

SLACK PULLERS

DESCRIPTION AND MAINTENANCE

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1. GENERAL

1.01 This section replaces Section 081-020-150 and describes the slack pullers used in temporarily deflecting suspension strand to obtain sufficient slack in aerial cable during splicing and repair operations.

1.02 This section is reissued to add a shackle and safety chain to the F slack puller.

1.03 Use and precautions pertaining to the F slack puller are covered in Section 632-300-205.

2. F SLACK PULLER

2.01 The F slack puller consists of a welded-steel arch-shaped frame supporting grooved rollers at each end, a lifting screw assembly, and a ratchet handle (Fig. 1). Attached to the frame is a shackle and safety chain to prevent accidental dropping from the strand.

2.02 The screw assembly is equipped with a thrust-type ball bearing at the top and a hook on the lower end which engages the strand. The screw is also equipped with a stop to prevent accidental separation of the screw from the frame. The ends of the arch supporting the rollers have been rounded and beveled to prevent the strand from accidentally resting on the frame instead of the grooved rollers.

2.03 The F slack puller differs from the superseded E Model in that it is provided with an 8-inch

ratchet handle. The ratchet is reversible and is equipped with a control to permit right- or left-hand operation of the screw assembly.

2.04 Position the ratchet control for right-hand operation so that the handle operates the screw sleeve clockwise to deflect the strand, thereby obtaining slack in the cable.

2.05 Position the ratchet control for left-hand operation to permit counterclockwise rotation of the screw sleeve to return the deflected strand to its normal position.

3. SUPERSEDED PULLERS

3.01 Slack pullers which are superseded but still in use are discussed below. All have approximately the same dimensions indicated in Fig. 1 for the F puller.

E SLACK PULLER

3.02 The E slack puller (Fig. 2) is similar to the F slack puller except that it is operated by a sliding removable handle instead of a ratchet.

D SLACK PULLER

3.03 The D slack puller (Fig. 3) is similar in design to the E slack puller except that the D puller does not have ball bearing action, and therefore, the turning effort required is essentially doubled. A second difference is that the ends of the frame are beveled but not rounded.

C SLACK PULLER

3.04 The C slack puller (Fig. 4) is similar in design to the D puller, except that the lifting screw is not equipped with a stop to prevent accidental separation, and the sliding handle is not removable.

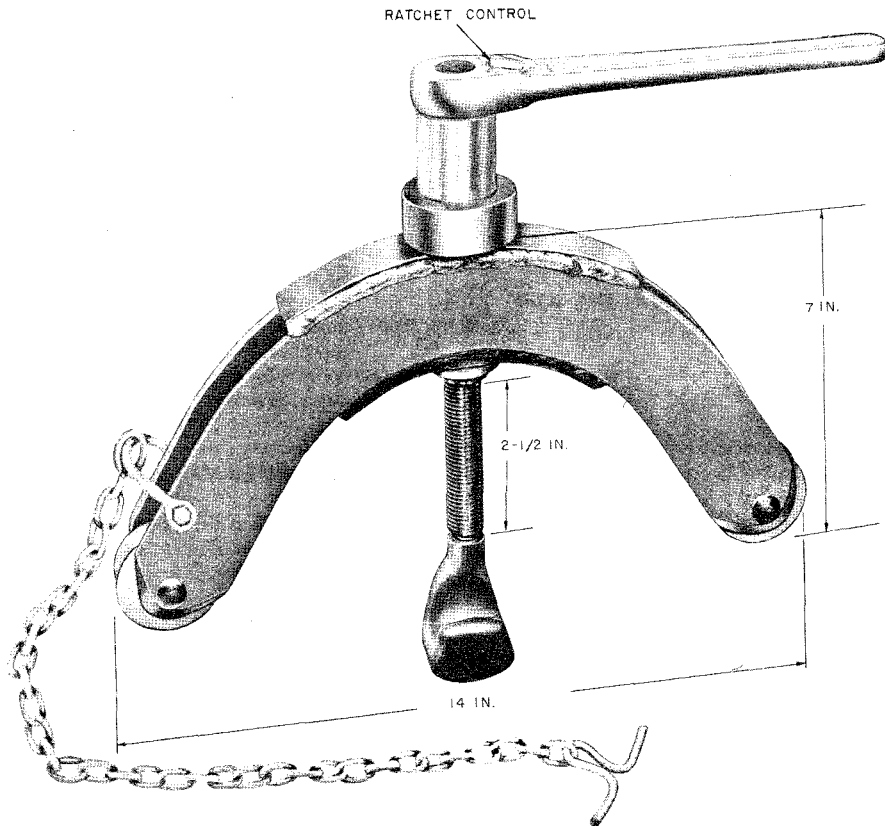


Fig. 1—F Slack Puller

B SLACK PULLER

3.05 The frame of the B slack puller (Fig. 5) is V-shaped rather than oval and the two ends which support the grooved rollers are neither rounded nor beveled. The screw assembly consists of a machine bolt, a nut, a shackle with a grooved roller, and a shackle pin. The roller and pin are

attached to the shackle with short lengths of chain to prevent being lost. The pin is also equipped with a slotted key to lock the pin in place. The strand is positioned by removing the center roller, inserting the strand, and replacing the center roller. The puller is operated by turning the nut with a lineman's wrench.

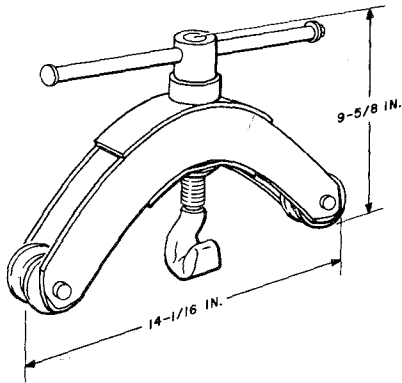


Fig. 2—E Slack Puller

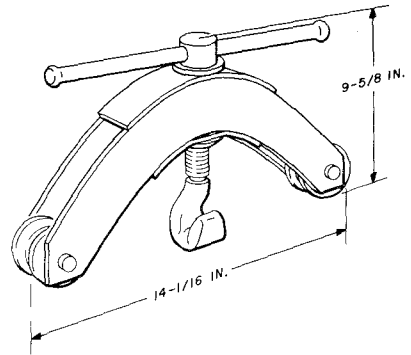


Fig. 4—C Slack Puller

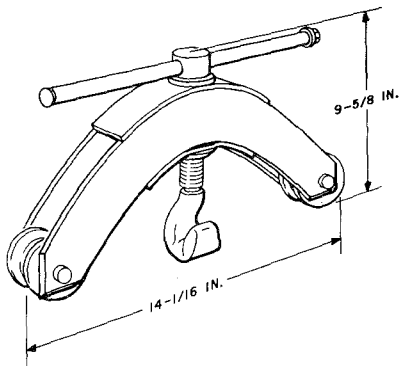


Fig. 3—D Slack Puller

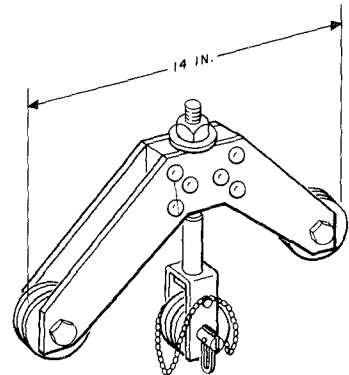


Fig. 5—B Slack Puller

4. MAINTENANCE, LUBRICATION, AND STORAGE

- 4.01 Wipe off slack pullers frequently to remove moisture and dirt.
- 4.02 Periodically lubricate the bearing, screw assembly, and ratchet mechanism with a

light coat of ordinary engine oil, taking care not to get oil on the handle.

- 4.03 Store slack pullers in areas that are relatively clean and dry, and with the hook fully retracted to protect the threads.