

COIN TELEPHONE SETS - 235- AND 1235-TYPE IDENTIFICATION, INSTALLATION AND MAINTENANCE

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KS-19442 Glass Deluxe Booth	6	1.01 This section is reissued to:	
MOUNTING APPLICATIONS	7	• Revise format	
KS-19426 Walk-Up, Drive-Up Mounting	7	• Add illustrations on 127A and 127B covers	
WIRING	7	• Provide more detail on installation of return chute assembly	
INSTRUCTION CARD	7	• Provide more detail on backboards	
NUMBER CARD (1235G)	7		
4. MAINTENANCE	7	Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.	
DOOR AND LINER ASSEMBLY	7	1.02 The 235 and 1235 coin telephones are stainless steel, multislot, panel phones.	
Coin Twister Assembly	8		

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1.03 The 235 coin telephone (Fig. 1) and the 1235 coin telephone (Fig. 2) are similar except that the 235 has a rotary dial while the 1235 has a 10-button TOUCH-TONE® dial.

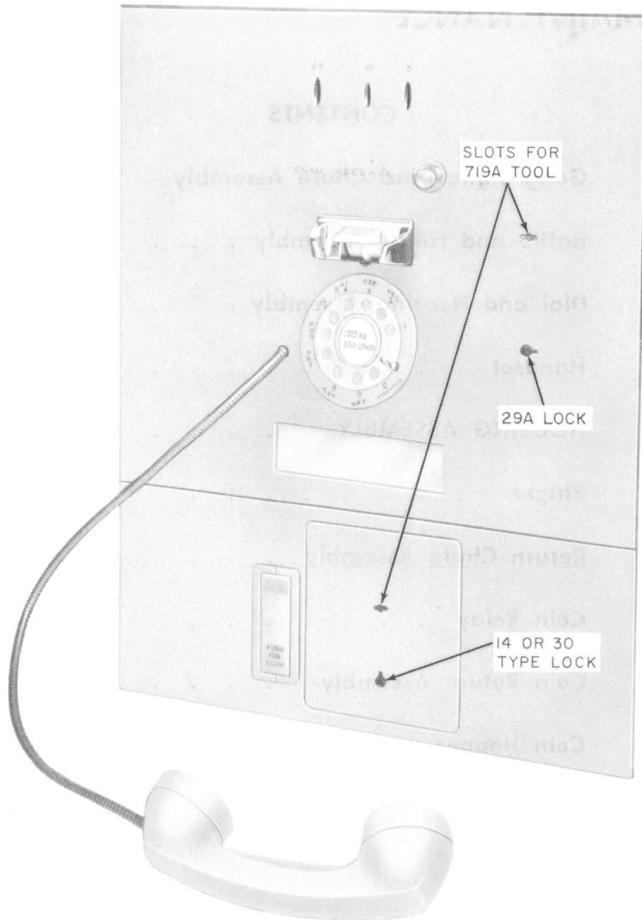


Fig. 1—235-Type Coin Telephone

1.04 Overall dimensions of the coin telephones are shown in Fig. 3.

Note: The switch hook and handset extend 2-3/4 inches in front of the faceplate.

2. IDENTIFICATION

ORDERING GUIDE

Set, Telephone, 235G or Set, Telephone, 1235G

2.01 Replaceable Components for 235G (Fig. 4)

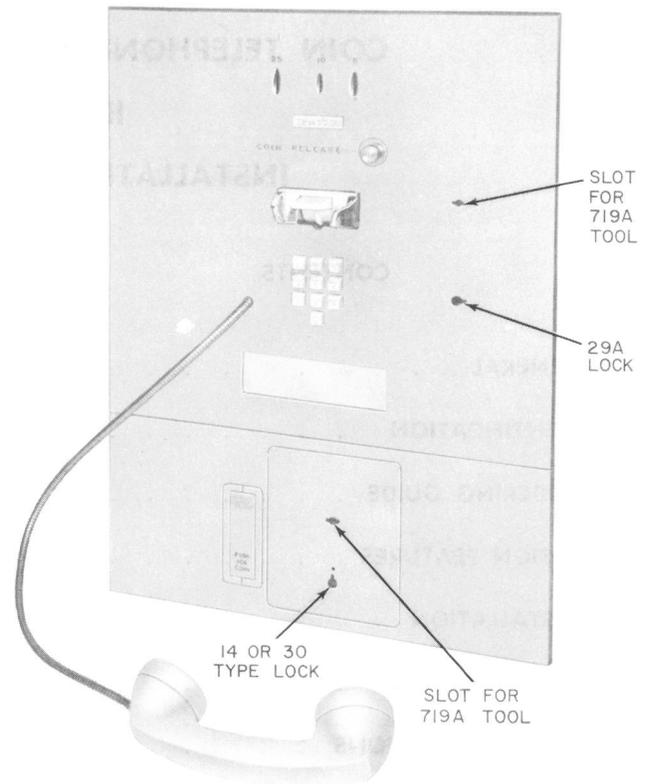


Fig. 2—1235-Type Coin Telephone

- P-44E392 door and housing assembly, consisting of:

P-27E804 door and liner assembly

P-27E855 housing assembly

4A-67 cash compartment door

- P-84D152 rotary dial and housing assembly, consisting of:

8M-52 dial

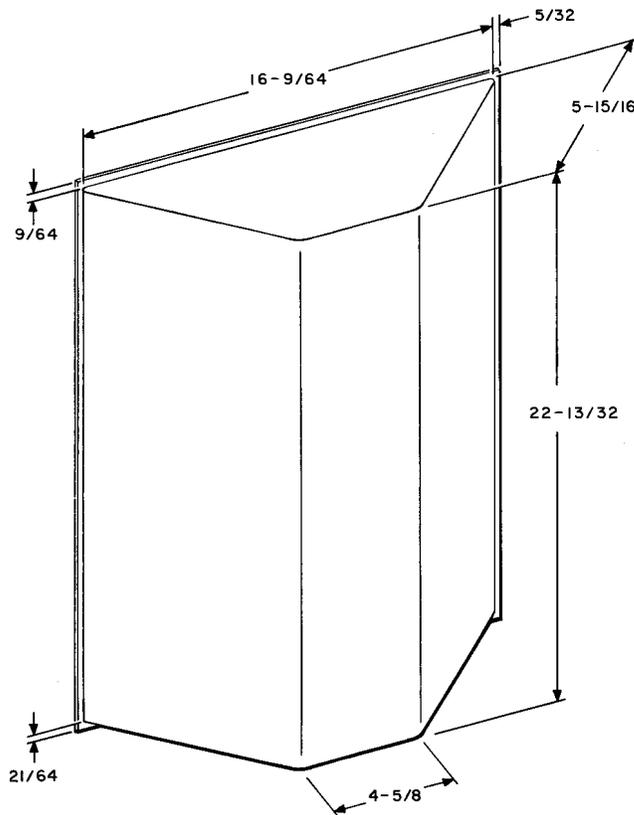
P-87B052 number plate assembly

- P-44E390 coin twister frame assembly

- P-27E847 top coin twister

- G3-52 handset

- C4A ringer



NOTE:
ALL DIMENSIONS SHOWN
ARE IN INCHES.

Fig. 3—Rear View Showing Dimensions

- 4010B network
- P-20A125 gong signal and chute assembly
- P-11E964 coin relay and hopper assembly
- P-27E835 return chute assembly
- P-15E491 coin return assembly
- 1D coin receptacle rail

2.02 Replaceable Components for 1235G (Fig. 4)

- P-44E391 door and housing assembly, consisting of:

P-27E803 door and liner assembly

P-27E855 housing assembly

4A-67 cash compartment door

- P-27E820 TOUCH-TONE dial and housing assembly, consisting of:

25E3 dial

- P-44E390 coin twister frame assembly

- P-27E847 top coin twister

- G3-52 handset

- C4A ringer

- 4010B network

- P-20A125 gong signal and chute assembly

- P-11E964 coin relay and hopper assembly

- P-27E835 return chute assembly

- P-15E491 coin return assembly

- 1D coin receptacle rail

2.03 Associated Apparatus for 235G or 1235G (order separately)

- 1B coin receptacle

- 1D or 1E coin receptacle cover

- 29A lock (door and liner assembly)*

- 14- or 30-type lock (cash compartment)*

- 719A tool (Fig. 5)

- P11C test cord (Fig. 6) (used for testing with door and liner assembly open)

- 127A or 127B cover (Fig. 7) (for use over the coin telephone in installations not flush mounted)

*Order must specify responsible person to whom locks and keys are to be sent.

DESIGN FEATURES

- (a) Used only with dial prepay coin trunks

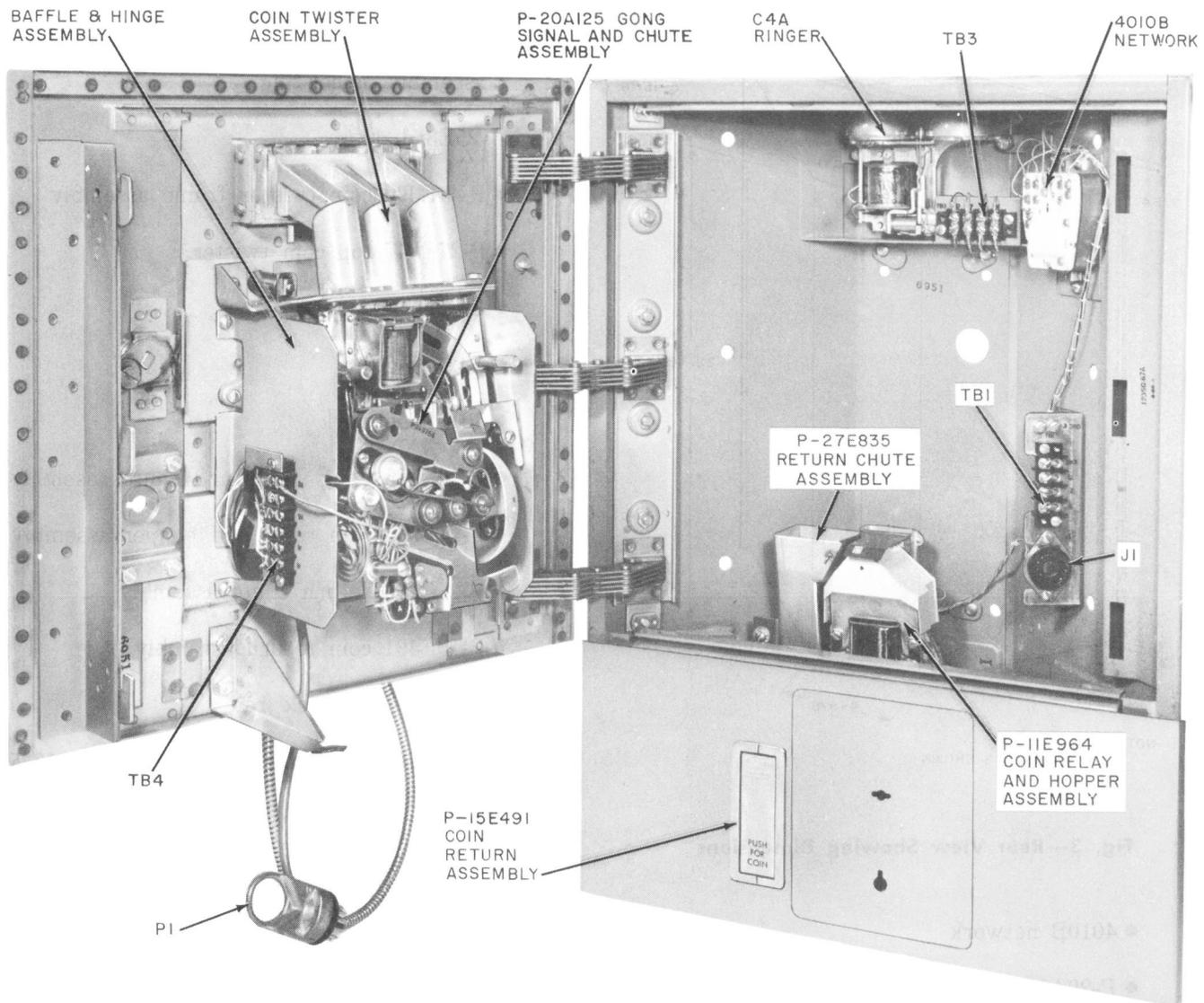


Fig. 4—235- or 1235-Type Coin Telephone—Interior

(b) All parts are contained in a high-security steel housing which has the following features:

- Door and liner assembly has three locking points actuated by a 719A tool.
- Door and liner assembly is secured by 29A lock and 719A tool.
- Cash compartment door has five locking points; three are actuated by a 719A tool and two are stationary.

- Cash compartment door is secured by 14- or 30-type lock and 719A tool.

- (c) Provisions are made for use of four security studs.
- (d) Coin return is designed to deter stuffing.
- (e) Has transmission characteristics equivalent to 500/1500-type coin telephone.
- (f) Arranged to accept 1B coin receptacle.

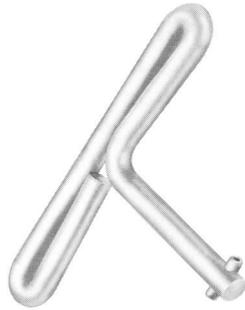
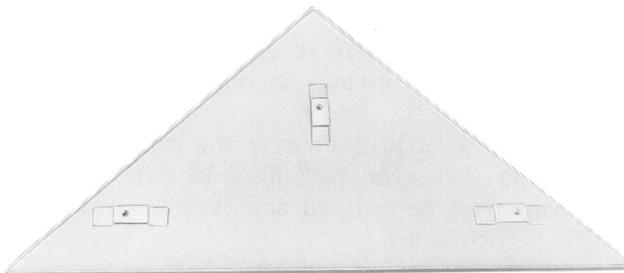


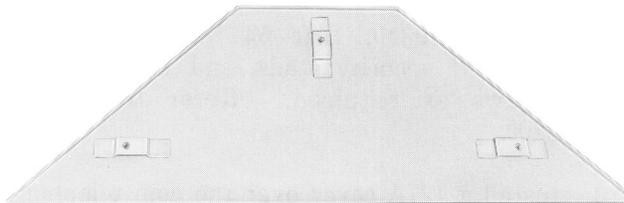
Fig. 5—719A Tool



Fig. 6—P11C Test Cord



127A—BOTTOM SIDE



127B—BOTTOM SIDE

Fig. 7—127A and 127B Covers

(g) 1D or 1E coin receptacle cover may be used.

3. INSTALLATION

3.01 The 235G or 1235G coin telephone may be installed in the following:

- KS-19206 curved door booth
- KS-19340 wood booth
- KS-19442 glass deluxe booth
- KS-19426 mounting
- A wall that will allow the telephone to be recessed

3.02 Consider the following:

- Accessibility to customer
- Sufficient light
- Privacy
- Absence of noise and vibration
- Absence of grease, smoke, or dust
- Clearance from oily or dirty surfaces
- Clearance from stoves or heaters
- Clearance for door swing
- Clearance from moving machinery, piled merchandise, or narrow aisles
- Mounting surfaces—Consult a supervisor before locating coin telephone on finishes that would be expensive to repair if the set is removed.
- Inductive effects—locate telephone and associated wiring at least 6 inches from

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neon fixtures, transformers, or other interference—causing equipment.

SECURITY STUDS

3.03 Refer to Fig. 8 for mounting screw and security stud locations in the coin telephone.

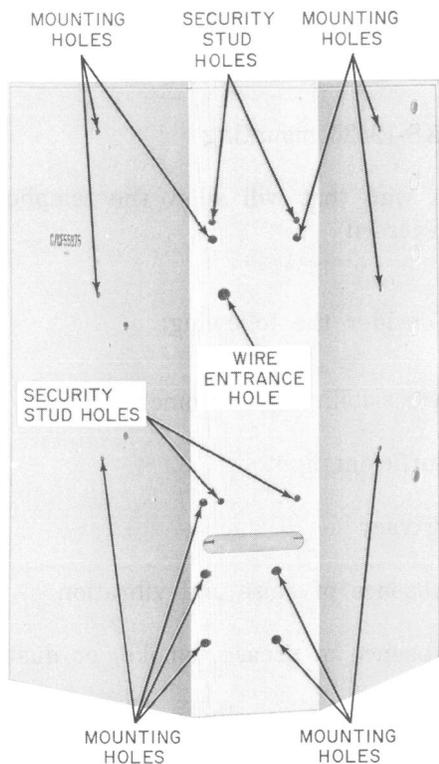


Fig. 8—Location of Mounting, Security Stud, and Wire Entrance Holes

3.04 Refer to Section 506-110-103 for use of security studs.

Note: Security studs and mounting screws are not furnished and must be ordered separately.

WALL APPLICATIONS

Flush Wall Mounting

3.05 When installing the coin telephone in a wall, observe the dimensions shown in Fig. 3 before cutting a hole.



Ensure that the lip of the faceplate overlaps the wall around the hole. If security studs are used, top of hole must be enlarged approximately 1/2-inch and a false panel provided to close the extra opening.

KS-19426 Mounting

3.06 The KS-19426 mounting can be installed on a flat wall with the use of a KS-19426, List 5 support. See Section 508-470-100.

3.07 The KS-19426 mounting can be installed in a corner with the use of a KS-19426, List 4 support. See Section 508-470-100.

3.08 Secure the coin telephone to the KS-19426 mounting as directed in Section 508-470-200, using four P-12E798 security studs and 1/4-20 by 5/8 RHM screws as required.

BOOTH APPLICATIONS

KS-19206 Curved Door Booth

3.09 Use KS-19206, List 7 coin telephone installation kit. Refer to Section 508-115-200.

3.10 Use four P-10E070 security studs and 1/4-20 by 5/8 RHM screws as required.

3.11 Install a 127B cover over the coin telephone using three No. 8-32 by 3/16 RHM screws. The cover must be ordered separately; screws are furnished with cover.

KS-19340 Wood Booth

3.12 Use KS-19340, List 54 backboard, four P-10E070 security studs, and 1/4-20 by 5/8 RHM screws as required. Refer to Section 508-111-200.

3.13 Install a 127A cover over the coin telephone using three No. 8-32 by 3/16 RHM screws. The cover must be ordered separately; screws are furnished with cover.

KS-19442 Glass Deluxe Booth

3.14 Use KS-19340, List 54 backboard, four P-10E070 security studs, and 1/4-20 by 5/8 RHM screws as required. Refer to Section 508-231-100.

3.15 Repeat step 3.13.

MOUNTING APPLICATIONS

KS-19426 Walk-Up, Drive-Up Mounting

3.16 Use backboard furnished with KS-19426, List 1 housing, four P-12E798 security studs, and 1/4-20 by 5/8 RHM screws as required. Refer to Section 508-470-200.

WIRING

3.17 Select and place wire in accordance with sections covering inside wiring. Wire all coin telephones with triple conductor station wire to provide individual ground for each station. The ground connection for this conductor must be the same one used for signaling ground.

3.18 Feed inside wire through wire entrance hole (Fig. 8) and connect to terminals T, R, and GRD on TB1. Dress wire away from door.

3.19 Conceal wiring near telephone. If this is not possible, use approved moulding or tubing. If moulding or tubing is not used, GS-type wire must be taped with friction tape. JKT wire need not be taped.

3.20 Locate any terminating apparatus, such as protectors, connecting blocks, etc, where they will be inaccessible to person using coin telephone.

INSTRUCTION CARD

Note: Instruction cards are not furnished and must be procured locally.

3.21 To install card:

- (1) Insert in faceplate.
- (2) Push up with fingers.
- (3) Snap card in place.
- (4) Ensure that card is seated properly in slot.

3.22 To remove card:

- (1) Push up with fingers.

- (2) Pry top out with small screwdriver or equivalent.

NUMBER CARD (1235G)

Note: The number card is furnished locally.

3.23 Pinch card with fingers and insert in slot provided on front of faceplate.



After installation has been completed, refer to Section 506-900-501 (Booklet) and verify that the coin telephone is operating correctly.

4. MAINTENANCE

Note 1: For maintenance of chute and coin relay, refer to Section 506-110-301.

Note 2: No field maintenance of either dial is recommended. Replace if defective.

Note 3: If electrical difficulties are encountered, refer to Section 506-321-400 (connections for 235G), Section 506-321-420 (connections for 1235G), or Section 506-900-501 (Booklet) (coin telephone maintenance checks).

Note 4: A P11C test cord (Fig. 6) is used to connect plug (P1) to jack (J1) which allows the set to be operative while visual inspection is made.

DOOR AND LINER ASSEMBLY

4.01 To open door:

- (1) Unlock 29A lock (Fig. 1 or 2).
- (2) Insert 719A tool into slot, turn 1/4-turn clockwise, and release locking mechanism.

Note: Do not open door fully until plug (P1) is disconnected (Fig. 4).

- (3) Open door approximately 3 inches and disconnect P1 from J1.
- (4) Door can now be fully opened.

Coin Twister Assembly

4.02 To remove coin twister assembly:

- (1) Loosen screws in middle of twister assembly (Fig. 9).
- (2) Lift P-27E847 coin twister (top section) up and out.
- (3) Remove screws and nuts holding P-44E390 coin twister frame assembly (Fig. 9).
- (4) Lift frame assembly up and off.
- (5) Install, using reverse procedure.

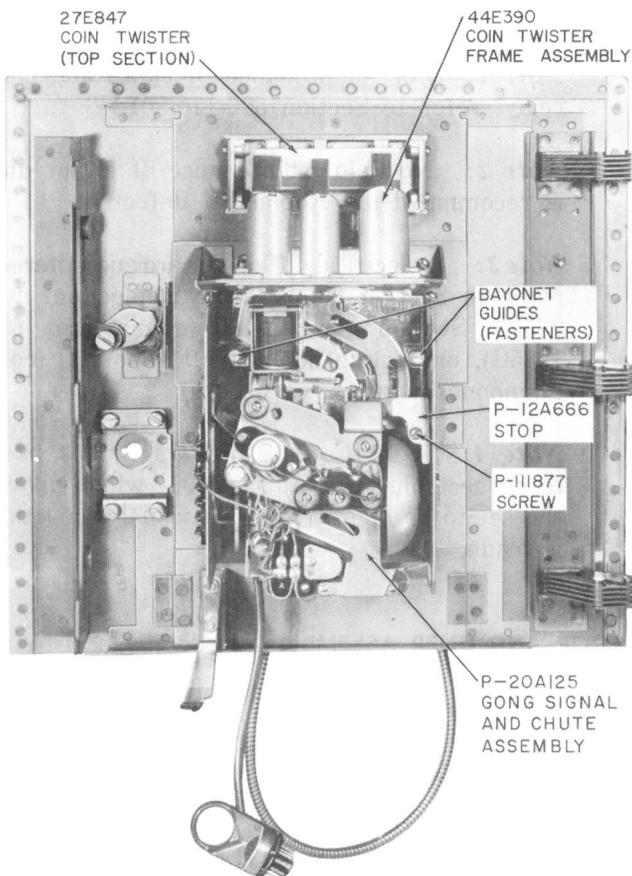


Fig. 9—Rear View of Door and Liner Assembly

Gong Signal and Chute Assembly

4.03 To remove gong signal and chute assembly:

- (1) Disconnect wires as follows:

235G		1235G	
WIRE COLOR	DISCONNECT FROM TERM.	WIRE COLOR	DISCONNECT FROM TERM.
G	A of chute assem.	G	A of chute assem.
G	X of chute assem.	G	E of chute assem.
Y	E of chute assem.	Y	E of chute assem.
BR	BR of TB4	BR	BR of TB4

- (2) Remove P-111877 screw and P-12A666 stop (Fig. 9)
- (3) Loosen P-25E445 screw in lower left corner of chute assembly (Fig. 10). Exercise care not to loose P-12A681 spring located under screw head.
- (4) Loosen two P-11E183 bayonet guides on chute assembly (Fig. 9).
- (5) Lift gong signal and chute assembly off.
- (6) Install, using reverse procedure.

Baffle and Hinge Assembly

4.04 To remove baffle and hinge assembly (Fig. 4):

- (1) Disconnect all wires from TB4
- (2) Remove retainer ring from rear of the coin release shaft.
- (3) Remove four P-181641 screws, four P-285080 lockwashers and lift baffle and hinge assembly off.
- (4) Install, using reverse procedure.

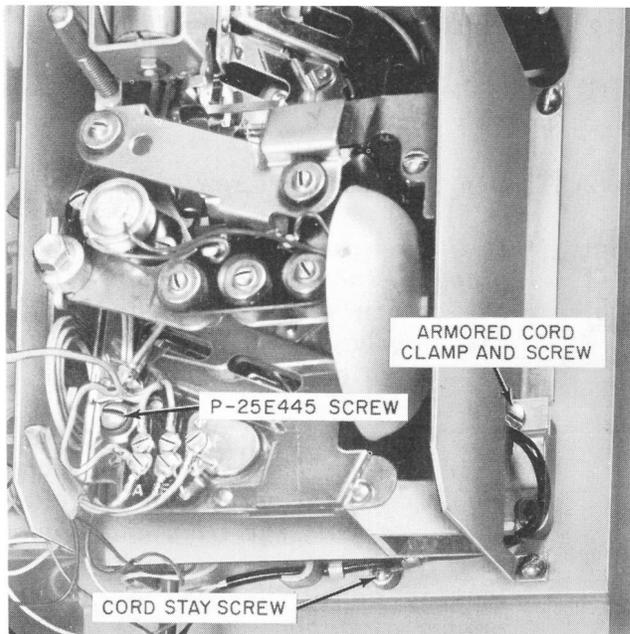


Fig. 10—Location of Cord Stay Screw and Cord Clamp

Dial and Housing Assembly

4.05 To remove dial housing:

- (1) Remove coin twister assembly (4.02).
- (2) Remove gong signal and chute assembly (4.03).
- (3) Remove baffle and hinge assembly (4.04).
- (4) Remove four mounting screws in dial housing.
- (5) Lift dial housing off.

Note: Handset cord will pull through cover to enable access to dial without disconnecting cord.

- (6) Install, using reverse procedure.

4.06 To remove dial:

- (1) Remove dial housing (4.05).
- (2) Disconnect dial leads from TB2 (dial terminal board).

- (3) Loosen two mounting screws on sides of dial through access holes in dial housing.
- (4) Lift dial off.

4.07 To install dial:

- (1) Use reverse procedure in 4.06 and make connections as follows:

235G		1235G	
WIRE COLOR	CONNECT TO	WIRE COLOR	CONNECT TO
Y	TB2-1	G	TB2-1
W	TB2-2	W	TB2-2
G	TB2-2	BL	TB2-3
BL	TB2-3	O-BK	TB2-4
W	TB2-9	R	TB2-5
Y	TB2-11	R-G	TB2-6
		O-R	TB2-8
		BK	TB2-11

Handset

4.08 To remove handset:

- (1) Remove gong signal and chute assembly (4.03).
- (2) Disconnect handset leads from TB4.
- (3) Loosen cord stay screw (Fig. 10).
- (4) Remove screw and cord clamp from armored cord.
- (5) Pull cord out front of cover.
- (6) Install, using reverse procedure.

HOUSING ASSEMBLY

Ringer

4.09 To remove ringer:

- (1) Disconnect ringer leads from TB3.
- (2) Remove two screws.
- (3) Lift ringer up and off.

4.10 To install ringer:

- (1) Mount ringer in place and secure with two screws.
- (2) Connect ringer leads as follows:

WIRE COLOR	CONNECT TO
BK	TB3-R
R	TB3-T
S-R	TB3-A
S	TB3-K

Return Chute Assembly

4.11 To remove return chute assembly (Fig. 11):

- (1) Loosen mounting screw.
- (2) Lift assembly up and out.

Note: It may be necessary to remove P-28E453 clip.

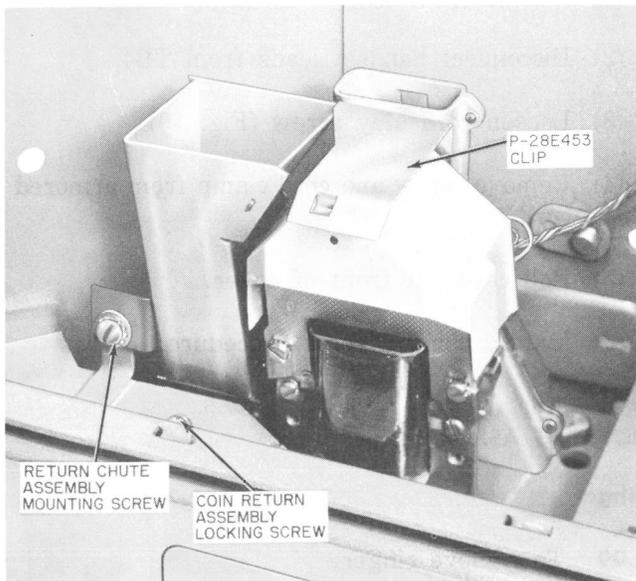
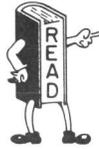


Fig. 11—Coin Relay and Return Chute Assembly

4.12 To install return chute assembly:

- (1) Slide the assembly in and down until it is properly seated.
- (2) Tighten the mounting screw.



If the return chute is not installed properly, there can be a gap between the return chute and the hopper assembly large enough to allow coins to drop into the housing. Refer to Fig. 12 for this gap.

This gap may be observed by placing a light down the opening in the return chute, tripping the relay and hopper assembly to the reject position, and looking down the opening of the hopper assembly. Fig. 13 is a bird's eye view of what can be observed.

If this gap exists, loosen the mounting screw and reposition the return chute. Check again with a light (Fig. 13) and tighten screw when proper alignment is obtained.

Coin Relay

4.13 To remove coin relay (Fig. 11):

- (1) Remove return chute assembly (4.11).
- (2) Remove P-28E453 clip and dust cover.
- (3) Disconnect leads from coin relay.
- (4) Remove four screws and remove coin relay.

4.14 To install coin relay:

- (1) Place coin relay in position and secure with the four screws removed in 4.13 (4).

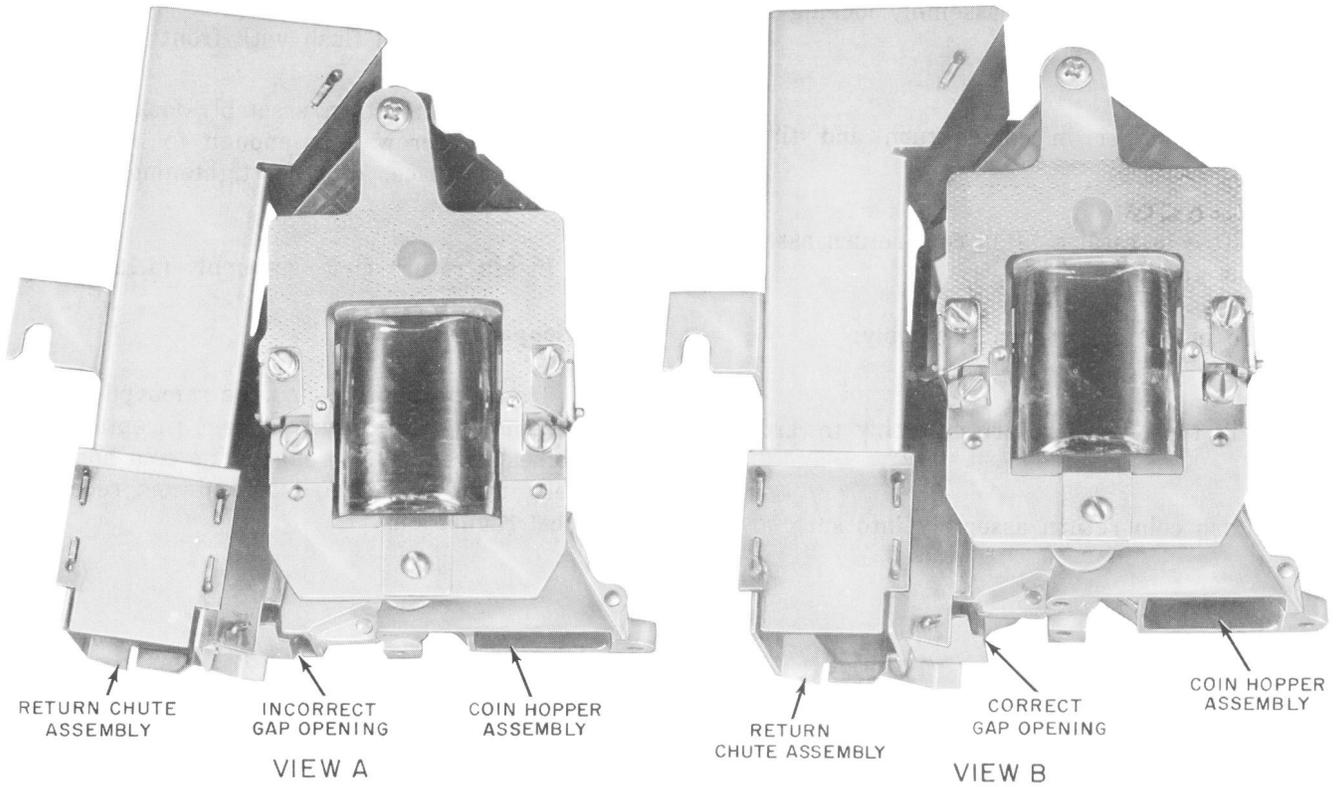


Fig. 12—Alignment of Return Chute Assembly

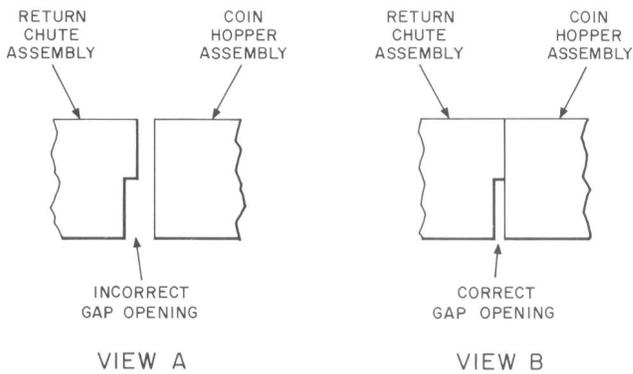


Fig. 13—Relative Position of Return Chute Assembly and Coin Hopper Assembly As Viewed Down Hopper Throat

(2) Connect leads to coin relay as follows:

WIRE COLOR	CONNECT TO
R	1
R	2
G-Y	3
O	G

(3) Install dust cover and P-28E453 clip (Fig. 11).

(4) Install return chute assembly (4.12).

Coin Return Assembly

4.15 To remove coin return assembly:

(1) Remove return chute assembly (4.11).

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- (2) Remove coin return assembly locking screw (Fig.11).
- (3) Insert finger in coin return and tilt top forward.
- (4) Lift coin return. Pull coin return assembly out and up.

4.16 To install coin return assembly:

- (1) Tilt top of coin return assembly toward set.
- (2) Push coin return assembly into set.

(3) Push in and down on bottom of coin return assembly until flush with front of housing.

(4) Install coin return assembly locking screw. Tighten screw only enough to hold return assembly in place. Further tightening will bend screw.

(5) Install return chute assembly (4.12).

Coin Hopper

4.17 The coin hopper cannot be removed without removing 4A door and coin receptacle. If it becomes necessary to remove the coin hopper in the field, remove the 4A door and coin receptacle per local regulations.