

## COIN TELEPHONE — 1A1

### IDENTIFICATION AND OPERATION

#### 1. GENERAL

- 1.001** This addendum supplements Section 506-101-101, Issue 3.
- 1.002** This addendum is issued to correct the issue number on page 1 of the section, which should be changed from Issue 2 to Issue 3.
- 1.003** Issue 2 of this practice was never distributed to the field, however, limited distribution was made.



## COIN TELEPHONE — 1A1

### IDENTIFICATION AND OPERATION

#### 1. GENERAL

**1.01** This section describes the 1A1 coin telephone (Fig. 1) which replaces the 200 series coin collectors.

**1.02** 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. DESCRIPTION

**2.01** The 1A1 coin telephone is to be used only with dial prepay coin trunks and can not be used on manual or postpay circuits.

**2.02** All parts are contained in a high-security steel housing. The cover has six locking points while the vault door contains four locking points. The locking mechanism of the cover is secured by a 29A lock. The 2A vault door is secured by a 14- or 30-type lock (Fig. 2). Both locking mechanisms are operated with a 719A tool and associated lock keys.

**2.03** Provision is made for use of four security studs and for a 1A switch kit, which contains two alarm switches.

**2.04** A single slot is provided on the front of the coin telephone set to accept U. S. nickels, dimes, and quarters. All sorting of coins is done internally by the coin chute-totalizer assembly. A modified chute is necessary for Canadian coins. The coin return is designed to deter stuffing.

**2.05** Each 1A1 coin telephone set is equipped with a totalizer mounted on the side of the coin chute. The totalizer cam shaft is rotated 10 degrees for each nickel deposited, 20 degrees for each dime, and 50 degrees for each quarter. Each cog (10 degrees) on the gear wheel represents a 5-cent deposit. The totalizer can be set for an initial rate of any amount from 5 cents to 45 cents in increments of 5 cents. A call can not be made until the preset initial rate has been deposited. All totalizers received from the factory will be preset at 10-cent initial rate.

**2.06** Coin identification is made by beep tones generated by an oscillator in the set. A nickel is identified by one beep, a dime by two beeps, and a quarter by a series of five rapid beeps. These tones are not audible in the handset. A transmitter mounted on the side of the coin chute transmits the sound of coins passing through the chute to the operator. This sound indicates that coins are being deposited and false tones are not being generated.

**2.07** The 1A1 coin telephone has transmission characteristics equivalent to a 500-type telephone set.

**2.08** The 1A1 coin telephone set is furnished in black (-3) and moss green (-51). A dark gray dial, number ring, switch hook plunger, and handset (-52) are used on all sets.

**2.09** The 1A1 coin telephone is arranged to take 1B or 1C coin receptacle (cash box). The 1C cash box has a 50-percent greater money capacity and when used, requires removal of the false floor from the vault.

#### 3. METHOD OF OPERATION

**3.01** Coins are sorted as they are deposited and, if accepted, rotate the totalizer cam shaft 10 degrees for each 5 cents deposited. Dial tone



will not be heard until the preset initial rate on totalizer is reached. The call proceeds in the normal manner after the preset amount has been deposited.

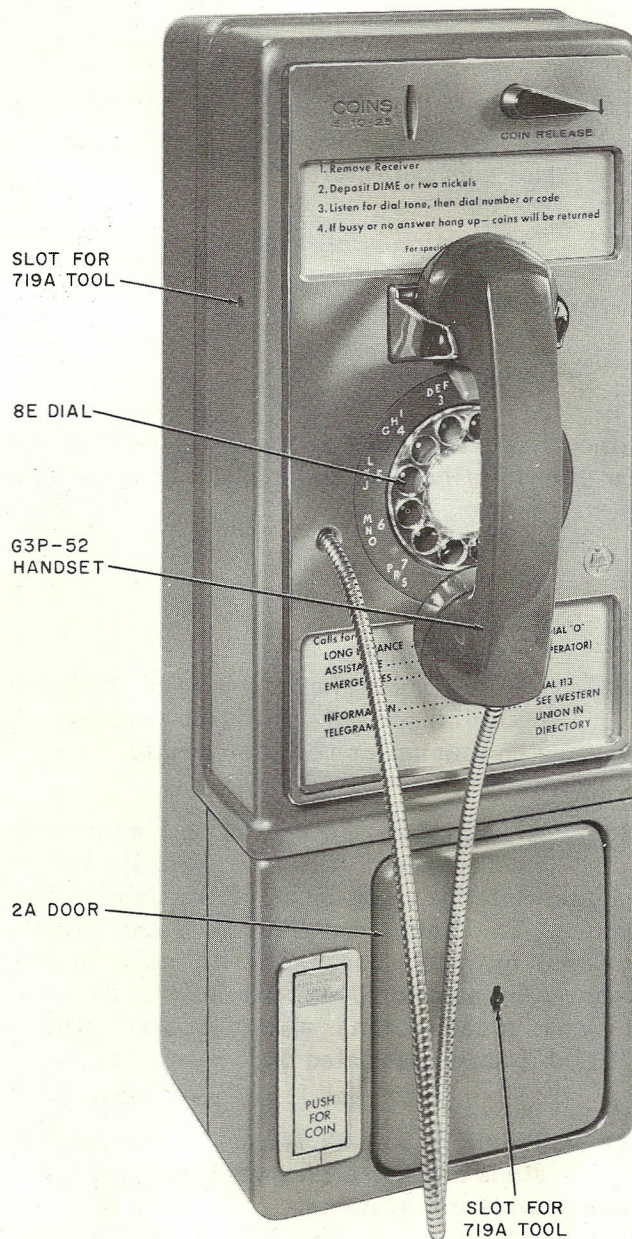
**3.02** Coins deposited on long distance calls are identified by beep tones (2.06) which are audible only to the operator.

#### 4. IDENTIFICATION AND ASSEMBLY OF PARTS

**4.01** The 1A1 coin telephone set (Fig. 1, 2, and 3) consists of the following major components:

- P-15E779 cover unit assembly consisting of:
  - P-38B700 dial and housing assembly
  - 8E dial
  - G3P-52 handset
- P-15E428 coin chute-totalizer assembly consisting of:
  - P-24E342 coin chute assembly
  - P-15E579 totalizer assembly
- P-85A200 housing and mounting plate assembly
- P-15E437 chassis assembly
- P-15E718 coin hopper and relay assembly consisting of:
  - P-15E717 coin hopper assembly
  - P-15E687 coin relay assembly
- P-15E730 return chute assembly
- P-15E491 coin return assembly

**4.02** All electrical connections, except the coin relay and ringer, are made by a plug and jack arrangement. This permits easy replacement of components in the field.



**Fig. 1 — 1A1 Coin Telephone Set, Front View**

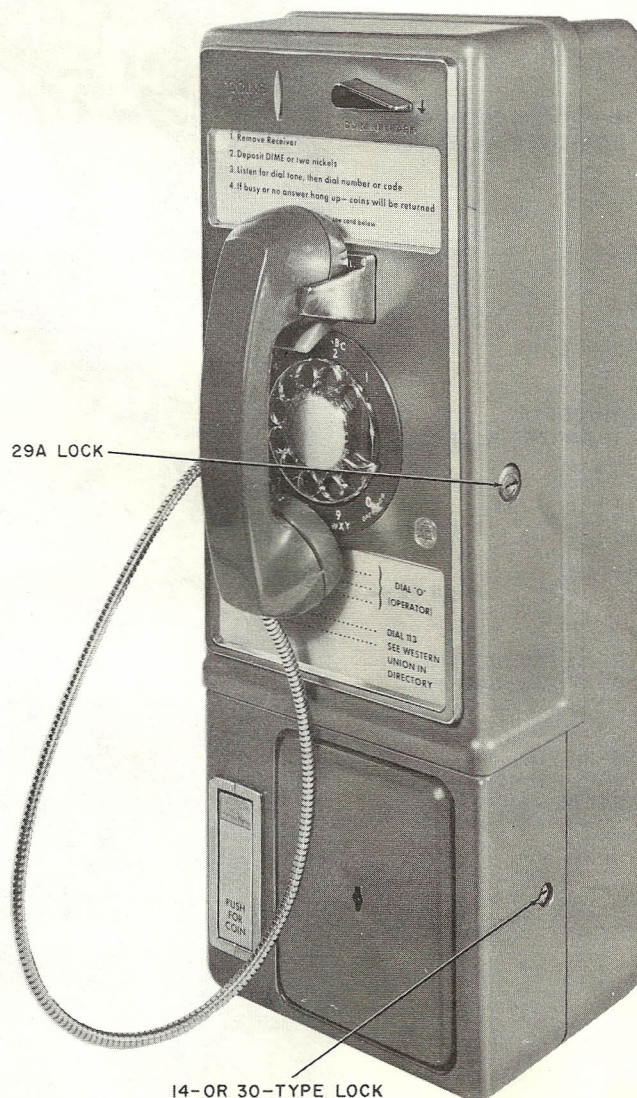


## 5. ADDITIONAL EQUIPMENT

**5.01** A P11C test cord (Fig. 4) to connect the cover to the chassis assembly is available. This permits complete access to the set while it is still operative.

**5.02** A 719A tool (Fig. 5) is required to release the locking mechanism on both the cover and vault doors.

**5.03** A 1A security switch kit assembly is available for installation in the 1A1 coin telephone. The kit consists of two Micro Switches equipped with brackets, actuators, and screws. The P-25E056 switch is designed to mount over the vault. The actuator of this switch extends through a hole in the vault top and rests on the top bolt of the 2A door locking mechanism. The P-25E058 switch is designed to mount in the upper left of the housing. The actuator of this switch is operated by the locking mechanism of the cover.



**Fig. 2 — Location of Locks**



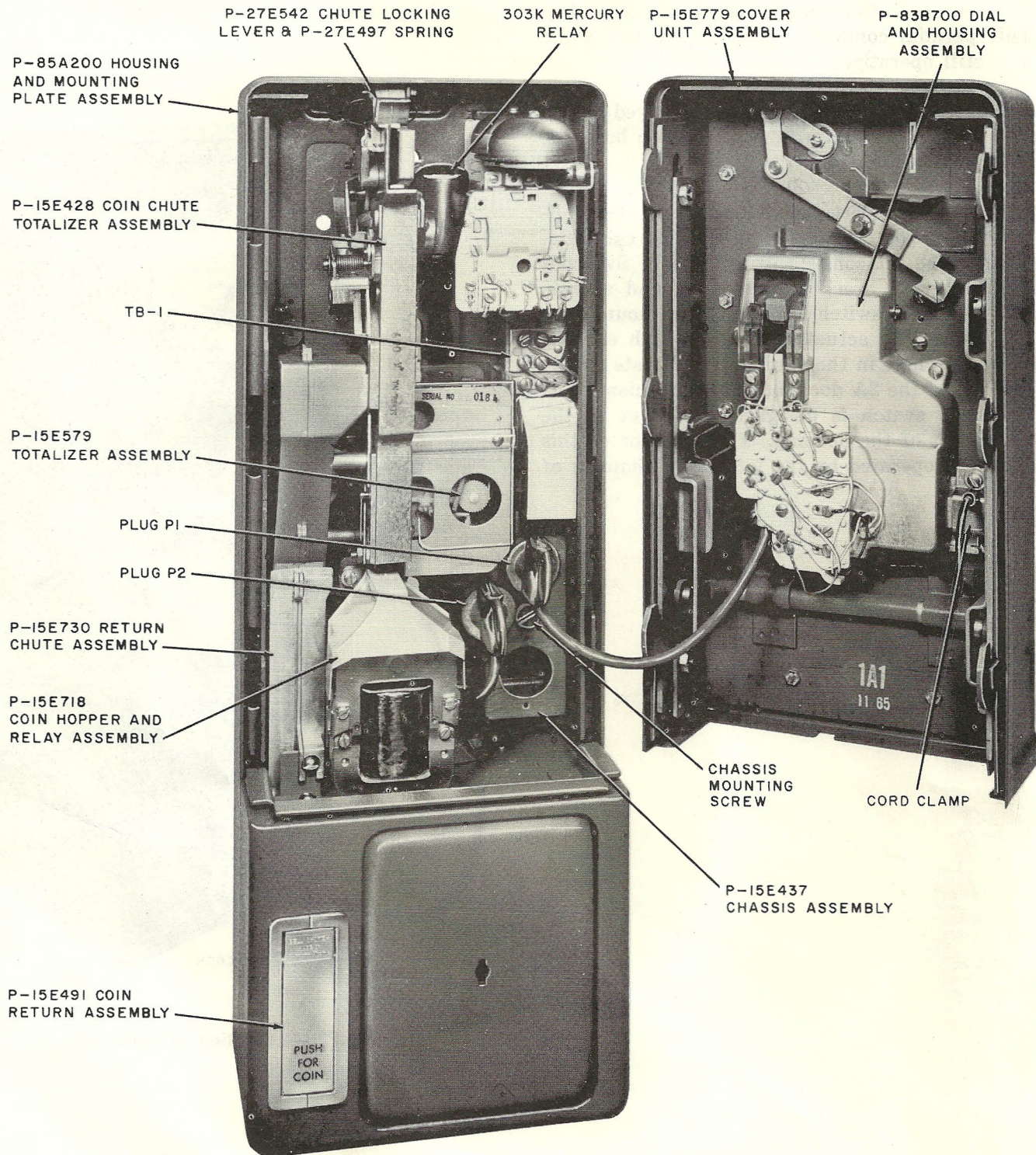
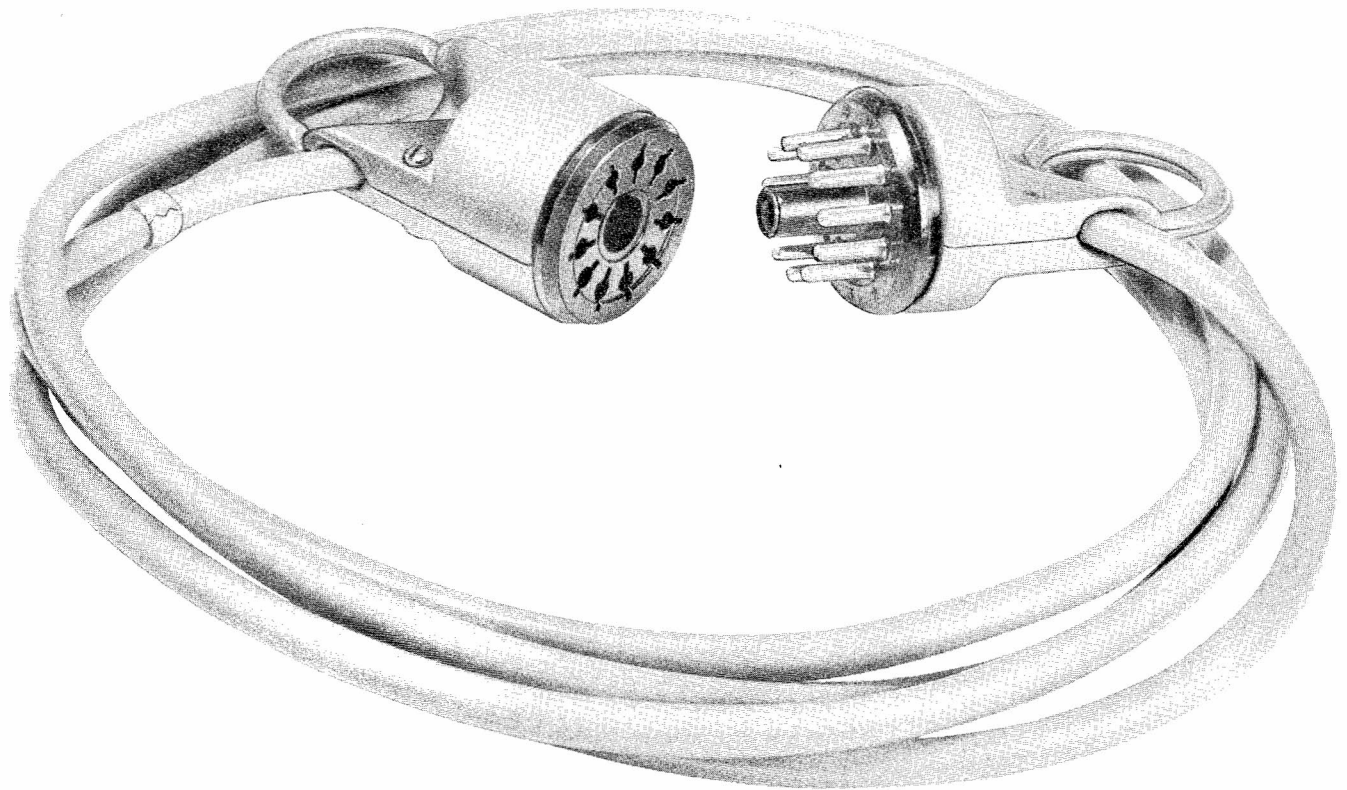
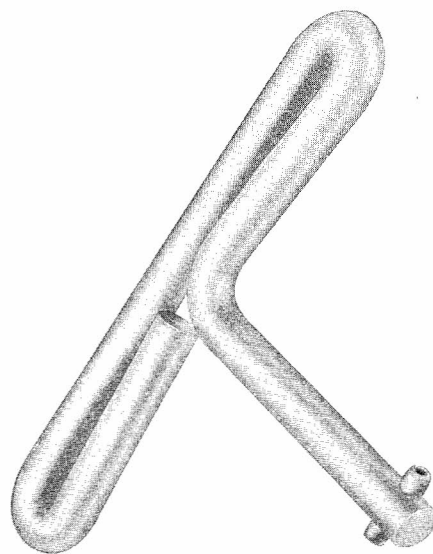


Fig. 3 — Assembly of Parts



**Fig. 4 — P11C Test Cord**



**Fig. 5 — 719A Tool**