment and is in the proper position to hold the solenoid arm securely without projecting into the coin runway.

3. CLEARING TROUBLES

- 3.01 If the nickel is not returned, when deposited with handset or receiver on switchhook in accordance with 2.02, or 2.09, remove upper housing and look for coin.
- (a) If nickel is stuck in the return path in the upper housing remove the coin and repeat the tests in 2.02 or 2.09. If the nickel sticks in the return path in the upper housing on the repeat tests replace the upper housing and repeat all tests.
- (b) If the nickel is stuck in the return path in the lower housing, clear obstruction in accordance with Section C42.129 and repeat the tests in 2.02 or 2.09.
- (c) If the nickel is on the trap, around the relay or stuck on quarter runway return or remove coin. Then manually hold in the gate lever roller (see Fig. 1) on chute as far as it will go, with upper housing vertical, and deposit nickel. Make test five times. If the nickel is not ejected from the chute through the open gate each time, or sticks in the chute anytime, replace the coin chute. If the nickel is ejected through gate and does not stick in chute, adjust the gate operating arm (see Fig. 2) on the switchhook downward approximately 1/16" with the aid of long nose pliers. Check that guide bracket P-347660 is in place as shown on Figure 1. Lock upper housing in place on coin collector and observe that switchhook comes to a full stop downward due to weight of handset or receiver when placed on switchhook. Repeat the tests in 2.02. If it fails repeat the above adjustment and tests.
- (d) If the gate operating arm has become badly distorted so that it cannot be adjusted to meet requirements, replace the switchhook arm assembly (P-347208). Check operation of switchhook contact springs in accordance with paragraph 2.01 of Section C42.129. If switchhook does not come to a positive stop, upward or downward, the gate operating arm, or contact spring operating end of switchhook arm, or both, will require adjustment in accordance with Part 7 of this section.
- 3.02 If the nickel drops into the coin return, when nickel is deposited with handset or receiver off switchhook in accordance with 2.03, remove the upper housing, hold it vertical and deposit a nickel.
- (a) If the chute rejects the nickel through the reject opening replace the coin chute and repeat all tests.

(b) If the coin is not rejected by the chute, adjust the gate operating arm on the switchhook upward approximately 1/16". Lock upper housing in place on coin collector and repeat the nickel test in 2.03. Arm shall not be adjusted upward, such that it hits the induction coil, if present, when handset or receiver is off hook or such that it fails to eject the nickel into the return chute with handset or receiver on the hook. Conductors should not interfere with the operation of the gate operating arm, or operation of switchhook.

3.03 At dial stations if dial tone is not heard, and at manual stations if operator does not answer, when nickel is deposited with handset or receiver off switchhook in accordance with 2.03, remove upper housing and look for coin.

(a) If the nickel is stuck in the chute at the first gate, check that the cut-over clip is present and is not distorted. The cut-over clip should be of the type 3/8 inch wide, should be located against the left hand gate bearing lug as shown in Figure 1, and should firmly hold the arm which extends from electromagnet armature toward the back of the coin chute, with the bent-over tab on the arm extending into the coin chute. If necessary adjust or replace cut-over clip and repeat test in 2.03. If this does not correct the sticking, replace the coin chute and repeat all tests.

(b) If the nickel is stuck in the chute, replace chute and repeat all tests.

(c) If nickel is on coin trap, refund coin by manually operating relay and look for cause at station such as open line, open ground, etc., in accordance with Section C42.129. If station appears satisfactory have test desk arrange to cover central office for possible trouble condition. Repeat test in 2.03.

3.04 When coin is not refunded on hang-up in accordance with 2.04, remove upper housing and look for coin.

(a) If coin remains on trap, refund coins by manually operating relay and make station tests for relay failure, open ground, etc., in accordance with C42.129. If station appears satisfactory refer to test desk for possible trouble conditions at central office. Repeat test in 2.04.

(b) If coin is stuck in return, remove obstruction or clear trouble in accordance with C42.129 and repeat test in 2.04.

- 3.05 If either the dime or the quarter drop into "Coin Return" with handset or receiver off hook on tests in accordance with 2.05 or 2.06, replace coin chute and repeat all tests.
- 3.06 If coins are not returned on hang-up or are not refunded by operator in accordance with 2.07, remove upper housing and look for coin or coins.
- (a) If either coin is stuck in chute, replace chute and repeat all tests.
- (b) If either coin is stuck in return or in hopper clear trouble in accordance with C42.129 and repeat tests in 2.07.

4. COINS FOUND STUCK OTHER THAN IN CHUTE

- 4.01 If the coins are stuck in locations other than covered in Part 3, clear by following the procedures given in C42.129.

5. CLEANING

- 5.01 Replace coin chutes that are dirty. Do not attempt to clean coin chutes.

6. CHUTE REPLACEMENT

- 6.01 To replace stainless steel coin chute proceed as follows:-
- (a) Disconnect leads to the A and E terminals.
- (b) If filter is present, remove filter mounting screw.
- (c) Remove coin chute and install new chute P-389526. Reassemble filter, if present.
- (d) Reconnect coin chute in accordance with connection diagram in Section C64.241 and dress cording as in Figure 1 of this section.

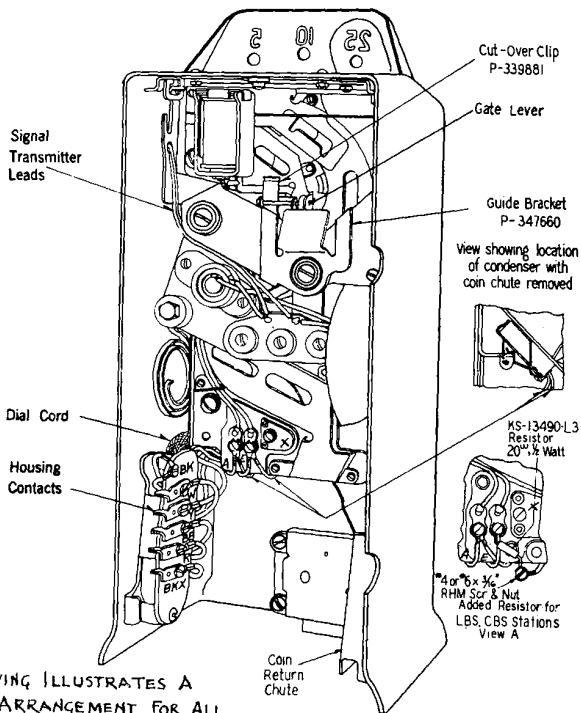
7. SWITCHHOOK OPERATION

- 7.01 With reference to paragraph 7.01 of C42.129:
- (a) If the switchhook does not come to a positive stop upward when the receiver or handset is removed, remove upper

housing and check that the gate operating arm on the switchhook does not touch induction coil. Arrangement of conductors should be such as not to interfere with operation of gate operating arm, switchhook shaft, or switchhook arm. Adjust either or both arms as required.

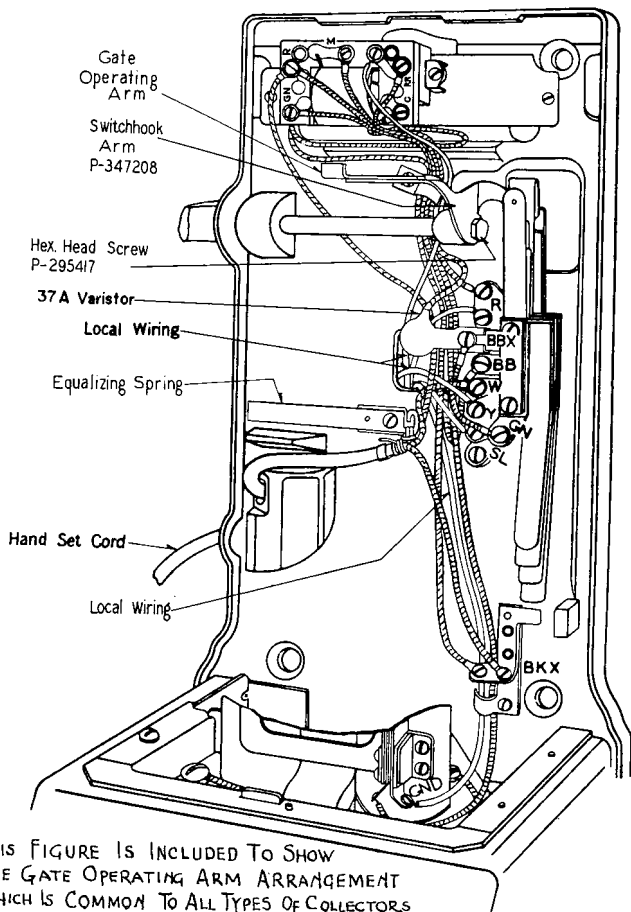
(b) If the switchhook does not come to a positive stop downward due to weight of the handset or receiver when placed on switchhook, remove upper housing and repeat the test. If it still does not come to a positive stop downward with upper housing removed, first try adjusting contact spring operating end of switchhook arm by bending. If this does not correct trouble then readjust switchhook contact springs in accordance with paragraph 7.01 of C42.129. When bending arm avoid distorting the mounting surface.

(c) If the switchhook comes to a positive stop downward with upper housing removed and does not when coin collector is assembled, remove upper housing and check operation of gate by operating gate lever, manually. If gate has a tendency of sticking, replace coin chute. If gate operates freely, further adjustment is required on spring operating end of switchhook arm, on gate operating arm of switchhook or switchhook contact springs.



THIS DRAWING ILLUSTRATES A
 TYPICAL ARRANGEMENT FOR ALL
 UPPER HOUSINGS

Fig.1
 191 Type
 UPPER HOUSING



THIS FIGURE IS INCLUDED TO SHOW
THE GATE OPERATING ARM ARRANGEMENT
WHICH IS COMMON TO ALL TYPES OF COLLECTORS

Fig. 2
191 Type

BELL SYSTEM PRACTICES
Station Installation
and Maintenance

ADDENDUM C42.138
ADDENDUM C64.227
Issue A, 2-16-50
N.Y.TEL.CO.(All Areas)

55,155,166 AND 191 TYPE COIN COLLECTORS
MULTI-SLOT, PREPAYMENT TESTS AND ADJUSTMENTS

This addendum modifies Section C42.138 - C64.227
Issue A as follows:

1. GENERAL

Paragraph 1.01 of the section is replaced by the
following paragraph:

1.01 This section provides maintenance procedures for coin
collectors, converted for ten cent operation, which
are equipped with stainless steel coin chutes and P-339881
cut-over clips.

2. TESTS

In order to insure that the P-339881 cut-over clip
will be in place after testing is completed, make the tests
for 10¢ initial calling rate first and the tests for 5¢
initial calling rate last.

ADDENDUM
C42.138
C64.227 CN. COL.
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1 Page AND ADJ.