

CABLE LEADERS

DESCRIPTION AND MAINTENANCE

1. GENERAL

1.01 This section covers the description, maintenance, and replacement parts for D and E Cable Leaders.

2. DESCRIPTION

2.01 D Cable Leader: The D Cable Leader shown in Fig. 1 consists of a tipper assembly, a grip assembly, and six hinged weights which normally hang vertically to resist cable and strand rotation. The weights are arranged to fold into the supporting framework when passing over a roller at a pole. The grip assembly is for connection to the cable and strand, and accommodates a 10M chuck or through the use of a chuck adapter, a 6M chuck, for gripping the strand. The forward end of the tipper has a hook with a screw keeper for connection to the pulling line.

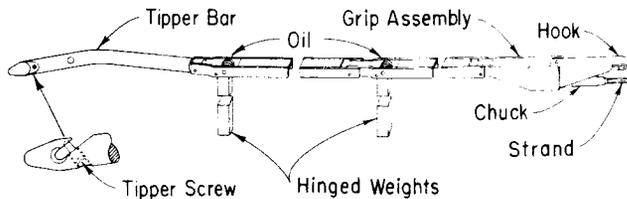


Fig. 1 — D Cable Leader

2.02 To attach the suspension strand to the cable leader, 6M or 10M chucks are used as shown in Fig. 2.

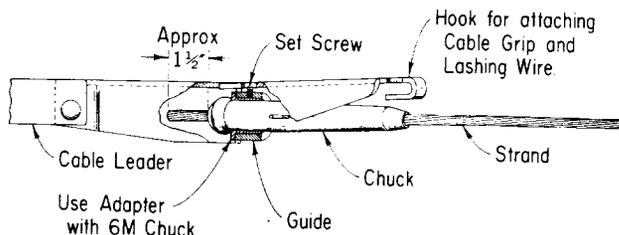


Fig. 2 — D Cable Leader Grip Assembly

2.03 To attach the cable to the cable leader, place a cable grip of the proper size on the cable and attach the eye of the grip to the hook provided on the cable leader as shown in Fig. 3.

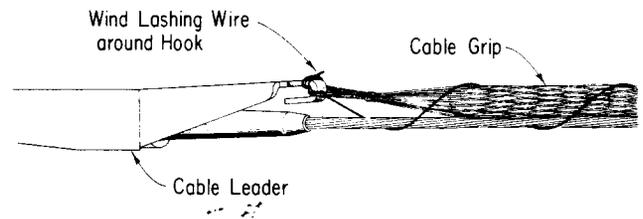


Fig. 3 — D Cable Leader With Cable and Strand Attached

2.04 The D Cable Leader is used only with E Cable Blocks and associated cable block frames, and *cannot* be used with B or C Sheave Supports.

2.05 E Cable Leader: The E Cable Leader shown in Fig. 4 is designed for use with B and C Sheave Supports and consists of a tipper assembly, a pulling chuck, and eight hinged weights which normally hang vertically to resist cable and strand rotation. The weights are arranged to fold into the supporting framework when passing over a roller at a pole. The pulling chuck is for connection to the cable and strand and accommodates 6M strand only. The forward end of the tipper has a hook with a screw keeper for connection to the pulling line. Where there is no objection to spiraling of the cable, the chuck may be removed from the leader and the pulling line attached to the chuck screw.

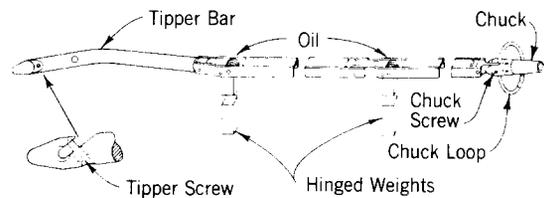


Fig. 4 — E Cable Leader

2.06 To attach the suspension strand to the cable leader chuck, it is important that the strand is not pushed against the chuck screw as this will not allow enough space for attachment to the leader or pulling line. The strand should protrude into the mounting slot about 1/4 inch, as shown in Fig. 5.

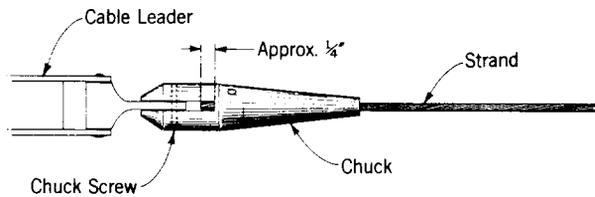


Fig. 5 — E Cable Leader Chuck

2.07 To attach the cable to the cable leader, place a cable grip of the proper size on the cable and attach the chuck loop to the eye of the grip by feeding the loop through the eye and back through itself. The chuck loop is then placed through the mounting slot in the chuck as shown in Fig. 6.

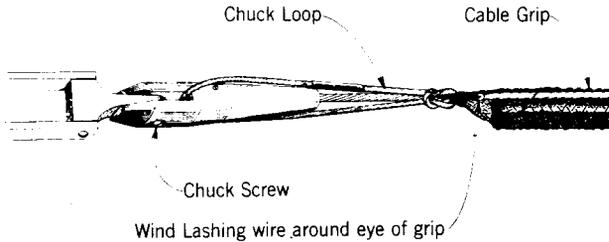


Fig. 6 — E Cable Leader With Suspension Strand and Cable Attached

2.08 To remove the suspension strand from the pulling chuck, proceed as follows:

- (1) Remove the chuck screw.
- (2) Remove the chuck from the cable leader.
- (3) Remove the chuck loop and the cable grip.
- (4) Cut the suspension strand approximately 8 inches from the end of the chuck.
- (5) Push the suspension strand through the chuck until the strand can be gripped from the mounting slot end and removed.

3. MAINTENANCE

3.01 D and E Cable Leaders: The leaders should be inspected periodically with particular attention to the following:

- (a) The hinged weights should operate freely and return to the extended position under spring force alone when the leader is lying on its side. Lubricate the bearings with SAE 40 motor oil as required.
- (b) Examine the frame, weights, springs, and cable connectors for broken welds, cracks, loose or worn rivets, or any deformation. If any doubt exists as to serviceability of the leader, it should be returned for repair in accordance with local instructions.
- (c) At the start of each pull, with the load applied, examine the strand and the chuck for any evidence of slippage. If slippage is observed, stop the pull and replace the chuck. With careful handling, chucks may be used approximately 25 times before replacement.
- (d) E Cable Leader only—Examine the chuck loop. If there is evidence of wear, replace the chuck loop.

4. REPLACEMENT PARTS

4.01 Replacement parts available for the D Cable Leader shown in Fig. 1 are:

Chuck, 6M
 Chuck, 10M
 Adapter, Chuck
 Screw, Tipper

4.02 Replacement parts available for the E Cable Leader shown in Fig. 4 are:

Chuck, 6M (includes chuck loop)
 Screw, Chuck
 Loop, Chuck
 Screw, Tipper