



# SURFACE VEHICLE RECOMMENDED PRACTICE

J1982™

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Nomenclature - Wheels for Passenger Cars,  
Light Trucks, and Multipurpose Vehicles

## RATIONALE

This document was revised to reflect the new definitions from SAE J3204.

### 1. SCOPE

This SAE Recommended Practice establishes uniform engineering nomenclature for the most common wheel constructions, and their components used on passenger cars, light trucks, and multipurpose vehicles. These wheel constructions are welded disc wheels, cast wheels, forged wheels, composite wheels and hybrid wheels. This nomenclature and the accompanying drawings are intended to define fundamental wheel terms rather than to provide a comprehensive tabulation of all wheel design types.

### 2. REFERENCES

#### 2.1 Related Publications

The following publications are provided for information purposes only and are not required part of this SAE Technical Report.

##### 2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), [www.sae.org](http://www.sae.org).

|           |                                                                                                                                                             |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SAE J393  | Nomenclature - Wheels, Hubs, and Rims for Commercial Vehicles                                                                                               |
| SAE J694  | Disc Wheel and Hub or Drum Interface Dimensions - Truck and Bus                                                                                             |
| SAE J851  | Dimensions - Wheels for Demountable Rims, Demountable Rims, and Spacer Bands - Truck and Bus                                                                |
| SAE J1986 | Balance Weight and Rim Flange Design Specifications, Test Procedures, and Performance Recommendations                                                       |
| SAE J1992 | Wheel/Rims - Military Vehicles - Test Procedures and Performance Requirements                                                                               |
| SAE J3204 | Aftermarket Composite Wheels Made of Matrix Material and Fiber Reinforcement Intended for Normal Highway Use - Test Procedures and Performance Requirements |

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Documents

Document Sharing Hub

### 2.1.2 ISO Publications

Copies of these documents are available online at <https://webstore.ansi.org/>.

ISO 3911      Wheels/Rims - Nomenclature, Designation, and Marking

### 2.1.3 Other Publications

Tire Guide - Complete tire and wheel information for cars and trucks available at [www.tireguides.com](http://www.tireguides.com), Tel: (561-997-9229)

## 3. DEFINITIONS

### 3.1 Wheel

A rotating load-carrying member supporting the tire and affixed to the hub. Disc wheels usually consist of two major components: (a) the rim, as shown in Figure 1; (b) the disc, as shown in Figure 2. The rim and wheel disc may be integral, permanently attached, or detachable. Cast wheels or forged wheels typically have a one-piece construction, as shown in Figure 3.

#### 3.1.1 Rim

That part of the wheel on which the tire is mounted and supported. (See Figure 1.)

#### 3.1.2 Wheel Disc

That part of the wheel which is the supporting member between the hub and the rim. (See Figure 2.)

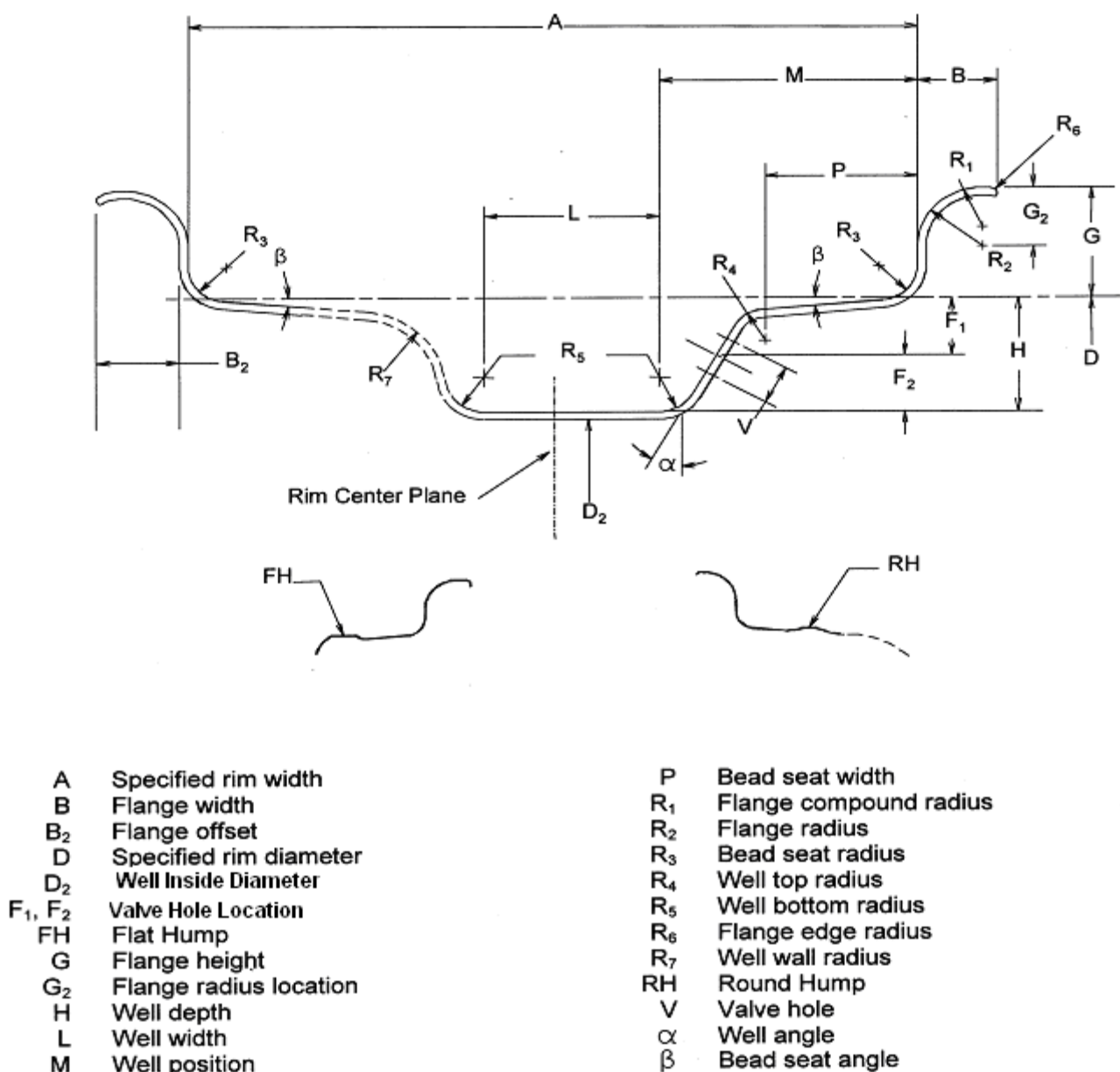


Figure 1 - Rim