

# 700, 701, AND 702 TYPE CONNECTORS AND E, F, AND H CONNECTOR PRESSERS

	CONTENTS	PAGE	
1.	GENERAL . . . . .	1	1.02 This section is reissued to include the H connector presser and the 702-2AT connector.
2.	DESCRIPTION . . . . .	2	1.03 These connectors except 701-2AR and 702-2AR are used to join aluminum to aluminum, aluminum to copper, or copper to copper conductors as outlined in Section 632-205-215. <i>The 701-2AR and 702-2AR connectors are for wire joining in buildings and entrance facilities requiring flame retardant materials.</i>
3.	MAINTENANCE . . . . .	8	
1.	GENERAL		
1.01	This section covers the description of the 700-, 701-, and 702-type connectors and the E, F, and H connector pressers. When splicing ten or fewer pairs the G long-nose pliers may be used as outlined in Section 081-020-133.		1.04 These connectors shall not be exposed to solvents or solvent fumes, such as B cleaning fluid, acetone, etc. Such solvents can damage or destroy the plastic connector parts.

**NOTICE**

Not for use or disclosure outside the  
Bell System except under written agreement

2. DESCRIPTION

All 700-, 701-, and 702-Type Connectors

2.01 All 700-, 701-, and 702-type connectors (Fig. 1) consist of the following:

(a) A plastic body with:

- (1) Holes for inserting the conductors; **one conductor in each hole.**

(2) Flexible wire fingers which position the conductors and provide strain relief after pressing.

(b) A plastic cap with:

- (1) A metallic insert for contacting and joining the conductors.
- (2) A sticky compound for sealing the joint (except 701-2AR and 702-2AR).

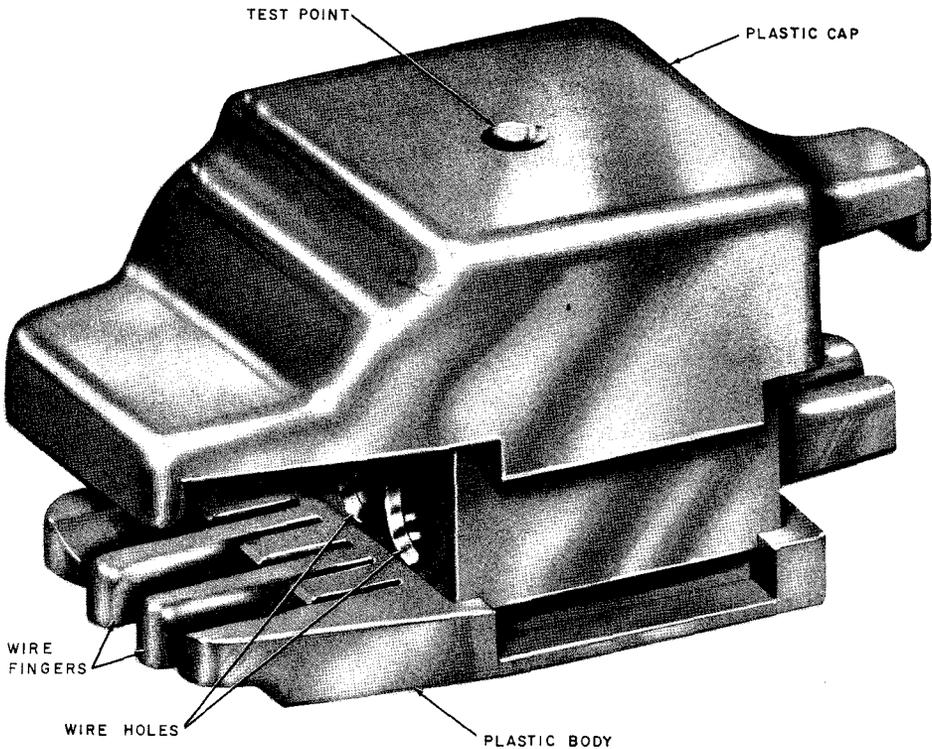


Fig. 1—700-Type Connector

(3) A test point for contacting the joint without piercing the conductor insulation. This test point is covered with a thin plastic membrane which is punctured with the test pick to make contact with the back side of the metallic insert as shown in Fig. 2.

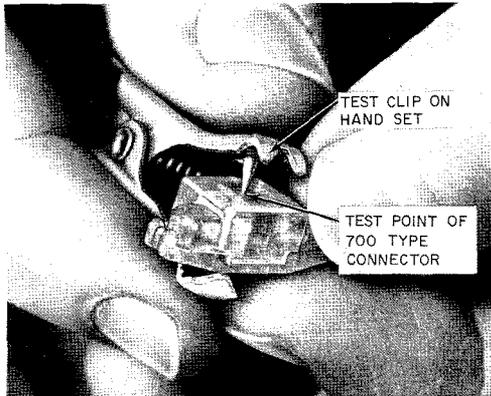


Fig. 2—Contacting Joint—IMPORTANT—Reseal per 2.01(b)(3)

**Important:** *This puncture must be resealed with a dab of B sealant AT-8502 to fully restore the original integrity of the connector.*

**2.02** The 700-3B and 700-3BT connectors are used for:

- (1) Splicing three wires, or bridging up to two wires to one through wire. Any two wire holes may be used when joining only two wires.
- (2) Joining gauges 17 through 26 in any combination.
- (3) Joining any combination of aluminum, copper, or copper-steel conductors.

**2.03** The 700-3B connector has a removable side wall to open a through slot for placing through wire when bridge-tap splicing. The 700-3BT is identical to the 700-3B except it is mounted on tape for use with F and H connector presser and it cannot be used for half-tapping. The plastic parts of the 700-3B and 700-3BT are clear.

**2.04** The 701-2A and 701-2AT connectors are used for: (The 701-2AT connector is mounted on tape for use with the F and H connector pressers.)

- (1) Splicing two wires ONLY.
- (2) Joining gauges 19 through 26 in any combination.
- (3) Joining any combinations of aluminum, copper, or copper-steel conductors.

The plastic parts of the 701-2A and 701-2AT connectors are clear.

**2.05** The 701-2AR connector is identical to 701-2A except it is not for outside use or for use on aluminum conductor cable; also its plastic parts are yellow tinted.

**2.06** The 702-2A connector is used for:

- (1) Bridging one wire to one through wire.
- (2) Joining gauges 19 through 26 in any combination.
- (3) Joining any combination of aluminum, copper, or copper-steel conductors.

**2.07** The 702-2A connector has an open through slot for placing through wire for bridge-tap splicing.

**2.08** The 702-2AR connector is identical to 702-2A except it is not for outside use or for use on aluminum conductor cable. The plastic parts are yellow tinted.

**2.09** The 702-2AT connectors are intended for half-tapping only and are the same as the 702-2A connectors except they are taped, twenty to a strip, for use with the H connector presser **only.**

E CONNECTOR PRESSER

2.10 The E connector presser (Fig. 3) is specially designed for pressing all 700-type connectors. Proper use of this tool assures that good joints will be made under all conditions of conductor size and number as well as temperature.

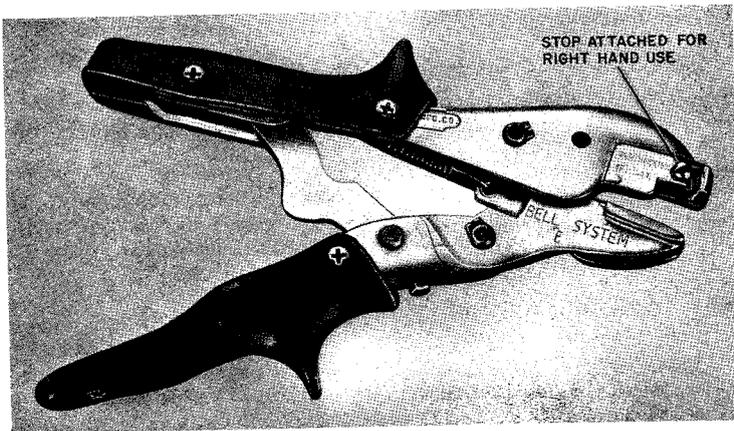
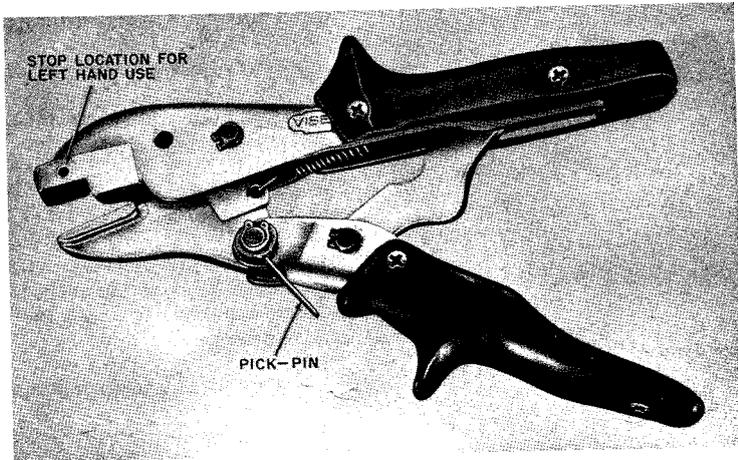


Fig. 3—E Connector Presser

2.11 The E connector presser consists of:

- (a) A vise grip-type presser with a flat pressing jaw to ensure an even press.
- (b) A pick pin for removing the sidewall of the 700-type connector body (Fig. 4).

(c) A stop to aid in positioning the connector.

2.12 The E presser is factory adjusted to provide long life under normal field usage and wear. ***It is not designed for field adjustment and should be handled with care.***

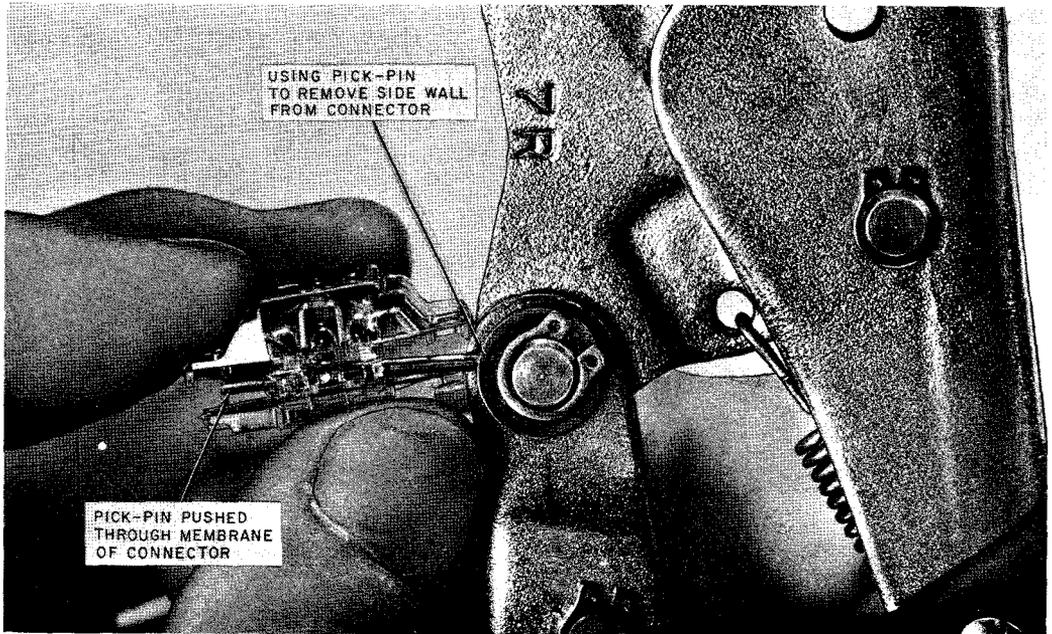


Fig. 4—Removing Sidewall to Open Through Slot

**F CONNECTOR PRESSER**

2.13 The F connector presser (Fig. 5) is a magazine-type presser with a fixed dimension opening so that only a fully pressed connector can be removed. The magazine will accept 700-3BT connectors, 16 to the tape, or 701-2AT connectors, 20 to the tape. The connectors are loaded into the magazine by inserting the taped connectors

into the rear of the presser. A two position stop at the pressing station ensures the correct holding location for the two- or three-wire connectors. The connector follower assembly which advances the connectors to the pressing station is not removable.

2.14 THE PRESSER IS NOT DESIGNED FOR FIELD ADJUSTMENT AND SHOULD BE HANDLED WITH CARE.

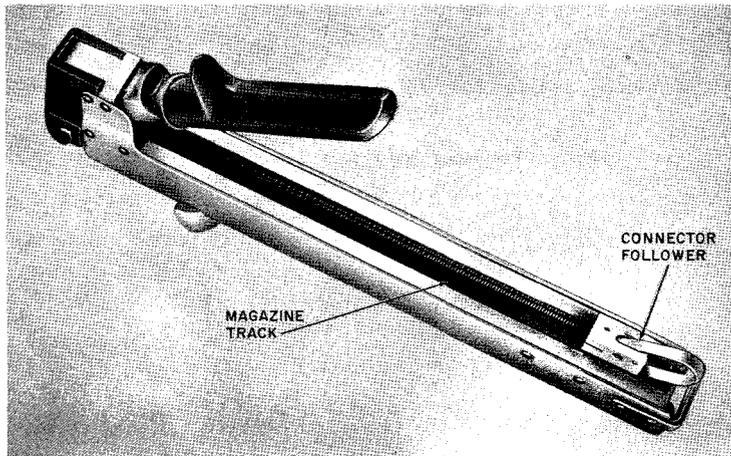
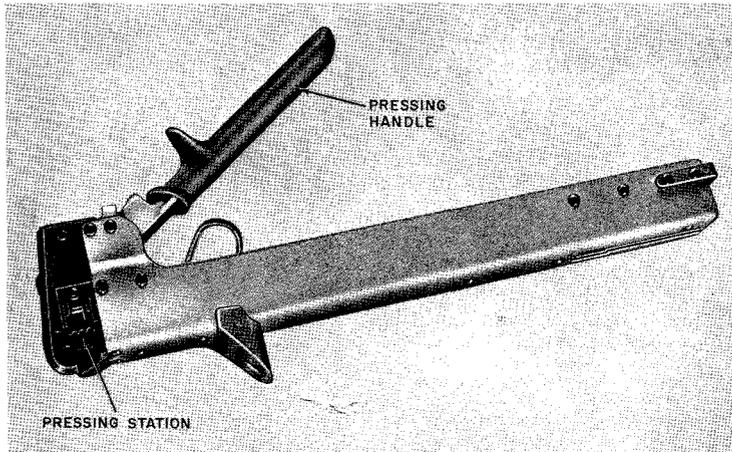


Fig. 5—F Connector Presser

## H CONNECTOR PRESSER

2.15 The H connector presser (Fig. 6) is a magazine-type hand operated presser with a fixed dimension opening so that only a fully pressed connector can be removed after the pressing handle is released. The magazine will accept the 700-3BT, 701-2AT, and 702-2AT. The connectors are loaded into the magazine by inserting the taped connectors

into the rear of the presser. No adjustment of the presser is required when changing from a two wire to a three wire connector.

**Note:** The 700-3BT and 701-2AT taped connectors can be used interchangeably in the F and H connector pressers. The 702-2AT connectors can *be used only* in the H connector presser.

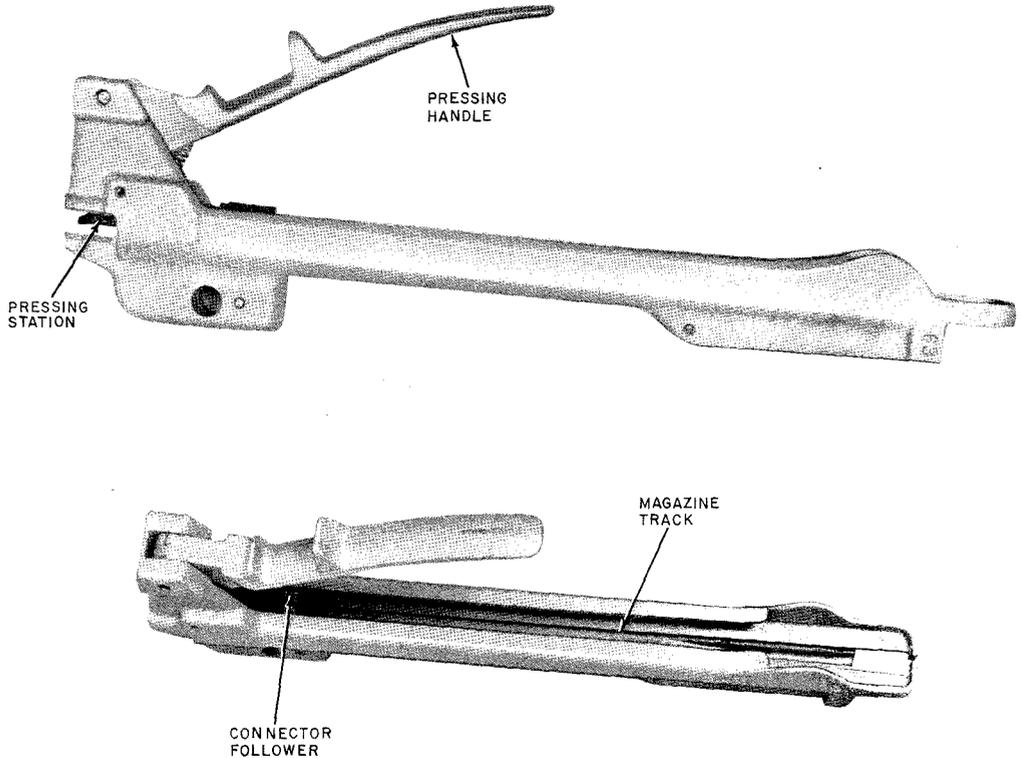


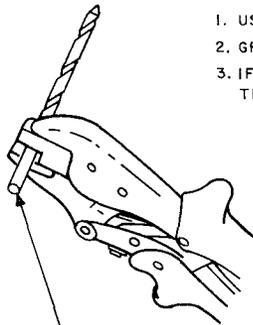
Fig. 6—H Connector Presser

3. MAINTENANCE

E CONNECTOR PRESSER

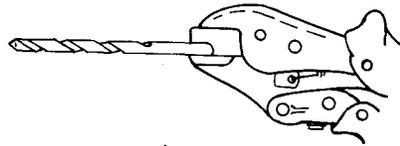
3.01 Check tool press weekly or immediately after being dropped or severely struck by other tools or equipment as shown in Fig. 7.

3.02 No maintenance other than cleaning followed by lubrication with light oil is required. Cleaning solvents such as KS-7860 petroleum spirits or equivalent are recommended for cleaning.



17/64 DRIVE SHANK

1. USE SHANK OF 17/64 DRILL AS A GAUGE.
2. GRASP DRILL SHANK WITH E PRESSER AS SHOWN.
3. IF DRILL SLIPS OUT OF JAWS FROM ITS OWN WEIGHT THE PRESSER IS DEFECTIVE AND MUST NOT BE USED.



NOTE:  
TRY DRILL BOTH WAYS TO FIND WIDEST SEPARATION.

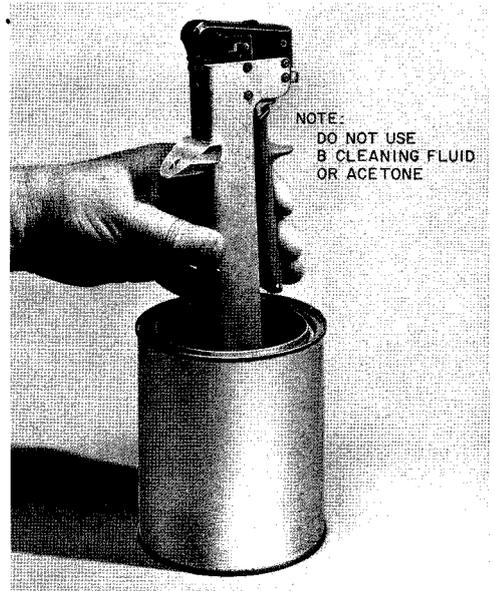
Fig. 7—Checking E Connector Presser For Proper Closure

**F CONNECTOR PRESSER**

**3.03** Check the presser after being dropped or severely struck by other tools or equipment. If the pressing station or connector follower appear to be damaged, return for repair in accordance with local routine. Do not attempt to repair in the field.

**Note:** The gap in the pressing station of the F connector presser is checked each time a connector is pressed. When the jaws do not fully compress the connector, it cannot be removed from the pressing station. Return for repair as per local instructions.

**3.04** Recommended cleaning procedures are shown in Fig. 8 and 9. Cleaning solvents such as KS-7860 petroleum spirits or equivalent are recommended for cleaning. **DO NOT USE B CLEANING FLUID or ACETONE FOR CLEANING.**



**Fig. 8—Soaking F Connector Presser**

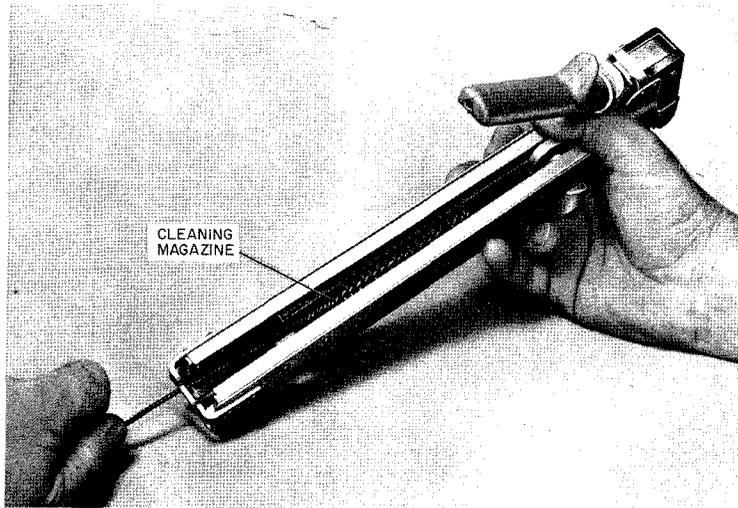
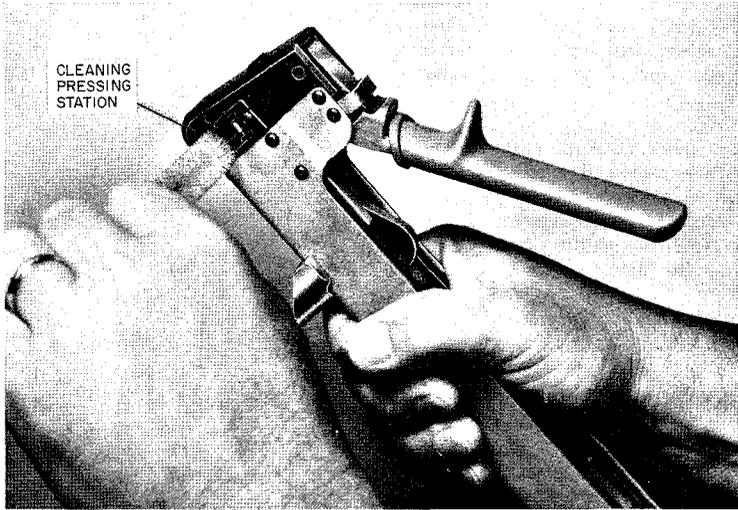


Fig. 9—Cleaning F Connector Presser With Brush

### ◆H Connector Presser◆

3.05 ◆No maintenance other than cleaning followed by lubrication with light oil is required. Cleaning solvents such as KS-7860 petroleum spirits or equivalent are recommended for cleaning. **DO NOT USE B CLEANING FLUID OR ACETONE FOR CLEANING.**◆

3.06 ◆The connector presser can be taken apart for cleaning by removing the three round head screws (Fig. 10).◆

*Note:* Place connector follower in forward position (Fig. 6) before removing screws.

3.07 ◆A kit for H connector presser, consisting of a handle spring, follower assembly, and three screw can be ordered as replacement parts for maintenance.◆

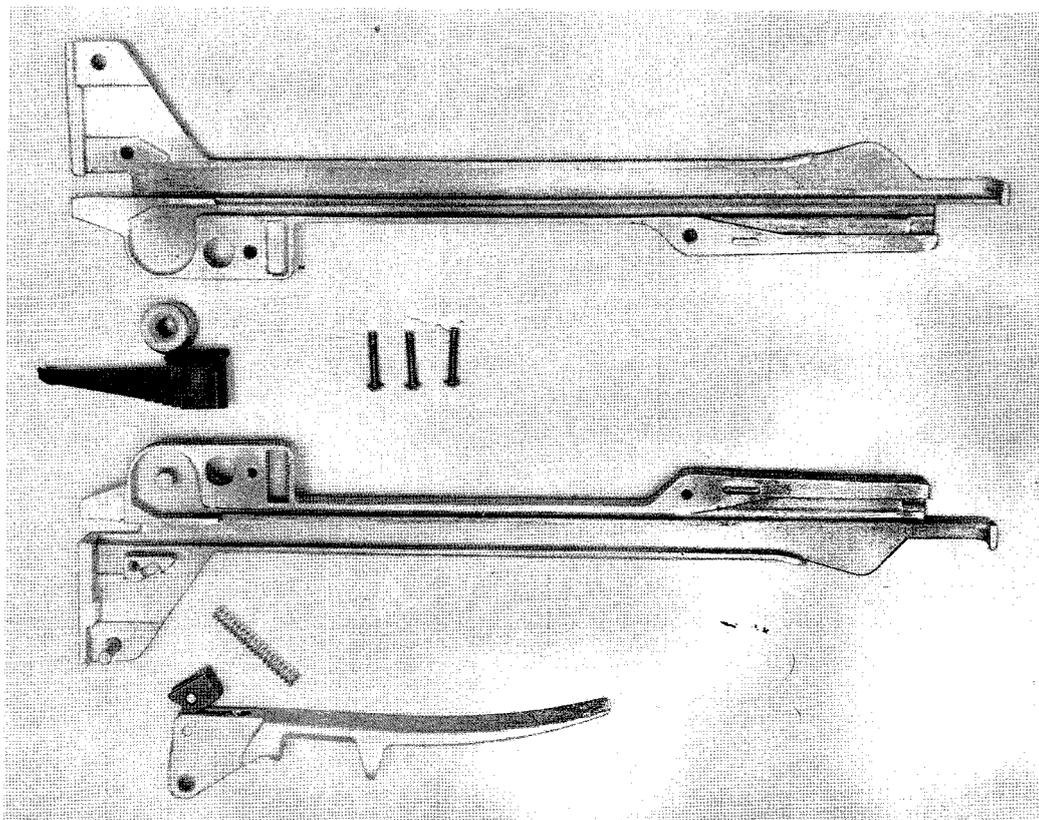


Fig. 10—◆Disassembled H Connector Presser◆