



SURFACE VEHICLE RECOMMENDED PRACTICE

J876

**REV.
APR2007**

Issued 1963-11
Revised 2007-04

Superseding J876 APR2000

Wide Base Disc Wheels and Demountable Rims

RATIONALE

This SAE Recommended Practice establishes uniform engineering nomenclature for wide base disc wheels and demountable rims. The 5 year review has been completed. A valve clearance note has been added to the scope and metric dimensions have been added to Figures 3 and 4.

1. SCOPE

This SAE Recommended Practice establishes uniform engineering nomenclature for wide base disc wheels and demountable rims. This nomenclature and accompanying figures are intended to define fundamental wide base disc wheels and demountable rim terms. The dimensions given are those necessary to maintain serviceability and interchangeability of the wide base disc wheels and demountable rims with standard hardware. Valve clearances have not been included in this document.

2. REFERENCES

2.1 Applicable Publications

The following publication forms a part of the specification to the extent specified herein. Unless otherwise indicated, the latest revision of SAE publications shall apply.

2.1.1 SAE Publication

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

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

2.2 Related Publications

The following publications are provided for information purposes only and are not a required part of this document.

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2.2.1 SAE Publications

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

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

SAE J851 Dimensions-Wheels for Demountable Rims, Demountable Rims, and Spacer Bands Commercial Vehicles

2.2.2 ISO Publication

Available from ANSI, 25 West 43rd Street, New York, NY 10036-8002, Tel: 212-642-4900, www.ansi.org.

ISO 4107 Wheels for commercial vehicles—Dimensional characteristics of attachment on hub

2.2.3 Tire and Rim Association Publication

Available from The Tire and Rim Association, Inc., 175 Montrose West Avenue, Suite 150, Copley, OH 44321.

Yearbook, The Tire & Rim Association Inc.

3. DEFINITIONS

3.1 Wide Base Disc Wheels and Demountable Rims

Wide base are 15° tubeless wheels and rims with a 19.5 or 22.5 rim diameter code and a rim width of 266.7 mm (10.50 in) or wider.

3.2 Basic Nomenclature

A detailed listing of basic nomenclature is contained in SAE J393. Figures 1, 2, 3, and 4 introduce, illustrate, and specify nomenclature and definitions related specifically to wide base disc wheels and demountable rims. All dimensions are in millimeters followed by inches in parentheses.

4. WIDE BASE DISC WHEELS AND DEMOUNTABLE RIMS

4.1 Wide Base Disc Wheels

See Figures 1 and 2.

4.2 Wide Base Demountable Rims

See Figures 3 and 4.

4.3 Nomenclature

1. Rim Centerline
2. Wheel Inset
3. Wheel Outset
4. Adaptor
5. Mounting Band
6. Rim Offset
7. Dual Centerline with 101.6 mm (4 in) wide spacer
8. Axle Track
9. Zeroset

4.4 Dimensions

- a. A — Minimum clearance diameter under rim ledge
- b. B — Minimum clearance diameter under rim well
- c. C — One-half the change in axle track

4.5 Wide Base Disc Wheel and Demountable Rim Dimensions

See Table 1.

TABLE 1 - WIDE BASE DISC WHEEL AND DEMOUNTABLE RIM DIMENSIONS

| Rim Diameter Code | A Minimum mm | A Minimum in | B Minimum mm | B Minimum in |
|-------------------|--------------|--------------|--------------|--------------|
| 19.5 | 457.7 | (18.02) | 416.6 | (16.40) |
| 22.5 | 534.9 | (21.06) | 485.6 | (19.12) |

4.5.1 Additional Rear Demountable Rim Dimensions

See Table 2.

TABLE 2 - ADDITIONAL REAR WIDE BASE DEMOUNTABLE RIM DIMENSIONS

| Rim Size | C mm | C in |
|------------|---------------|----------------|
| 22.5x12.25 | 9.65 or 47.75 | (0.38 or 1.88) |
| 22.5x13.00 | 0 or 69.85 | (0 or 2.75) |

5. NOTES

5.1 Marginal Indicia

The change bar (I) located in the left margin is for the convenience of the user in locating areas where technical revisions have been made to the previous issue of the report. An (R) symbol to the left of the document title indicates a complete revision of the report.

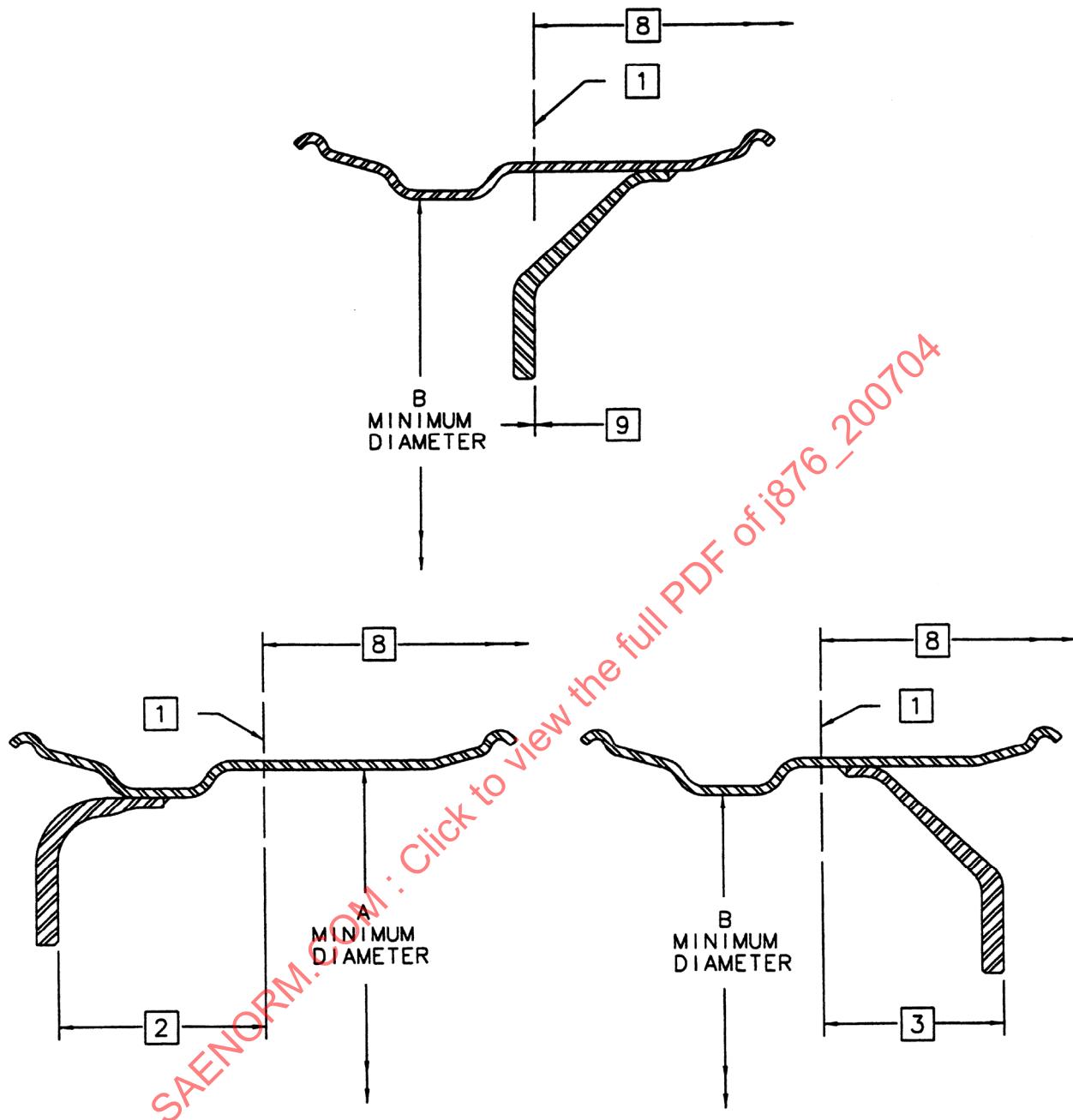


FIGURE 1 - WIDE BASE DISC WHEELS (FERROUS)