

REFERENCE
COIN COLLECTORS
235-, 236-, AND 1235-TYPE

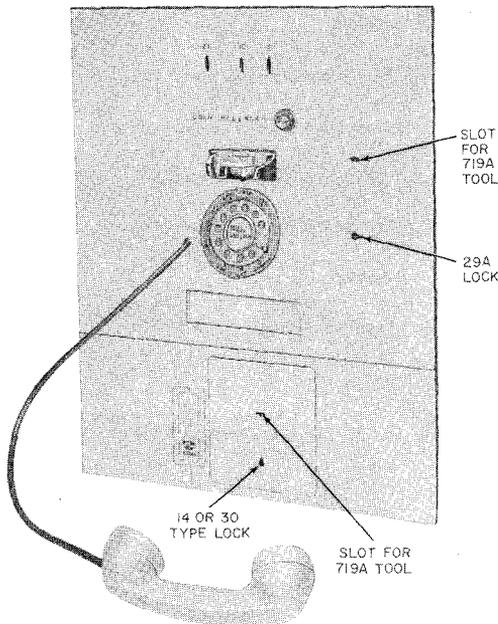


Fig. 1—235G Coin Collector

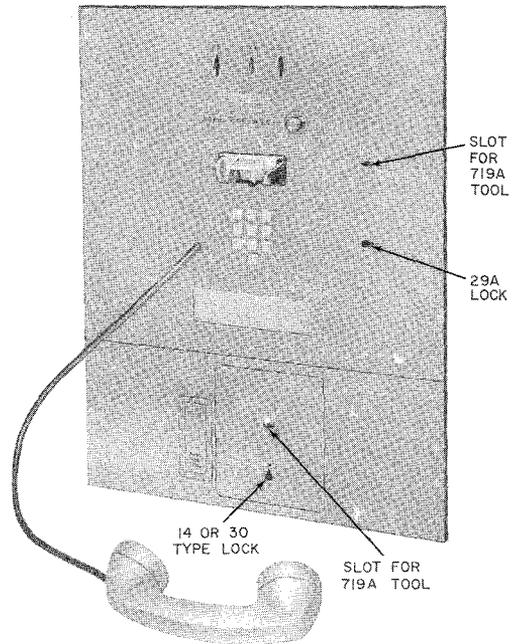


Fig. 2—1235G Coin Collector

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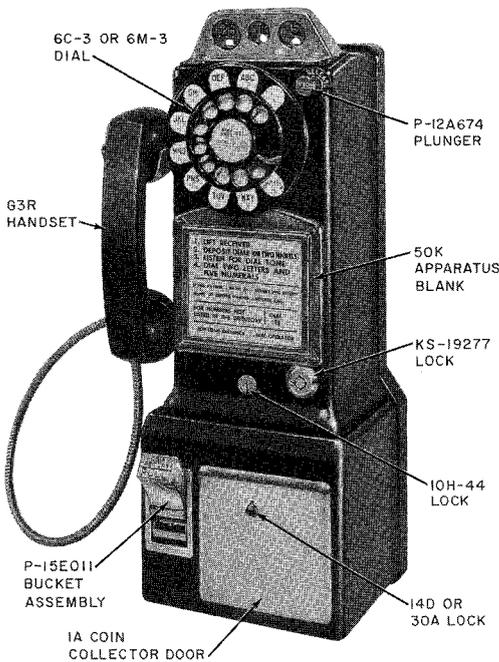


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1. GENERAL

1.01 Information in this section was formerly contained in the following sections which are hereby canceled:

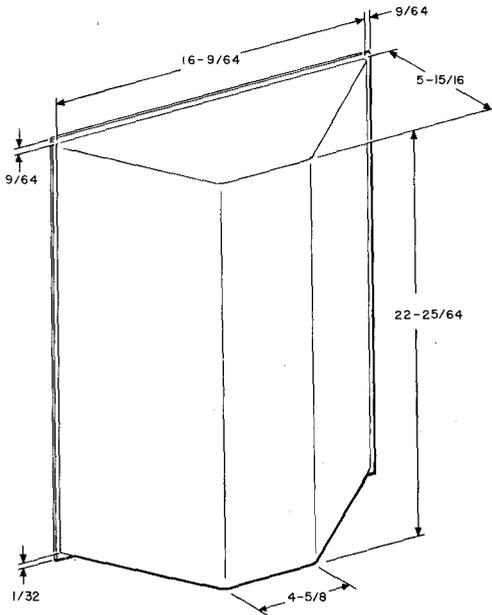
- 506-321-100
- 506-322-100

1.02 The 235G(MD) and 1235G(MD) coin collectors (Fig. 1 and 2) are stainless steel, multislot, panel phones. They are similar except the 235G has a rotary dial; the 1235G has a 10-button TOUCH-TONE® dial.

1.03 The 236G (MD) coin collector (Fig. 3) is a modified 200-type coin collector, having the

transmission network and ringer included in the upper housing and backplate which eliminates the need for a subscriber set.

1.04 Overall dimensions of the panel phones are shown in Fig. 4.



NOTES:
1. ALL DIMENSIONS SHOWN ARE IN INCHES.
2. THE SWITCHHOOK AND HANDSET EXTEND 2-3/4 INCHES IN FRONT OF THE FACEPLATE.

TPA 519423

Fig. 4—Rear View of 235G or 1235G Showing Dimensions

1.05 Overall dimensions of the 236G are:

- Width—9-13/64 inches
- Height—18-21/64 inches
- Depth—6-23/32 inches

1.06 This section does not include information on Dial Tone First service.

2. IDENTIFICATION

A. 235G and 1235G

Ordering Guide

- Collector, Coin, 235G-67A
- Collector, Coin, 1235G-67A

2.01 Replaceable Components for 235G (Fig. 5)

- 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 coin twister (top section)

- 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

2.02 Replaceable Components for 1235G (Fig. 5)

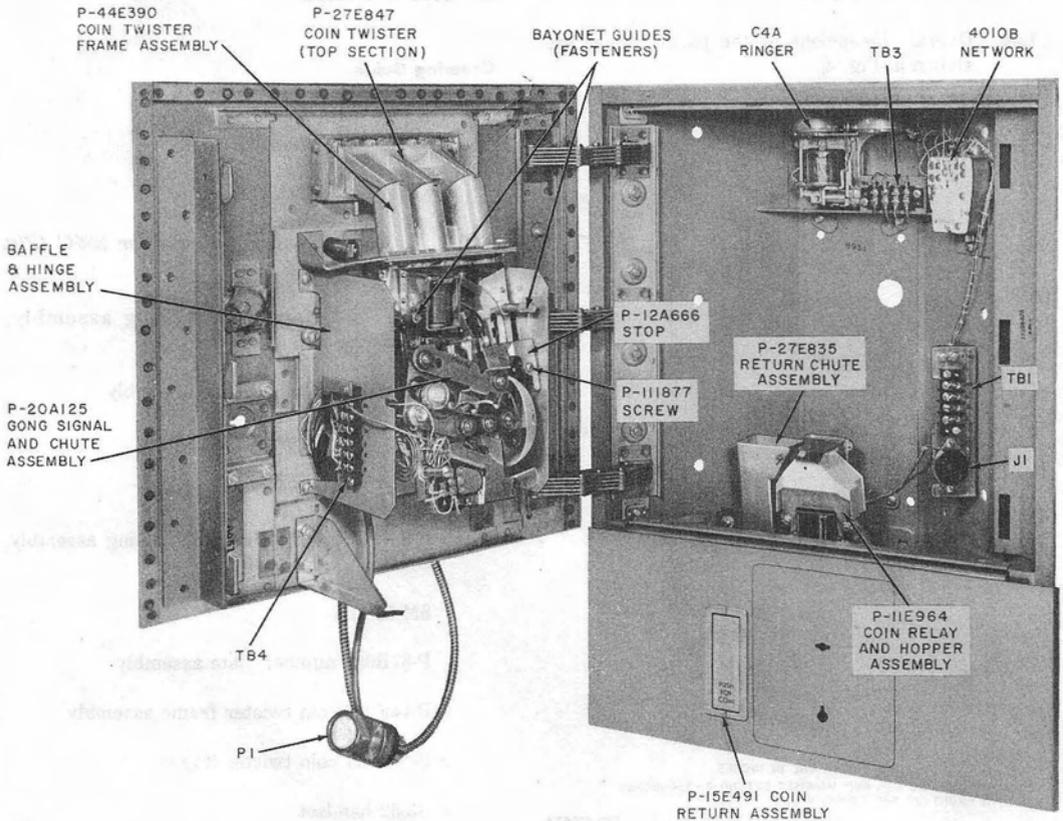


Fig. 5—235G or 1235G Coin Collectors—Interior View

- 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

All other components same as for 235G

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. 6)
- P11C test cord (Fig. 7) (used for testing with door and liner assembly open)
- 127A-67 or 127B-67 cover (Fig. 8) (for use over the coin telephone set in installations not flush mounted)

* Order must specify authorized recipient to whom keys are to be sent.

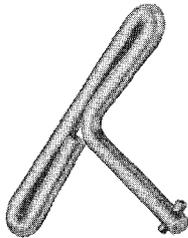


Fig. 6—719A Tool

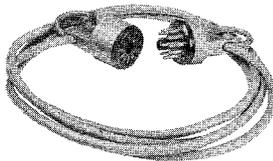
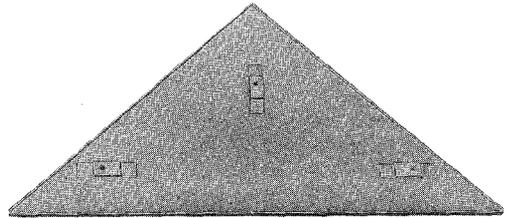
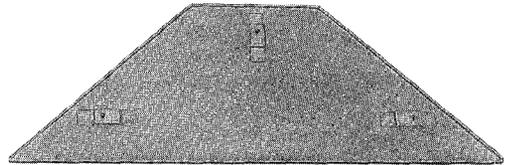


Fig. 7—P11C Test Cord



127A-BOTTOM SIDE



127B-BOTTOM SIDE

Fig. 8—127A and 127B Covers

Design Features

- 2.04** 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.
- 2.05** Provisions are made for use of four security studs.
- 2.06** Coin return is designed to defer stuffing.
- 2.07** Has transmission characteristics equivalent to 500-type telephone set.
- 2.08** Arranged to accept 1B coin receptacle.
- 2.09** 1D or 1E coin receptacle cover may be used.

B. 236G

Ordering Guide

- Collector, Coin 236G-3, 236G-44, 236G-51, or 236G-60

2.10 Replaceable Components Fig. 3, 9, 10, and 11)

- P-89E500* lower housing unit assembly, consisting of:
 - P-11E964 coin relay-hopper assembly
 - P-14E438 return chute assembly
 - P-15E011 bucket assembly
 - P-89E400* lower housing and base assembly
- P-89E000* upper housing assembly, consisting of:
 - P-20A125 gong signal and chute assembly
 - 6C-3 or 6M-3 dial**
 - P-29E299 terminal plate assembly
 - P-28E806 network and bracket assembly
 - P-29E302 connector assembly
 - P-12A674 plunger and P-16A760 hinge assembly
 - 10H-44 lock (key not furnished)
 - 452B capacitor
- P-89E100* backplate assembly, consisting of:
 - P-81R700* backplate
 - P-29E307 ringer assembly
 - P-16A741 switchhook arm assembly
 - P-29E182 switchhook spring assembly
 - P-12E855 switchhook assembly
 - P-44E616 bracket and connector assembly
 - G3R handset

1A backplate

* The last two digits specify color suffix code used (-03 black, -51 green, or -60 light beige).

** The 6C-3 dial is used with a black coin collector. The 6M-3 dial is used with a green or light beige coin collector.

2.11 Associated Apparatus (order separately)

- 61R filter
- 1A type coin collector door
- 1B coin receptacle
- 1D coin receptacle cover
- P-372083 alarm switch assembly
- 257A alarm switch assembly
- 14D or 30A lock and keys*
- 8B-44 card holder
- 227A alarm switch assembly
- KS-19277 lock*

* Order must specify authorized recipient to whom keys are to be sent.

Design Features

2.12 The 236G coin collector is equipped with a jack and plug for electrically connecting the upper and lower housings.

2.13 The upper housing is secured by a 10H-44 lock plus a KS-19277 lock. The 1A coin collector door is secured by a 14D or 30A lock.

2.14 The 1A backplate, has provisions for four security studs.

2.15 The coin collector is equipped with a pull bucket type coin return chute and a coin release pushbutton and is designed to accept U.S. nickels, dimes, and quarters.

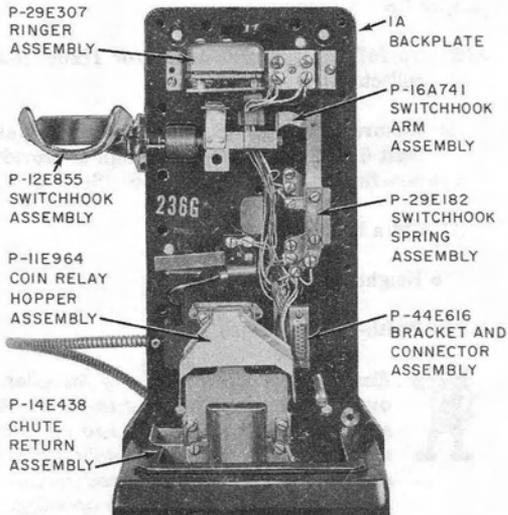


Fig. 9—P-89E100 Backplate Assembly

2.16 The coin collector is arranged for 10-cent operation with an initial deposit of at least one dime (or two nickels) required for operation.

2.17 A P-339098 cutover clip may be ordered separately and installed on the coin chute assembly to convert the coin collector to 5-cent operation. The clip holds the electromagnet arm in its operated position.

2.18 Coins deposited give distinctive gong signals audible to the operator. Coins may be collected or refunded while patron is on line or at the completion of the call. Coins are returned when deposited in the wrong slot.

2.19 If a call is abandoned after an initial deposit of a single nickel, the coin will be returned when handset is restored or when the coin release pushbutton is depressed. A nickel deposited before the handset is removed will be returned.

2.20 If a call is abandoned after an initial deposit has been made the coin(s) will be returned after the handset is restored. A dime or quarter deposited before the handset is removed will be returned only by removing the handset from the switchhook and restoring it again.

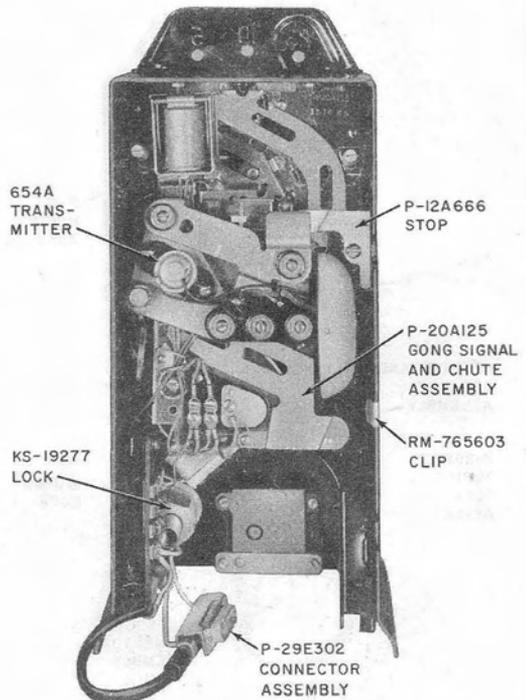


Fig. 10—P-89E000 Upper Housing Assembly

2.21 The coin collector is designed for mounting in telephone booths or walk-up, drive-up mountings. It may be also be mounted on a wall by means of a 144D or 174A backboard.

2.22 The 236G coin collector is arranged to accept the 1B coin receptacle (cash box).

Optional Ringer

2.23 The G1C ringer mounted in the 236G coin collector may not be loud enough in semipublic locations where the ambient noise is at a high level. A 687A subscriber set equipped with a C4 ringer may be used to rectify this condition.

2.24 Refer to Division 506, section entitled; Service, Coin Collectors, 236G for connections of the 687A subscriber set.

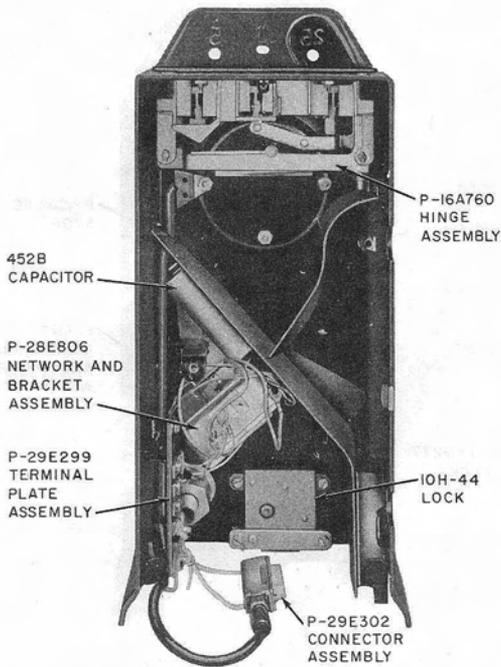


Fig. 11—Upper Housing With Gong Signal and Chute Assembly Removed

3. INSTALLATION

A. 235G and 1235G

Location

3.01 Consider the following:

- Visibility, accessibility, and possible accident hazards in selecting location

3.02 Avoid locations over or adjacent to counters, showcases, or other property which could be accidentally damaged by falling handsets.

Application

3.03 To fully recess a 235G and/or 1235G coin collector in a wall:

(1) Ensure that the wall is deep enough (at least 6 inches) and strong enough to provide a secure flush mounted installation. (See Fig. 4.)

(2) Cut a hole in the wall

- Height—22-1/2 inches

- Width—16-1/4 inches



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 (procured locally) provided to close the extra opening.

3.04 Refer to Table A for all other applications.

Security Studs

3.05 Refer to Fig. 12 for mounting screw and security stud locations in the coin collector.

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

Wiring

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

3.07 Feed inside wire through wire entrance hole (Fig. 12) and connect to terminals T, R, and GRD on TB1. Dress wire away from coin collector door.

3.08 Wiring should not interfere with passage of coins through coin chute or with any moving parts.

TABLE A
APPLICATION OF 235G AND 1235G COIN COLLECTORS

BOOTH, SHELF, OR MOUNTING	BACKBOARD REQUIRED	SECURITY STUDS		COVER (NOTE 1)
		P-10E070 (SHORT SHOULDER- LONG THREAD)	P-12E798 (LONG SHOULDER- LONG THREAD)	
KS-19206 Booth	KS-19206, List 7 Installation Kit	4		127B-67
KS-19340 Booth	KS-19340, List 54 Backboard	4		127B-67
KS-19426 Mounting	Furnished		4	
KS-19442 Booth	KS-19340, List 54 Backboard	4		127A-67
KS-20194 Shelf	Furnished	4		

Notes:

- Three No. 8-32 by 3/16 RHM screws are furnished with cover for installation.
- Seven 1/4-20 by 5/8 hardened RHM screws (P-23F790) are furnished with each coin telephone set for mounting to backboard.

3.09 Conceal wiring near coin station. If this is not practical, use approved moulding or conduit to conceal wiring.

3.10 Locate connecting block, protector or other terminating apparatus, where they will be inaccessible to the public.

Instruction Card

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

3.11 To install card:

- Insert in faceplate.

(2) Push up with fingers.

(3) Snap card in place.

(4) Ensure that card is seated properly in slot.

3.12 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.

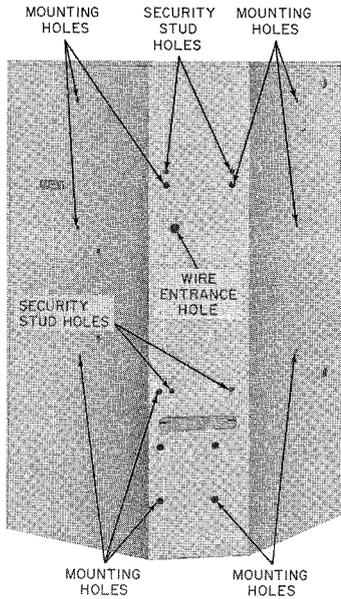


Fig. 12—Location of Mounting, Security Stud, and Wire Entrance Holes

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



After installation has been completed, verify that the coin collector is operating correctly.

B. 236G

Location

Note: The location of a coin collector should be specified by the service order or an accompanying work sheet. If a location is not specified, obtain instructions from the customer before proceeding.

3.14 Repeat 3.01

Security of Coin Station

3.15 Avoid locations where:

- Coin station can be dislodged by hard use.
- Fasteners cannot be placed in solid backing.
- Coin station can be pried loose (on round columns, door or window facings, uneven surfaces, etc.).

Application

3.16 To install the 236G coin collector on a horizontal surface such as a table or counter top, use a 139A backboard.

3.17 To install on a wall without a shelf, use a 174A backboard. See Fig. 13 for requirements.

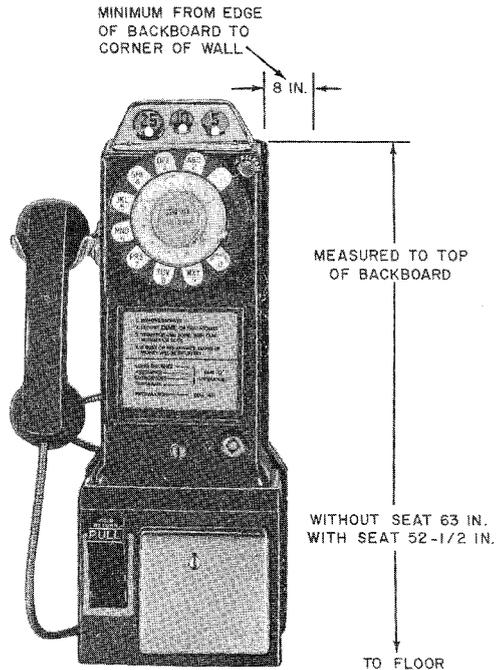


Fig. 13—Suggested Mounting Height and Clearance

3.18 Refer to Table B for all other applications.

Installing



Remove handset from switchhook before removing or replacing upper housing to avoid damage to the gate operating arm. Do not reassemble upper housing on coin first coin collectors without placing a P-10F783 cover over the coin relay.

Alarm Switches and Security Devices

3.19 Alarm switches and security devices are described in Division 506, section entitled: Service, Security Devices. The local telephone company shall regulate the installation of these devices.

3.20 Fig. 13 shows the suggested mounting height and clearance for all coin stations. Stations may be mounted at other heights to meet local conditions providing this does not create service or maintenance problems.

3.21 To mount coin station:

- (1) Place required number of screw fasteners in upper and lower mounting holes.

Note: If coin compartment is not open, the lower fasteners will be added later by the public telephone representative.

- (2) Bring wires through opening in backplate.
- (3) Avoid bowing backplate by partially tightening each screw fastener alternately.

3.22 Ground housing assembly, as follows:

(a) *Prepay open type installation*

- Connect JKT lead or GS insulated wire as shown in Fig. 14.
- Dress wire so that it will not interfere with moving parts of coin relay.

(b) *Indoor wooden booths*

TABLE B

APPLICATION OF 236G COIN COLLECTOR

BOOTH, SHELF, OR MOUNTING	BACKBOARD REQUIRED	SECURITY STUDS	
		P-10E070 (SHORT SHOULDER- LONG THREAD)	P-12E798 (LONG-SHOULDER- LONG THREAD)
KS-14611 Booth	Furnished	4	
KS-16797 Booth	Furnished		4
KS-19206 Booth	KS-19206, List 6 Installation Kit	4	
KS-19267 Shelf	Furnished	4	
KS-19340 Booth	Furnished	4	
KS-19425 Booth	Furnished		4
KS-19426 Mounting	KS-19426, List 8 Installation Kit		4
KS-19580 Booth	Furnished	4	
KS-19945 Shelf	Note 1		4

Notes:

1. A 178A-3 backboard is furnished with each KS-19945 shelf unless otherwise specified.
2. Seven 1/4-20 by 5/8 hardened RHM screws (P-23F790) are furnished with each coin telephone set for mounting to backboard.

- A 14-gauge insulated ground wire (P-12C414 ground wire assembly) is provided. (Fig. 15)

- Connect ground wire from outside grounded BX armored power cable to ventilator or blower and to housing ground screw on coin station.

(c) **Metal booths**

- Grounding is provided through mounting screws.

3.23 To ground upper housing to backplate:

- Place U-shaped spring clip on left edge of upper housing so as to contact housing contact spring (Fig. 16).

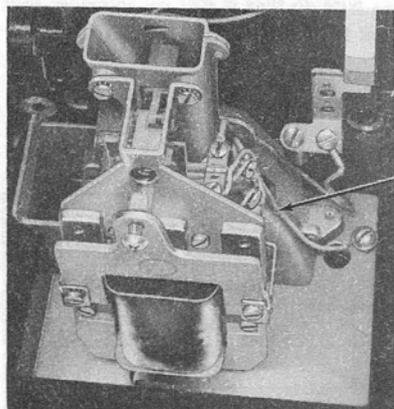


Fig. 14—Method of Grounding Coin Collector Housing Assembly, Open Type Installation

Wiring

3.24 Repeat 3.06.

3.25 Feed inside wire through wire entrance hole and connect ring lead to Y terminal on switch hook, tip lead to R terminal on switch hook, and GRD to G terminal on coin relay.

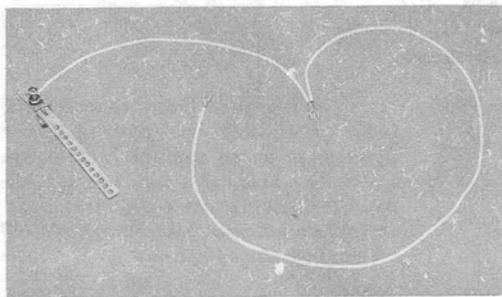


Fig. 15—P-12C414 Ground Wire Assembly

3.26 Repeat 3.08 through 3.10.

4. MAINTENANCE

A. Range Data

4.01 Refer to Table C for dial Long Line requirements.

4.02 Refer to Table D for loop ranges.

B. Operate Values of Coin Relays

4.03 Refer to Table E for old and new values.



Currently manufactured and repaired coin relays differ in operate and nonoperate values from earlier relays found in the field. These readjusted relays are marked with an asterisk() adjacent to the part number.*

C. Door and Liner Assembly (235G and 1235G)

4.04 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. 5).

- (3) Open door approximately 3 inches and disconnect P1 from J1.

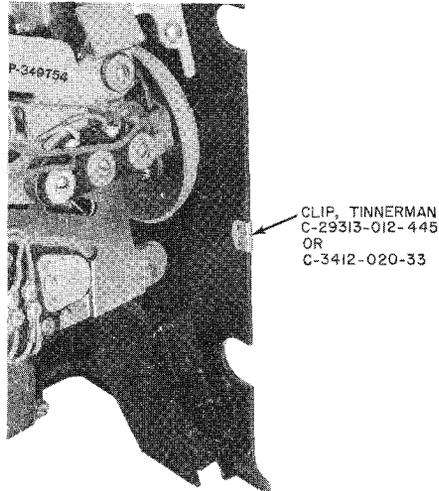


Fig. 16—Method of Grounding Upper Housing to Backplate

TABLE C

REQUIREMENTS FOR DIAL LONG LINE CIRCUITS ON COIN LINES
(FOR LIMITATIONS OTHER THAN COIN CONTROL)
(ASSUMES 300-OHM STATION SET RESISTANCE)

TYPE OF CENTRAL OFFICE	REQUIREMENTS
Step-by-Step	DLL CKT Required on Loops Over 1050 ohms
Panel	DLL CKT Required on Loops Over 885 ohms
No. 1 Crossbar	DLL CKT Required on Loops Over 1200 ohms
No. 5 Crossbar	DLL CKT Required on Loops Over 1300 ohms
No. 1 ESS	DLL CKT Required on Loops Over 1300 ohms
No. 2 ESS	DLL CKT Required on Loops Over 1300 ohms

TABLE D

**MAXIMUM ALLOWABLE LOOP RANGES FOR CENTRAL OFFICE
COIN SUPPLY VOLTAGES—COLLECT AND RETURN ONLY
(MAXIMUM GROUND RESISTANCE 50 OHMS;
MAXIMUM DC EARTH POTENTIAL ± 3 VOLTS)**

TYPE OF CENTRAL OFFICE	MINIMUM COIN VOLTAGE	LOOP RANGE WITH 48 MA. OP. RELAY	LOOP RANGE WITH 41 MA. OP. RELAY
SXS, Panel, No. 1 XBar	100 volts (100-120V)	1500 ohms	2200 ohms
SXS, Panel, No. 1 XBar	115 volts (115-120V)	2100 ohms	3000 ohms
No. 5 XBar, No. 1 ESS, No. 2 ESS	125 volts (125-135V)	2500 ohms	3400 ohms

Note: Loop Range = Conductor Loop Resistance (excluding coin telephone set resistance).

**TABLE E
OPERATE VALUES OF COIN RELAYS**

MARKING ON RELAY	OPERATING TIME	OPERATE CURRENT	NON-OPERATE CURRENT	REMARKS
P-10E786	625 \pm 75 millisec	48 milliamps	40 milliamps	Coil of restoral spring has a diameter of approximately 5/32-inch
P-13E961	(Note 1)			
P-10E786*	450 \pm 50 millisec	41 milliamps	30 milliamps	Coil of restoral spring has a diameter of approximately 9/32-inch
P-13E961*	(Note 2)			

Notes:

- 1 — The timing interval of 625 milliseconds may be compared with the time it takes for a rotary dial to return to normal after dialing digit 6.
- 2 — The timing interval of 450 milliseconds may be compared with the time it takes for a rotary dial to return to normal after dialing digit 4.

(4) Door can now be fully opened.

Note 2: A P11C test cord (Fig. 7) is used to connect plug (P1) to jack (J1) which allows the set to be operative while door and liner assembly is opened.

(2) Lift P-27E847 coin twister (top section) up and out.

(3) Remove screws and nuts holding P-44E390 coin twister frame assembly.

(4) Lift frame assembly up and off.

(5) Install, using reverse procedure.

Coin Twister Assembly

4.05 To remove coin twister assembly:

- (1) Loosen screws in middle of twister assembly (Fig. 5).

Gong Signal and Chute Assembly

4.06 To remove gong signal and chute assembly:

- (1) Disconnect wires per Table F.

- (2) Remove P-111877 screw and P-12A666 stop (Fig. 5).
- (3) Loosen P-25E445 screw in lower left corner of chute assembly (Fig. 17). Exercise care not to lose P-12A681 spring located under screw head.
- (4) Loosen two P-11E183 bayonet guides on chute assembly (Fig. 5).
- (5) Lift off gong signal and chute assembly.
- (6) Install, using reverse procedure.

TABLE F
GONG SIGNAL AND CHUTE ASSEMBLY CONNECTIONS

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

Baffle and Hinge Assembly

4.07 To remove baffle and hinge assembly (Fig. 5):

- (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 off baffle and hinge assembly.
- (4) Install, using reverse procedure.

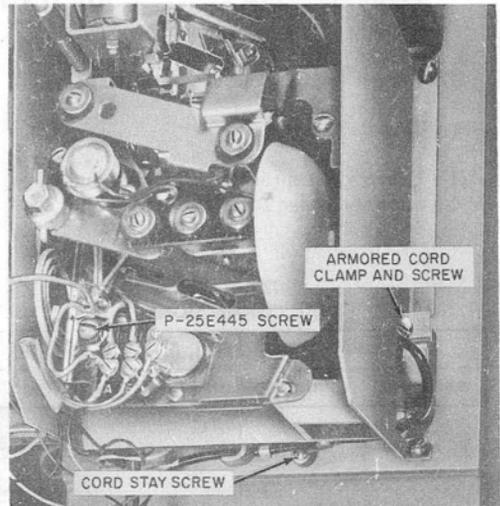


Fig. 17—Location of Cord Stay Screw and Cord Clamp

Dial and Housing Assembly

4.08 To remove dial housing:

- (1) Remove coin twister assembly (4.05).
- (2) Remove gong signal and chute assembly (4.06).
- (3) Remove baffle and hinge assembly (4.07).
- (4) Remove four mounting screws in dialing housing.
- (5) Lift off dial housing.

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

- (6) Install, using reverse procedure.

4.09 To remove dial:

- (1) Remove dial housing (4.08).
- (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 off dial.

4.10 To install dial:

- (1) Use reverse procedure in 4.09 and make connections per Table G.

TABLE G
DIAL CONNECTIONS

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

4.11 To remove handset:

- (1) Remove gong signal and chute assembly (4.06).
- (2) Disconnect handset leads from TB4.
- (3) Loosen cord stay screw (Fig. 17).
- (4) Remove screw and cord clamp from armored cord.
- (5) Pull cord out front of cover.
- (6) Install, using reverse procedure.

D. Housing Assembly (235G and 1235G)

Ringer

4.12 To remove ringer:

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

4.13 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

4.14 To remove return chute assembly (Fig. 18):

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

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

4.15 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 may be a gap between the return chute and the hopper assembly large enough to allow coins to drop into the housing. Refer to Fig. 19. This gap may be checked by directing a light down the opening of the return chute, tripping the relay and hopper assembly to the reject position, and looking down the opening of the hopper assembly. (See Fig. 20.) If a gap exists, loosen the mounting screw and reposition the return chute.

Check again with a light (Fig. 20) and tighten screw when proper alignment is obtained.

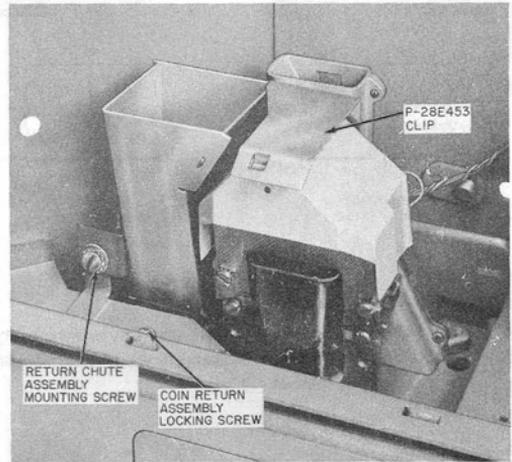


Fig. 18—Coin Relay and Return Chute Assembly

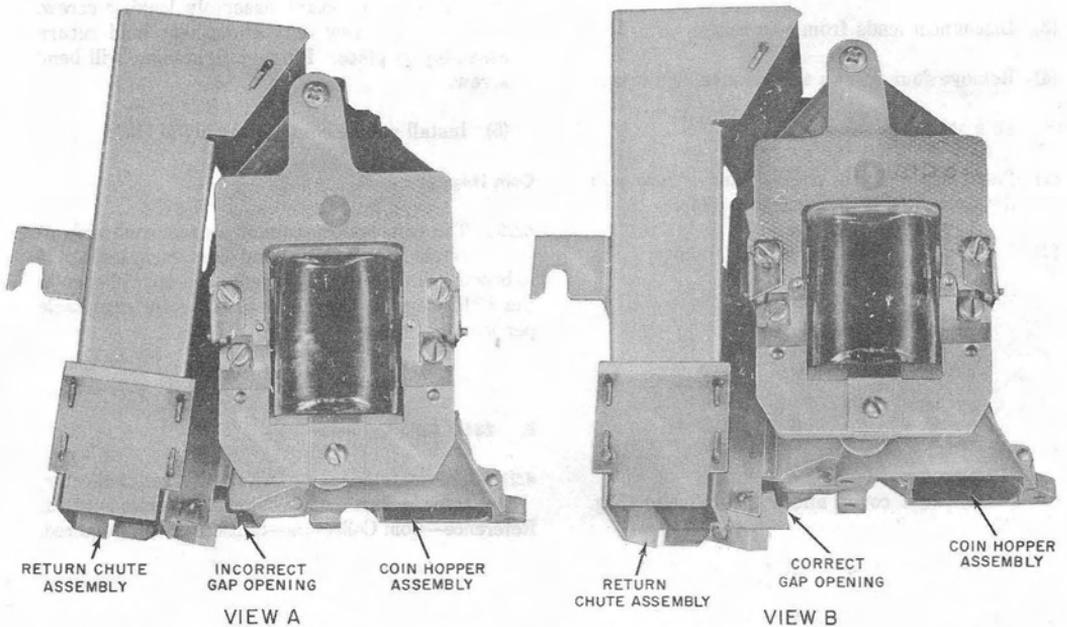


Fig. 19—Alignment of Return Chute Assembly

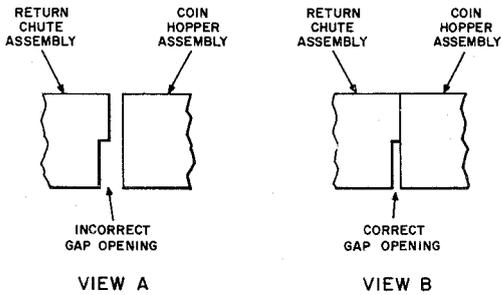


Fig. 20—Relative Position of Return Chute Assembly and Coin Hopper Assembly As Viewed Down Hopper Throat

Coin Relay

4.16 To remove coin relay (Fig. 18):

- (1) Remove return chute assembly (4.14).
- (2) Remove P-28E453 clip and dust cover.
- (3) Disconnect leads from coin relay.
- (4) Remove four screws and remove coin relay.

4.17 To install coin relay:

- (1) Place coin relay in position and secure with the four screws removed in 4.16(4).
- (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. 18).

- (4) Install return chute assembly (4.15).

Coin Return Assembly

4.18 To remove coin return assembly:

- (1) Remove return chute assembly (4.14).
- (2) Remove coin return assembly locking screw (Fig. 18).
- (3) Insert finger in coin return and tilt top forward.
- (4) Lift coin return. Pull coin return assembly out and up.

4.19 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 (4.15).

Coin Hopper

4.20 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.

E. 236G Coin Collector

4.21 For maintenance of the 236G coin collector, refer to Part 6 of Division 506 section entitled: Reference—Coin Collectors—Subscriber Set Required.