

COIN COLLECTORS — MULTISLOT IDENTIFICATION AND SELECTION

1. GENERAL

1.01 This section is reissued to add information on the 235-, 236-, 1234-, and 1235-type coin collectors; and to add information formerly contained in Section 506-110-180, which is hereby cancelled. Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

2. IDENTIFICATION

2.01 The coin collector sets shown in Fig. 1 consist of a steel lower housing mounted on a cast iron or aluminum backplate and a steel upper housing which locks in place on the backplate and lower housing. The lower housing includes a cash compartment equipped with a steel door, lock, and coin return chute.

2.02 On early production coin collectors the component parts are assembled on the backplate and lower housing and either on or

in the upper housing. Circuit connections between the removable upper housing and the backplate assembly are made with spur-type contacts in the upper housing and transfer contact springs on the backplate assembly (Fig. 2 and 3).

2.03 Early coin collectors use a wood terminal strip for station wiring with separately mounted switch hook and transfer spring assemblies (Fig. 4) or a combined switch hook and transfer assembly (Fig. 5).

2.04 The anti-sidetone induction coil and related capacitor of the talking circuit are mounted on the backplate of the 180 and 190 series coin collectors (Fig. 5). Induction coil types prior to the 180 series and all network types prior to the 236-type use an externally mounted subscriber set for both talking and ringing functions.



Fig. 1 — Various Types of Coin Collectors

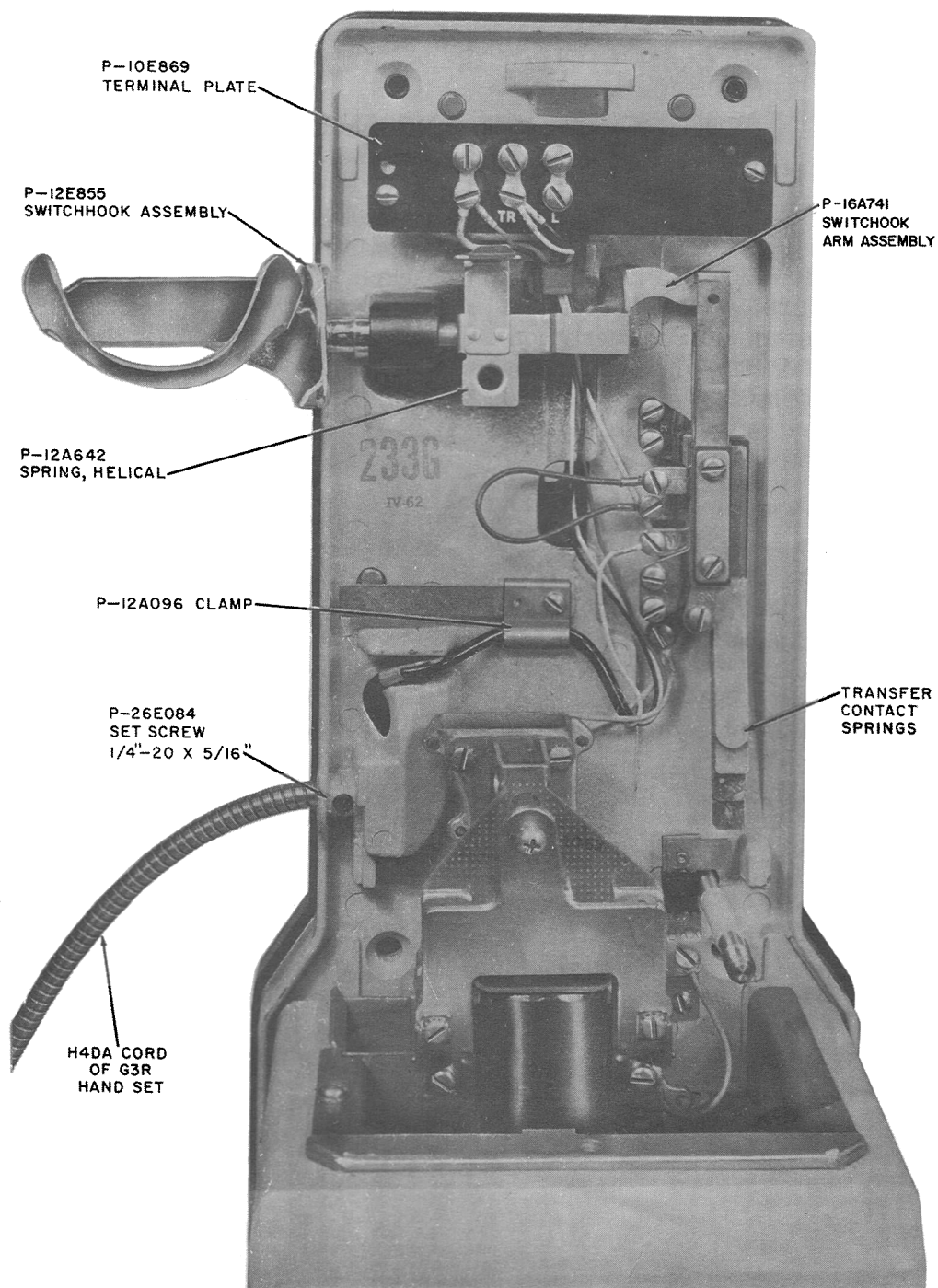


Fig. 2 — Typical Backplate Assembly

2.05 The assembly of the 236-type coin collector differs from earlier types primarily in that:

- (a) Both ringer and network are included within the structure of the coin collector (Fig. 6 and 7).
- (b) The upper housing is provided with a mounting hole for the KS-19277 lock.
- (c) The upper housing spur contacts and the transfer contact springs of the backplate assembly have been replaced with a plug and receptacle arrangement.
- (d) The tolerance of the gap between the upper housing and the backplate has been increased to 0.05 inch to facilitate interchangeability.



236G upper housings are interchangeable with earlier type upper housings only if the backplate assembly has been modified with the D-180010 Kit of Parts per Section 506-110-802. Early production upper housing assemblies may be modified in the distributing houses only. Backplate assemblies may be modified in the distributing houses or in the field. Upper housings that have been modified can be identified by a red star after the code number.

2.06 Components associated with each type coin collector are listed in the appropriate connection section.

2.07 The coin collector sets shown in Fig. 8 and 9 are panel types intended primarily for installation in:

KS-19206 Booth (Curved Door)

KS-19442 Booth (Slim Line)

KS-19406 Booth (Walk-Up — Drive-Up)

2.08 For additional information see Section 506-321-100.

3. FEATURES

3.01 Handsets and Cords:

- (a) The G1G and F1K handsets (MD), equipped with neoprene-jacketed armored cords, are replaced with the G3R and F1L handsets, respectively.
- (b) The G3R and F1L handsets are equipped with a PVC jacketed cord with an outer covering of stainless-steel flexible hose.
- (c) The transmitter and receiver caps are cemented to the handset handle. Since the handset components are sealed, field maintenance is restricted to replacement.
- (d) The G3R and F1L handsets are for use on all coin collectors to give additional handset protection against vandalism.
- (e) The G3R handset is available in color. The F1L handset is available in black only (see Table A).
- (f) All new coin collectors and all 200-type reissued coin collectors are equipped with the G3R handset.
- (g) See Section 506-110-102 for information on replacing G1G and F1K handsets with G3R and F1L handsets.

3.02 Coin Gauge and Washer Reject Mechanism:

The coin gauge is riveted to the upper housing and is not replaceable in the field. When provided, the washer rejector and associated coin-release pushbutton mechanism are also riveted or permanently attached to the upper housing and are an integral part of the assembly.

3.03 Dial and Adapter:

All new coin collectors are equipped with a 6-type rotary or a 25-type TOUCH-TONE dial. The assembly of a 6-type dial is shown in Fig. 10. The 63A adapter incorporates a coin deflector feature to prevent dropped coins from lodging behind the dial. The apparatus and parts associated with a 5-type dial are not interchangeable with those used with a 6-type dial. Replacement of dials and associated equipment is covered in Section 506-110-301.

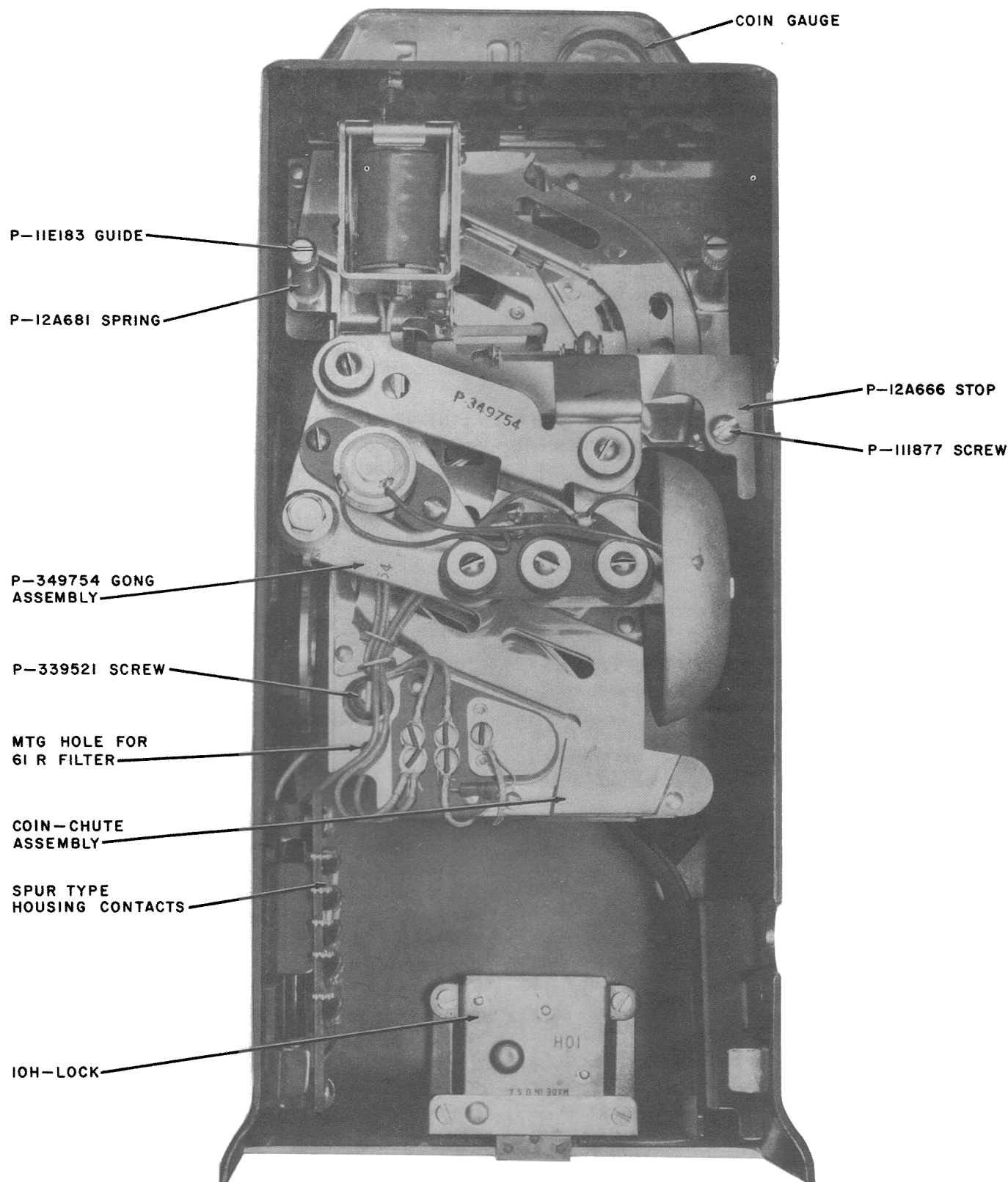


Fig. 3 — Upper Housing, Rear View

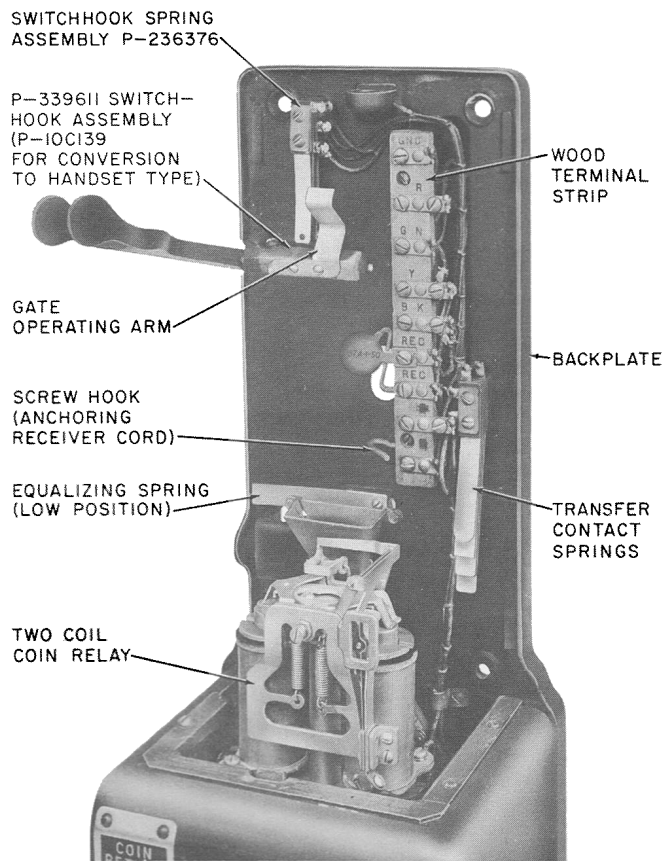


Fig. 4 — Earlier Type Coin Collector With Wood Terminal Strip

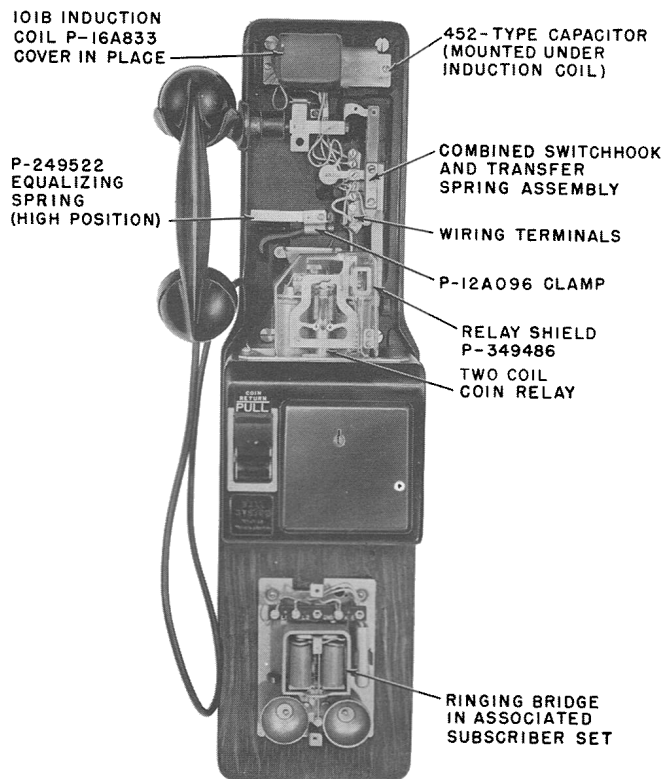


Fig. 5 — Combined Assembly — With Induction Coil and Capacitor

TABLE A

APPARATUS COLOR CODES

| APPARATUS | | BLACK (—3) | MOSS GREEN* (—51) | LIGHT BEIGE* (—60) | OXFORD GRAY (—52) |
|---------------|----------------|---------------|-------------------------|--------------------------|-------------------------|
| 233G | Coin Collector | • | • | • | |
| 234G | Coin Collector | • | | | |
| 235G 1235G | Handset Only | | | | • |
| 236G | | • | • | • | |

* Moss green and light beige coin collectors have clear plastic finger wheels on 6M-3 dials.

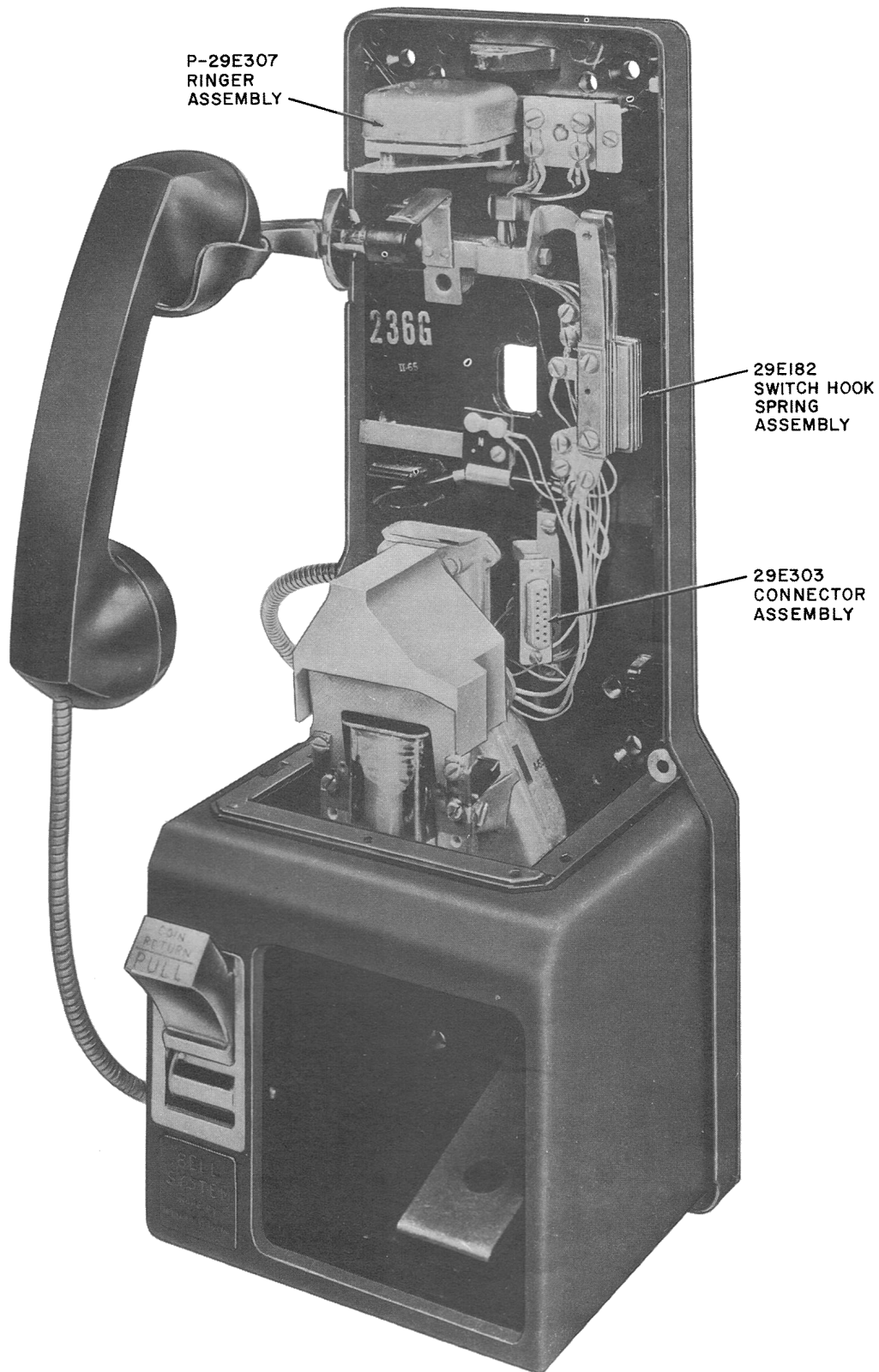


Fig. 6 — Backplate Assembly — 236-Type Coin Collector

3.04 Apparatus Blank:

- (a) The 50-type apparatus blank covers the dial cup on manual coin collectors (Fig. 1). Two P-222882 machine screws hold the apparatus blank in place when used as an instruction card holder on dial coin collectors (Fig. 11).
- (b) The chrome-plated 50K-44 apparatus blank replaces the 50L and 50K-3, -51, and -60 apparatus blanks.
- (c) The 8-type cardholders mount on top of the housing behind the coin gauge (Fig. 11). Three P-243217 slotless machine screws, P-92383 hex nuts, and P-423631 lock-washers hold the cardholder in place. The 8B-44 cardholder is chromeplated. It replaces the 8C, 8B-3, -51, and -60 cardholders and it may be used on all coin collectors except panel types.
- (d) Postpay coin collectors without coin-release pushbutton mechanisms may be equipped with a KS-8487, List 1 or List 2 coin gauge guard (Fig. 11). Coin gauge guards are designed to attract the attention of the customer to read the instructions before depositing coins. The device consists of a mounting bracket and a transparent hinged guard with the word READ and a vertical red arrow. The guard must be raised before depositing coins.

3.05 Coin Chute Assembly:

- (a) Coin chutes or coin assemblies are mounted inside the upper housing. Assemblies associated with the washer reject feature use two P-11E183 guides, two P-12A681 restoring springs, and one P-339521 screw (Fig. 3). Older coin collectors use two P-12A680 screws instead of guides. Coin chutes not associated with washer reject mechanisms are mounted with three P-339521 screws.

Note: The 235 and 1235 coin collectors use two P-11E183 guides, two P-12A681 restoring springs in the upper holes of the coin chute assembly; one P-28E445 guide and one P-12A681 restoring spring in the lower hole of the coin chute assembly.

- (b) Coin chutes and coin chute assemblies are shown in Tables B, C, and D according to types of service, coin features, and equipment.
- (c) Coin collectors using coin chute assemblies equipped with a P-349754 gong assembly have the 452-type capacitor associated with an electromagnet. It mounts on the upper housing underneath the coin chute with a P-347181 clip (Fig. 12).
- (d) Coin chute assemblies without a P-349754 gong assembly are used on coin collectors with gongs mounted on sides or on a swing type bracket. Coin chute assemblies equipped with a 452B capacitor are used only in upper housings.
- (e) Manual postpay coin collectors may use a 10-cent prepay coin chute or coin chute assembly when the chute is equipped with a P-339098 cutover clip. The clip holds the electromagnet arm in its operated position (Fig. 13).
- (f) A61R radio-frequency suppression filter, although normally attached to the coin chute, is not considered a part of the chute assembly. The filter, when used, mounts on the rear of the coin chute at the lower left corner. A mounting hole (Fig. 3) is provided. Dial postpay coin collectors are normally equipped with 61R filters and are identified by a red dot located on the back of the coin gauge.

TABLE B
DIAL POSTPAY COMMON BATTERY COIN COLLECTOR SETS

| TYPE | CODE AND ASSOCIATED COINS | | FEATURES | | | | | | | | | | | SUBSCRIBER SETS | | | U. S. COINS | | | U. S. AND CANADIAN COINS | | | | |
|-------|---------------------------|----------------|--------------|----|----|-----------|---|---------------|----------|--------------------|---------------------------|------------------|------------------------|-------------------|-----------------|-------------|------------------------|----------------|-------------|--------------------------|----------------|-------------|------------|----------|
| | | | HANDSET TYPE | | | DIAL TYPE | | WASHER REJECT | NET-WORK | IND. COIL AND CAP. | COMB. SWHK AND TRFR ASSEM | WOOD TERM. STRIP | SEPARATE TMTR AND RCVR | NET-WORK | INDUC-TION COIL | RINGER ONLY | EQUIPPED UPPER HOUSING | CHUTE ASSEMBLY | CHUTE ONLY* | EQUIPPED UPPER HOUSING | CHUTE ASSEMBLY | CHUTE ONLY* | | |
| | 685A | 634BA 684BA | | | | | | | | | | | | 531A, 584DE, 687A | | | | | | | | | | |
| | U. S. | U. S. AND CAN. | F1 | F2 | G3 | 5 or 6 | 6 | | | | | | | | | | | | | | | | | |
| 158† | G | H | | | | | | | | • | | • | • | | | | BA-220496G | P-340044 | P-340042 | BA-220496H | P340045 | P-340043 | | |
| 168† | G | H | | | | | | | | • | • | | • | | | | | | | | | | | |
| 177† | G | H | | • | | • | | | | • | | • | | • | | | | | | | | | | |
| 178†† | G | H | | • | | • | | | | • | | • | | • | | | BA-220498G | | | BA-220498H | P-340045 | | | |
| 193† | G | H | • | | | • | | | | • | • | | | | • | BA-220500G | | P-340224 | | | | | BA-220500H | P-340225 |
| | GN | HN | | | • | | • | | • | | • | | | • | | P-81C403√ | | | | | | | | |
| 210 | G | H† | | | • | | • | | • | | • | | | • | | | | | | | | | | |
| 198† | | H | • | | | • | | • | | | • | | | | | • | BA-220502G Or P-10E126 | P-20A127§ | P-20A121 | BA-220502H | P-20A128§ | P-20A122 | | |
| | GN | HN | | | • | | • | • | • | | • | | | • | | | | | | P-81B703√ | | | | |
| 212 | G | H | | | • | | • | • | • | | • | | | • | | | P-81B603√ | | | | | | | |

* Equipped with polarized electromagnet.
† Manufacture Discontinued.
‡ 178C and H converted to 425 network and G-type handset are recoded 193 GN and HN.
§ Equipped with P-349754 gong assembly.
√ Color designated by last two digits, ie, (−3) black, (−51) moss green, (−60) beige.

TABLE C
MANUAL POSTPAY COMMON BATTERY COIN COLLECTOR SETS (5-Cent Type Coin Chute)

| TYPE | CODE AND ASSOCIATED COINS | | FEATURES | | | | | | | | SUBSCRIBER SETS | | | U. S. COINS | | | U. S. AND CANADIAN COINS | | |
|------|---------------------------|----------------|--------------|----|----|----------|--------------------|---------------------------|------------------|------------------------|-----------------|---------------------------------------|-------------------|-------------------------|----------------|------------|--------------------------|----------------|------------|
| | | | | | | | | | | | | | | | | | | | |
| | U. S. | U. S. AND CAN. | HANDSET TYPE | | | NET-WORK | IND. COIL AND CAP. | COMB. SWHK AND TRFR ASSEM | WOOD TERM. STRIP | SEPARATE TMTR AND RCVR | NETWORK | INDUCTION COIL | RINGER ONLY | | | | | | |
| | | | F1 | F2 | G3 | | | | | | 685A | 634A, 684A, 634BA, 684BA 634BC, 684BC | 531A, 584DE, 687A | EQUIPPED UPPER HOUSING‡ | CHUTE ASSEMBLY | CHUTE ONLY | EQUIPPED UPPER HOUSING‡ | CHUTE ASSEMBLY | CHUTE ONLY |
| 150* | K | L | | | | | • | | • | • | | | | BA-220492C | | | BA-220492H | | |
| 162* | A | B | | | | | • | | • | • | | | | | | | | | |
| | C | D | | | | | • | • | | • | | | | | | | | | |
| 152 | C | D* | | • | | | • | | • | | | • | | BA-220493C | | P-338883 | BA-220493D | | P-338884 |
| 164† | C | D* | | • | | | • | | • | | | • | | | | | | | |
| 182* | C | D | • | | | | • | • | | | | | • | BA-220494C | P-338889 | | BA-220494D | P-338900 | |
| | CN | DN | | | • | • | | • | | | • | | | | | | | | |
| 200 | C | D | | | • | • | | • | | | • | | | P-81B803§ | | | P-81B903§ | | |

* Manufacture Discontinue (MD).
† 164C and D converted to 425 network and G-type handset are recoded 182 CN and DN.
‡ Equipped with P-349754 going assembly.
§ Color designated by last two digits, ie, (−3) black, (−51) moss green, (−60) beige.

TABLE D
MANUAL AND DIAL PREPAY COIN COLLECTORS

| CODES † AND ASSOCIATED COIN RELAY | | | | | | | | TRANSMISSION ZONES | | | | | | FEATURES | | | | | | | U.S. COINS | | | U.S. COINS AND CANADIAN COINS | | | | | | | | | | | | | |
|-----------------------------------|----------|-------------|----------|-------------|------------------------------|-------------|---------|--------------------|----|--------|--------|-----------|--------|---------------------|-----------------------------|--------------|---------------------------|-------------------------------------|--------------------------------------|------------------------------------|------------------------------|-------------------|---------------------------|-------------------------------|-------------------|---------------------------|----------------|---|----------------|---|-----------------|-----------------|-----------------|----------------|--|---|---|
| TYPE | P-145749 | | P-10C117 | | P-13E961 OR P-10E786 * | | D-96590 | HANDSET TYPE | | | | DIAL TYPE | | PULL BUC- KET | WASH- ER- RE- JECT | NET- WORK | IND. COIL & CAP. | COMB. SWHK & TRFR ASSEM | WOOD TERM. STRIP | SEPA- RATE XMTN & RCVR | EQUIPPED UPPER HOUSING | CHUTE ASSEMBLY | CHUTE ONLY (NOTE 4) | EQUIPPED UPPER HOUSING | CHUTE ASSEMBLY | CHUTE ONLY (NOTE 4) | SEE NOTE | | | | | | | | | | |
| | U.S. | U.S. & CAN. | U.S. | U.S. & CAN. | U.S. | U.S. & CAN. | | ZONE 2 | | ZONE 5 | | ZONE 2 | ZONE 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | F1 | F2 | G | G | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 155 * | C | D | | | | | | | | | | | | | | | • | | • | BA- 220495C | P-339528 | | | BA- 2204950 | | | 1 | | | | | | | | | | |
| 166 * | | | | | | | | | | | | | | | | | | • | • | • | | | | BA- 220495H | | | | | | | | | | | | | |
| 155 * | G | H | | | | | | | | 5 OR 6 | 6 | | | | | • | | • | BA- 220495G | | | | | | | | | | | | | | | | | | |
| 166 * | | | | | | | | | | | 5 OR 6 | 6 | | | | | • | • | | • | | | | | | | | | | | | | | | | | |
| D-178457 * | | | | | | | • | | | | 5 OR 6 | 6 | | | | • | | • | | | | | | | | | | | | | | | | | | | |
| D-178875 * | | | | | | | • | | | | 5 OR 6 | 6 | | | | • | | • | | | | | | | | | | | | | | | | | | | |
| 174 * | C | D | CS | DS | CT | DT | | | • | | | | | | | • | | • | BA- 220497C | P-339526 | | | | P- 339526 | | | | | BA- 220497D | | | 2 | | | | | |
| 176 * | | | | | | | | | | • | | | | | | | • | | • | | | | | | | | | | BA- 220497H | | | | | | | | |
| 174 * | G | H | [GS] | HS | [GT] | HT | | | • | | 5 OR 6 | 6 | | | | • | | • | BA- 220497G | | | | | | | | | | | | | | | | | | |
| 176 * | | | | | | | | | | • | | 5 OR 6 | 6 | | | | • | | | | | | | | | | | | • | | | | | | | | |
| D-178940 * | | | | | | | • | • | | | 5 OR 6 | 6 | | | | • | | • | | | | | | | | | | | | | | | | | | | |
| D-178942 * | | | | | | | • | • | | | 5 OR 6 | 6 | | | | • | | • | | | | | | | | | | | | | | | | | | | |
| 191 * | C | D | CS | DS | CT | DT | | | • | | | | | | | • | • | • | BA- 220499C | | P- 340222 ‡ | | | | BA- 220499D | | | | 3 | | | | | | | | |
| 195 * | | | | | | | | | | • | | | | | | | • | • | • | | | | | | P- 81C003 \$ | | | | | | | | | | | | |
| 191 * | CN | DN | CNS | DNS | CNT | DNT | | | | • | • | | | | • | | • | P- 81C203 \$ | P- 81C003 \$ | | | | | | P- 340223 ‡ | | | | | | | | P- 339527 | | | 2 | |
| 195 * | | | | | | | | | | • | • | | | | | • | • | | | | | | | | | | | | | | | | | | | | • |
| 220 * | | | C | D | CT | DT | | | | • | • | | | | | • | • | • | BA- 220499G | | | | | | P- 340222 ‡ | | | | | | | | | BA- 220499H | | | 3 |
| 230 * | | | | | C | D | | | | • | • | | | | | • | • | • | | | | | | | | | | | | | | | | | | | |
| 191 * | G | H | [GS] | [HS] | [GT] | [HT] | | | • | | | 5 OR 6 | 6 | | | | • | • | BA- 220499C | P- 340222 ‡ | | | | | | | | | | | 2 | | | | | | |
| 195 * | | | | | | | | | | • | | | 5 OR 6 | 6 | • | | | • | | | | | | | | | | | | | | • | • | | | | |
| D-179432 * | | | | | | | • | • | | | 5 OR 6 | 6 | | | | • | • | • | | | | | | | | | | | | | | | | | | | |
| D-179433 * | | | | | | | • | • | | | 5 OR 6 | 6 | | | | • | • | • | | | | | | | | | | | | | | | | | | | |
| 191 * | GN | HN | [GNS] | [HNS] | [GNT] | [HNT] | | | | • | • | 6 | 6 | | | | • | • | P- 81C203 \$ | P- 81C003 \$ | | | | P- 340223 ‡ | P- 339527 | | | | | | 3 | | | | | | |
| 195 * | | | | | | | | | | | • | • | 5 OR 6 | 6 | • | | | • | | | | | | | | | | | | | | • | • | | | | |
| 220 * | | | [G] | [H] | [GT] | [HT] | | | | • | • | 5 OR 6 | 6 | | | | • | • | BA- 220501C | P- 20A125 ‡ | P- 20A119 | | BA- 220501D | | P- 81B303 \$ | P- 20A126 ‡ | P- 20A120 | 3 | | | | | | | | | |
| 230 * | | | | | [G] | [H] * | | | | • | • | 5 OR 6 | 6 | | | | • | • | | | | | | | | | | | BA- 220501H | | | | | | | | |
| 196 * | C | D | CS | DS | CT | DT | | | • | | | | | | | • | • | • | BA- 220501C | | | | P- 20A125 ‡ | | P- 20A119 | | BA- 220501D | | | | 3 | | | | | | |
| 197 * | | | | | | | | | | • | | | | | | | • | • | | | | | | | | | | | | | | • | P- 81B203 \$ | | | | |
| 196 * | CN | DN | CNS | DNS | CNT | DNT | | | | • | • | | | | | • | • | • | P- 81B203 \$ | | | | P- 81B303 \$ | | P- 20A126 ‡ | P- 20A120 | | | | 3 | | | | | | | |
| 197 * | | | | | | | | | | | • | • | | | | | • | • | | | | | | | | | | | | | • | P- 81B503 \$ | | | | | |
| 223 * | | | C | D | CT | DT | | | | • | • | | | | | • | • | • | BA- 220501G OR P- 13A766 | | | | P- 20A125 ‡ | | P- 20A119 | | BA- 220501H | | | | 2 | | | | | | |
| 233 * | | | | | C | D | | | | • | • | | | | | • | • | • | | | | | | | | | | | | | | P- 81B403 \$ | | | | | |
| 196 * | G | H | [GS] | [HS] | [GT] | [HT] | | | • | | | 5 OR 6 | 6 | | | | • | • | BA- 220501G OR P- 13A766 | | | | P- 20A125 ‡ | | P- 20A119 | | BA- 220501H | | | | 3 | | | | | | |
| 197 * | | | | | | | | | | • | | | 5 OR 6 | 6 | • | | | • | | | | | | | | | | | | | | • | • | | | | |
| D-179532 * | | | | | | | • | • | | | | 5 OR 6 | 6 | | | | • | • | P- 13A766 | | | | P- 20A125 ‡ | | P- 20A119 | | | | | 2 | | | | | | | |
| D-179533 * | | | | | | | • | • | | | | 5 OR 6 | 6 | • | | | • | • | | | | | | | | | | | | | P- 81B503 \$ | | | | | | |
| 196 * | GN | HN | [GNS] | [HNS] | [GNT] | [HNT] | | | | • | • | 6 | 6 | | | | • | • | P- 81B403 \$ | P- 81B503 \$ | P- 20A126 ‡ | P- 20A120 | | | 3 | | | | | | | | | | | | |
| 197 * | | | | | | | | | | | • | • | 6 | 6 | • | | | • | | | | | | | | • | • | | | | | | | | | | |
| 223 * | | | [G] | [H] | [GT] | [HT] | | | | • | • | 6 | 6 | • | | | • | • | P- 81R203 | P- 81B503 \$ | P- 20A126 ‡ | P- 20A120 | | | 3 | | | | | | | | | | | | |
| 233 \$ | | | | | [G] | [H] * | | | | • | • | 6 | 6 | • | | | • | • | | | | | | | | P-81R203 | | | | | | | | | | | |
| 234 | | | | | [G] | | | | | • | • | 6 | 6 | • | | | • | • | P-81R203 | P-81R203 | | | | | 3 | | | | | | | | | | | | |
| 235 | | | | | [G] | | | | | • | • | 8 | 8 | • | | | • | • | | | | | | | | P-89E000 | | | | | | | | | | | |
| 236 | | | | | [G] | | | | | • | • | 6 | 6 | • | | | • | • | P-81R203 | P-81R203 | | | | | 3 | | | | | | | | | | | | |
| 1234 | | | | | [G] | | | | | • | • | 25 | 25 | • | | | • | • | | | | | | | | P-81R203 | | | | | | | | | | | |
| 1235 | | | | | [G] | | | | | • | • | 25 | 25 | • | | | • | • | | | | | | | | | | | | | | | | | | | |

NOTES:

1. WHEN CONVERTED TO HANDSET TYPE, CODED AS FOLLOWS:

155 TYPE TO 174 TYPE
166 TYPE TO 176 TYPE

2. D TYPE (3-SPRING, DIAL SHORTING) NO LONGER AVAILABLE. THE FOLLOWING CONVERTED TO 4-SPRING DIAL-SHORTING RELAY AND CODED AS SHOWN:

D-178940 TO 174 TYPE
D-178942 TO 176 TYPE
D-179432 TO 191 TYPE
D-179433 TO 195 TYPE
D-179532 TO 196 TYPE
D-179533 TO 197 TYPE

3. COIN COLLECTORS CONVERTED FOR COIN FEATURES ARE RECODED AS FOLLOWS:

PULL BUCKET RETURN CHUTE
191 TYPE TO 195 TYPE
196 TYPE TO 197 TYPE
WASHER REJECT AND PUSHBUTTON COIN RELEASE
191 TYPE TO 196 TYPE
195 TYPE TO 197 TYPE

4. EQUIPPED WITH NONPOLARIZED ELECTROMAGNET.

[] INDICATES DIAL SHORTING

* MANUFACTURE DISCONTINUED

† SEE 4.03 FOR SIGNIFICANCE OF LETTER CODE

‡ EQUIPPED WITH P-349754 GONG ASSEMBLY

\$ COLOR MUST BE DESIGNATED, IE, BLACK (-3), GREEN (-51), BEIGE (-60)

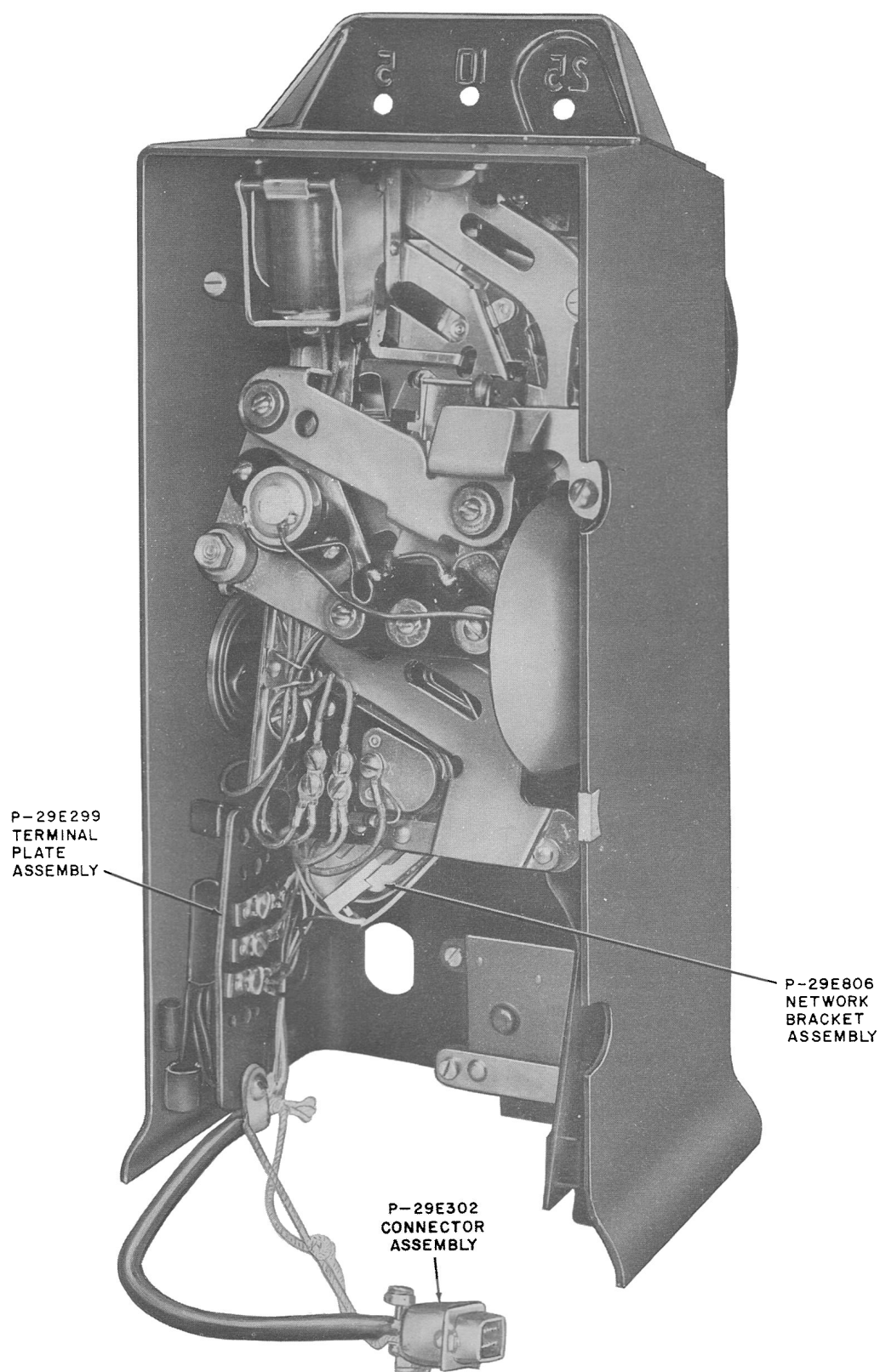


Fig. 7 — Upper Housing Assembly — 236-Type Coin Collector

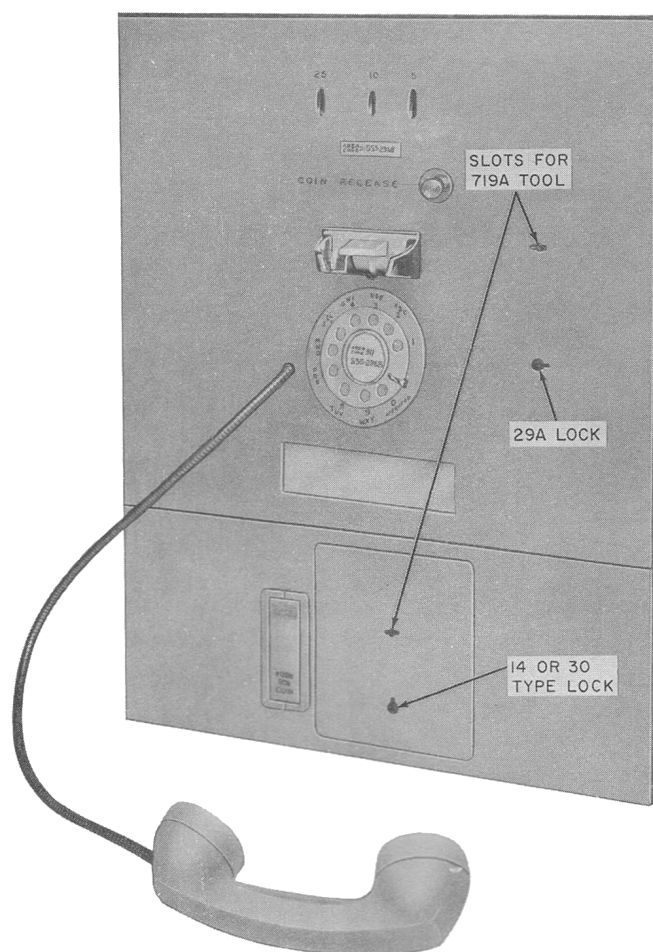


Fig. 8 — 235-Type Coin Collector

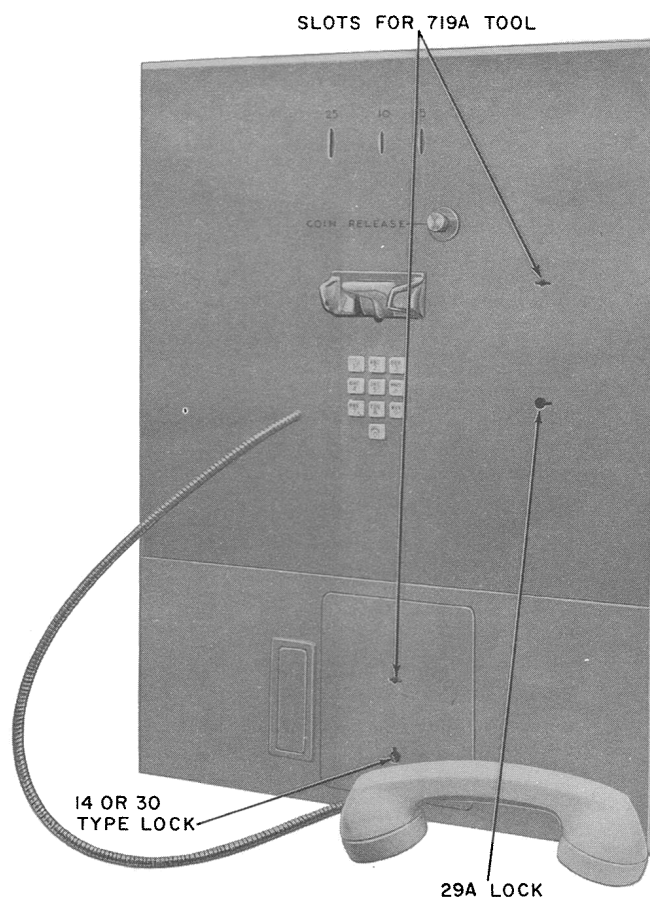


Fig. 9 — 1235-Type Coin Collector

3.06 KS-19277 Lock and Associated Parts:

(a) The KS-19277 lock and associated parts (Fig. 14) are designed to give additional security to the upper housing. The arrangement consists of a screw type lock and appropriate fasteners which secure upper housing to either backplate or mounting surface.

(b) The lock (Fig. 15) mounts in a specially provided hole in lower right side of the upper housing. Providing this hole is a difficult operation and it is not recommended that it be done in the field.

(c) The lock is held in place by a spring steel washer and heavy steel nut (Fig. 16). Use of a tubular key permits the back of the lock to rotate and screw onto the end of the security fastener.

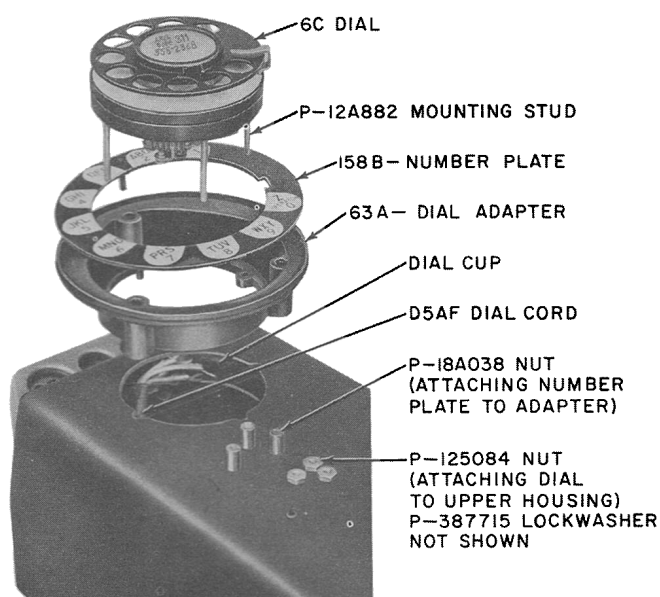


Fig. 10 — Assembly of 6-Type Dial

This can be done without removing the coin collector from its mounting fixture. Check the following:

- If a security stud is present in the lower right security stud hole (Fig. 20), the appropriate bolt fastener [3.06(f)] may be used after removing the security stud.
- If a security stud is absent in the lower right security stud hole, place a small-bladed screwdriver in this hole (Fig. 21). If blade enters to a depth of at least 3/4-inch, a keyhole slot is present (Fig. 22) and the appropriate bolt or stud fastener can be used. If the slot is missing, use stud fastener, or modify, or replace mounting surface to permit use of a bolt fastener.

(h) Use of bolt fasteners is limited by the surface (backboards, shelf, or booth) upon which the coin collector is mounted.

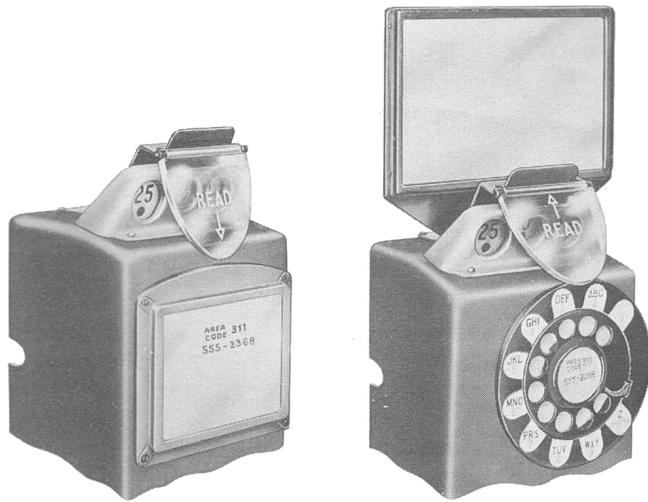
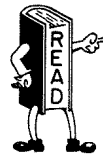


Fig. 11 — Manual and Dial Postpay Coin Collectors Equipped With Coin Gauge Guard



In vulnerable locations where prying of upper housing is more likely, always use bolt fastener.

(d) The lock can not be used on coin collectors equipped with 2-coil relays, or those without a lower right security stud hole.

(e) The P-13A091 BKX terminal assembly (Fig. 17) must be replaced with a P-25E300 terminal assembly to provide clearance for fasteners (Fig. 18 and 19).

(f) The fasteners (Fig. 14) are:

- Bolt fastener — P-25E301, short shoulder, for use on all mountings except the KS-16797 universal booth.
- Bolt fastener — P-25E302, long shoulder, for use with KS-16797 universal booth.
- Stud fastener — P-25E303.

(g) Two methods may be used to determine if mounting surfaces on existing installations are equipped with four keyhole slots.

(i) The P-25E301 and P-25E302 bolt fasteners screw from the rear into the lower right security stud hole (viewed from front) of the coin collector backplate (Fig. 18 and 19). The coin collector is installed on the mounting surface in the same manner as any other coin collector equipped with security studs.

(j) To install a bolt fastener on existing installations, it is necessary to disconnect and remove the coin collector from its mounting surface.

(k) Use of a stud fastener is not restricted by the mounting surface.

(l) Use the P-25E303 stud fastener (Fig. 18) where maximum security is *not* essential, but where protection is desired against unauthorized use of the upper housing key.

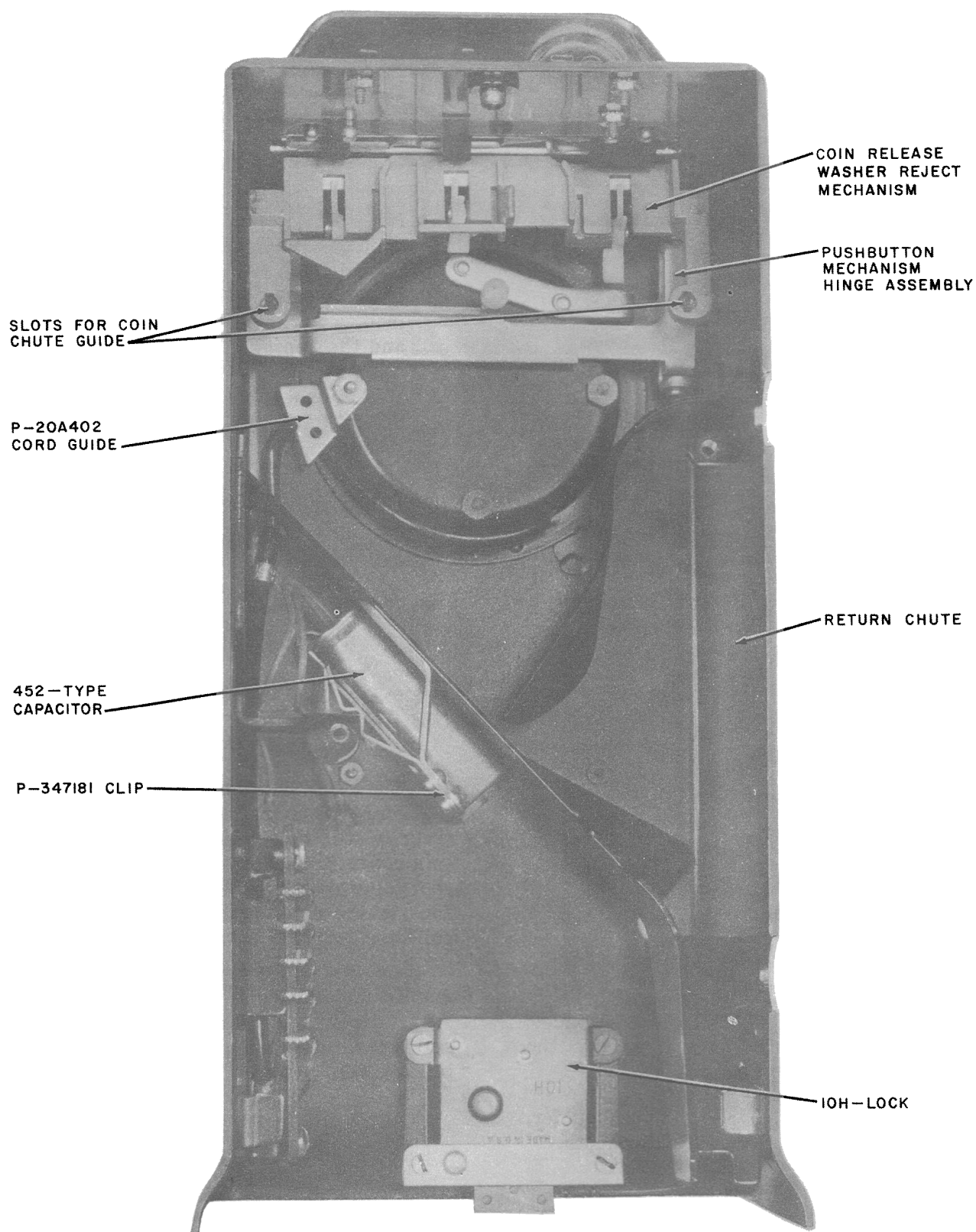


Fig. 12 — Upper Housing, Interior View

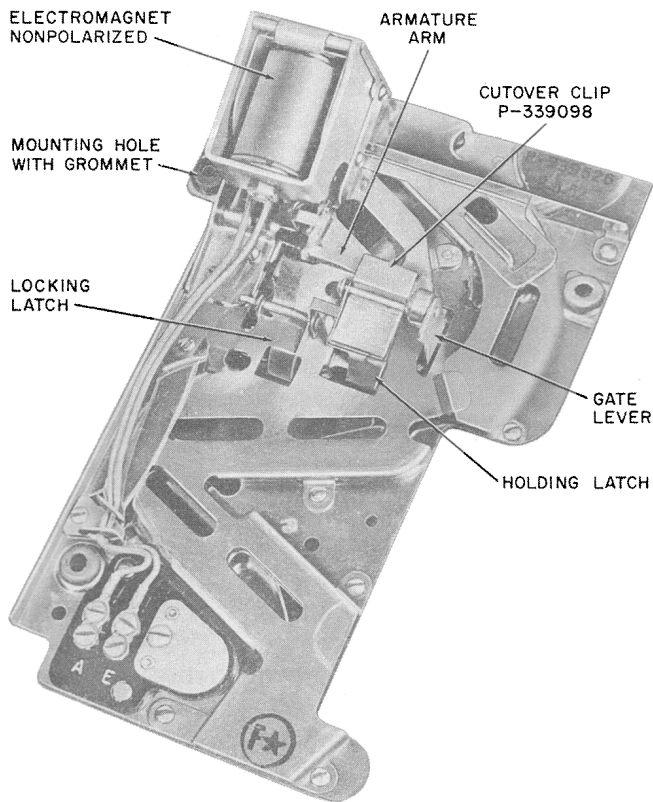


Fig. 13 — Prepay Coin Chute Equipped With P-339098 Cutover Clip for 5-Cent Service

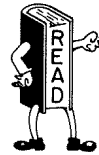
(m) The stud fastener can be installed without removing the backplate assembly from its mounting surface.

(n) Use a P-25E351 "SPIRAP" insulator on either the bolt or stud fastener. The purpose of the "SPIRAP" is to eliminate the possibility of the fastener grounding the lower lug of the housing contacts or the BXX terminal assembly. To install, start at the backplate surface and wind the "SPIRAP" in "barber pole fashion" around the stud or bolt. Do not allow the "SPIRAP" to cover any of the threads on the exposed end of the stud or bolt. Redress the wiring to the upper housing contacts (Fig. 23).

(o) After the bolt or stud fastener is properly installed, fasten upper housing as follows:

- Insert the tubular key into the KS-19277 lock.

- Apply and maintain a slight forward pressure on the key while rotating it in a clockwise direction until the key is hand tight. Do not force the key beyond this point.



Do not use pliers or other tools or instruments on the handle of the key.

- To remove the key turn counterclockwise to the first release position and pull the key away from the lock.

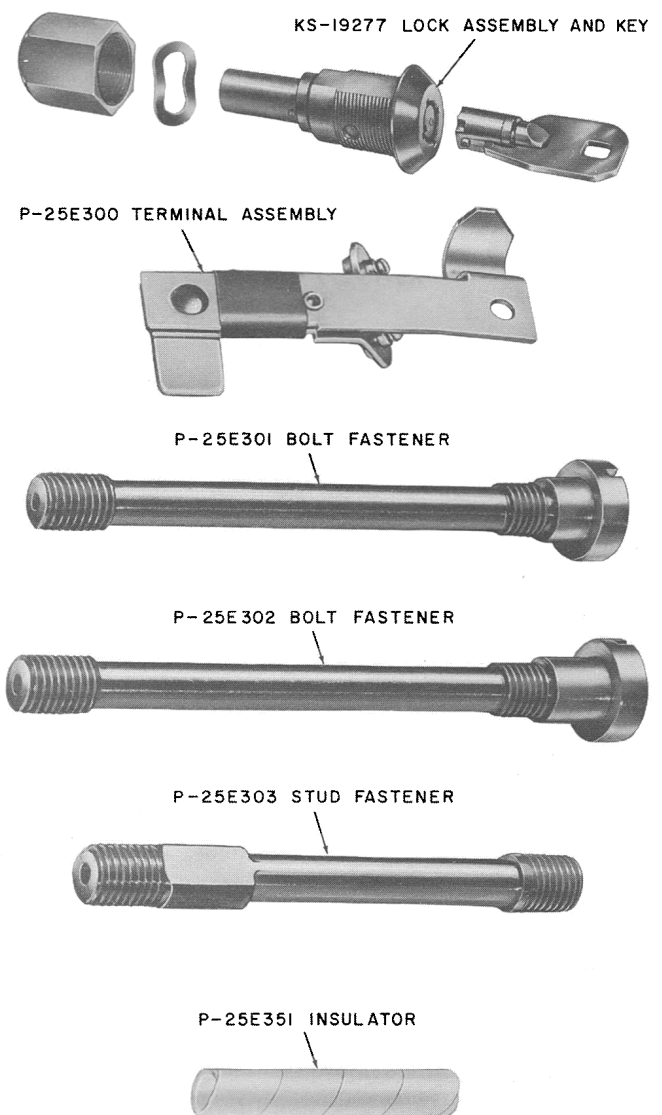


Fig. 14 — KS-19277 Lock Assembly and Associated Parts

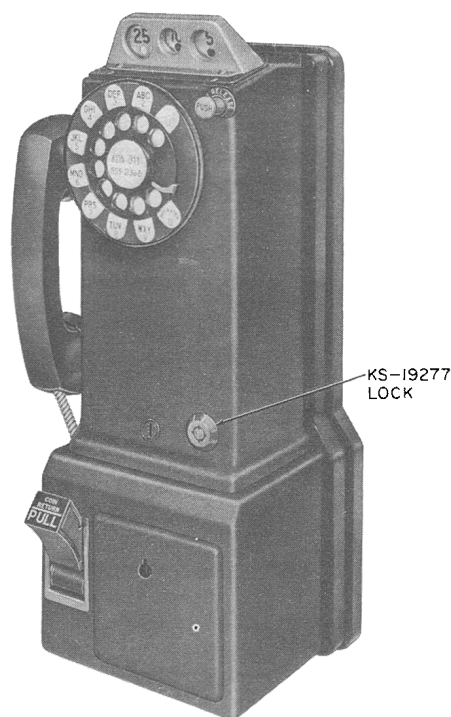


Fig. 15 — Coin Collector Equipped With KS-19277 Lock

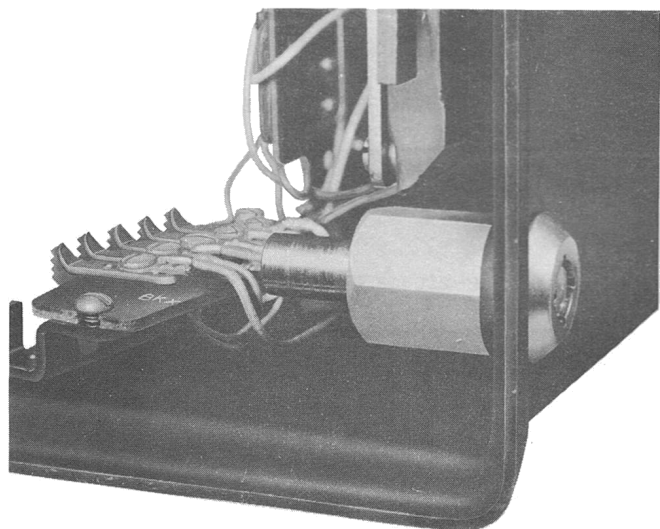


Fig. 16 — Cutaway Section of Upper Lock Assembly Installed

3.07 Cash Compartment:

(a) The self-locking coin receptacle and 1A coin collector door, equipped with lock for the cash compartment, are controlled according to arrangements with the Commercial Department.

(b) The self-locking receptacle consists of a 1B coin receptacle equipped with a 1D coin receptacle cover. Use of the coin receptacle requires a 1A or 1B coin receptacle rail on the mechanism base in the cash compartment (Fig. 24).

(c) The P-12E598 coin receptacle booster spring (Fig. 24) reduces the clearance between the coin receptacle cover and the rail. This prevents collected coins from falling out of their normal path onto the coin receptacle cover. Coin collectors equipped with single-coil relays are provided with P-12E598 booster springs at the factory and repair shops. The spring will be added to coin collectors equipped with 2-coil coin relays when so specified by the telephone company.

3.08 Return Chute: The lower part of the coin return chute is located in the lower housing to the left of the cash compartment. When a pull bucket is provided, it acts as a receptacle for returned coins. To remove coins, open pull bucket with handle marked COIN RETURN, PULL. The pull bucket, in both closed and open positions, prevents access to the return chute. The pull bucket assembly is covered in Section 506-110-305. The new coin collectors have P-15E011 chrome-plated pull bucket assemblies.

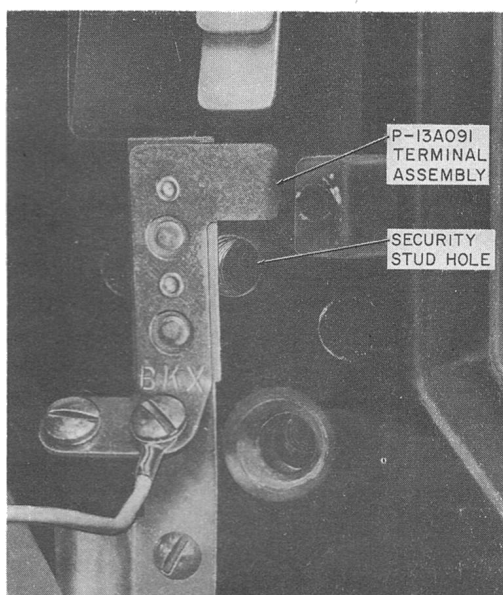


Fig. 17 — P-13A091 Terminal Assembly and Vacant Security Stud Hole

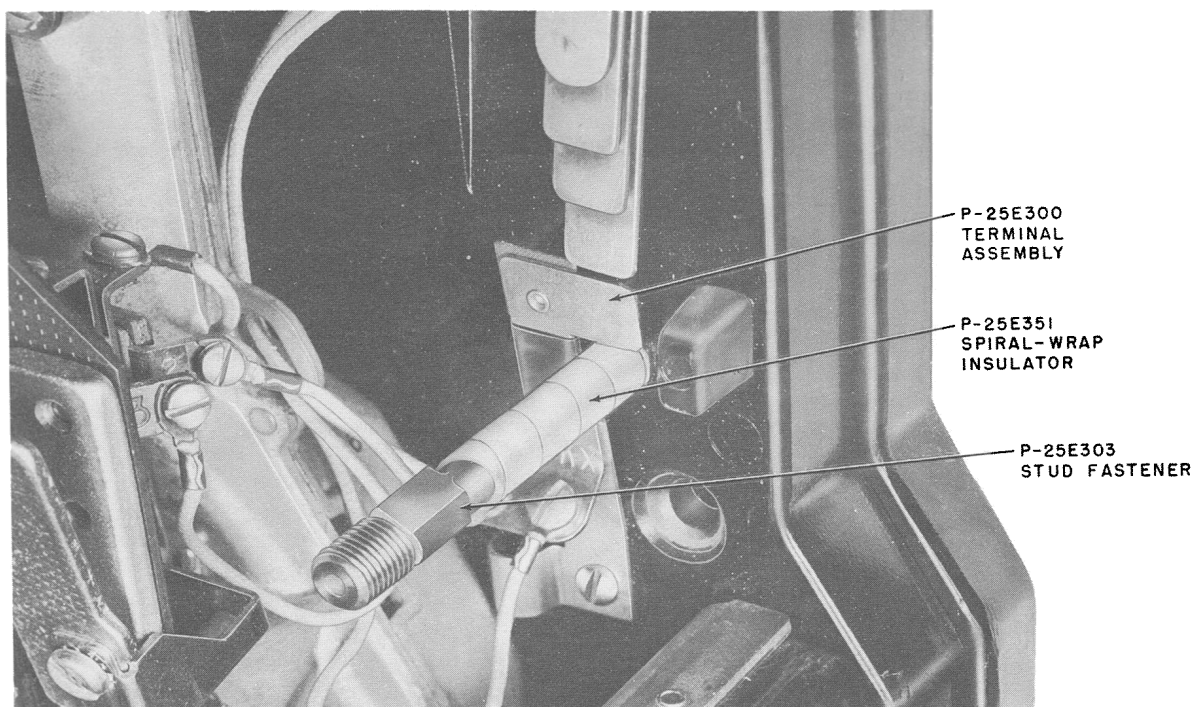


Fig. 18 — Terminal Assembly, Insulator, and Stud Fastener

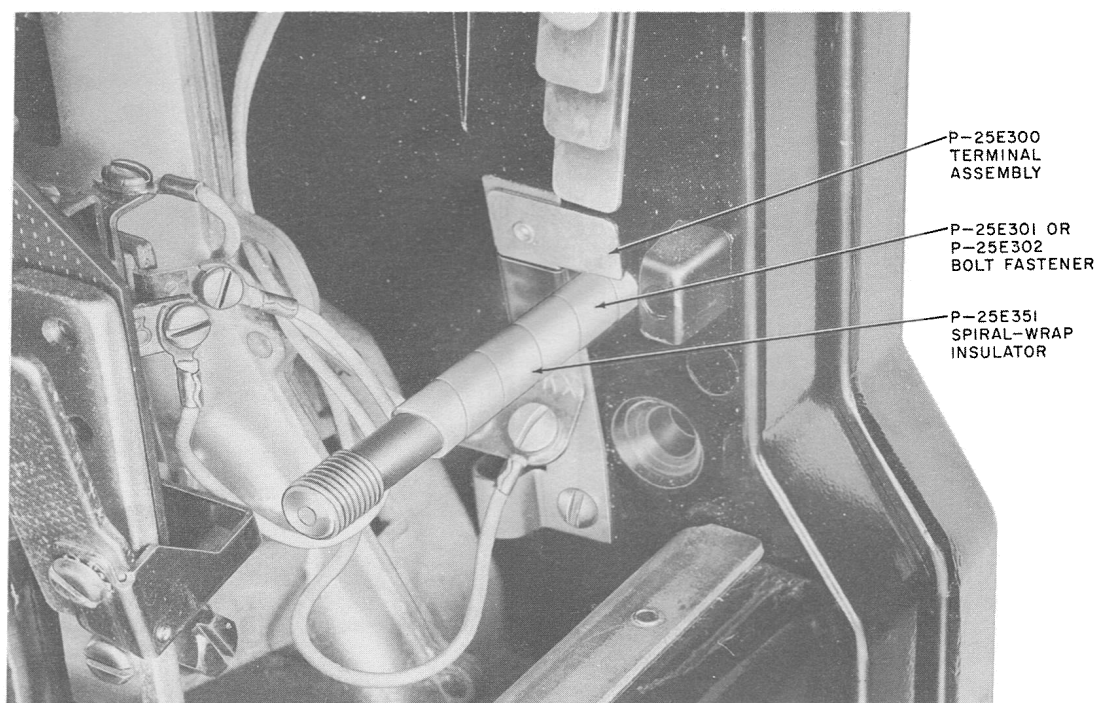


Fig. 19 — Terminal Assembly, Insulator and Bolt Fastener

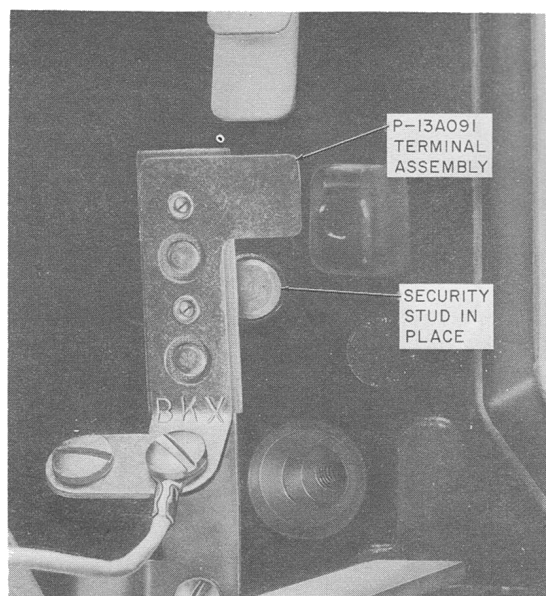


Fig. 20 — Terminal Assembly With Security Stud Installed

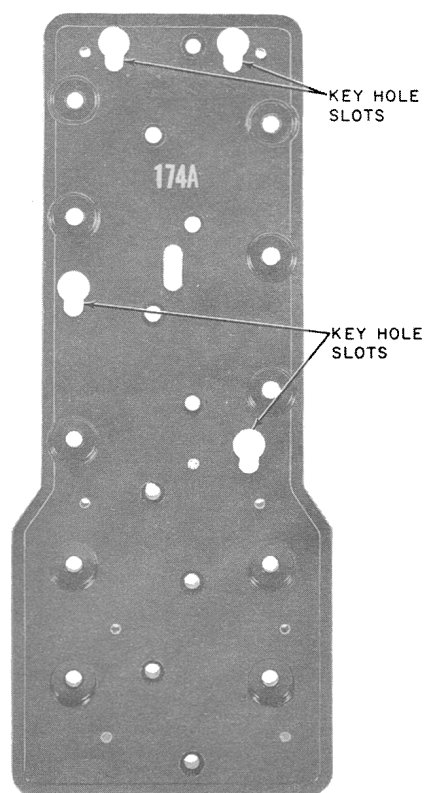


Fig. 22 — 174A Backboard With Four Keyhole Slots for Security Studs and Bolt Fastener

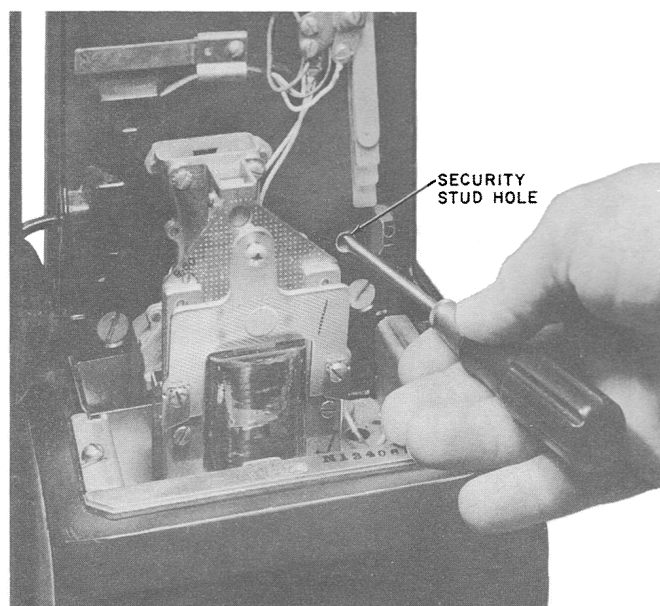


Fig. 21 — Method of Determining if Mounting Surface is Equipped With Four Keyhole Slots

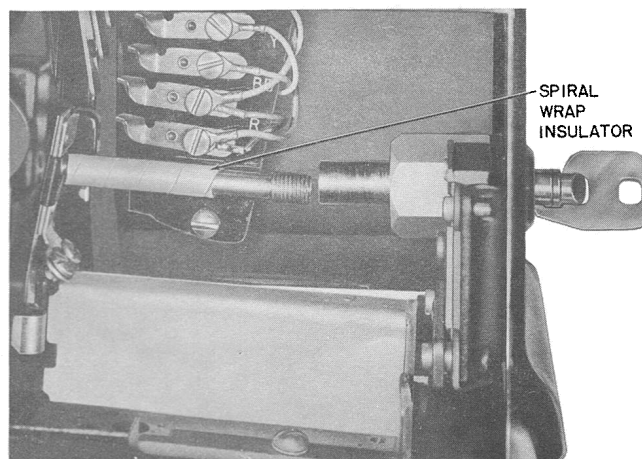


Fig. 23 — Cutaway Section of Upper Housing Showing Mating of Bolt Fastener and KS-19277 Lock With Housing Placed on Coin Collector



Fig. 24 — Coin Collector Equipped With Coin Receptacle Booster Spring

3.09 Backplate Assembly:

- (a) Various combinations of parts mounted on the backplate are illustrated in Fig. 2, 4, and 5.
- (b) The 1A backplate (Fig. 25) is used on coin collectors arranged for security studs, bolt fasteners, and stud fasteners at locations where additional mounting security is needed. The 1A backplate provides clearance holes for security studs and mounting screws. It is fastened on the coin collector backplate by replacing the four lower housing assembly screws with one P-12E799 and three P-13E656 high-strength flathead steel screws. As viewed from the front (Fig. 24) the P-12E799 mounts in the lower right corner. The replacement screws must be ordered separately. Coin collectors equipped with the 1A backplate can not be used on 139A backboards and 19-type shelves.

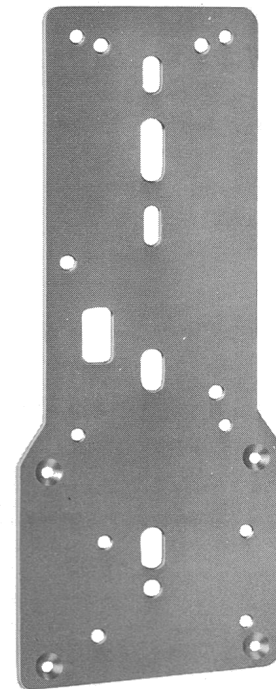


Fig. 25 — 1A Backplate

- (c) The 234G and 236G coin collectors are furnished with a 1A backplate and are *always* installed with security studs, bolt or stud fasteners, and the KS-19277 lock assembly.

3.10 Switch Hook Assembly: New coin collectors have 2-piece, chrome-plated P-12E855 switch hook assemblies (Fig. 26). Coin collectors converted from transmitter-receiver type to handset type use P-10C139 switch hook assemblies which require a P-10C136 auxiliary spring.

3.11 Mechanism Unit Assembly: The mechanism unit assembly mounts on the lower housing top. Four types shown are:

- Manual postpay, no coin relay (Fig. 27).
- Dial postpay, no coin relay (Fig. 28).
- Manual or dial prepay, 2-coil coin relay (Fig. 29).
- Manual or dial prepay, single-coil coin relay (Fig. 30).

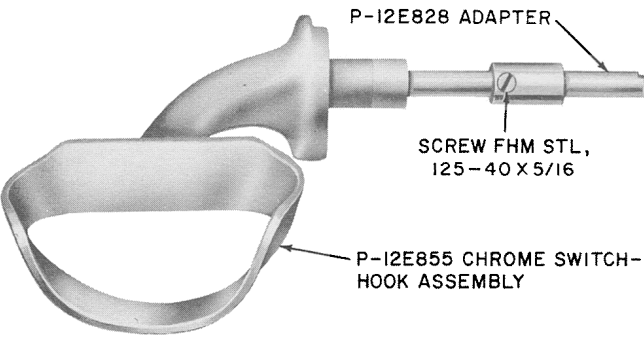


Fig 26 — Two-Piece Switch Hook Assembly

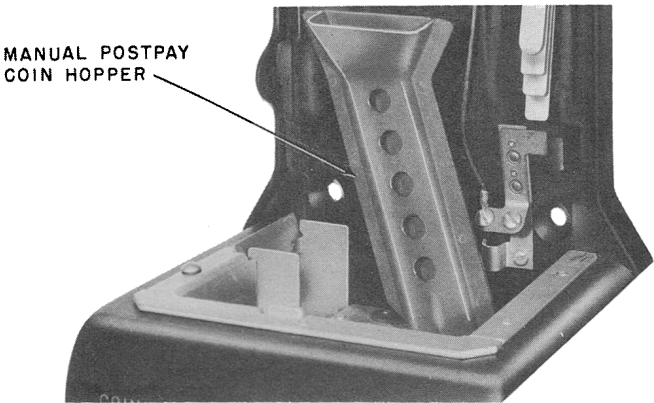


Fig. 27 — Manual Postpay

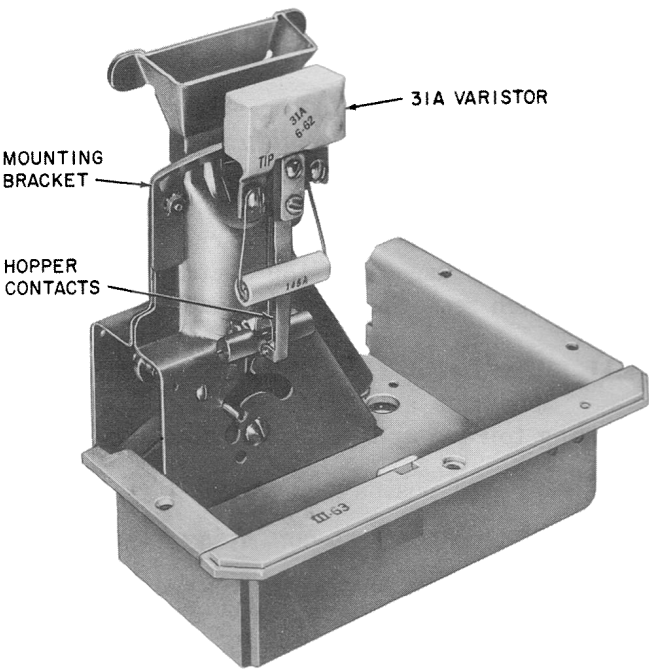


Fig. 28 — Dial Postpay (CDO)

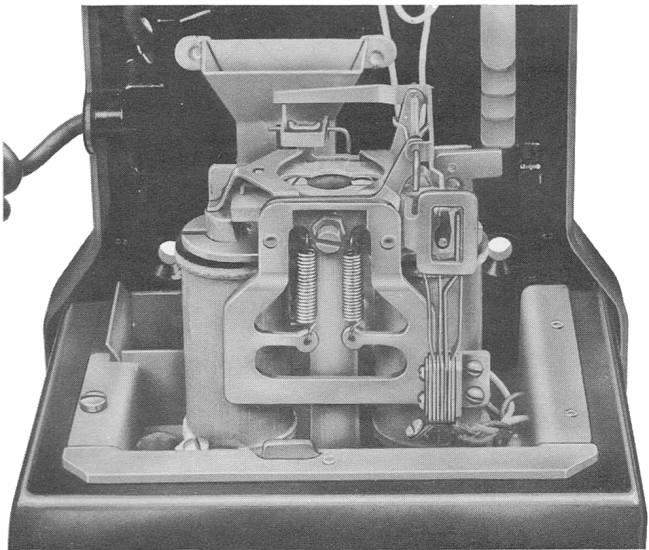


Fig. 29 — Manual or Dial Prepay, 2-Coil Coin Relay

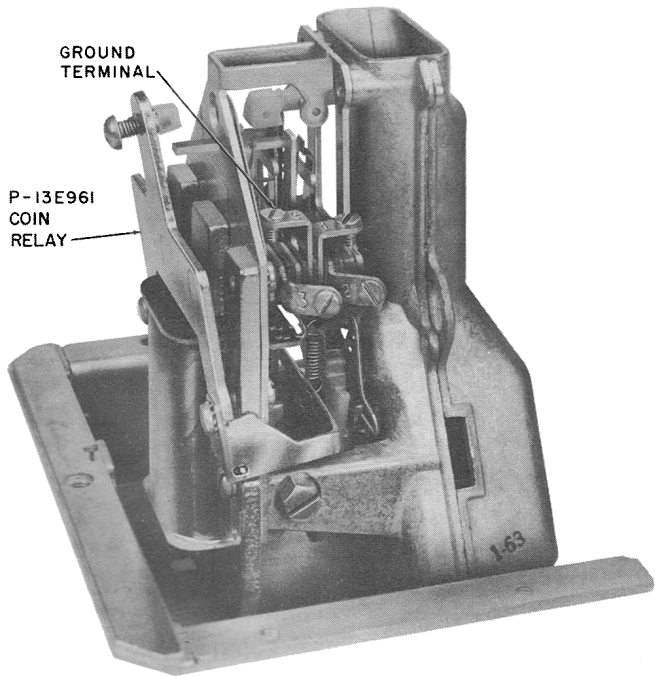


Fig. 30 — Manual or Dial Prepay, Single-Coil Slow-Release Coin Relay

3.12 Coin Relays:

- (a) The P-145749 coin relay has two coils and two spring contacts for ground only. It has no dial shorting feature.
- (b) The P-10C117 coin relay has two coils and four spring contacts for ground and dial shorting.
- (c) The D-96590 coin relay is used only on D-series coin collectors. It has two coils and three spring contacts for grounding and dial shorting.
- (d) The P-10E786 coin relay is a single-coil, slow-release relay. It has four spring contacts for grounding and dial shorting.
- (e) Late production 230-, 233-, 234-, 235-, and 236-type coin collectors are equipped with a new P-13E961 coin relay (Fig. 30). It replaces the P-110E786 coin relay now rated Manufacture Discontinued (MD). The relays are interchangeable, but some of the components are not.
- (f) The single-coil relay as a P-10E783 cover. The 2-coil relay has either a KS-7994 or a P-349486 cover.

4. SELECTION

4.01 Coin Collector Apparatus — Color: Colored coin collector apparatus and identifying code suffixes are listed in Table A. Include appropriate suffix when ordering apparatus.

4.02 Coin Collector Codes:

- (a) Coin collector types are identified by numerical codes. Types of service, coins, and features are identified by letter codes. D specification numbers identify sets for limited use. Dial postpay coin collectors and their features are listed in Table B. Manual postpay coin collectors and their features are listed in Table C. Manual and dial prepay coin collectors and their features are listed in Table D.
- (b) No definite plan or arrangement can be applied to lower-numbered codes or the relationship between old and converted code

numbers. However, 2-digit numbers indicate sidetone telephone circuits and 3-digit numbers indicate anti-sidetone telephone circuits.

- (c) Code numbers for 180- and 190-series coin collectors use the same general coding plan with special features available on the 195, 196, 197, and 198 types. Other converted coin collectors if applicable, are also coded to this plan. The 180 series is arranged for 5-cent initial deposit; the 190 series for 10-cent initial deposit. Both are handset types. Characters having common meaning are as follows:

| Third digit — service and special features | |
|--|--|
| 180 or 190 Series | 1 — Prepay |
| | 2 — Postpay manual |
| | 3 — Postpay dial (CDO) |
| 190 Series Only | 5 — Prepay equipped with pull bucket |
| | 6 — Prepay equipped with washer reject |
| | 7 — Prepay equipped with pull bucket and washer reject |
| | 8 — Postpay dial equipped with washer reject (CDO) |

- (d) The characters in 200-series coin collector code numbers have the following significance:

First digit — telephone circuit

- 2 — 425B network type telephone circuit

Second digit — service

- 0 — Manual postpay, 5-cent coin chute
- 1 — 10-cent dial postpay (CDO)
- 2 — 10-cent prepay, 4-spring dial shorting coin relay
- 3 — 10-cent prepay, slow-release single-coil dial shorting coin relay. Coin collector has corrosion-resistant finish.

Third digit — features

- 0 — Basic collector
- 2 — Washer reject
- 3 — Pull bucket and washer reject
- 4 — Pull bucket, washer reject, and added security features.

(e) All 200-series coin collectors have cast aluminum backplates. Lower numbered codes have cast iron backplates.

4.03 Code Letters: Code letters associated with types of coin collectors indicate various types of service, features, and equipment. These letter codes apply to coin collectors in general:

First letter — service and coin features

- C — Manual, U.S. coins
- D — Manual, U.S. and Canadian coins
- * {
 - E — Dial, U.S. coins (A-type number plate)
 - F — Dial, U.S. and Canadian coins (A-type number plate)
 - G — Dial, U.S. coins (B-type number plate)
- H — Dial U.S. and Canadian coins (B-type number plate)
- *L — Local battery talking, common battery signaling (obsolete)

* These coin collectors will not be reissued from the repair shop.

Second, or second and third letters — features added by conversion

- N — 425B network type telephone circuit
- R — Spring cord (stamped on carton only)
- S — 4-spring dial shorting coin relay
- T — Slow-release, single-coil dial shorting coin relay.