

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

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B LINE WIRE REEL

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1. GENERAL

- 1.01 This section describes the B Line Wire Reel used for paying out and coiling line wire.
- 1.02 The reel has capacity for a 225 pound line wire coil with a 19-inch eye.

2. DESCRIPTION

2.01 The reel weighs 70 pounds and consists of a steel cage comprised of two dished wheels which rotate on a spindle mounted on a tubular frame. The frame is provided with tubular steel corners which form 1/2-inch holes to facilitate securing the frame to the ground or to a platform. A lug for a ground wire is provided on the frame.

2.02 The lower wheel of the reel is equipped with a crank handle which may be locked in a vertical or flat position. The crank handle is used in coiling line wire.

2.03 The upper wheel is removable to permit loading or unloading a coil of wire. In paying out or coiling operations it is interlocked with the lower wheel by means of an automatic closing latch. The latch must be unlocked manually to release the upper wheel.

2.04 A brake on the lower wheel hub consists of a drum, two brake shoes, brake lever and tensioning spring.

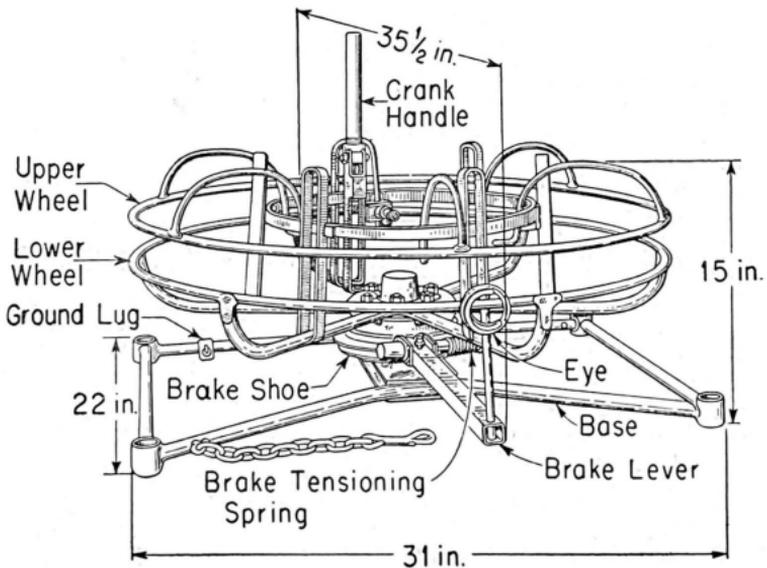
2.05 The brake action is automatically controlled by variations in tension in the line wire as it is paid out through an eye on the brake lever, maximum braking effort being applied when there is no tension in the wire.

2.06 A nut is provided on the brake tensioning spring so that the brake may be adjusted. It should be adjusted so that a 30 to 40 pound pull is required on the wire to start the reel turning. This pull can be measured by using a spring balance. When making this adjustment the wire should not be placed through the eye of the brake lever arm.

2.07 A chain and harness snap is provided to hold the brake lever to one side holding the brake non-operative for coiling line wire.

3. MAINTENANCE

3.01 The bearing surfaces of the B Line Wire Reel should be lubricated lightly once a month with SAE 20 to SAE 40 oil. Care should be taken to prevent oil from spilling on the brake drum or brake shoes.



B LINE WIRE REEL