

**BELL SYSTEM PRACTICES**  
**Outside Plant Construction**  
**and Maintenance**

**SECTION G82.240.1**  
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**AERIAL CABLE GUIDES**  
**DESCRIPTION**

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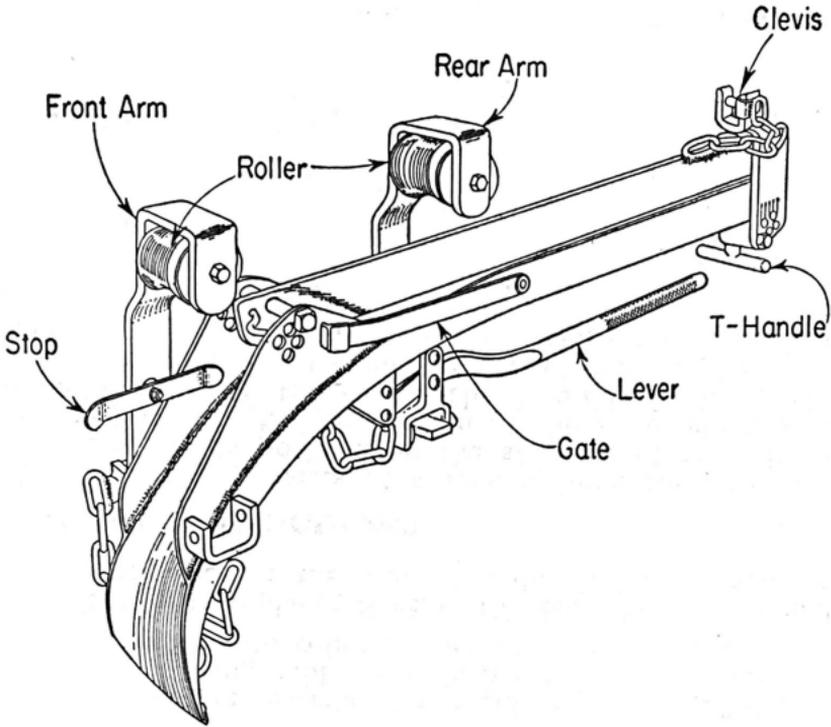
**1. GENERAL**

1.01 This section describes Cable Guides used in guiding and straightening cable being lashed to strand from a moving reel or pulled into rollers, rings or other supports.

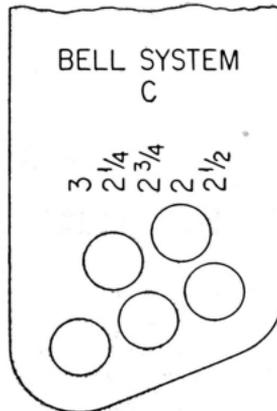
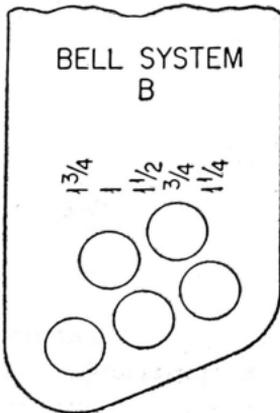
1.02 This issue replaces Section G80.240 which is cancelled. Information on the B and C Cable Guides is included.

**2. B AND C CABLE GUIDES**

2.01 The guide consists of a formed shoe for guiding the cable to its position on the strand and an adjustable angle insert in the straight portion of the shoe which aids in removing bows from the cable. The B guide is designed for placing cable up to 1-3/4 inches in diameter while the C guide accommodates sizes of cable between 1-3/4 and 3 inches in diameter.



2.02 Adjustment of the insert is by means of two bolts, each of which may be inserted in a series of five holes arranged as in the diagrams below. In the B and C Cable Guides the dimensions stamped opposite the holes indicate the maximum size cable which the guide will accommodate for each setting. (This is different from older models.)



2.03 To set the straightener to the proper size for the cable being placed, insert the bolts in the holes marked with the same diameter as the cable or, if the exact size is not available, then the nearest size above it.

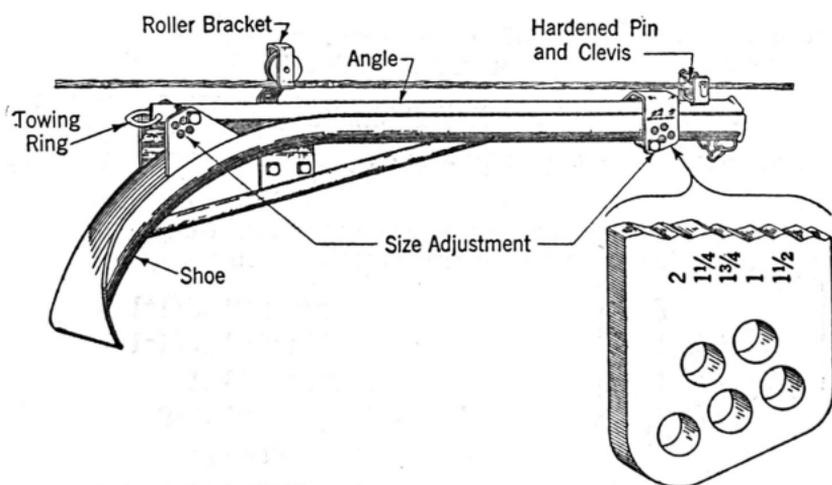
2.04 Both arms are arranged to be mounted on either side of the guide without the use of a wrench. When used in lashing cable directly from a moving reel, the guide is placed on the strand with the arms mounted on the side of the guide opposite the pole. The guide is towed ahead of the lasher by a towing line.

2.05 During the lashing operation the guide is supported by the rear arm and clevis but by pulling down on the lever, support can be transferred to the front arm and the clevis while passing clamps at poles.

2.06 When used to guide cable being pulled into temporary rollers or into rings, the guide is placed on the strand and anchored to a pole with rope or secured to the strand by a 3-bolt guy clamp behind the clevis.

### 3. TWO-INCH AERIAL CABLE GUIDE

3.01 This guide, shown in the following illustration, also includes an adjustable angle iron insert to aid in straightening the cable as it is passed through the guide.



3.02 The sizes marked opposite the five holes at the rear end of the 2" guide indicate the size of the opening rather than size of the cable. To set the guide use the following table:

<u>Diameter of Cable</u>	<u>Guide Opening</u>
3/4" or less	1
3/4" to 1"	1-1/4
1" to 1-1/4"	1-1/2
1-1/4" to 1-1/2"	1-3/4
1-1/2" to 1-3/4"	2

(Note: The 2" guide will accommodate cable 1/4-inch less than the diameter indicated opposite the hole selected.)

3.03 A roller near the front end and a clevis and hardened pin near the rear support the guide on the strand. The roller bracket may be attached to either side of the guide.

3.04 The 2" Aerial Cable Guide has been superseded by the B Cable Guide described in Part 2 of this Section.

#### **4. AERIAL CABLE GUIDE AND CABLE STRAIGHTENER**

4.01 The straightener section of this guide consists of a length of tubing 2" to 3" in diameter which is not adjustable for size except by changing the straightener. The guide is supported on the strand by 3 hardened steel pins.

4.02 This model has also been superseded by the B and C guides.

#### **5. CARE OF GUIDES**

5.01 Bearings on the rollers of the B, C, and 2" guides should be oiled lightly each day they are used for direct lashing from a reel.

5.02 The guide should be inspected each time it is used, for broken, loose, or missing parts. Defective guides should be repaired before being used.