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Superseding J663 JUL2001

Rivets for Brake Linings and Bolts for Brake Blocks—Truck and Bus

- 1. Scope**—This SAE Standard specifies the dimensions of semitubular rivet and bolts for brake linings/blocks.
- 2. References**—There are no referenced publications specified herein.
- 3. Semitubular Rivets for Brake Linings**—Tables 1A and 1B and Figure 1 give the dimensions for semitubular rivets used for brake linings/blocks.

The eccentricity between the rivet head and shank must be no greater than 0.010 in., and the eccentricity between the hole in the shank and the shank must be no greater than 0.010 in.

- 4. Bolts Used for Blocks**—Table 2 and Figures 2A and 2B give the dimensions for standard bolts used for brake linings/bolts.

All dimensions given are in inches due to the historical nature of the development and identification of these components.

TABLE 1A—DIMENSIONS OF SEMITUBULAR RIVETS FOR BRAKE LININGS/BLOCKS

Rivet Size Number	Body Dia., S Nominal	Body Dia., S Max	Body Dia., S Min	Head Dia., H Nominal	Head Dia., H Max	Head Dia., H Min	Head Thickness T	Head Thickness T1	Head Thickness T2
4	9/64	0.146	0.141	19/64	0.303	0.289	0.040 ± 0.005	0.005	0.020
5	9/64	0.146	0.141	23/64	0.367	0.351	0.040 ± 0.005	0.005	0.028
7	3/16	0.188	0.182	23/64	0.367	0.351	0.046 ± 0.005	0.009	0.023
8	3/16	0.188	0.182	15/32	0.478	0.458	0.060 ± 0.007	0.012	0.037
10	1/4	0.252	0.244	15/32	0.478	0.458	0.060 ± 0.007	0.012	0.030

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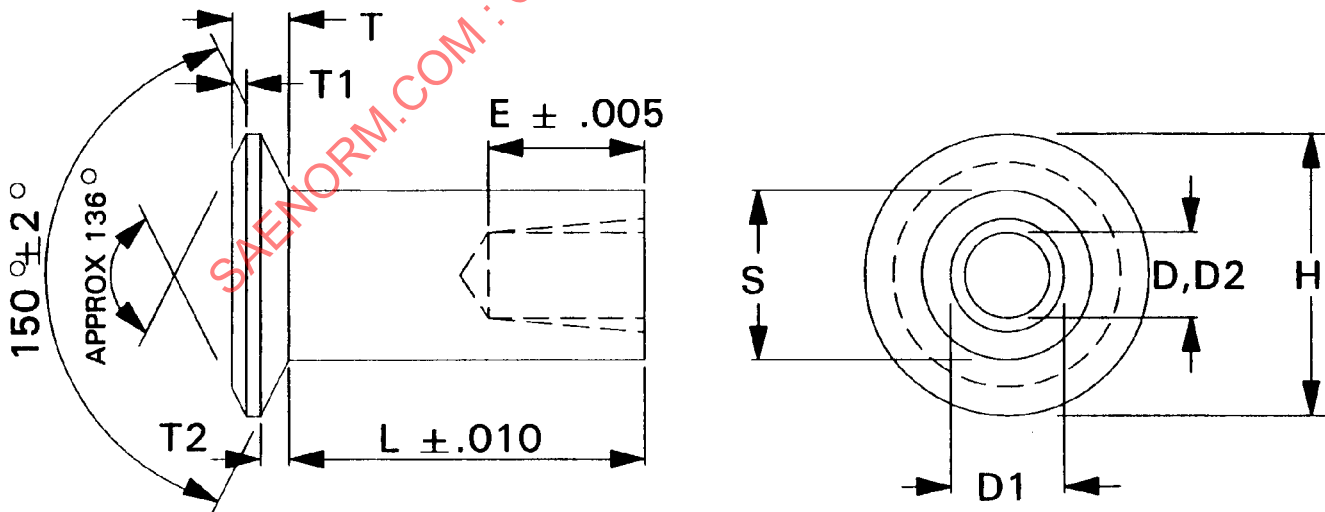
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**TABLE 1B—DIMENSIONS OF SEMITUBULAR RIVETS FOR
BRAKE LININGS/BLOCKS (CONTINUED)**

Rivet Size Number	Hole Straight Dia., D	Hole Straight Depth, E	Hole Tapered Dia., D1	Hole Tapered Dia., D2 Min	Hole Tapered Depth E Min	Length, L
4	0.099- 0.104	9/64	0.112- 0.106	0.085	0.104	
5	0.099- 0.104	9/64	0.112- 0.106	0.085	0.104	
7	0.133- 0.139	3/16	0.145- 0.139	0.110	0.135	AS SPECIFIED IN INCREMENTS OF 1/16 in
8	0.133- 0.139	3/16	0.145- 0.139	0.110	0.135	
10	0.173- 0.183	1/4	0.191- 0.181	0.150	0.183	

TABLE 2—DIMENSIONS OF BOLTS FOR BRAKE LININGS/BLOCKS

Bolt Head Angle (Nominal)	Body Dia., D	Head Dia., H	Length, L	Figure
80	3/8-24UNF-3	0.750	AS SPECIFIED IN INCREMENTS OF 1/16 in	2A
80	3/8-16UNC-2	0.760		2A
150	3/8-16UNC-2	0.760		2B
150	1/4-28UNF-2A	0.468		2B

**FIGURE 1—SEMITUBULAR RIVET FOR BRAKE LININGS/BLOCKS**