

SUPERSEDED BY

AS 2538-1985

Amendment 1 - June 1983

2538

AS 2538—1982  
UDC 621.866

↑  
also use UDC  
629.11.012.73

# Australian Standard 2538—1982

---

## VEHICLE SUPPORT STANDS



**STANDARDS ASSOCIATION OF AUSTRALIA**  
*Incorporated by Royal Charter*



THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL ORGANIZATIONS and departments were officially represented on the committee entrusted with the preparation of this standard:

Australian Automobile Association  
Australian Automobile Chamber of Commerce  
Australian Federation of Consumer Organizations Inc.  
Confederation of Australian Industry  
Department of Business and Consumer Affairs  
Department of Consumer Affairs, N.S.W.  
Department of Defence  
Department of Transport  
Federation of Automotive Products Manufacturers  
Metal Trades Industry Association  
Ministry of Consumer Affairs, Victoria  
Society of Automotive Engineers, Australasia

---

This standard, prepared by Committee CS 43, Vehicle Stands and Vehicle Ramps, was approved on behalf of the Council of the Standards Association of Australia on 23 February 1982, and was published on 19 April 1982.

---

To keep abreast of progress in industry, Australian standards are subject to continuous review and are kept up-to-date by the issue of amendments or new editions as necessary. It is important therefore that standards users ensure that their standards are up-to-date. Full details of all SAA publications will be found in the Annual List of Australian Standards; these details are supplemented by listings in the SAA monthly journal 'The Australian Standard'. Information on the Annual List and 'The Australian Standard' may be obtained from any sales office of the Association, where details are also available of the current status of individual standards. Suggestions for improvements to published standards, addressed to the head office of the Association, are welcomed.

---

*This standard was issued in draft form for comment as DR 79084.*

AS 2538/AMDT 1/1983-06-06

**STANDARDS ASSOCIATION OF AUSTRALIA**  
Incorporated by Royal Charter

---

**AMENDMENT No 1**  
to  
**AS 2538—1982**  
**VEHICLE SUPPORT STANDS**

---

REVISED TEXT

*SUMMARY:* This amendment applies to Clause 3.6.1 and Appendix C.

Published on 6 June 1983.

Currently in preview, click buy full version

AUSTRALIAN STANDARD

# VEHICLE SUPPORT STANDS

AS 2538—1982

First published .....1982

PUBLISHED BY THE STANDARDS ASSOCIATION OF AUSTRALIA  
STANDARDS HOUSE, 80 ARTHUR ST, NORTH SYDNEY, N.S.W.

ISBN 0 7262 2521 5



8 APR 1982

## PREFACE

This standard was prepared by the Association's Committee on Vehicle Stands and Vehicle Ramps 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 which uses similar stands for domestic purposes.

The standard aims at ensuring, through minimum performance requirements, that vehicle support stands (also known as axle stands or jack stands) are sufficiently robust so that under normal conditions of use they will not fail.

Further, the standard aims at ensuring that axle stands are constructed and designed so that they will be stable and will not damage the vehicle when used in the correct manner. The committee is of the opinion that the standard will thus protect both the user and the vehicle from damage.

This standard requires reference to the following standards:

AS 1192	Electroplated Coatings of Nickel and Chromium
AS 1789	Electroplated Coatings of Zinc on Iron and Steel
AS 1790	Electroplated Coatings of Cadmium on Iron and Steel
AS 2105	Inorganic Zinc Silicate Paint
AS K108	Metal Priming Paint, Anti-corrosive

## CONTENTS

	<i>Page</i>
<b>SPECIFICATION</b>	
1 Scope .....	3
2 Definitions .....	3
3 Construction and Design .....	4
4 Structural Integrity and Factor of Safety .....	4
5 Marking .....	4
<b>APPENDICES</b>	
A Method for the Determination of Stability Factor .....	6
B Test for Release Under Load .....	9
C Test for Accessibility of a Part or Component on a Vehicle Support Stand .....	10
D Test for Structural Integrity .....	11
E Overload Test .....	12

© Copyright — STANDARDS ASSOCIATION OF AUSTRALIA 1982

Users of standards are reminded that copyright subsists in all SAA publications. No part of this publication may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing of the Standards Association of Australia.

## STANDARDS ASSOCIATION OF AUSTRALIA

**Australian Standard**  
**for**  
**VEHICLE SUPPORT STANDS**

**1 SCOPE.** This standard specifies requirements for the design, construction, performance and labelling of vehicle support stands.

**2 DEFINITIONS.** For the purpose of this standard, the following definitions apply:

**2.1 Vehicle support stand**—a device of fixed or adjustable height onto which an appropriate part, e.g. axle, chassis, of a raised vehicle is lowered and supported for the purpose of maintenance or storage of the vehicle. Where the device has an adjustable height, the height is not intended to be varied when the device is loaded.

**NOTE:** Vehicle support stands may be of either fixed height or adjustable height. Some typical vehicle support stands are illustrated in Fig. 1.

**2.2 Vehicle**—a passenger car, passenger car derivative or multipurpose passenger car as defined by the Australian Design Rules, a goods carrying vehicle or a towed unit such as a caravan or a trailer.

**2.3 Nominated capacity**—the capacity nominated by the manufacturer as the maximum load that is to be supported by the vehicle support stand.

**NOTE:** The nominated capacity must be marked on the stand (see Clause 5(b)).

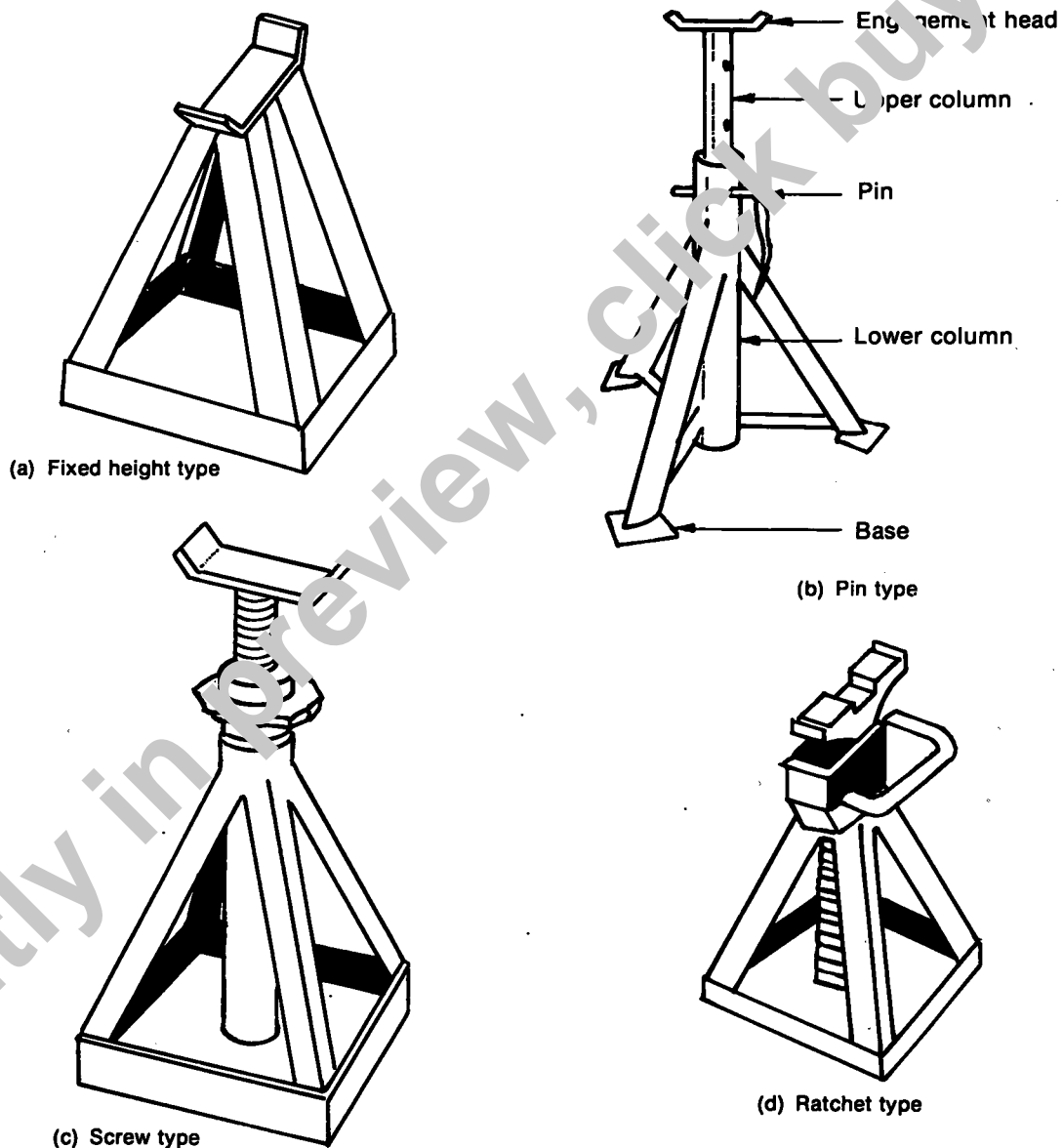


Fig. 1. TYPICAL VEHICLE SUPPORT STANDS