

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G52.122.3
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LASHED AERIAL CABLE

HANDLING OF "D" NEALE SPINNER

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1. GENERAL

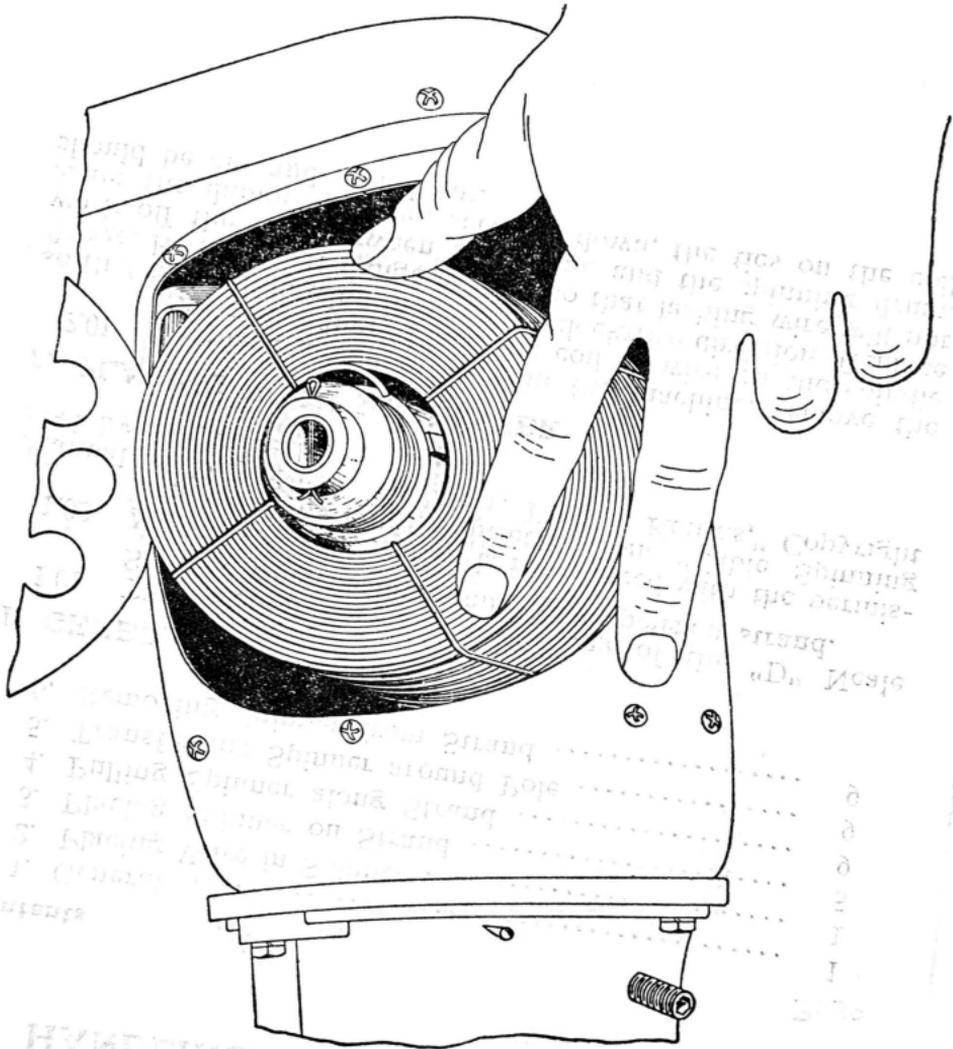
- 1.01 This section covers the handling of the "D" Neale Spinner when lashing cable to suspension strand.
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2. PLACING WIRE IN SPINNER

2.01 To place a coil of wire in the machine, remove the wire reel flange. Place the coil of wire on the spindle so that coil will unwind in a counterclockwise direction. Replace flange. Be sure that flange is tight so that lashing wire will not work off the reel between the flange and the spinning drum. After the flange has been screwed down, the ties on the coil should be cut and pulled out.

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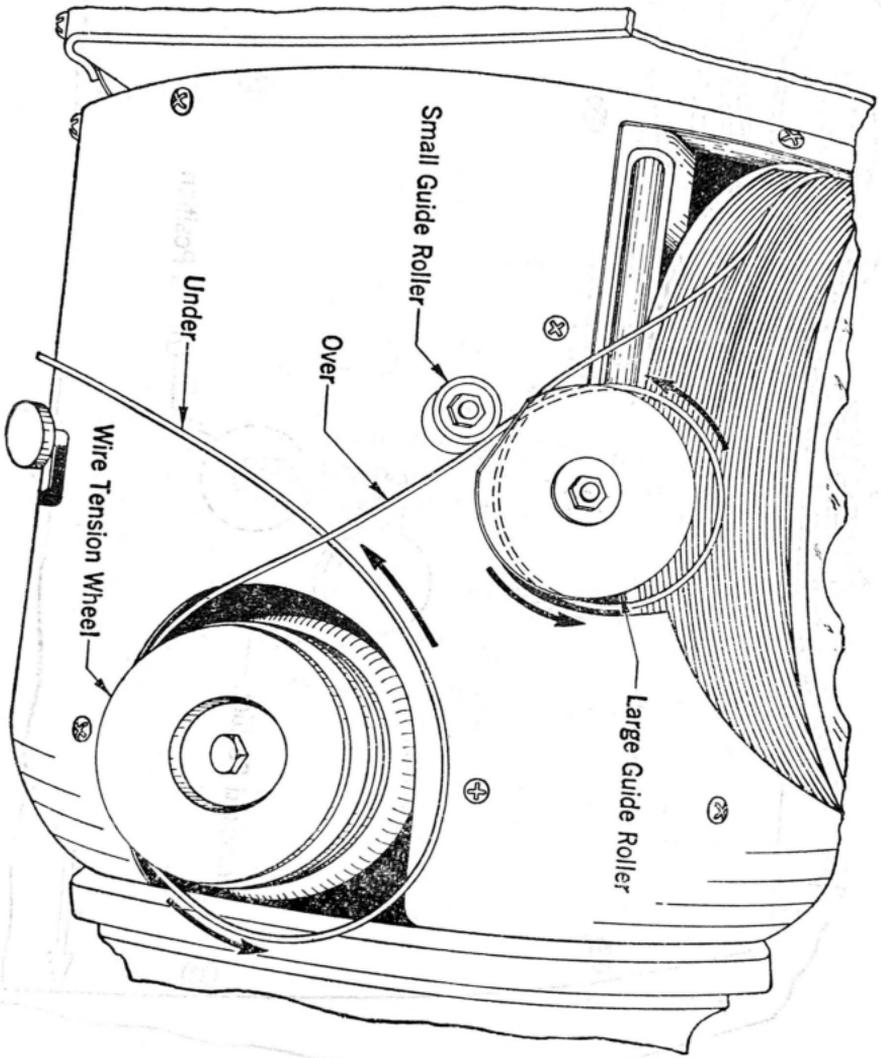
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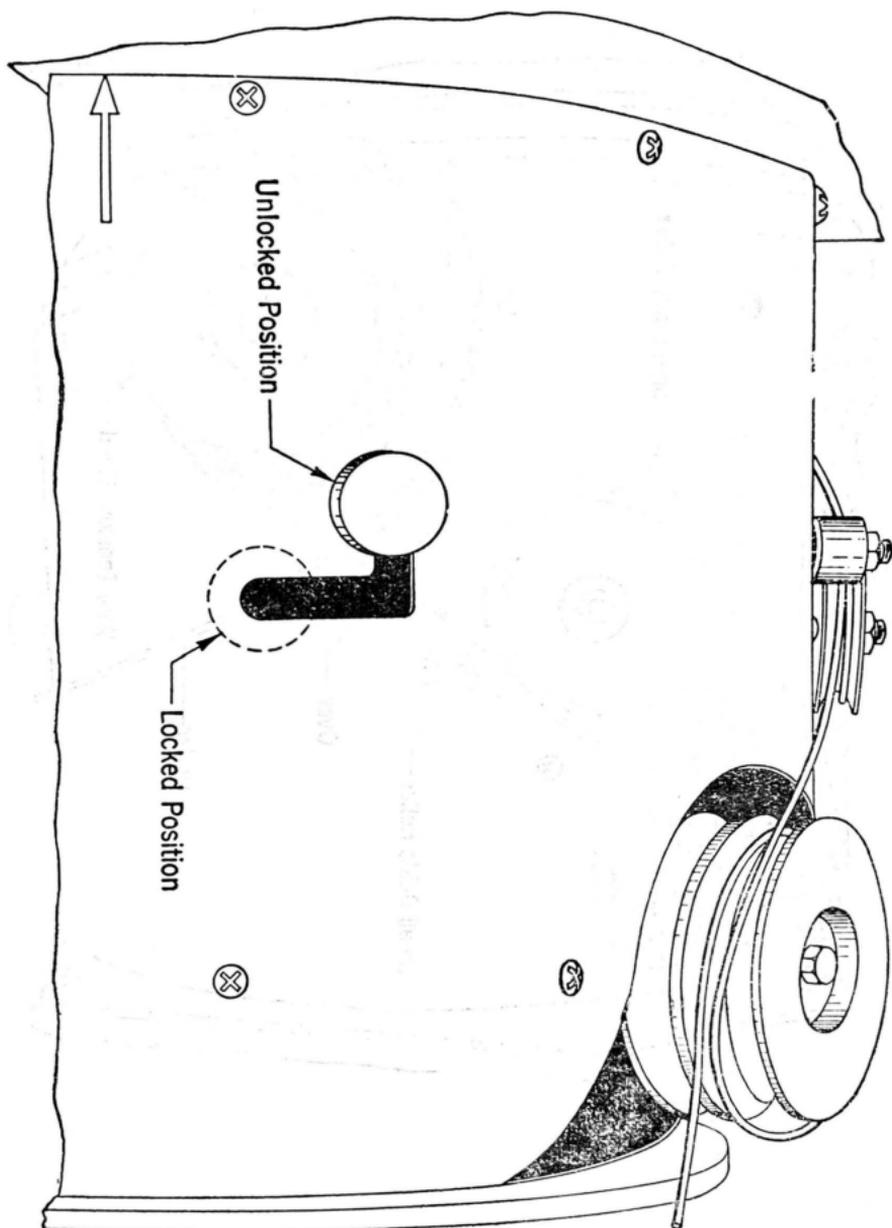


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2.02 The amount of tension in the lashing wire depends on the position of the guide rollers and the manner in which the guide rollers and the wire tension wheel are threaded. When the spinner leaves the factory, the guide rollers are positioned so that when the lashing wire is correctly threaded, the proper amount of tension is obtained. To thread the lashing wire, pass the wire around the large guide roller in an anti-clockwise direction (viewed from top of roller) and **over** the top of the wire coming from the coil. Then thread the wire around the wire tension wheel (also anti-clockwise viewed from top of wheel) and pass the end **under** the wire coming from the guide roller.

3. PLACING SPINNER ON STRAND

3.01 In placing spinner on strand, proceed as follows:

- (1) Line up the locking mark on the side of the spinning drum (near the drum lock handle) with the line on the spinner housing, and lock the spinning drum.
- (2) Engage both snaps of the towing bridle to the left pulling ring on the head of the spinner.
- (3) Raise spinner by means of a handline attached to the front handle.
- (4) Release tension on the strand tension roller spring, and swing the strand tension roller, the front cable-raising roller, and the friction plate gate at the rear of the spinner to the open position.
- (5) In placing the spinner on the strand and over the cable, be sure that the front and rear strand wheels are properly positioned on the strand, then close the rear (friction-plate) gate.
- (6) Using the set screw wrench provided with the spinner, adjust the two vanes in the rear housing to clear the cable approximately 1/16 inch or less. This is done by placing the wrench in the set screws on each side of the rear housing, and turning the screws as required. These adjustments need not be changed as long as the same size of cable is being lashed.
- (7) Next, adjust the rear cable-raising roller so that the top of the cable touches the underside of the strand but does not exert pressure against the strand. This is done by placing the set screw wrench in one of the adjustment screw holes in the bottom of the rear housing and turning the screw up until the roller is in the desired position; then bring the second screw up until it is in contact

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with the arm. These adjustments need not be changed as long as the same size of cable is being lashed.

- (8) Close the front cable-raising roller and the strand tension roller, and adjust strand tension roller spring.
- (9) Turn the strand wheel ratchet lever upward to the "on" position. Transfer one snap of the towing bridle to the other pulling ring and attach the pulling line to the towing bridle. If it is desired to use the ring pusher, slip the single bar under the strand and insert the two prongs in the sockets.
- (10) Pull out sufficient lashing wire for terminating, clamp the lashing wire to the strand with a lashing wire clamp or a one-bolt clamp, and release the spinning drum lock. The spinner is now ready to operate.

one positioned on the strand from close the front cable-raising roller and the strand tension roller.

(2) To brace the strand on the strand wheel ratchet lever to the open position.

roller and the strand wheel ratchet lever to the "on" position.

(4) Release tension on the strand tension roller spring and from handle.

(3) Raise strand wheel ratchet lever to the "on" position and attach the pulling line to the towing bridle.

(5) Release ring spring of the towing bridle to the rest of the spinning drum lock the spinning drum.

(1) Pull up the lashing wire on the side of the spinning drum from the lashing wire on the side of the spinning drum.

(2) To brace strand on strand wheel ratchet lever to the open position.

roller and the strand tension roller.

(4) Release tension on the strand tension roller spring and from handle.

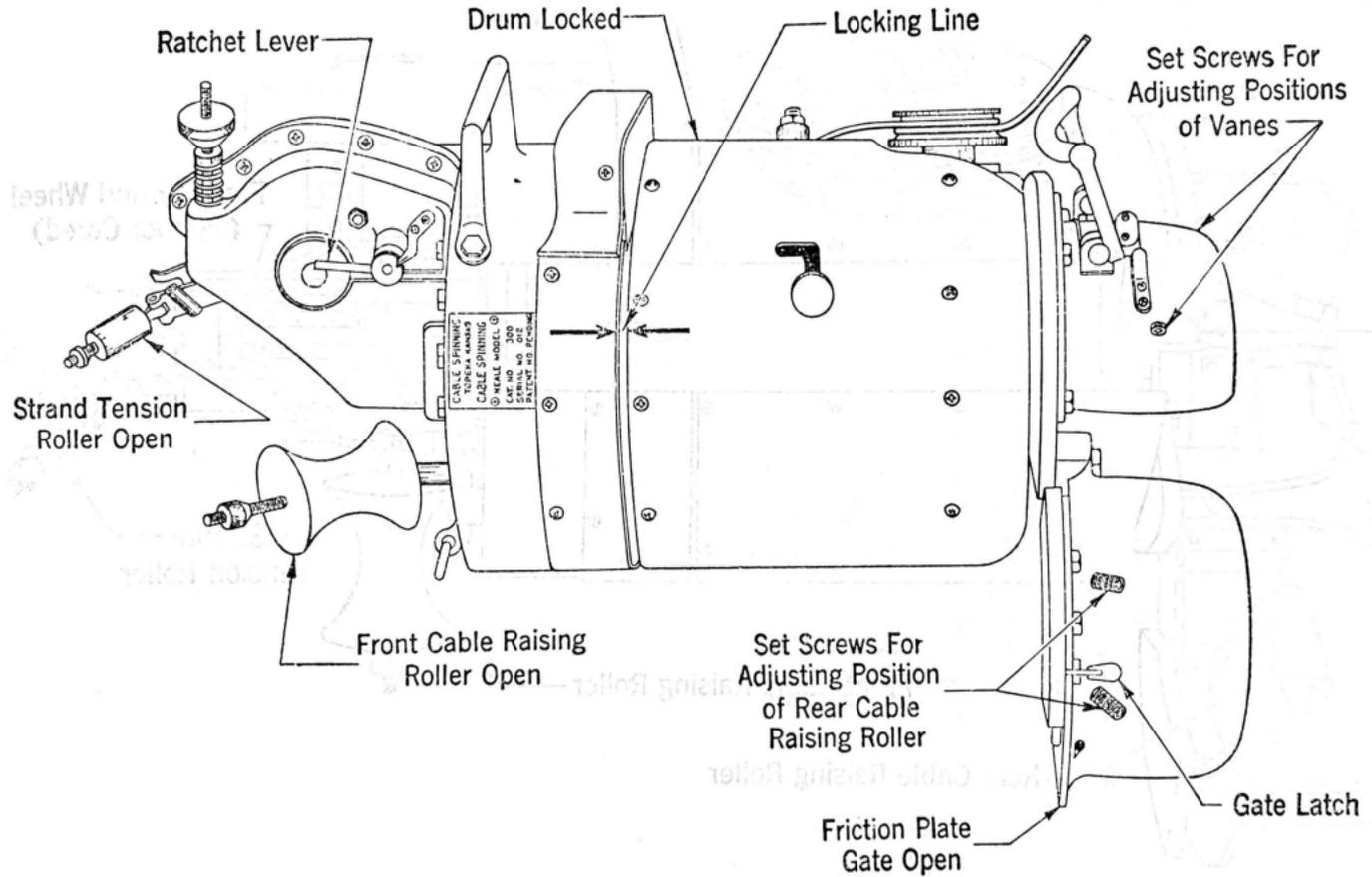
(3) Raise strand wheel ratchet lever to the "on" position and attach the pulling line to the towing bridle.

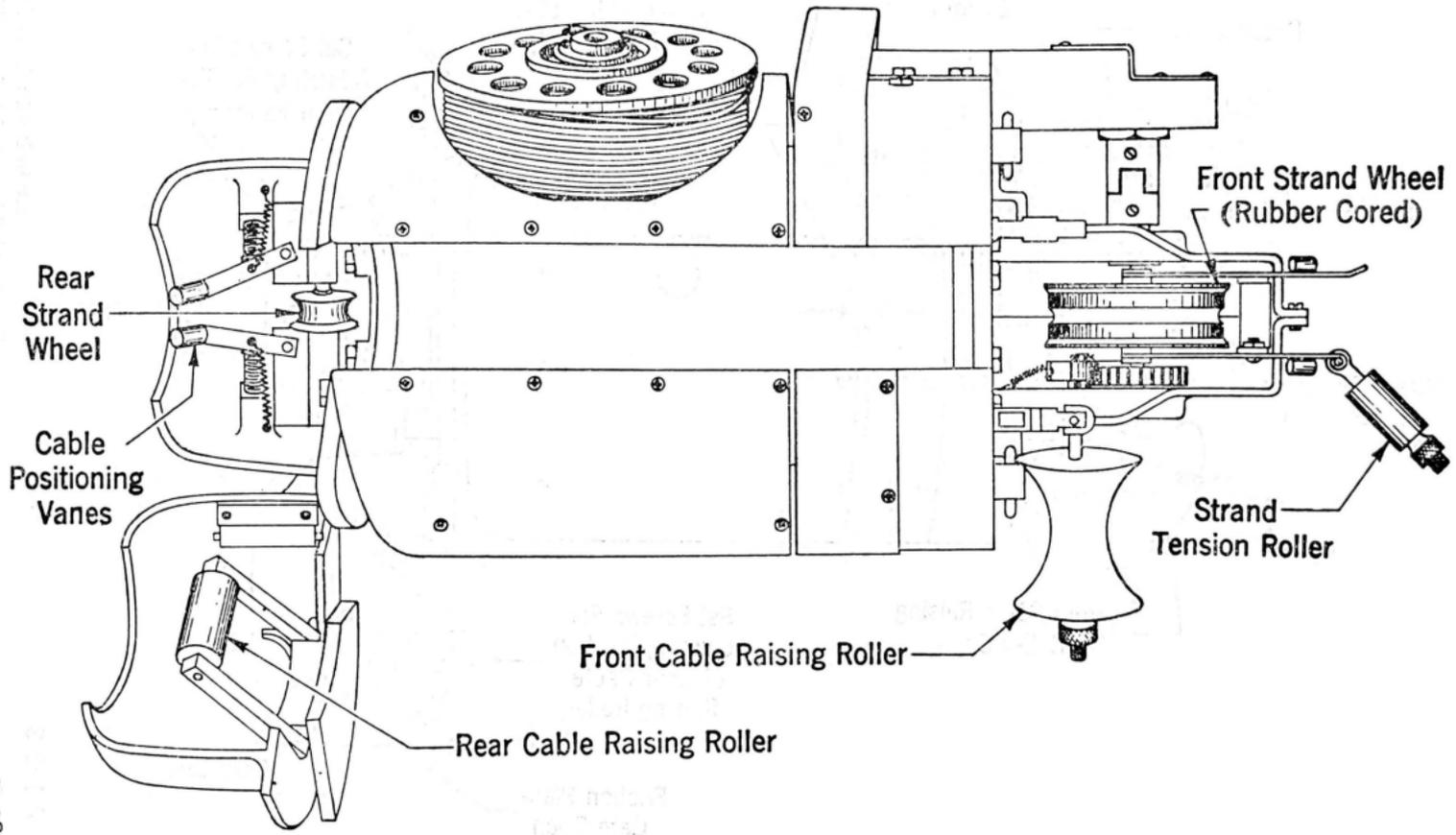
(5) Release ring spring of the towing bridle to the rest of the spinning drum lock the spinning drum.

(1) Pull up the lashing wire on the side of the spinning drum from the lashing wire on the side of the spinning drum.

(2) To brace strand on strand wheel ratchet lever to the open position.

roller and the strand tension roller.





4. PULLING SPINNER ALONG STRAND

4.01 In so far as it is practicable, the towing line should be kept in line with the pole line as side pull may result in excessive wear on the strand drive wheel.

4.02 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 Section G52.125.3.

5. TRANSFERRING SPINNER AROUND POLE

5.01 In transferring the spinner around a pole from one span to another, proceed as follows:

- (1) Clamp the lashing wire to the strand, and pull out sufficient wire for terminating and cut it off.
- (2) Disconnect the towing bridle on the pole side of the spinner.
- (3) Bring the disconnected end of the towing bridle up behind the strand in the next span, over the suspension clamp, down behind the strand in the span just lashed and reconnect to the spinner. (See Part 6 of Section G52.122.2.)
- (4) Line up the locking mark on the spinner and lock the drum.
- (5) Release tension on the strand tension roller spring, and swing the strand tension roller, the front cable-raising roller, and the friction plate gate at rear of spinner to the open position.
- (6) Raise the spinner from the strand and place on the strand in the next span as described in Part 3.

6. REMOVING SPINNER FROM STRAND

6.01 The operations of removing the spinner from the strand are essentially the same as for transferring around a pole except for the following:

- (1) Remove the towing bridle, and attach handline to the front handle. Be sure that the spinning drum is locked.
- (2) Before lowering the spinner to the ground swing the strand tension roller, the front cable-raising roller, and the friction plate gate at rear of the spinner to the closed position.

6.02 The spinner should be kept in the carrying case at all times when not in actual use.