C CONNECTOR PRESSER
DESCRIPTION AND MAINTENANCE

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1. GENERAL

1.01 This section covers the description and maintenance of the C Connector Presser used to pneumatically press B Wire Connectors.

1.02 The various gauges and combinations of pulp- and plastic-insulated conductors that may be joined using B Wire Connectors are listed in Section 632-205-201.

1.03 The use of B Wire Connectors in the fold-back splicing method is described in Section 632-205-205.

2. DESCRIPTION

2.01 The C Connector Presser (Fig. 1 and 2) consists of the following:

(a) Modified B Connector Presser

(b) Pneumatic cylinder

(c) Push-button control

(d) Telescoping stand and base

(e) Valve for pressure hose connection.

2.02 The upper section of the presser stand telescopes into the base. The height of the tool is adjustable from approximately 20-1/2 inches when fully retracted to approximately 32 inches when fully extended.

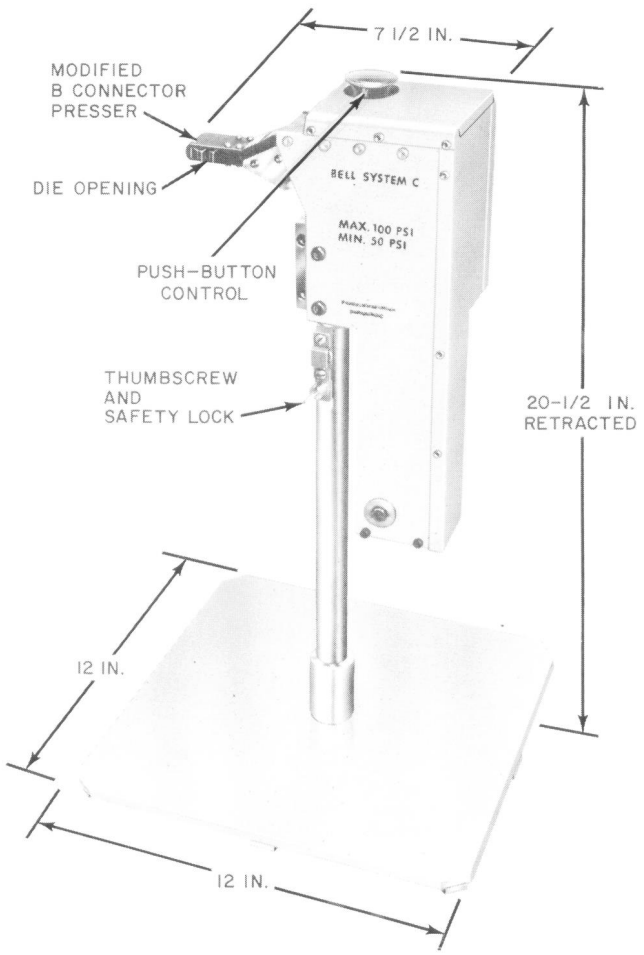

Fig. 1—C Connector Presser—Retracted

2.03 The upper section is held in position by a thumbscrew. A safety lock prevents accidental separation of the upper section and base.

2.04 The C Connector Presser weighs approximately 20 pounds.

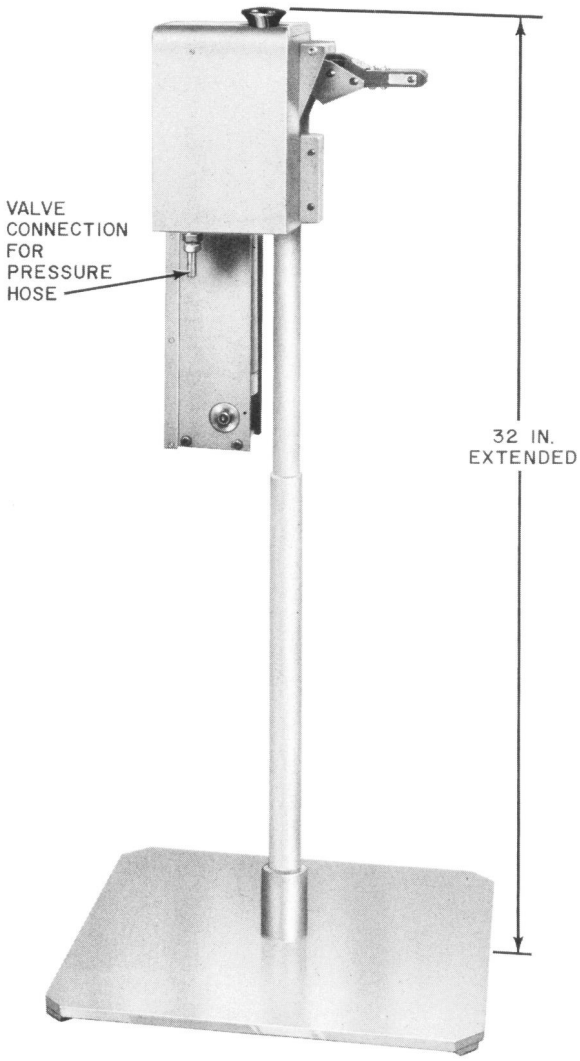

Fig. 2—C Connector Presser—Extended

2.05 Each presser housing is marked with the following information:

(a) BELL SYSTEM C

(b) Maximum and minimum operating pressures

(c) Date of manufacture

(d) Name of manufacturer.

OPERATION

2.06 The following items are required to operate the C Connector Presser:

(a) Nitrogen gas cylinder (Section 637-300-100)

(b) C Gas Regulator (Section 081-601-102)

(c) Pressure hose (Section 081-330-104).

2.07 The C Gas Regulator (Fig. 3) is used to vary the operating pressure between 50 and 100 psi, depending upon the number and type of conductors being joined.

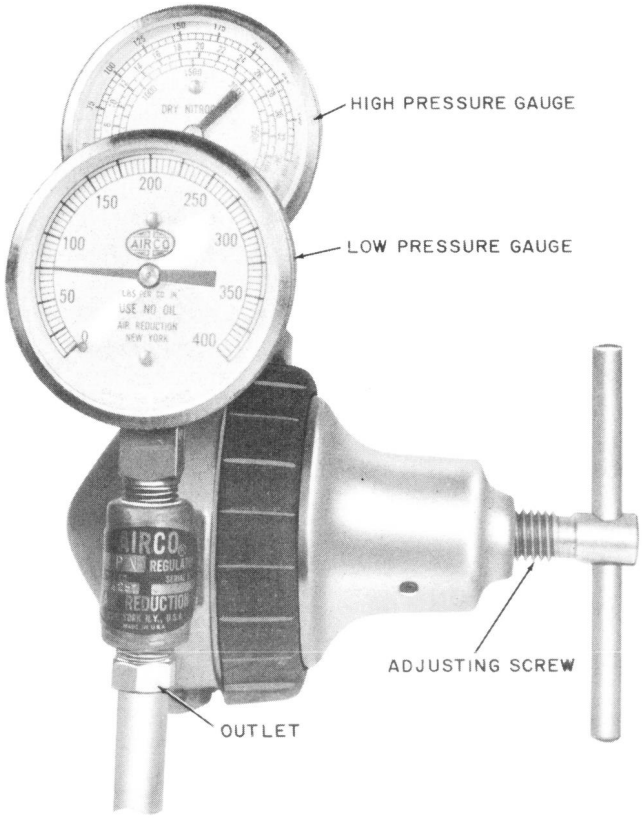

Fig. 3—C Gas Regulator

2.08 The C Connector Presser is operated by pushing the control button at the top of the presser housing (Fig. 1). Depressing the pushbutton activates a pilot valve that causes the pneumatic cylinder ram to fully close the movable handle of the presser, provided that the operating

pressure is sufficient to overcome the load of conductors and connector. When the handle is fully closed, a second pilot valve is automatically activated causing the ram to return the presser handle to the open position. This cycle ensures a complete press of the B Wire Connector.

2.09 To obtain the maximum number of presses from a nitrogen cylinder, the operating pressure should be adjusted no higher than required to complete a pressing cycle (2.08).

3. PRECAUTIONS

3.01 When using the C Connector Presser during splicing operations, fasten the presser to prevent accidental falling. The base of the stand may be clamped to aerial or manhole platforms with a C Clamp.

3.02 Do not exceed the 100 psi maximum operating pressure of the tool. Check the pressure occasionally and readjust the pressure regulator as required.

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

3.04 The C Connector Presser is a precision tool and should be handled accordingly. If the tool is accidentally dropped or struck, it should be carefully examined and replaced if damaged.

4. MAINTENANCE

4.01 C Connector Pressers are factory adjusted. No maintenance other than lubrication (4.02), testing (4.03), and replacement of the parts listed in Part 5 is required. For all other maintenance and cleaning, return the presser in accordance with local instructions.

LUBRICATION

4.02 When in daily use the C Connector Presser should be lubricated weekly and otherwise as required. Use light machine oil and lubricate the tool as follows:

(a) Apply one drop of oil to the two pivot points at the base of the pneumatic cylinder (Fig. 4).

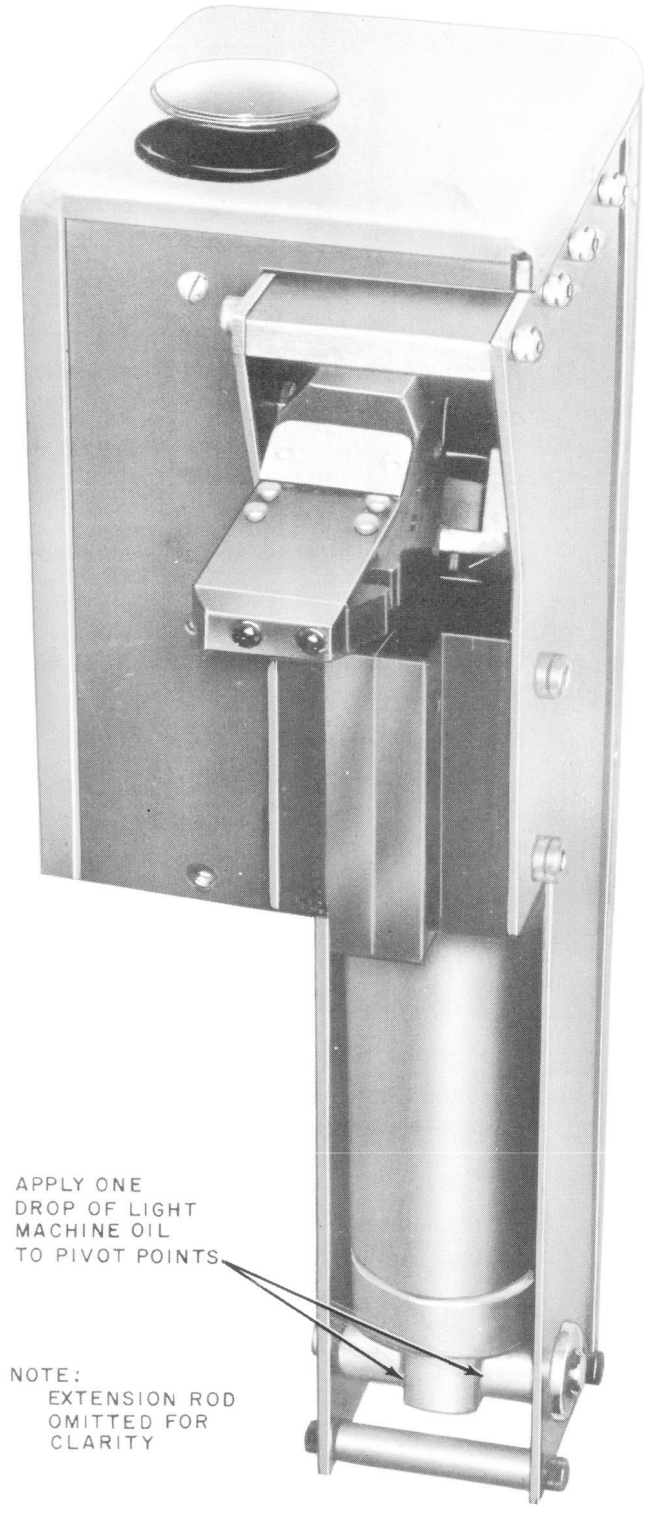

Fig. 4—Lubricating Points at Cylinder Base

(b) Apply one drop of oil to each of the two pivot points on the yoke assembly and the inside surfaces of the side plates as shown in Fig. 5.

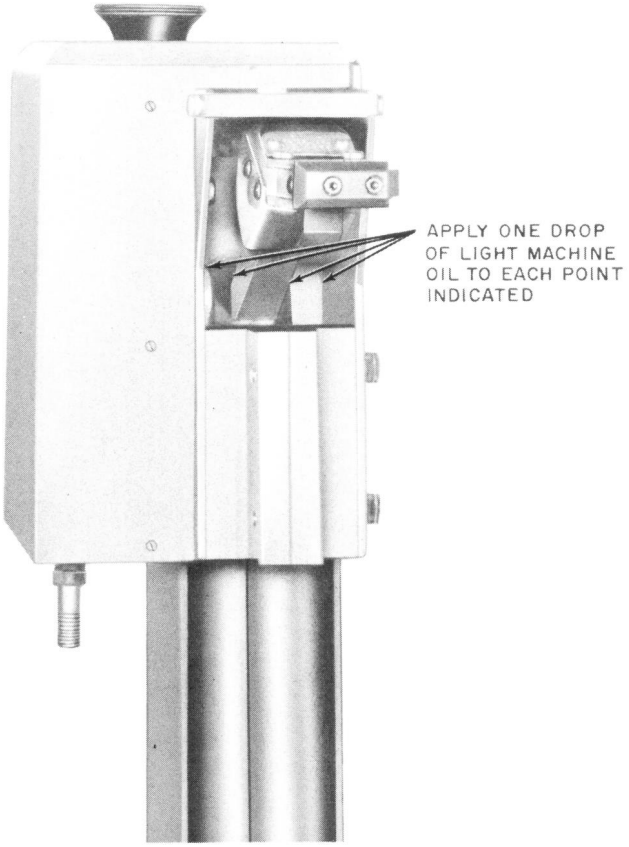

Fig. 5—Lubricating Points on Yoke Assembly (Horizontal Position—Nose Up)

(c) Remove the presser guard by using a 5/64-inch hexagonal Allen Key Wrench (Fig. 6).

(d) Invert the tool and apply one drop of oil at the end of the movable handle and at the sides of the movable handle near the pivot pin (Fig. 7). Keep the tool inverted long enough to allow the oil to flow into the handle linkage.

(e) Place one drop of oil in the input valve.

TESTING

4.03 ***Test the presser for correct adjustment before use each day.*** Insert a 3-inch length

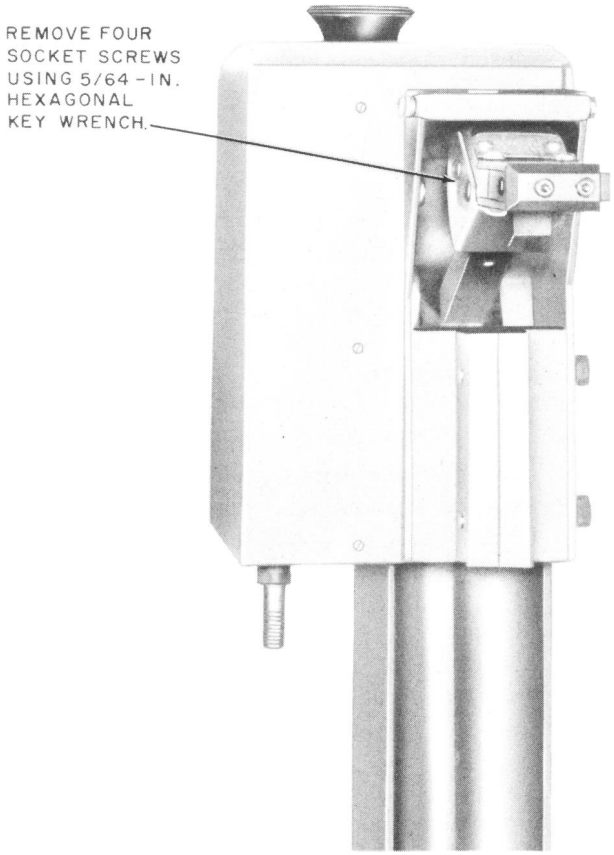

Fig. 6—Guard Removal

of B Stearine Core Solder between the presser dies and operate the tool. The pressed end of the solder should fit into the gauging slot of the presser guard. Repeat this test several times using new pieces of solder. ***If the solder does not fit into the slot, the presser should be returned for adjustment in accordance with local procedure.***

Note: When pressing certain combinations of conductors, such as two 19-gauge and one 20-gauge, very high forces are developed within the C Connector Presser. These forces may cause more rapid wear of the tool. When pressing these combinations, the presser should be gauged more frequently.

5. REPLACEMENT PARTS

5.01 The following are available as replacement parts for the C Connector Presser:

Guard, for B Connector Presser

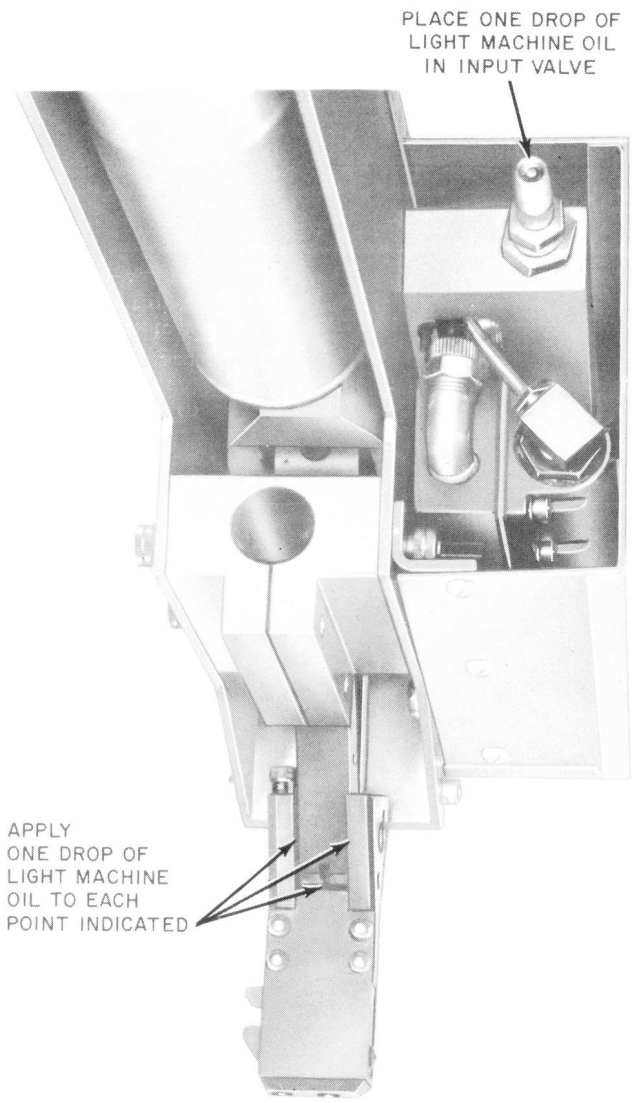

Fig. 7—Connector Presser Lubrication (Inverted Position)

Base

Section, Upper (complete presser, less base)

5.02 Special attention should be paid to the condition of the presser guard. Distortion of the gauging slot may occur if the presser guard is accidentally bent.