BELL SYSTEM PRACTICES
Outside Plant Construction and Maintenance

SECTION G22.122.2
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AT&T Co Standard

TANDEM TRANSPOSITION BRACKETS
STRAIGHT SECTIONS OF LINE

Contents **Page**

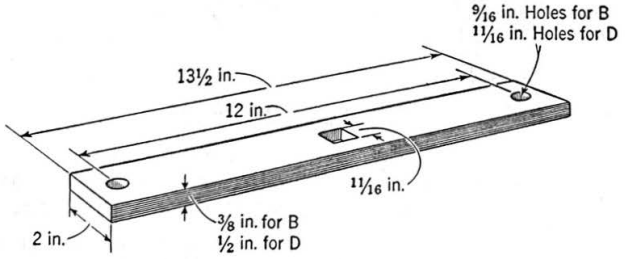
1. GENERAL

1.01 This section covers the general use of the **B and D Tandem Transposition Brackets** in straight sections of line.

1.02 The use of tandem brackets at corners is covered in another section.

2. DESCRIPTION OF B AND D TANDEM TRANSPOSITION BRACKETS

2.01 The B and D tandem transposition brackets are illustrated below:

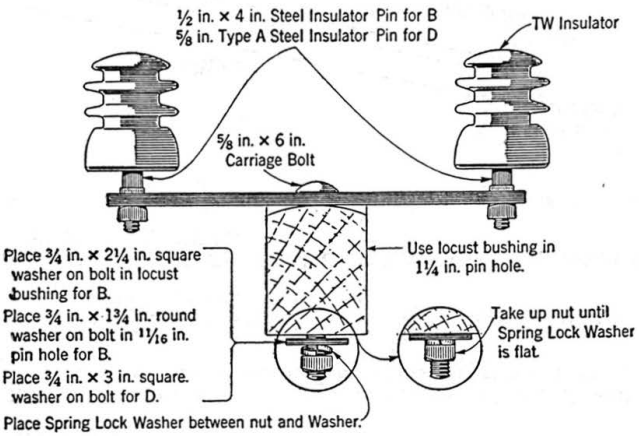


B AND D TANDEM TRANSPOSITION BRACKETS

2.02 Use 1/2" x 4" steel insulator pins with the B tandem bracket and 5/8" Type-A steel insulator pins with the D tandem bracket.

3. ASSEMBLY AND INSTALLATION

3.01 Assemble and install the B and D tandem bracket as illustrated below:



B AND D TANDEM TRANSPOSITION BRACKETS

3.02 The D tandem bracket is assembled and installed the same as the B tandem bracket except that a 3/4" x 3" square washer and 5/8" Type-A steel insulator pins are used with the D tandem bracket.

3.03 Do not tighten the carriage bolt initially when installing either the B or D tandem brackets in straight sections of line. The bracket should be loose and free to swing during the operation of transposing the wires. After the transposition has been completed, tighten the carriage bolt to hold the bracket securely to the crossarm.

3.04 Install B and D tandem brackets at corners in a manner similar to the installation of C tandem brackets.

4. FIELD OF USE

4.01 The B tandem bracket is for use in straight sections of line for all lengths of spans in all loading areas except in the Heavy Loading Area where the average span lengths exceed 450 feet.

4.02 The D tandem bracket is for use in straight sections of line in the Heavy Loading Area where the average span length is greater than 450 feet.

4.03 The B and D tandem brackets are used at downward changes in grade as shown in the following table:

HEAVY LOADING AREA

Average Span Length	Downward Change in Grade (Expressed in fractions)		
	Not over 1/10	Over 1/10 Not over 2/10	Over 2/10 Not over 3/10
0-350 ft.	D	D-A	D-A (I)
350-600 ft.	D-A	•	•

• Reduce grade to 1/10

MEDIUM LOADING AREA

Average Span Length	Downward Change in Grade (Expressed in fractions)		
	Not over 1/10	Over 1/10 Not over 2/10	Over 2/10 Not over 3/10
0-350 ft.	B	D	D-A (I)
350-600 ft.	D	D-A	D-A (I)

LIGHT LOADING AREA

Average Span Length	Downward Change in Grade (Expressed in fractions)		
	Not over 1/10	Over 1/10 Not over 2/10	Over 2/10 Not over 3/10
0-350 ft.	B	B	D-A (I)
350-600 ft.	B	B	D-A (I)

Notes: **B** - Indicates B Tandem Transposition Bracket.

D - Indicates D Tandem Transposition Bracket.

D-A - Indicates double crossarm, wooden insulator pins.

D-A (I) - Indicates double crossarm, grade break irons.