C PNEUMATIC PRESSER
DESCRIPTION AND MAINTENANCE

CONTENTS PAGE

1. GENERAL

1.01 This section covers the description and maintenance of the C Pneumatic Presser (AT-7701) used to press B Wire Connectors.

1.02 This section is reissued to include information on the C Presser Stand which is used as a mounting stand for the C Pneumatic Presser.

1.03 ▶The various gauges and combinations of wire conductors that may be joined with the B Wire Connector are given in Section 632-205-201.◀

1.04 ▶The use of the B Wire Connector and the pneumatic presser in the fold-back method of splicing is covered in Section 632-205-203.◀

2. DESCRIPTION

C PNEUMATIC PRESSER

2.01 The C Pneumatic Presser (Fig. 1) is about 10 inches long, 3-1/2 inches high, and 2-1/4 inches wide. The presser is supplied with an F Presser Die, an E Guard, and 30 feet of 3/16-inch hose. The presser, without hose, weighs about 3-1/2 pounds. The hose is required for connecting the presser to a nitrogen cylinder or air compressor.

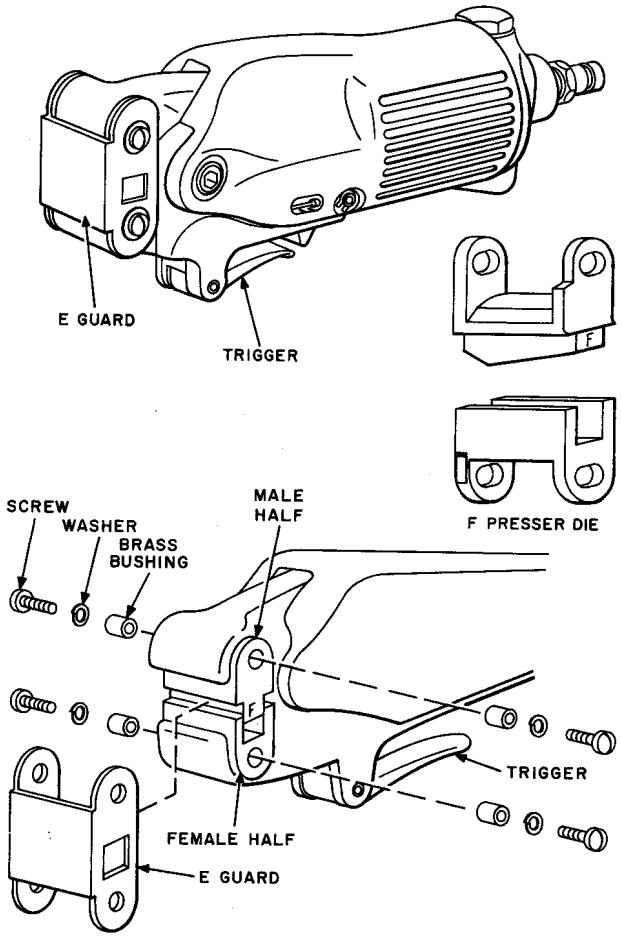

Fig. 1—C Pneumatic Presser and F Presser Die

2.02 The presser is operated by squeezing the trigger firmly.

2.03 Nitrogen gas obtained from a 224-cubic foot nitrogen gas cylinder, a B Nitrogen Cylinder, or air from an air compressor at a line pressure of 75 pounds per square inch (psi) is required for

operating the presser. The C Gas Regulator described in Section 081-601-102 is employed to control the line pressure.

C PRESSER STAND

2.04 The C Presser Stand (Fig. 2) is a mounting support for the C Pneumatic Presser. The stand consists of a baseplate, telescoping support post, and a mounting bracket for the presser. The stand weighs approximately 12 lbs.

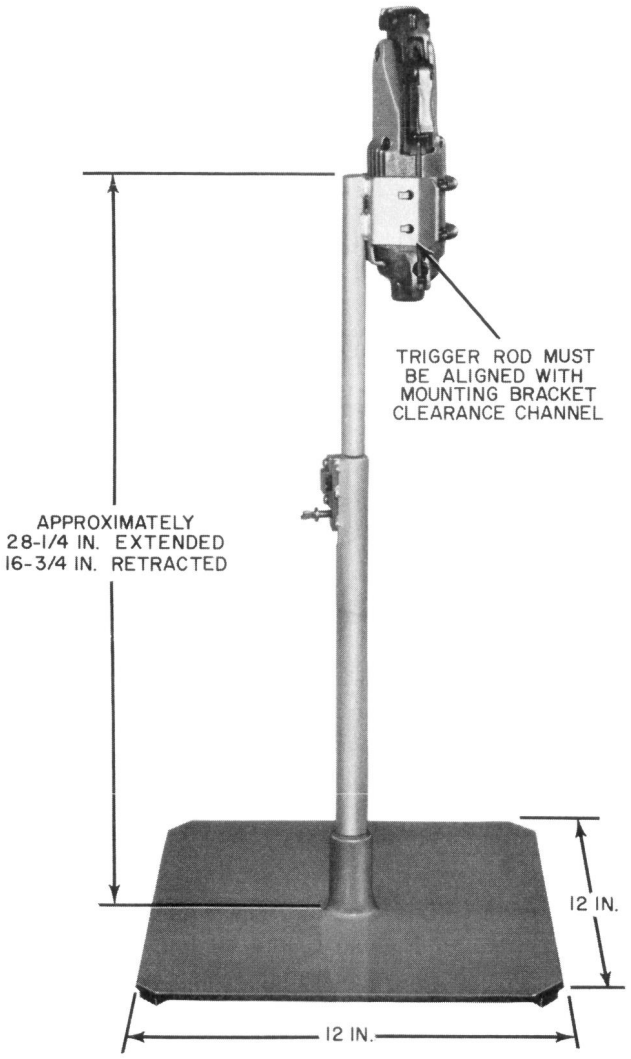

Fig. 2—C Presser Stand

2.05 The presser is secured to the mounting bracket on the stand by means of two helically wound springs which encircle the presser handle. The trigger rod of the presser must be positioned in the clearance channel provided in the mounting bracket.

2.06 The height of the stand is adjustable from approximately 16 inches to 28 inches and is secured in position with a thumb screw. A safety lock prevents accidental separation of the upper section from the base.

3. PRECAUTIONS

3.01 When using the presser as a hand tool, secure the hose to the strand, platform, or cable to prevent the presser from accidentally falling.

3.02 The stand should be securely fastened to prevent accidental falling. The base of the stand may be clamped to aerial or manhole platforms with a C Clamp, if desired.

3.03 While the presser is being used, the regulator low pressure gauge (outlet side) should be set at 75 psi. Do this by turning the regulator adjusting screw clockwise with the cylinder valve open and delivering pressure to the presser. Check the pressure occasionally and readjust the regulator adjusting screw as required (Fig. 3).

3.04 After use, close the cylinder valve and disconnect the hose from the regulator. Unscrew the regulator adjustment screw counterclockwise sufficiently to relieve the pressure on the diaphragm in the regulator.

4. LUBRICATION

4.01 The presser should be lubricated every 4 months. A presser that has not been used for several months or longer should be lubricated before using.

4.02 Lubricate the presser using an oil can containing automobile engine oil (SAE 20, nondetergent type) as covered below:

(a) With the hose disconnected, hold the presser vertically, hose nipple down, and apply the oil as follows:

(1) Two drops of oil to each side of the portion of the movable jaw inside the housing. Allow about 1 minute for the oil to run over the moving parts.

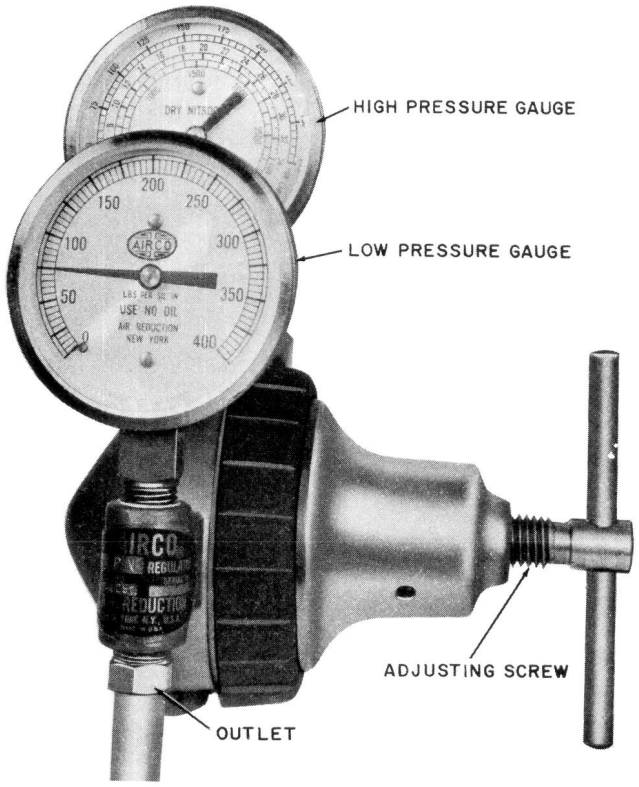

Fig. 3—C Gas Regulator

(2) One drop of oil on each side of the pivot pin on which the movable jaw turns (between the steel part of the jaws), ***not between the aluminum and the steel parts.***

(b) With the hose disconnected, turn the tool so that the nipple is up and apply two drops of oil into the nipple.

(c) Connect the hose to the presser and, with the regulator set at 75 psi, operate the trigger several times to spread the oil inside the cylinder.

Caution: Direct the exhaust away from clothing until the excess oil is expelled.

(d) Wipe excess oil from the presser.

(e) If the presser does not function properly after lubrication, return it for repair.

5. EQUIPPING PRESSER WITH F DIE AND E GUARD

5.01 Disconnect the line hose and mount the F Presser Die and the E Guard in the presser as outlined below:

(a) Place the halves of the die together with the male part in the right hand and the female in the left as shown in Fig. 4.

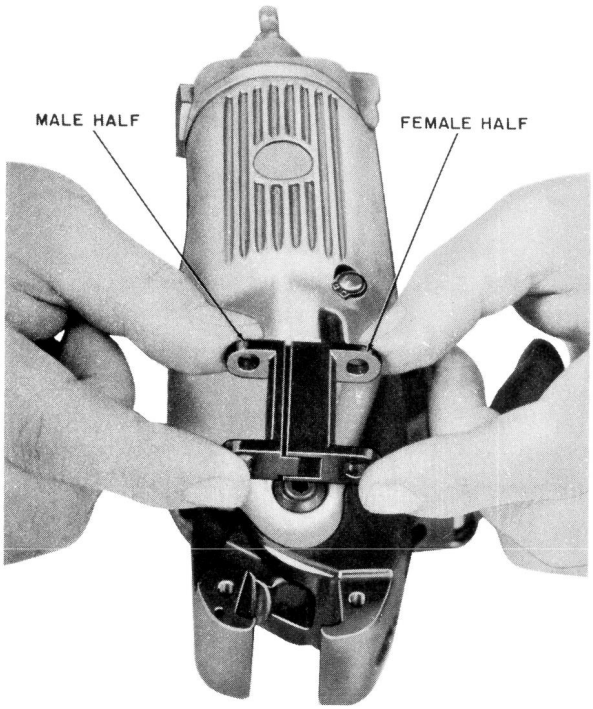

Fig. 4—F Presser Die in Correct Position for Placing in Jaws

(b) Then place the die in the presser, inserting the male part first into the jaw opposite the trigger (Fig. 5).

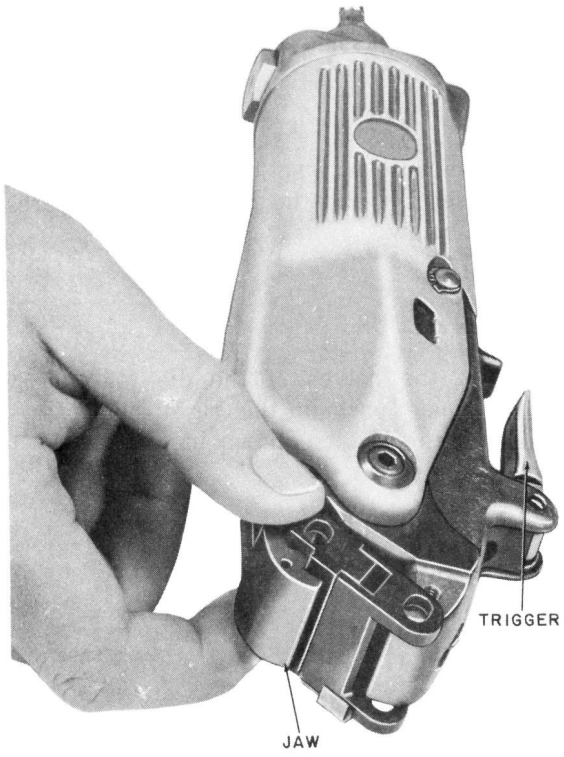

Fig. 5—F Presser Die Placed in Position in Jaws

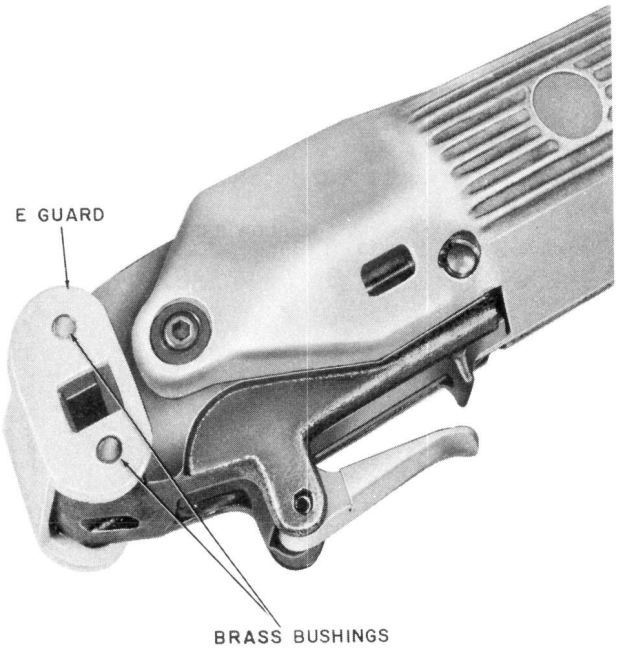

Fig. 6—E Guard in Place with Brass Bushings Inserted

(c) Place the E Guard (with the brass bushings in the punched holes) over the end of the presser (Fig. 6).

(d) Use a screwdriver to tighten the E Guard mounting screws (Fig. 7).

(e) Use a screwdriver to turn the adjustment screw until the hole in the guard is in line with the hole in the die (Fig. 8).

5.02 ***Final Adjustment: Correct adjustment of the die is important.*** A die in proper adjustment is shown in Fig. 9. The adjustment screw should be turned until this setting is obtained.

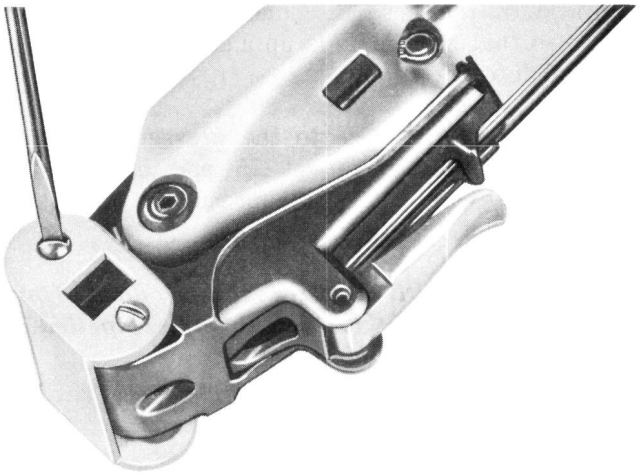

Fig. 7—Screws Holding E Guard Being Tightened

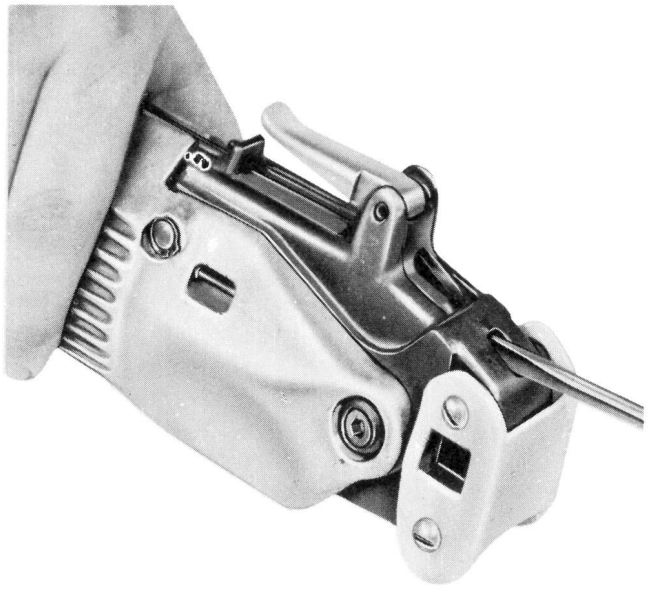

Fig. 8—Adjustment Screw Being Adjusted

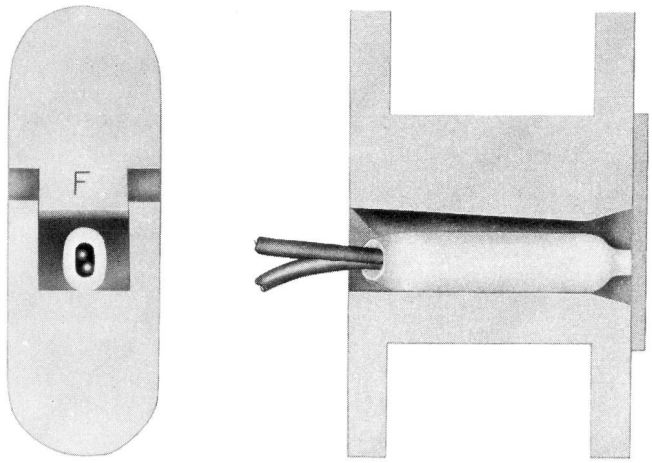

Fig. 10—Die Opening Too Wide

5.04 The die with the opening too close is shown in Fig. 11. With the die in this position, the connector cannot be fully inserted and, as a result, only the end of the connector is pressed.

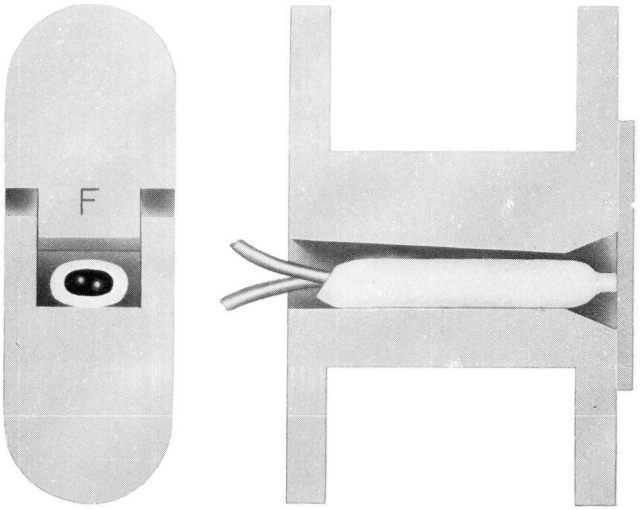

Fig. 9—Proper Die Adjustment

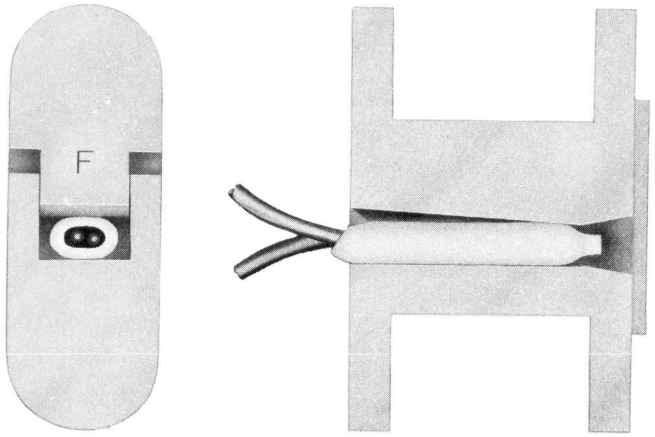

Fig. 11—Die Opening Too Close

In this position, a B Wire Connector can be fully inserted in the die in the correct plane. A B Wire Connector slipped over the ends of two wires should be used for gauging the opening.

5.03 The opening shown in Fig. 10 is too wide. This allows full insertion of the connector but in an improper plane.

6. OPTIONAL AND REPLACEMENT PARTS

▶C PNEUMATIC PRESSER◀

6.01 ▶The following parts for the C Pneumatic Presser are available:◀

Die, Presser, F

Guard, E

Hose (consisting of 30 feet of hose with connectors)

Screws, set (consists of 1 Nylok screw, 5 screws, 5 washers, and 5 bushings)

▶C PRESSER STAND◀

6.02 ▶The following replacement parts are available for the C Presser Stand:◀

▶Base◀

▶Section, Upper (Complete stand without base)◀