

FOREMAN 02.....
FOREMAN 03.....
FOREMAN 04.....
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1. GENERAL.....
FOREMAN 08.....
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FOREMAN 10.....
DESTROY.....

REFERENCE
SECURITY DEVICES

1.01 This section contains identification and installation information on alarm switches and security devices for coin collectors and coin telephone sets.

1.02 This section is reissued to:

- Add information on 2B cash compartment door
- Show that 30A and 30B cash compartment locks are MD
- Show that P-372083 and 227A alarm switches are MD

1.03 For additional information on security devices refer to Section 506-101-400.

2. ALARM SWITCHES

2.01 Alarm switches are devices which are mechanically connected to a lock, door, or upper housing and electrically connected to a local alarm panel or central office.

2.02 There are four types of alarm switches: P-372083, 227A, 257A, and 1A switch kit.

P-372083 (MD) Alarm Switch Assembly

2.03 The P-372083 alarm switch assembly (Fig. 1) consists of a single-pole double-throw contact spring pile-up mounted on a bracket and wired to three terminals on a terminal block.

2.04 The P-372083 alarm switch assembly is designed for use on 190 and 200 series coin collectors and is mounted in the cash compartment above the door. The stop spring of the switch assembly rests on the bolt of the cash compartment lock. When the bolt is released, the switch contacts make and energize the alarm.

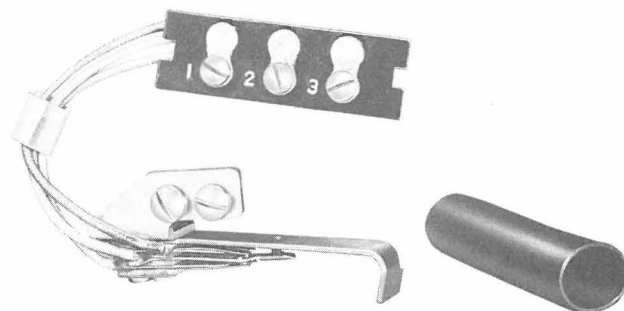


Fig. 1—P-372083 Alarm Switch Assembly



Connections are made to the terminal block as directed locally. Slide insulation sleeving over terminal block to prevent shorting.

227A (MD) Alarm Switch Assembly

2.05 The 227A alarm switch assembly (Fig. 2) consists of a single-pole double-throw contact spring pile-up mounted on a bracket and wired to three terminals on a terminal block.

2.06 The 227A alarm switch assembly is arranged for use on all coin collectors having upper housings with terminal plate type transfer contacts.

2.07 It is intended for use to indicate removal of the upper housing.

2.08 Install the 227A alarm switch assembly as shown in Fig. 3. (See **READ** following 2.04).

257A Alarm Switch Assembly

2.09 The 257A alarm switch assembly (Fig. 4) consists of a single-pole double-throw sensitive subminiature switch, mounted on a bracket and wired to three terminals on a terminal block.

2.10 The 257A alarm switch assembly is arranged for use on all coin collectors and coin

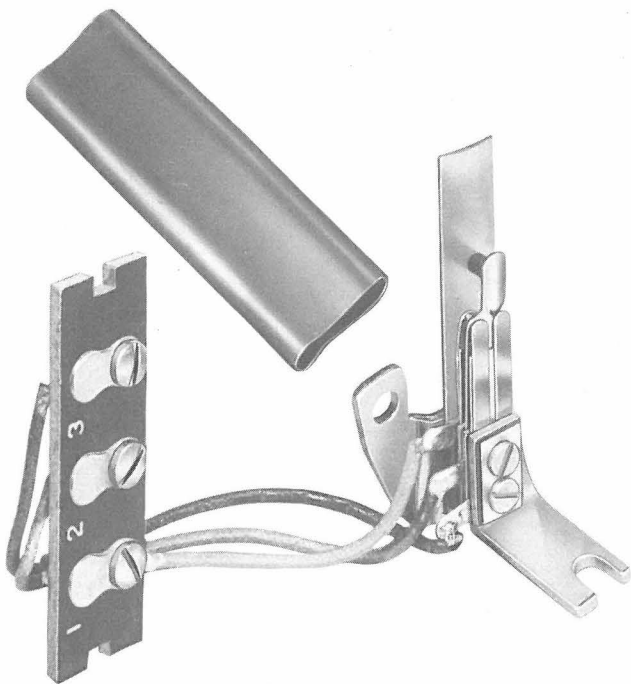


Fig. 2—227A Alarm Switch Assembly

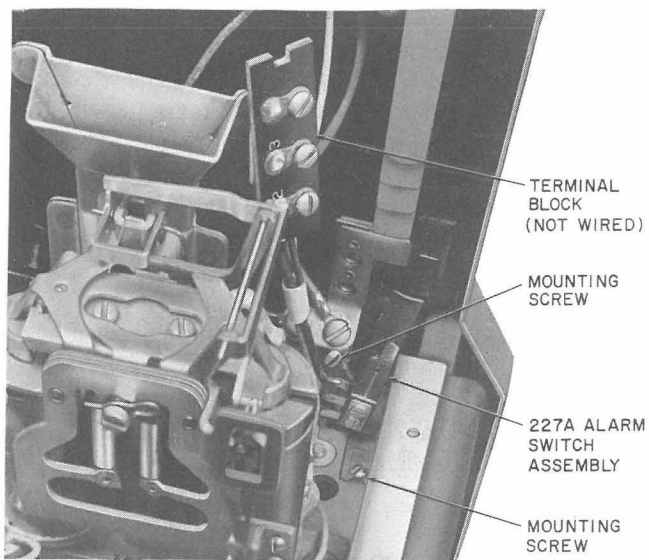


Fig. 3—227A Alarm Switch Assembly Installed

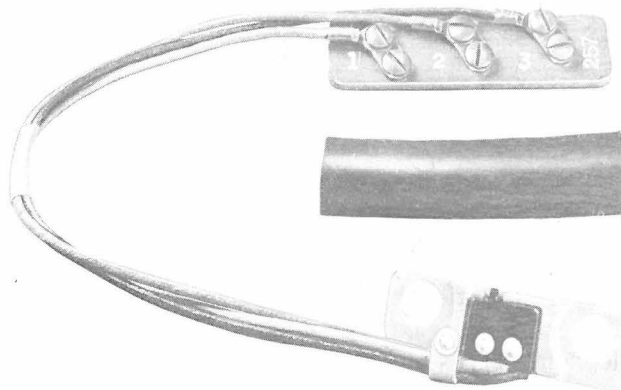


Fig. 4—257A Alarm Switch Assembly

telephone sets equipped with a 30-type cash compartment lock and is mounted by using two of the existing lock mounting screws (Fig. 5).

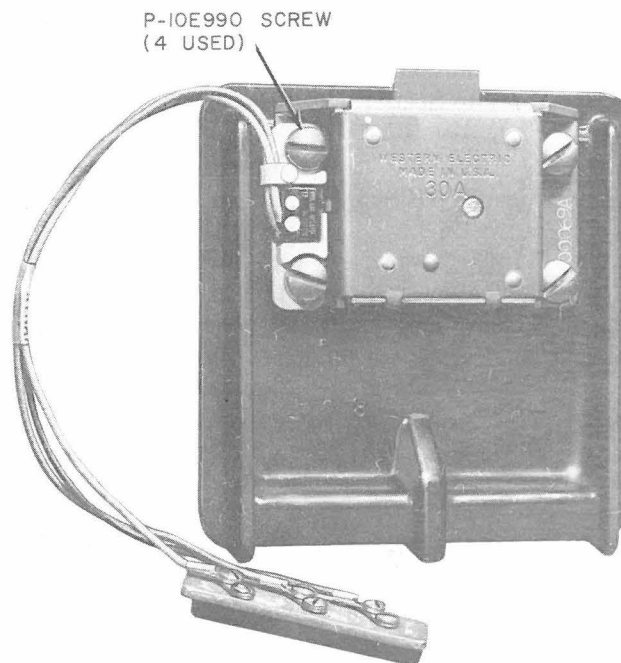


Fig. 5—257A Alarm Switch Assembly Mounted on 30-Type Lock

2.11 A protruding plunger is provided on the 30-type lock which triggers the switch when the key is turned. (See **READ** following 2.04).

1A Switch Kit

2.12 The 1A switch kit (Fig. 6) consists of two microswitches, assembled with associated brackets, actuators, and screws.

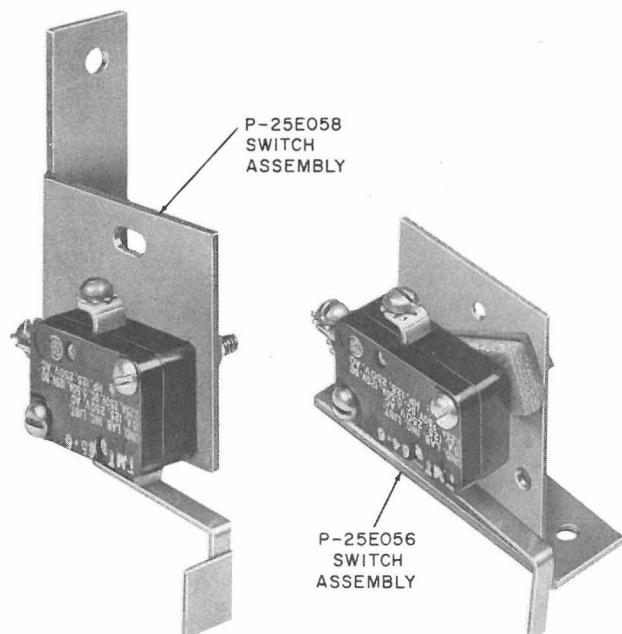


Fig. 6—1A Switch Kit

2.13 It is designed for use in 1A- and 1C-type coin telephone sets.

2.14 The P-25E056 switch assembly mounts above the cash compartment with its actuator detecting the retraction of the cash compartment door locking bolt.

2.15 The P-25E058 switch assembly mounts in the upper left portion of the backplate to detect removal of the cover unit assembly.

2.16 Install the switch kit in accordance with Fig. 7 using four No. 6-32 by 1/4 RHM screws.

Note: After cash compartment door is installed, it may be necessary to loosen the

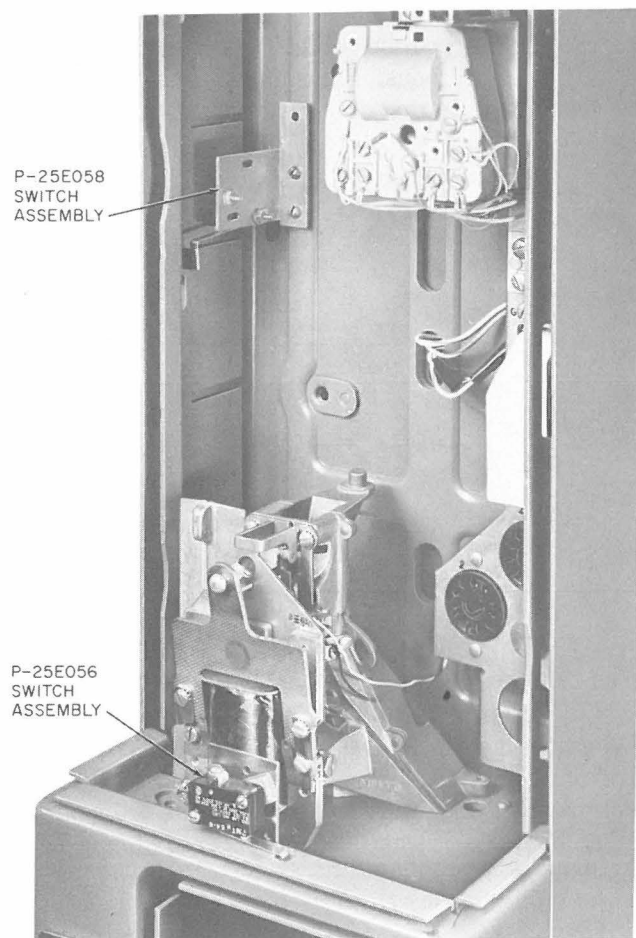


Fig. 7—1A Switch Kit Installed on 1A1 Coin Telephone Set

two P-25E056 switch assembly mounting screws and reposition the switch on mounting bracket for accurate operation.



Connections are made to the switches as directed locally.

3. LOCKS AND COMPONENTS



Locks and keys will be shipped only on orders that specify authorized recipients.

27-Type Lock (MD)

3.01 The 27-type lock (Fig. 8) is intended for use in upper housing assemblies of 190 and 200 series coin collectors.

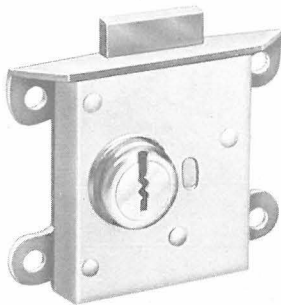


Fig. 8—27-Type Lock

3.02 The 27-type lock is equipped with a key trapping feature (called a key snatcher). When the key is turned, the key snatcher prevents it from being withdrawn from the lock. A P-248585 release tool is required to remove the trapped key (Fig. 9). The release tool is ordered in the same manner as a key



Use of release tool in multislot coin collector requires removal of cash compartment door, coin receptacle, and left front mounting screw of coin receptacle rail.

32A-Type Lock

3.03 The 32A-type lock (Fig. 10) is intended for use in the cover unit assembly of the 1A/1C-type coin telephone sets.

3.04 The 32A-type lock, like the 27-type, is equipped with a key trapping feature.

3.05 A modified P-248585 release tool (Fig. 11) is required to release the trapped key (Fig. 12).

3.06 A P-248585 release tool is ordered in the same manner as a key and shall be modified locally. Modification consist of putting a right angle bend approximately 1/2-inch from end of the straight

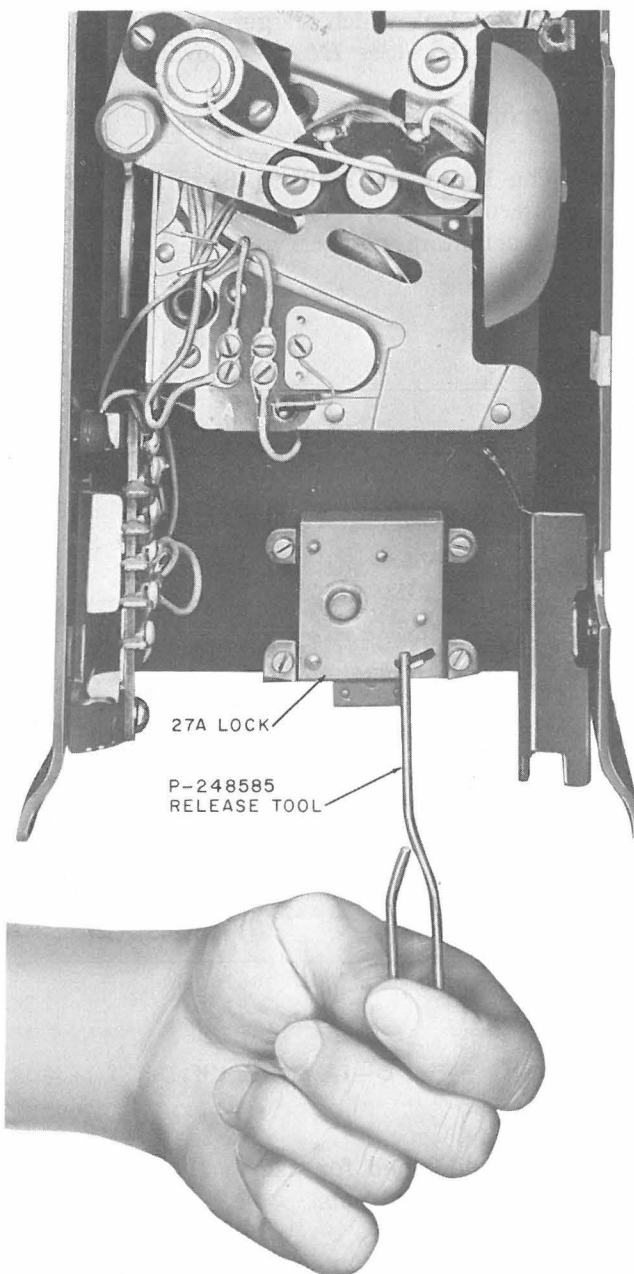


Fig. 9—27A Lock Mounted in Upper Housing Showing Use of P-248585 Release Tool

portion of the tool at 90° to the plane of the looped handle.



Use of release tool in single slot set requires removal of cash compartment door and coin receptacle.

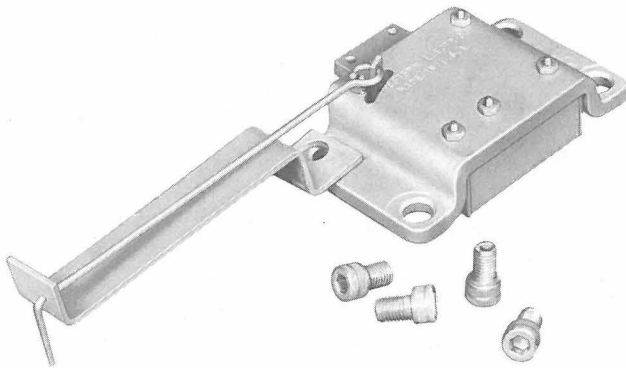


Fig. 10—32A Type Lock

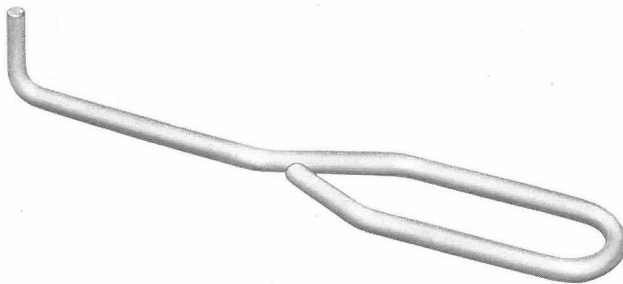


Fig. 11—Modified P-248585 Release Tool

Cash Compartment Locks

3.07 There are two types of locks for use with cash compartments; 14-type (MD) and 30-type (Fig. 13). Each of these locks is a lever type using a corrugated key.

Note: The 30A and 30B locks have been rated MD. The 30C lock is currently manufactured.

3.08 The 14- and 30-type locks are used with 1A-, 4A-(MD), and 5A-type cash compartment doors and cash compartment housing of 1A- and 1C-type coin telephone sets.

3.09 The 30-type lock is arranged for but not equipped with a 257A alarm switch assembly (Fig. 5).

3.10 When a 14-type lock MD is used on a 1A-type cash compartment door, a P-20F653 plug washer (Fig. 14 and 15) must be used to fill a

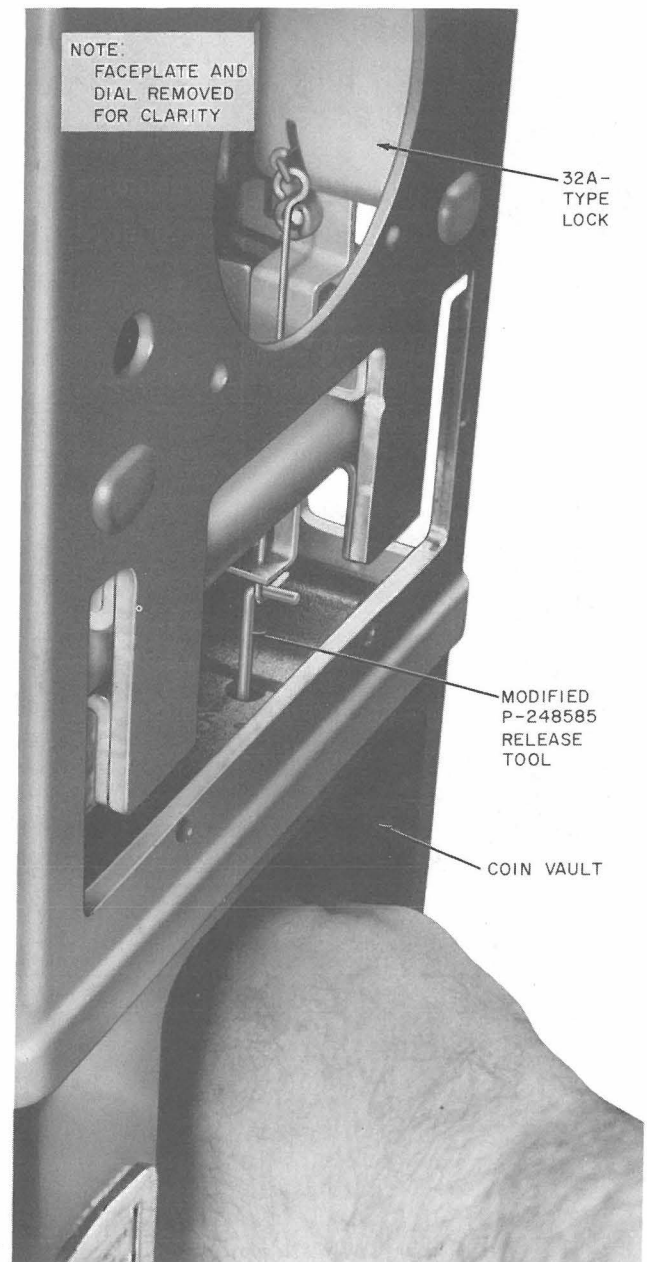


Fig. 12—Method of Releasing 32A Lock

portion of the lock hole to discourage the use of a door puller.

Coin Receptacle Covers

3.11 The 1D (MD) coin receptacle cover is a zinc chromate finished metal cover used with a 1B- or 1C-type coin receptacle. It is provided with a self-locking mechanism which automatically

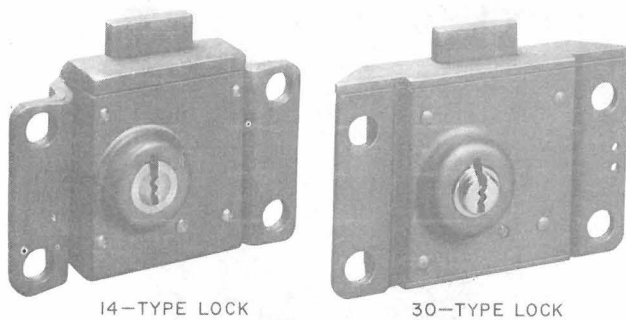


Fig. 13—Cash Compartment Locks

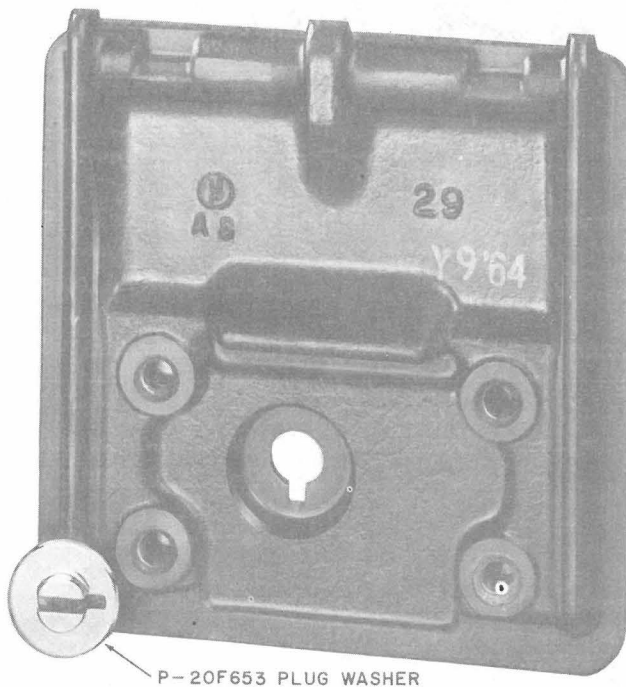


Fig. 14—1A-Type Cash Compartment Door and P-20F653 Plug Washer

locks when the receptacle is removed from the cash compartment.

3.12 The 1E coin receptacle cover is similar to the 1D except it is provided with an insulated contact for use with a coin level detector.

Ring Seals

3.13 Ring seals (Fig. 16) are used to seal the coin receptacle cover to the coin receptacle.

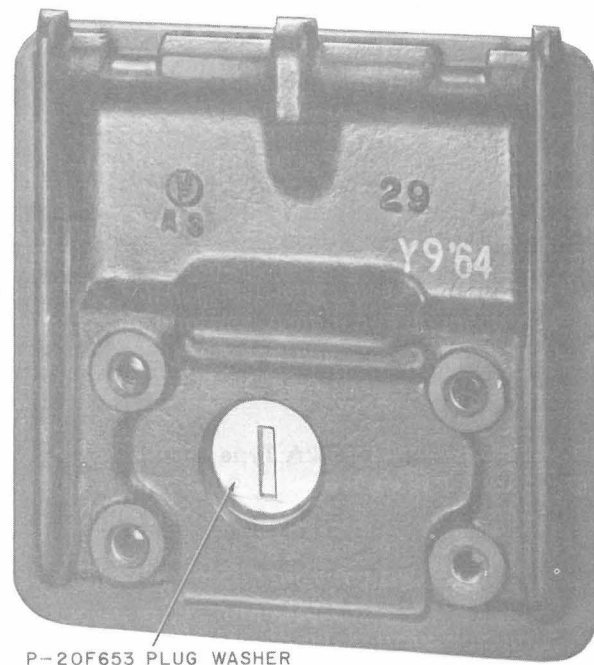


Fig. 15—P-20F653 Plug Washer Installed in 1A-Type Cash Compartment

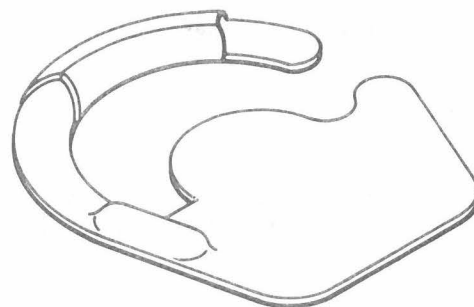


Fig. 16—Typical Ring Seal

4. 2B CASH COMPARTMENT DOOR

4.01 The 2B cash compartment door used on 1-type coin telephone sets, is similar to the 2A door with the following exceptions:

- The wide bolt is coated with a tungsten carbide surface treatment to inhibit carbide drill penetration.

4.02 The 2B door is optional and does not replace any apparatus.