

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

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LASHED AERIAL CABLE

HANDLING OF D CABLE LASHER

Contents	Page
1. General	1
2. Placing Wire in Lasher	1
3. Placing Lasher on Strand	3
4. Pulling Lasher along Strand	6
5. Transferring Lasher around Pole	6
6. Removing Lasher from Strand	8

1. GENERAL

1.01 This section covers the handling of the D Cable Lasher. This lasher uses 045 C Steel Lashing Wire and lashes aerial cables on suspension strands up to and including 25,000-pound strand. The D lasher may also be used to lash two or more cables to a single suspension strand provided the diameter of the cable assembly does not exceed three inches which is the maximum diameter which will pass through the lasher.

1.02 The methods involved in terminating lashing wire, and placing and arranging supports, spacers, and shields are as shown in the Sections covering the arrangements of lashed cable supports and handling the C Cable Lasher.

2. PLACING WIRE IN LASHER

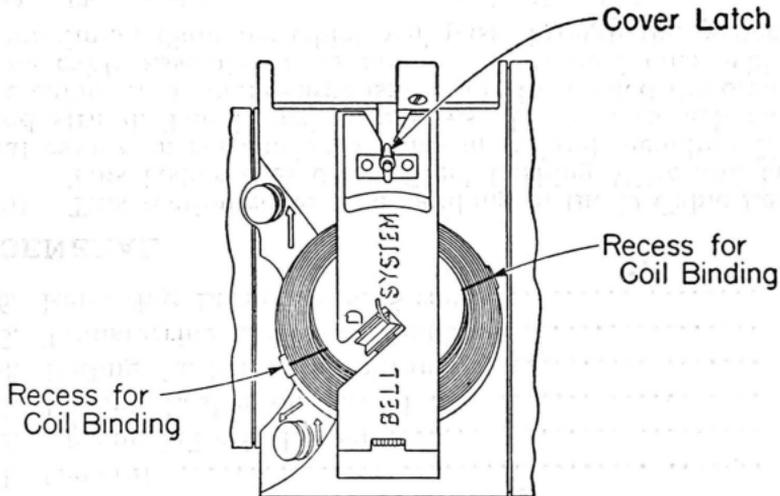
2.01 Prepare the coil as follows:

- (1) Cut and remove coil binding holding the looped end of the wire at center (inside end) of coil.
- (2) Cut and remove opposite binding. Do not cut the other two bindings.
- (3) Pull out the looped end of wire until first turn is tight against the binding and cut off loop. Unwind about one foot of wire from the inside of the coil. Loose end should emerge from face side of coil.

- (4) Cut off the loop on the end of the lashing wire on the outside of the coil to prevent snarling of the coil.

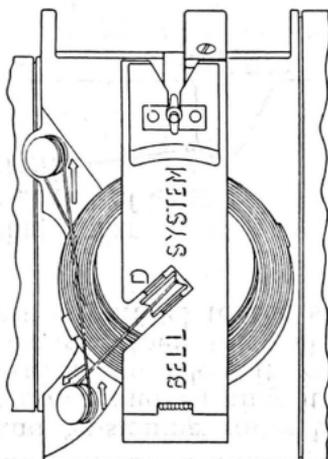
2.02 Place the coil in the machine as follows:

- (1) If the coils are installed aloft, see that the strand tensioning roller is engaged under the strand, the rear cable lifter is closed, the pulling plate gate is open and the rotating drum of the lasher is locked.
- (2) Loosen wing nut on cover latch and open latch. Cover will open automatically.
- (3) Place coil in magazine. Face of coil should be toward open side of magazine. Position coil with the two coil bindings in the recesses. Feed the loose end (inside end) of wire from the center of the coil through the throat in the cover.



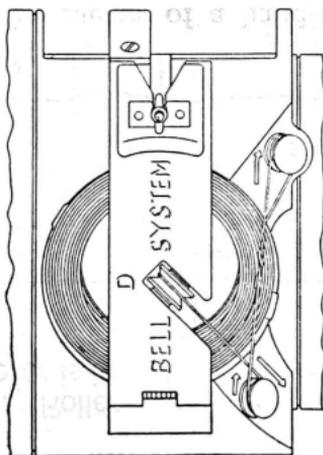
- (4) Close cover, latch, and tighten wing nut until cover contacts coil lightly.
- (5) Cut the two remaining bindings and remove them. (If portions of the bindings are not removed, they may cause snagging of the lashing wire.)
- (6) Tighten the wing nut as far as it will go **by hand**. Do not use pliers.
- (7) Thread lashing wire around the snubbing pulleys in the direction of the indicating arrows and wind the free end of the lashing wire as shown so that it does not project or dangle from the lasher.

LEFT SIDE



Front of Lasher →

RIGHT SIDE



← Front of Lasher

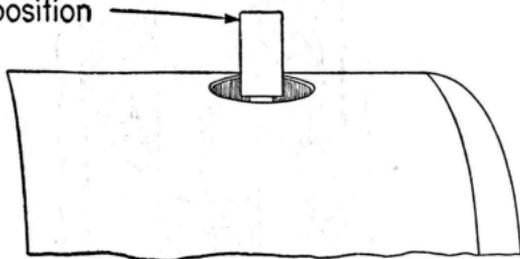
3. PLACING LASHER ON STRAND

3.01 After removing lasher from carrying case and installing lashing wire proceed as follows:

- (1) Make certain pulling plate gate is open and rotating drum locked in position.

- (2) Open rear cable lifter, adjust it to the lowest position and close it.
- (3) Adjust rear vertical cable rollers to their widest opening.
- (4) Strand tensioning roller should be in the open position. When strand tensioning roller lever (between strand drive wheels at top of lasher) is crosswise, the roller is in the open position.

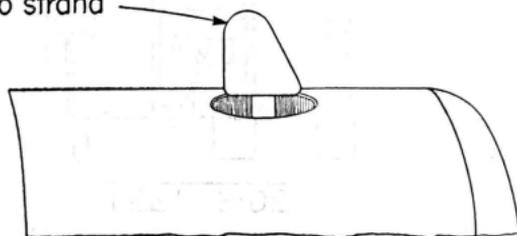
Strand Tensioning Roller is open when lever is in crosswise position



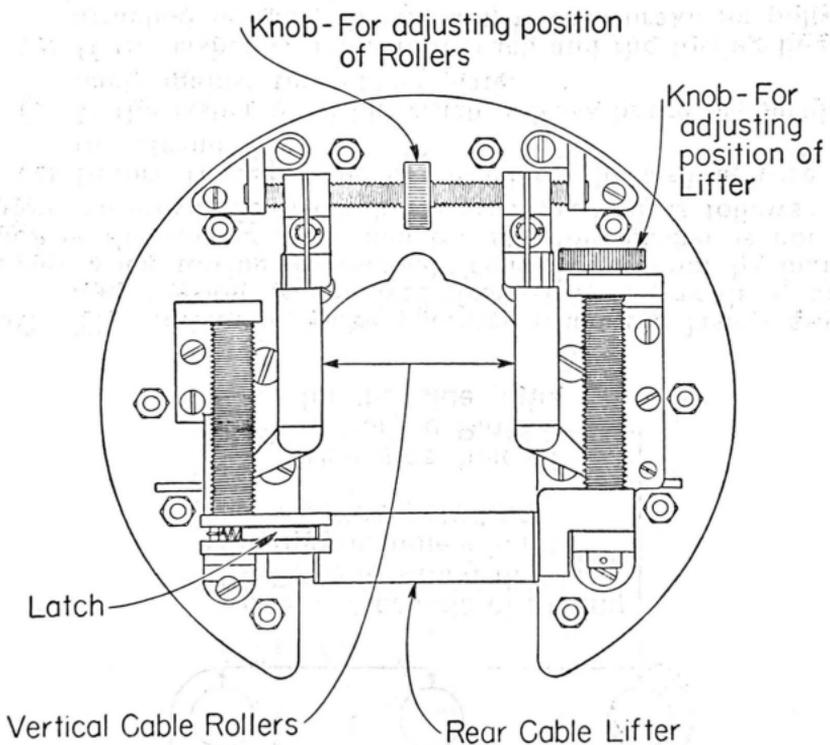
3.02 Raise lasher by means of a hand-line attached to the handle.

- (1) Open rear cable lifter.
- (2) In placing the lasher on the strand, be sure that the strand drive wheels and small rear trailer wheel are properly positioned on the strand.
- (3) Engage strand tensioning roller by pressing the lever all the way down and turning it counterclockwise to the end of its travel and allow it to rise. This locks the lasher on the strand. When the roller is in the engaged position, the lever is parallel to the strand.

Strand Tensioning Roller is engaged when flat of lever is parallel to strand



(4) Raise the cable to the strand, close the rear cable lifter and let the cable rest on the roller. Estimate the amount the roller should be raised to elevate the cable to within **1/4 inch** of the strand. Open the cable lifter, lower the cable clear of the opening and turn the adjusting knob on top of the vertical threaded post until the lifter is raised the desired amount. Raise cable and close lifter. Then adjust position of vertical cable rollers to contact the sides of the cable. These adjustments need not be changed as long as the same diameter cable is being lashed.

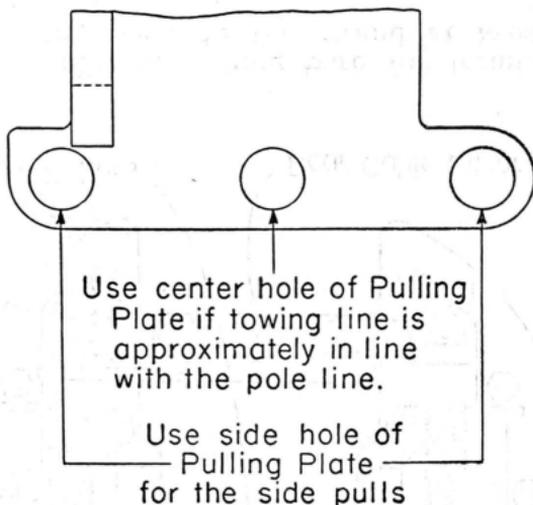


(5) Pull out sufficient lashing wire for terminating, and clamp lashing wire to the strand **at least one foot behind the lasher.**

(6) Close pulling plate gate.

4. PULLING LASHER ALONG STRAND

4.01 Attach towing link, as follows:



4.02 The automatic brake operates when the lasher stops and tension is removed from the towing line, and releases when towing is resumed. Tension need not be maintained in the towing line when the D Cable Lasher is not in motion. To move the lasher backwards, proceed as follows:

- (1) Before releasing the brake, clamp the lashing wire to the strand.
- (2) If the lasher is within reach, release brake by pushing back against the pulling plate.
- (3) If the lasher is not within reach and the towing line is attached to the pulling plate, release brake by pulling back on the towing line.

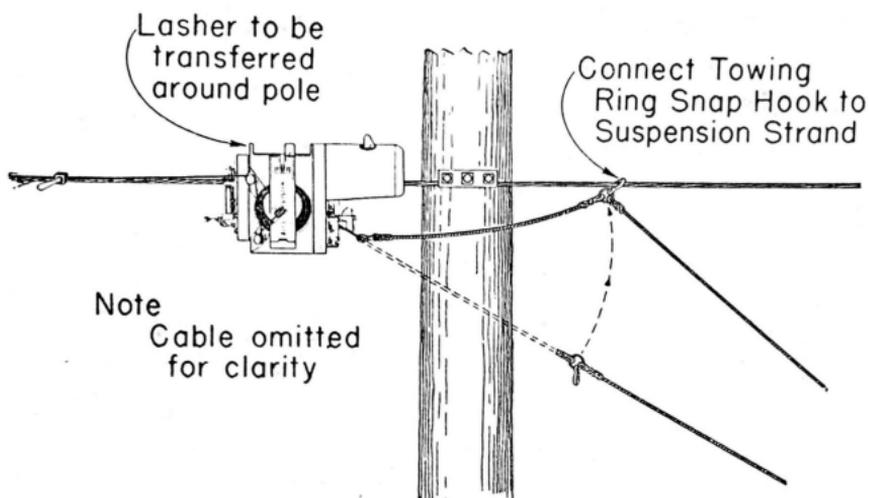
4.03 Where a splice in the span is located less than 10 feet from a pole or strand crossover, do not lash this short section of cable. Place supports as shown in the appropriate sections of the Practices.

5. TRANSFERRING LASHER AROUND POLE

5.01 In transferring the lasher around a pole from one span to another, and at strand crossovers proceed as follows:

- (1) Clamp the lashing wire to the strand.

- (2) Pull out sufficient wire for terminating and cut it off.
- (3) Open the pulling plate gate all the way.
- (4) Move the lasher forward or backward along the strand until the drum locks.
- (5) Connect towing ring snap hook to the suspension strand on the other side of the pole and open the rear cable lifter.



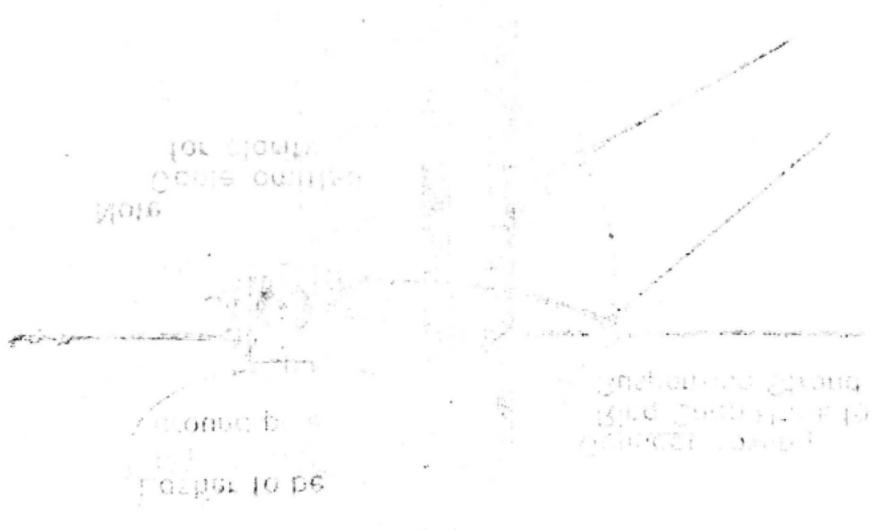
- (6) Press down strand tension roller lever and turn it clockwise to a position crosswise of the strand. This unlocks the lasher from the strand.
- (7) Raise the lasher from the strand and place on the strand in the next span as described in Part 3.
- (8) Disconnect towing ring snap hook from the strand.
- (9) Before lashing the next span, check the amount of lashing wire remaining in the lasher. When a coil has been used to the point where the thickness of the remaining portion is about 1/4 inch, approximately 200 feet of wire are left. If it is estimated that there is not enough wire remaining in the coil to lash the next span, wind the free end of the lashing wire around the upper snubbing pulley so that it does not project or dangle from the lasher unless the coil is to be replaced at this time.

6. REMOVING LASHER FROM STRAND

6.01 In removing lasher from the strand preparatory to lowering it to the ground, proceed as follows:

- (1) After the lashing wire has been clamped to the strand and sufficient lashing wire has been pulled out and cut off, secure the end of the lashing wire around the upper snubbing pulley.
- (2) Open pulling plate gate all the way.
- (3) Move the lasher forward or backward along the strand until the drum locks.
- (4) Open the rear cable lifter.
- (5) Remove towing line, attach hand-line to handle, and release strand tensioning roller.
- (6) Raise lasher from strand, close rear cable lifter, and lower lasher.

6.02 The lasher should be kept in the carrying case, with the pulling plate gate open, at all times when not in actual use.



- (1) ...
- (2) ...
- (3) ...
- (4) ...
- (5) ...
- (6) ...