

COIN TELEPHONE — 1A1

MAINTENANCE

1. GENERAL

1.01 This section is reissued to:

- Reflect changes in design
- Revise illustrations

Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

2. CLEANING

2.01 When necessary, the surface of the 1A1 coin telephone may be cleaned with KS-7860 petroleum spirits or a suitable liquid wax such as Johnson's No. 7700 cleaning and polishing wax emulsion.

Warning: KS-7860 petroleum spirits is highly flammable. Use safety precautions while it is being used.

3. MAINTENANCE

3.01 Maintenance of the 1A1 coin telephone set is limited to cleaning switch hook, clearing of foreign objects from coin chute and replacement of the following components:

- G3P-52 handset
- 8E dial
- P-83B700 dial and housing assembly
- P-15E779 cover unit assembly
- P-15E730 return chute assembly
- P-15E718 coin hopper and relay assembly
- P-15E687 coin relay

- P-15E428 coin chute-totalizer assembly
- P-24E342 coin chute
- P-15E579 totalizer assembly
- P-15E491 coin return assembly
- P-15E437 chassis assembly
- C4A ringer
- Instruction cards
- 303K Mercury relay

COVER

3.02 To remove cover

- (1) Unlock 29A lock.
- (2) Release locking mechanism with 719A tool (see Section 506-101-201) by turning tool 1/8-turn counterclockwise.
- (3) Slide cover forward about 3 inches to obtain access to plug P1.
- (4) Disconnect plug P1 (Fig. 1) by pulling straight out as cover is carefully lifted off.

COIN CHUTE-TOTALIZER ASSEMBLY

3.03 To remove coin chute-totalizer assembly

- (1) Disconnect plug P2 (Fig. 1).
- (2) Release chute locking lever and spring.
- (3) Lift spring out of groove in coin chute.
- (4) Tilt top of coin chute forward and lift out.

SECTION 506-101-301

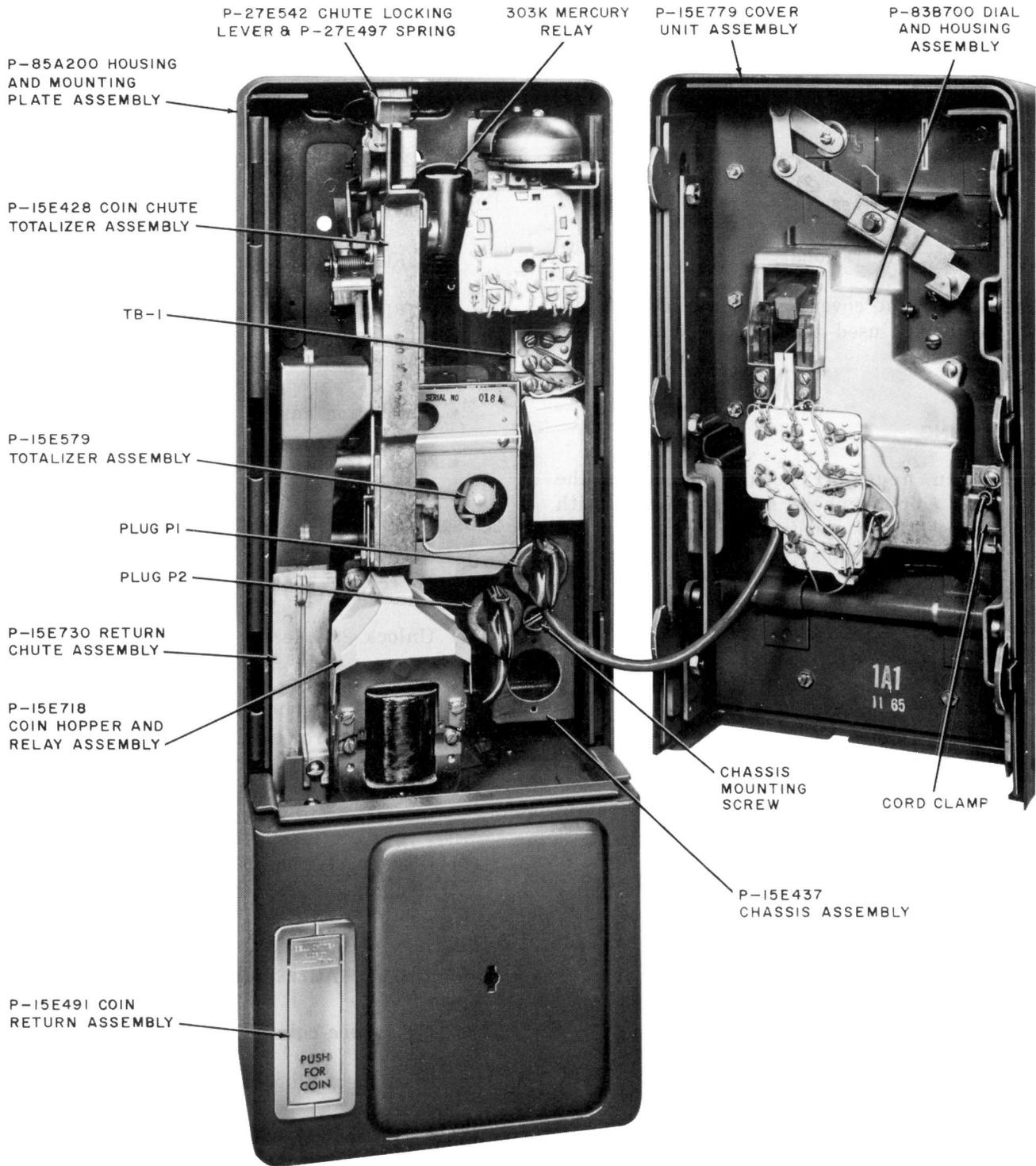


Fig. 1 — Assembly of Parts

3.04 To replace coin chute-totalizer assembly

- (1) Place assembly on pins located on rear of hopper assembly and back of housing (Fig. 2).

Note: Be sure reject chute assembly, return chute assembly, and coin return assembly line up.

- (2) Place spring in groove on coin chute.
- (3) Lock spring in place by pushing chute locking lever down.
- (4) Reconnect totalizer plug P2 to J2.

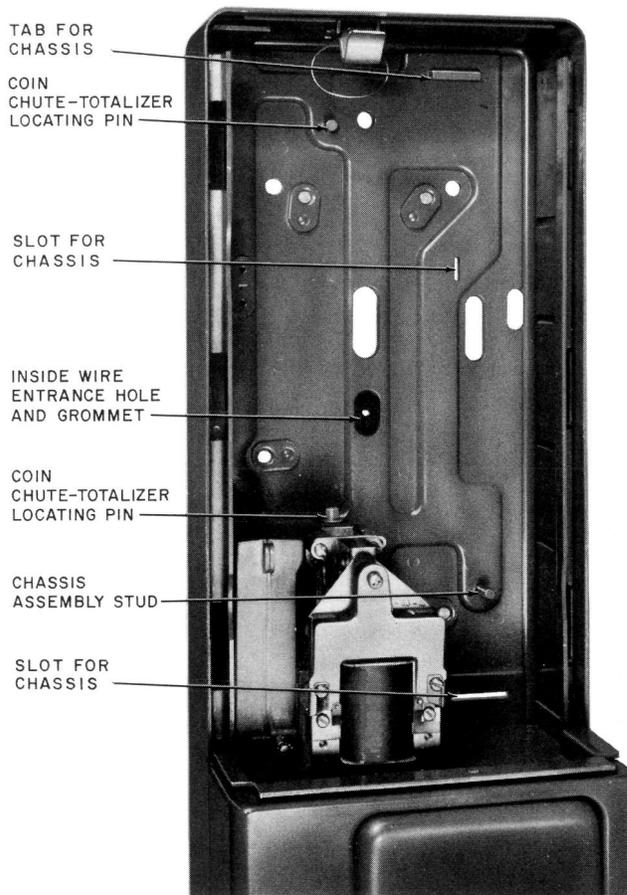


Fig. 2 — Upper Housing

TOTALIZER**3.05 To remove totalizer from coin chute**

Do not separate coin chute-totalizer assembly unless necessary. Take care not to damage totalizer arms when removing or replacing totalizer on coin chute.

- (1) Disconnect 654B transmitter by separating connector (Fig. 3).
- (2) Remove three totalizer mounting screws from chute. (These are captive screws and will not fall out of totalizer.)
- (3) Carefully remove totalizer from chute.

3.06 To replace totalizer

- (1) Line up the long guide pins on the totalizer with holes in coin chute.
- (2) Place totalizer on coin chute making sure that totalizer arms enter slots in coin chute. Also be sure short guide pins on coin chute are in hole in totalizer.
- (3) Tighten three captive totalizer mounting screws.
- (4) Reconnect 654B transmitter.

CHASSIS ASSEMBLY**3.07 To remove chassis assembly**

- (1) Remove coin chute-totalizer assembly (3.03).
- (2) Disconnect black and yellow leads from coin relay and carefully pull leads through guide hole on coin hopper.
- (3) Loosen chassis mounting captive screw (Fig. 1).
- (4) Pull chassis assembly out at bottom and slide down to remove.

3.08 To replace chassis assembly

- (1) Slide chassis under tab (Fig. 2).
- (2) Seat chassis tabs in slots.
- (3) Tighten chassis mounting captive screw.
- (4) Replace black and yellow leads on coin relay after threading through hole in hopper. Connect yellow lead to terminal G and black lead to terminal 3 of coin relay.
- (5) Replace coin chute-totalizer assembly (3.04).

COIN RELAY

3.09 To remove coin relay

- (1) Disconnect black and yellow leads.
- (2) Remove two screws on top front of coin relay (Fig. 4).

- (3) Remove two hex head screws on sides of coin relay.

- (4) Check that hopper trigger (Fig. 5) is in horizontal (up) position and pull off coin relay. Take care not to damage hopper trigger.

3.10 To replace coin relay

- (1) Move vane on hopper to left or collect position.
- (2) With hopper trigger in nonoperated position (up), move relay into position until trigger enters T-shaped slot in hopper and trap lever tab just enters opening in selector card.
- (3) Press down slightly on ear on left side of selector card and move armature forward manually to its operated position. Hold armature in this position.

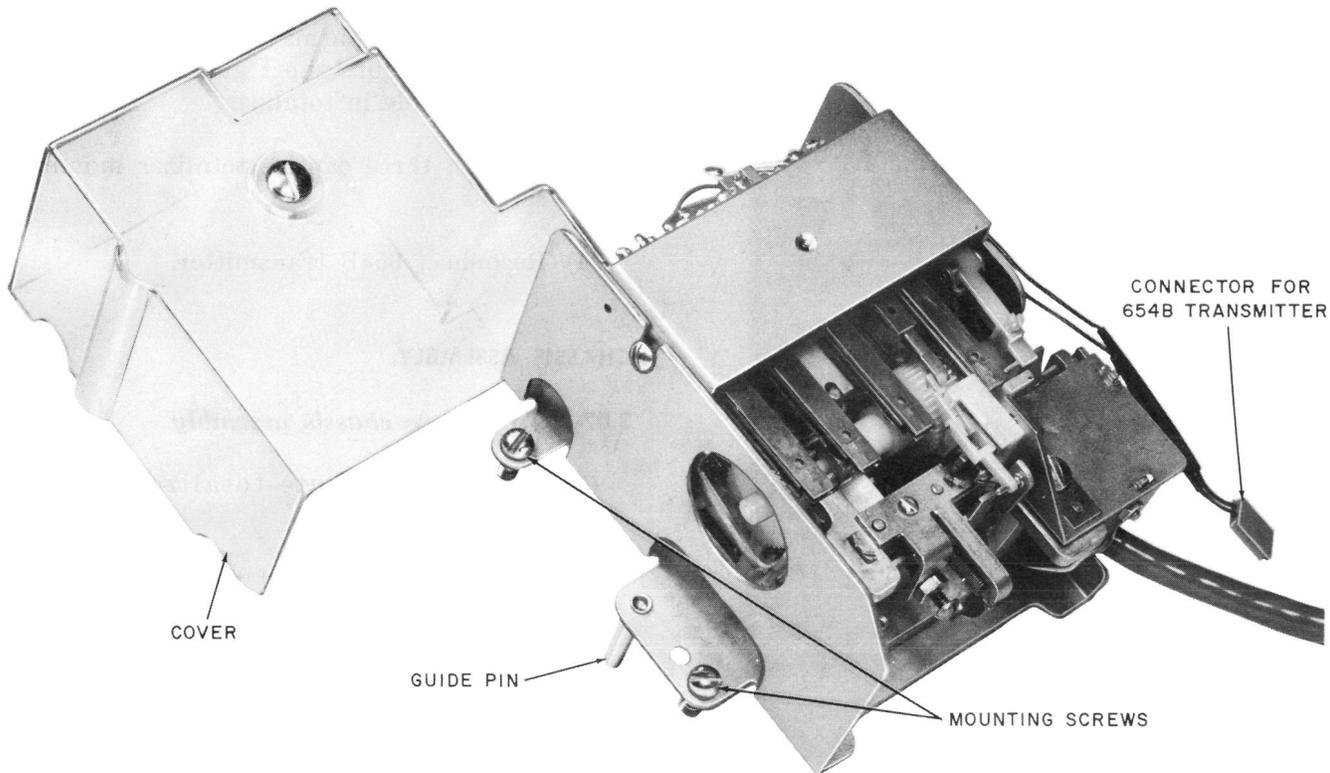


Fig. 3 — Totalizer

- (4) Move coin relay forward until square stem on vane enters hole in cam and mounting screw holes line up.

Note: Do not attempt to install relay if trigger support bracket (Fig. 4) is so distorted that mounting holes do not engage bosses on hopper.

- (5) Place and tighten evenly two mounting screws in top of coin relay and two hex head mounting screws in each side of relay.
- (6) Make sure that trigger, armature, trap, and vane operate without binding.
- (7) Reconnect yellow lead to terminal G and black lead to terminal 3.

RETURN CHUTE ASSEMBLY

3.11 To remove return chute assembly

- (1) Remove coin chute-totalizer assembly (3.03).
- (2) Loosen screw on return chute assembly (Fig. 4).
- (3) Lift assembly up and off.

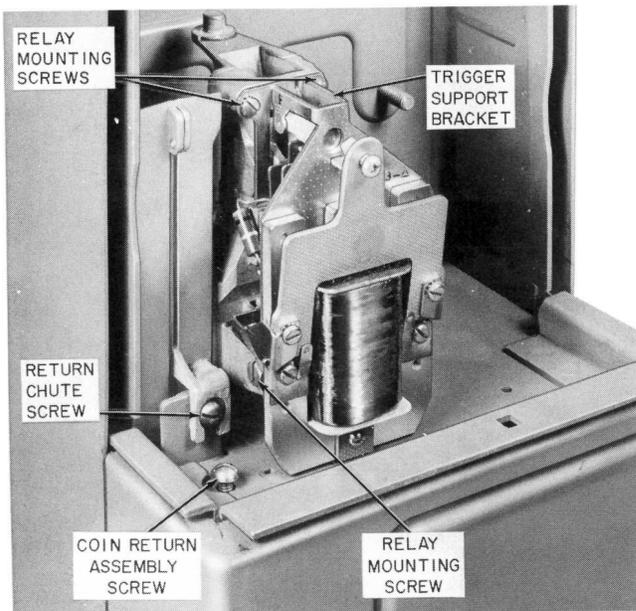


Fig. 4 — Coin Relay and Return Chute

- 3.12 To replace return chute assembly, reverse procedure.

COIN RETURN ASSEMBLY

3.13 To remove coin return assembly

- (1) Remove coin chute-totalizer assembly (3.03).
- (2) Remove return chute assembly (3.11).
- (3) Remove coin return assembly locking screw (Fig. 4).
- (4) Insert finger in coin return and tilt top forward.
- (5) Lift coin return. Pull coin return assembly out and up.

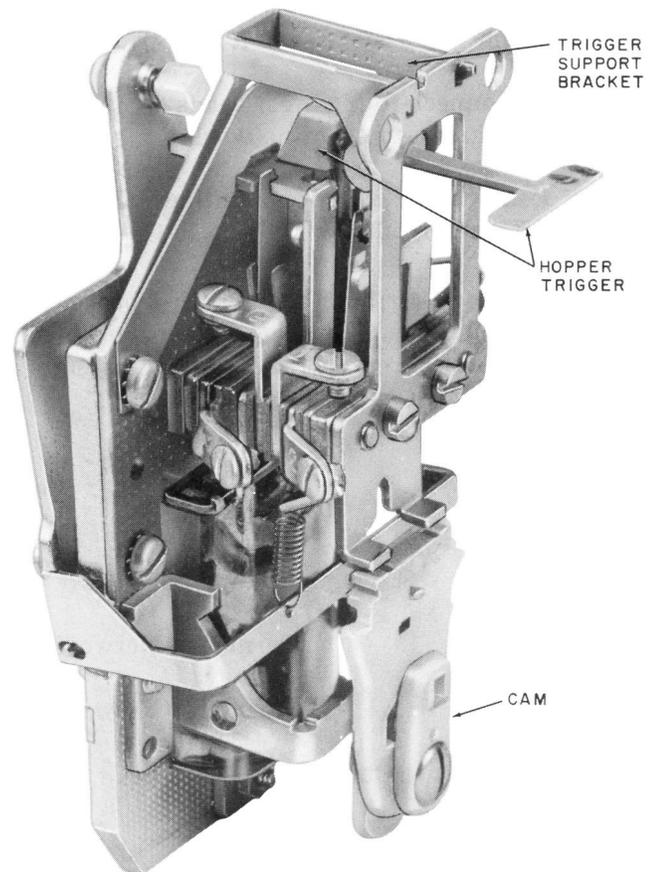


Fig. 5 — Coin Relay

3.14 To replace 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.

RINGER

3.15 To remove C4 ringer

- (1) Remove coin chute-totalizer assembly (3.03).
- (2) Remove chassis assembly (3.07).
- (3) Disconnect four ringer leads — two from TB1 and two from network.
- (4) Remove two ringer mounting screws and lift ringer off.

3.16 Replace C4 ringer by reversing procedure, making sure that locating pin on bottom of ringer is in grommet on chassis assembly. Make connections as follows:

WIRE COLOR	CONNECT TO
BK	TB1-T
R	TB1-R
S	Term. A (Network)
S-R	Term. K (Network)

DIAL HOUSING AND DIAL

3.17 To remove dial housing

- (1) Remove four mounting screws in dial housing (Fig. 6).

- (2) Lift dial housing off.

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

3.18 To replace dial housing, reverse procedure.

3.19 To remove dial

- (1) Remove dial housing (3.17).
- (2) Disconnect dial leads from TB2.
- (3) Loosen two mounting screws on sides of dial through access holes in dial housing.
- (4) Lift dial off.

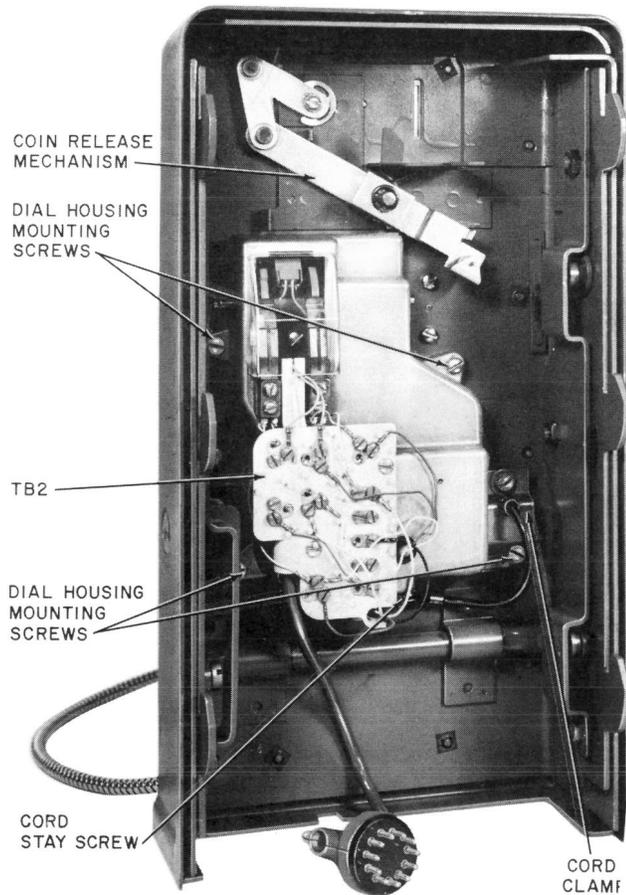


Fig. 6 — Cover Assembly

3.20 To replace dial, reverse procedure, making sure that dial is properly seated on four locating pins. Make connections as follows:

WIRE COLOR	CONNECT TO
BL	TB2-9
G	TB2-10
W	TB2-3
W	TB2-2

HANDSET

3.21 To remove handset

- (1) Disconnect handset leads from TB2.
- (2) Loosen cord stay screw (Fig. 6).
- (3) Remove screw and cord clamp from armored cord.
- (4) Pull cord out front of cover.

3.22 To replace handset, reverse procedure. Make connections as follows:

WIRE COLOR	CONNECT TO
R	TB2-3
BK	TB2-6
W	TB2-2
W	TB2-8

COIN HOPPER

3.23 The coin hopper can not be removed without removing cash box.

INSTRUCTION CARD

3.24 See Section 506-101-201 for instruction card replacement.

4. TESTING

4.01 See Section 506-101-201 for testing requirements.

4.02 When tests indicate foreign objects or defective coins in coin chute-totalizer assembly:

- (1) Operate coin release lever in attempt to clear coins into return chute.
- (2) If trouble does not clear, remove coin telephone cover and remove coin chute-totalizer assembly (3.03).
- (3) Swing upper plate assembly open (Fig. 7) and remove any foreign objects or stuck coins from upper portion on coin chute.
- (4) Remove totalizer from coin chute (3.05) only when necessary to clear objects that cannot be dislodged from lower portion of coin chute.

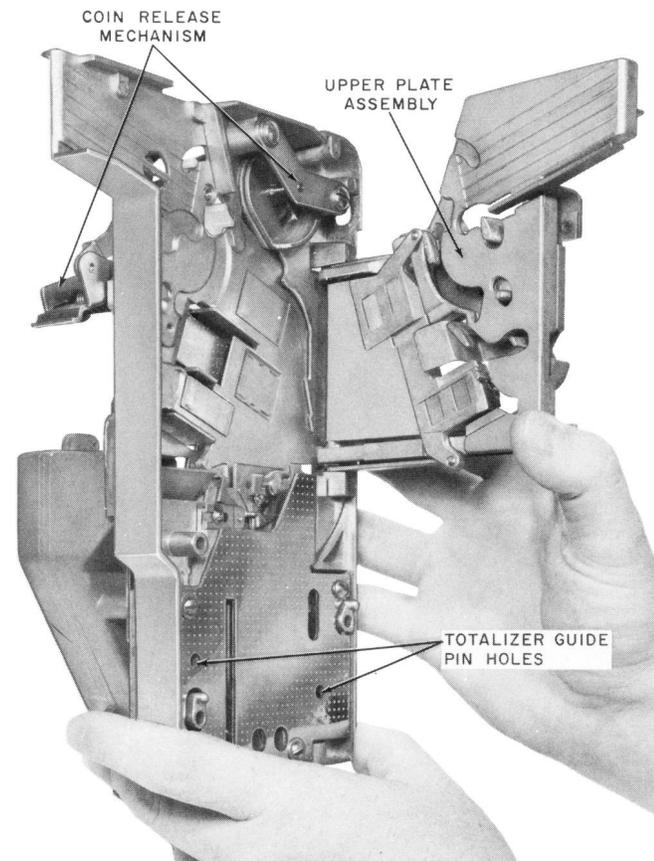


Fig. 7 — Coin Chute Assembly

SECTION 506-101-301

Caution: Exercise care when removing or replacing totalizer from coin chute to prevent damage to totalizer coin fingers or contacts. Do not attempt to make any adjustments to the totalizer other than setting the initial charge rate.

- (5) Check for foreign material on coin chute magnets.
- (6) If no foreign objects are found and chute will not accept coins, replace coin chute assembly.

(7) Replace coin chute-totalizer assembly in housing (3.04).

- 4.03** Coin chute should be tested by depositing coins with cover both off and on housing.
- 4.04** If electrical troubles are indicated, refer to Section 506-101-201 (Installation) or Section 506-101-401 (Connections).