



Vehicle support stands



This Australian Standard® was prepared by Committee CS-115, Vehicle Jacks, Stands and Ramps. It was approved on behalf of the Council of Standards Australia on 29 April 2016. This Standard was published on 24 May 2016.

The following are represented on Committee CS-115:

- Australian Automobile Association
 - Australian Automotive Aftermarket Association
 - Australian Chamber of Commerce and Industry
 - Australian Competition and Consumer Commission
 - Consumers Federation of Australia
 - Defence Work Health and Safety Branch
 - Federal Chamber of Automotive Industries
 - Institute of Automotive Mechanical Engineers
 - National Association of Testing Authorities Australia
 - National Retail Association
 - Society of Automotive Engineers—Australasia
 - Victorian Workcover Authority
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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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Australian Standard[®]

Vehicle support stands

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PREFACE

This Standard was prepared by the Australian Standards Committee CS-115, Vehicle Jacks, Stands and Ramps, to supersede AS/NZS 2538:2004.

The objective of this Standard is to provide manufacturers, importers, consumers, retailers and testing bodies with a set of performance requirements, to ensure that vehicle support stands (also known as axle stands or jack stands) are sufficiently robust so that they will not fail under normal conditions of use, and to ensure that axle stands are designed and constructed so that they will be stable and will not damage the vehicle when used in the correct manner.

This edition revises the instructions for use in Section 7 and the marking requirements in Section 8.

The Standard was originally prepared in response to a request by the Defence Standardization Committee which felt that its experience of unsatisfactory performance of vehicle support stands in the defence field would also be of concern to the general public that uses similar stands for domestic purposes.

The term 'normative' has been used in this Standard to define the application of the appendices to which it applies. A 'normative' appendix is an integral part of a Standard.

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STANDARDS AUSTRALIA

Australian Standard Vehicle support stands

1 SCOPE

This Standard specifies requirements for the design, construction, performance and labelling of vehicle support stands.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

- | | |
|---------|---|
| 1192 | Electroplated coatings—Nickel and chromium |
| 1789 | Electroplated zinc (electrogalvanized) coatings on ferrous articles (batch process) |
| 4833 | Pressure-sensitive labels for stock-paper, stock-plastic and general purpose use |
| HB 295 | Product Safety Framework |
| 295.3.5 | Part 3.5: Product safety warning labels and markings |

AS/NZS

- | | |
|---------|--|
| 3750 | Paints for steel structures |
| 3750.15 | Part 15: Inorganic zinc silicate paint |

ISO

- | | |
|------|---|
| 4526 | Metallic coatings—Electroplated coatings of nickel for engineering purposes |
|------|---|

3 DEFINITIONS

For the purpose of this Standard, the definitions below apply.

3.1 Base plane

The plane of contact between the base of the vehicle support stand and the surface upon which it rests. This does not include any wheels or movement devices.

3.2 Nominated capacity

The capacity nominated by the manufacturer as the maximum load that is to be supported by a single vehicle support stand.

NOTE: Clause 9(b) requires that the nominated capacity be marked on the stand.

3.3 Projected plan area of the base

The maximum area in the base plane described by joining up the points of contact of the vehicle support stand with the base plane.

NOTE: See Figure 1.

3.4 Projected plan area of the engagement head

The area obtained by projecting the engagement head vertically downward onto the base plane.

NOTE: See Figure 2.