

400 Commonwealth Drive, Warrendale, PA 15096-0001

SURFACE VEHICLE RECOMMENDED PRACTICE

SAE J1671

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OUTBOARD MOUNTED BRAKE DRUM/DISC WHEEL HUB INTERFACE DIMENSIONS—COMMERCIAL VEHICLES

- 1. Scope—This SAE Recommended Practice contains dimensions and tolerances for outboard mounted brake drums and disc wheel hubs in the interface areas. The geometric features described in this document are shown at true position. This document is intended for outboard mounted brake drums and disc wheel hubs used on Class 7 and 8 commercial vehicles. Special and less common applications are not covered.
- **1.1 Purpose**—This document defines and documents the dimensions and tolerances necessary to maintain interchangeability in the interface areas.
- 2. References
- **2.1 Applicable Publication**—The following publication forms a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.
- 2.1.1 SAE PUBLICATION—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J694—Disc Wheel/Hub or Drum Interface Dimensions—Commercial Vehicles

- **2.2 Related Publication**—The following publication is provided for information purposes only and is not a required part of this document.
- 2.2.1 SAE PUBLICATION—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J393—Nomenclature—Wheels, Hubs, and Rims for Commercial Vehicles

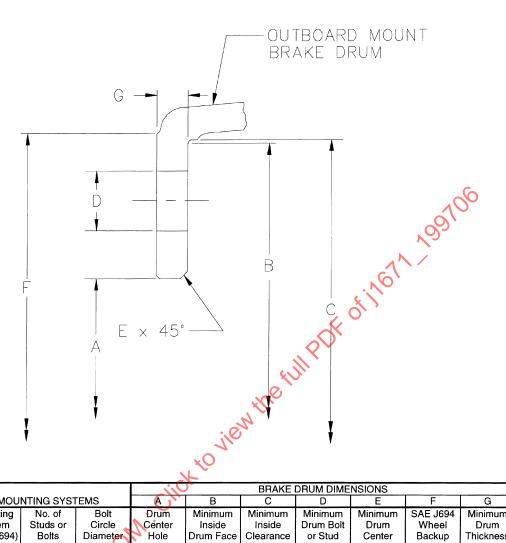
3. **Definitions**—A listing of basic nomenclature and definitions are shown in 3.1. Metric mounting systems shown in Figures 1 and 2 are given in millimeters (mm). Inch mounting systems shown in Figures 3 and 4 are given in inches.

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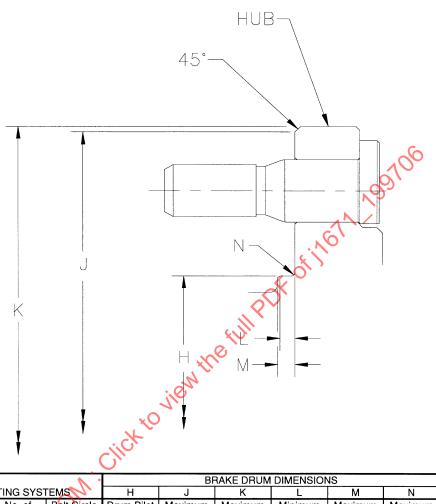
3.1 **Feature Definition**

- A Drum Center Hole Diameter
- B Inside Drum Face Diameter (Flat)
- C Inside Clearance Diameter
- D Wheel Bolt or Stud Hole Diameter
- E Drum Center Hole Chamfer
- SAEMORM.COM. Click to view the full Patr of 1967 199706 F Wheel Backup Diameter (For Reference Only)
- G Drum Thickness
- H Drum Pilot Diameter
- J Hub Flange Face Diameter (Flat)
- K Hub Flange Outside Diameter
- Hub/Drum Pilot Length L
- M Drum Seat Length
- N Hub/Drum Pilot Fillet Radius



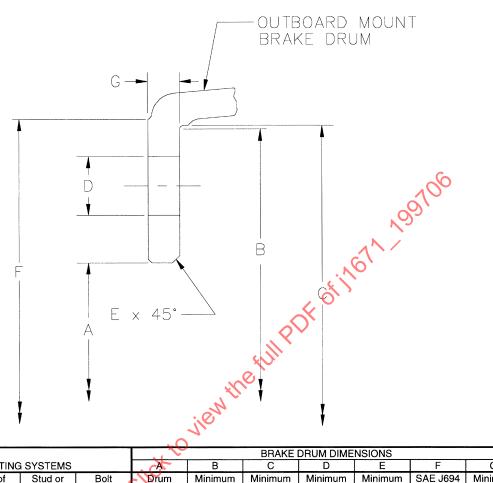
			BRAKE DRUM DIMENSIONS							
MOUNTING SYSTEMS			A	В	С	D	E	F	G	
Mounting	No. of	Bolt	Drum	Minimum	Minimum	Minimum	Minimum	SAE J694	Minimum	
System	Studs or	Circle	Center	Inside	Inside	Drum Bolt	Drum	Wheel	Drum	
(SAE J694)	Bolts	Diameter	Hole	Drum Face	Clearance	or Stud	Center	Backup	Thickness	
		0ء	Diameter	Diameter	Diameter	Hole	Hole	(Ref)		
						Diameter	Chamfer			
ll l	8	275	228.62	319.8	324.4	21.5	2.3	320.0	6.1	
		1/2	228.52					315.0		
III	10	285.75	223.08	330.5	336.0	23.5	2.3	340.0	6.1	
	_ \O		222.98					335.0		
IV	10	335	285.85	369.3	375.9	23.5	2.3	385.0	6.1	
			285.75					380.0		
XIV _	8	275	228.62	330.5	336.0	23.5	2.3	343.0	6.1	
9)`		228.52					334.0		

FIGURE 1—DRUM INTERFACE DIMENSIONS (ALL DIMENSIONS IN MILLIMETERS)



		٨.	BRAKE DRUM DIMENSIONS							
MOUNTING SYSTEMS			Н	J	K	L	М	N		
Mounting	No. of	Bolt Circle	Drum Pilot	Maximum	Maximum	Minimum	Maximum	Maximum		
System	Studs or	Diameter	Diameter	Flange	Hub Flange	Drum Pilot	Drum Seat	Drum Pilot		
(SAE J694)	Bolts /	•		Face	Diameter	Length	Length	Fillet Rad		
		İ		Diameter						
ll II	8	275	228.49	319.0	324.0	4.1	6.1	2.3		
			228.39							
III	10	285.75	222.96	330.0	334.0	4.1	6.1	2.3		
			222.86							
W	10	335	285.73	368.0	370.0	4.1	6.1	2.3		
S.			285.63							
XIV	8	275	228.49	330.0	334.0	4.1	6.1	2.3		
			228.39							

FIGURE 2—HUB INTERFACE DIMENSIONS (ALL DIMENSIONS IN MILLIMETERS)



1,10					BRAKE DRUM DIMENSIONS					
MOUNTING SYSTEMS				A	В	С	D	E	F	G
Mounting System (SAE J694)	No. of Studs or Bolts	Stud or Bolt Diameter	Bolt Circle Diameter	Drum Center Hole Diameter	Minimum Inside Drum Face Diameter	Minimum Inside Clearance Diameter	Minimum Drum Bolt or Stud Hole Diameter	Minimum Drum Center Hole Chamfer	SAE J694 Wheel Backup (Ref)	Minimum Drum Thickness
Х	10	0.75	11.25	8.783 8.779	13.01	13.23	0.92	0.09	13.50 13.18	0.24
Х	10	1.125	11.25	8.783 8.779	13.01	13.23	1.24	0.09	13.50 13.18	0.24

FIGURE 3—DRUM INTERFACE DIMENSIONS (ALL DIMENSIONS IN INCHES)