COIN TELEPHONE SETS — SINGLE-SLOT

MAINTENANCE

1.00 GENERAL

1.01 The 1A1 coin telephone set is designed for limited field maintenance work. All component parts are plug-in units which can be quickly and easily replaced. (See Fig. 1.)

1.02 Do not attempt maintenance on the totalizer. If trouble is encountered in this unit, the entire coin chute and totalizer assembly should be replaced.

1.03 Photographs in this section are of a shop model. Production models may vary slightly.

2.00 TOOLS REQUIRED

2.01 A 719A tool is required to release the locking mechanism of the set.

2.02 While testing, a test cord, P11C, is required to connect cover to chassis assembly.

3.00 LUBRICATION

3.01 The coin chute and locking mechanism do not require cleaning or lubrication. Adjustments should not be attempted on the coin chute.

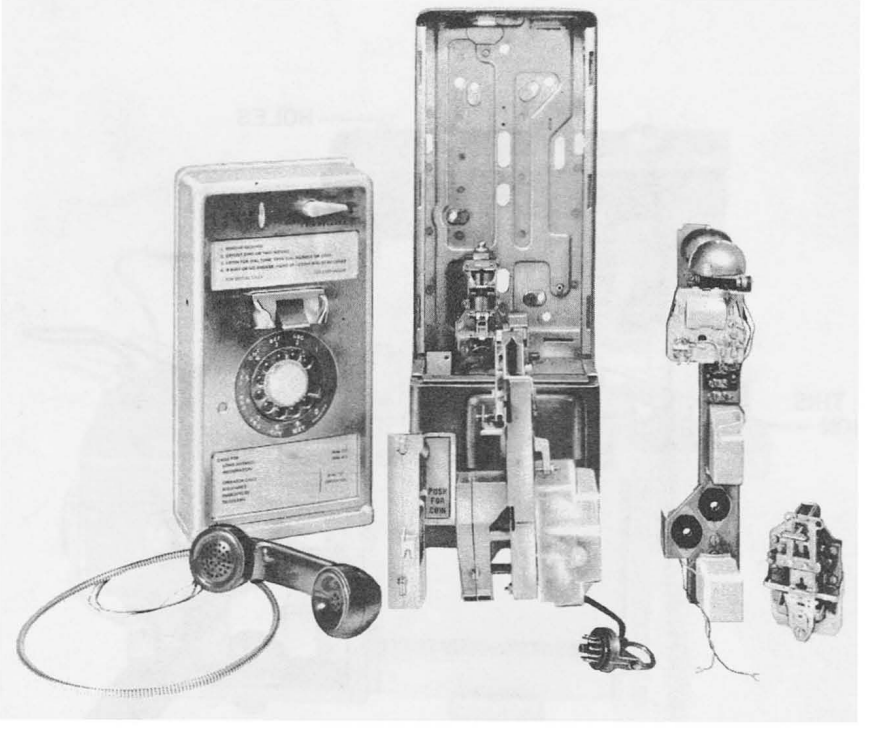

Fig. 1 — Component Parts, 1A1 Coin Telephone Set

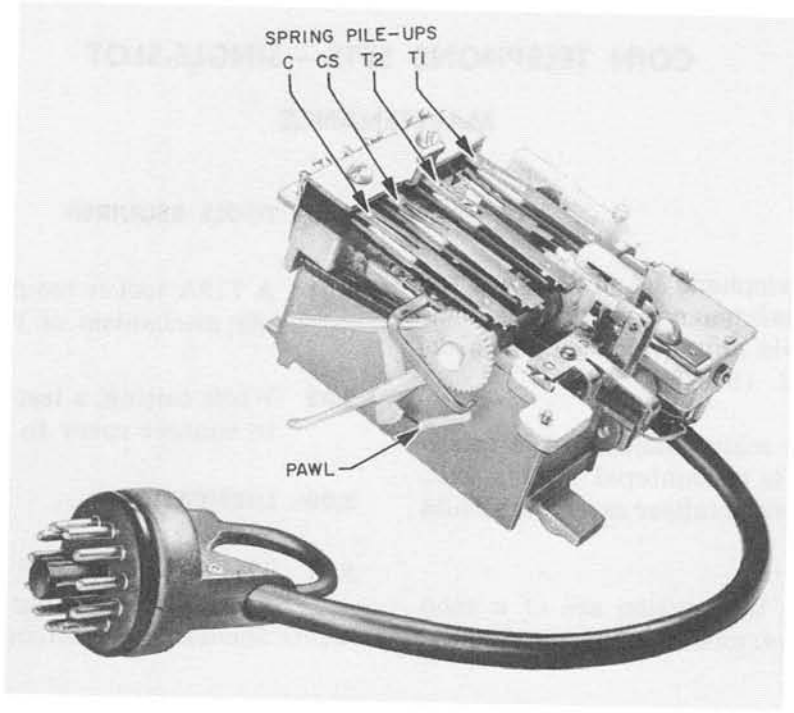

Fig. 2 — Totalizer Spring Pile-ups

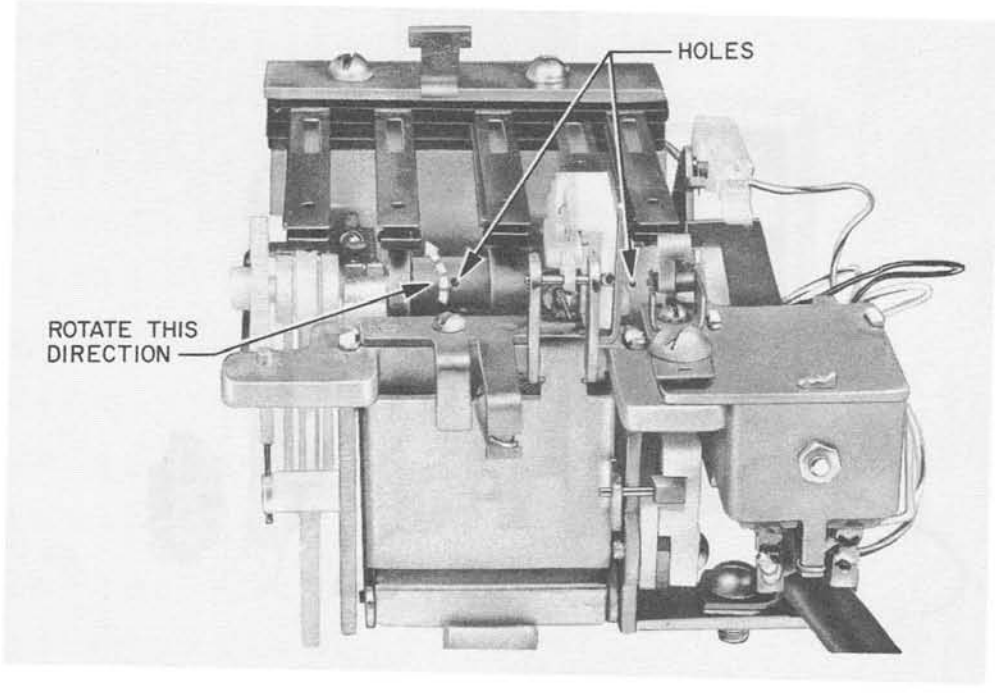

Fig. 3 — Totalizer, Front View

3.02 The surface of the set may be cleaned with petroleum spirits.

4.00 SETTING TOTALIZER

4.01 The totalizer may be set, in multiples of five, for an initial rate from 5 cents to 45 cents.

Extreme care must be used whenever totalizer is set. Avoid damaging pawl and spring pile-ups. (See Fig. 2.)

4.02 Two paper clips, or equivalent, are used to set the totalizer. Be sure totalizer is at zero position. This position is identified when springs T2 (Fig. 2) rest in depression on shaft. To set totalizer:

1. Insert one of the paper clips into the hole located near the offset on the right end of the shaft. (See Fig. 3.)

2. Hold the paper clip so that this end of the shaft cannot move.

3. Insert second paper clip into one of the four holes located in the center of the shaft.

4. Rotate clip from bottom to top until desired setting is reached. (See Fig. 2.) The setting is identified by the position of the offset in relation to zero setting. Each notch (10 degrees of turn) changes the setting 5 cents.

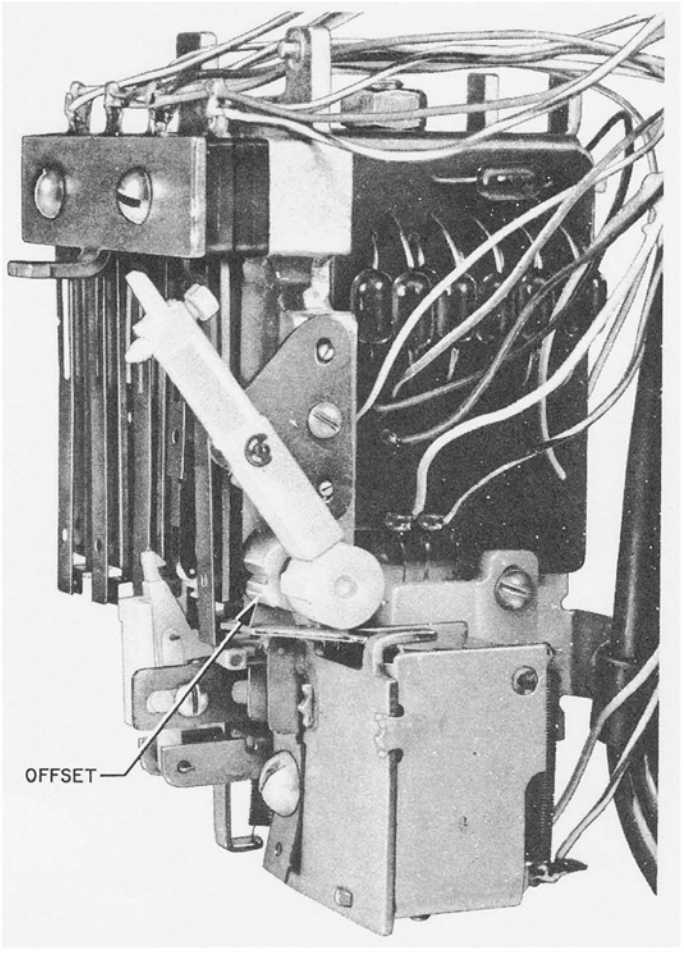

Fig. 4 — Totalizer, Side View

5. When offset is rotated so that springs T1 will operate, the desired setting is reached.

4.03 Example: If totalizer were set for 10-cent rate, totalizer would step twice. Offset on the right end of the shaft (Fig. 4) would then operate springs T1 and dial tone would be heard.

TABLE A

ELECTRICAL TROUBLE ANALYSIS FOR 1A1 COIN TELEPHONE

Failures (See Note)			Possible Causes	Remedial Action
Read-Out	Dial Tone	Refund		
Handset On Switchhook — Deposit 1 Nickle				
Yes	—	No	Plug 1 — Open between pins 4 and 5	Clean SH_3* contacts or replace cover
Handset Off Switchhook — Deposit 2 Nickels or 1 Dime				
No	No	No	Ring side of line open	Reconnect as required
			C* contacts or switch S_1* open	Clean C* or replace chute and totalizer
			Plug 2 — Open at pins 1, 8, 9, 10, or 11	Replace chute and totalizer
As above but hear sidetone			Line reversed or tip side open	Reconnect as required
No	No	Yes	T_1† contacts not making	Clean contacts or replace chute and totalizer
			Plug 1 — Open at pin 8	Jack 1 — Short pins 4 and 8, and 6 and 10. If then OK on Read-Out and Refund, replace cover.
			Plug 2 — Open at pin 5	Replace chute and totalizer
Yes	Yes	Yes	Transmitter or cord open	Replace as required
But no sidetone			Plug 1 — Open at pin 9	Replace cover
Yes	Weak	Yes	Plug 1 — Open at pin 1	Replace cover
Yes	Yes	Yes	Switch S_1† not making or plug 2 open at pin 1	Replace chute and totalizer
But no coin tones			Defective oscillator	Replace chassis assembly
Yes	No	Yes	Receiver or cord open	Replace as required
			SH_1 contacts not making	Clean contacts or replace cover
			Plug 1 — Open at pin 1 or 7	Replace cover
Coins return after Read-Out			SH_2 contacts not making	Clean contacts or replace cover
			Plug 1 — Open at pin 2, 6, or 10	Replace cover
Totalizer rotates continuously			T_2* contacts open	Clean contacts or replace chute and totalizer
			Plug 2 — Open at pin 1 or 2	Replace chute and totalizer
Dime tones too fast			CS* contacts open	Clean contacts or replace chute and totalizer
Hear coin tones in handset receiver			T_2† contacts not making	Clean contacts or replace chute and totalizer
			Plug 2 — Open at pin 3	Replace chute and totalizer
Cannot break dial tone			T_1† contacts not making or not latching	Clean contacts or replace chute and totalizer
Can break dial tone with HT contacts shorted			SH_3† contacts not making	Clean contacts
			Plug 1 — Open between pins 4 and 8 or between pin 6 and TB2 terminal 3	Replace cover
			Plug 2 — Open at pins 4 or 6	Replace chute and totalizer
Handset On Switchhook — Deposit 1 Nickel				
Yes	Yes	Yes	T1 contacts stay latched after refund of 2 nickels, dime, or quarter	Replace chute and totalizer
If troubles cannot be cleared by above procedures, replace negative start unit (P3 plug).				

Note: Failures are shown underlined. Read-out refers to operation of totalizer.

* Normally closed contacts (—|—).

† Normally open contacts (—|×—).