

Australian Standard[®]

**Commercial road vehicles—Mechanical
connections between towing vehicles**

**Part 1: Selection and marking of pin-
type couplings and drawbar eyes**

STANDARDS
Australia



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- Australian Automotive Aftermarket Association
- Australian Road Transport Suppliers Association
- Australian Trucking Association
- AUSTROADS
- The Commercial Vehicle Industry Association of Australia
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Additional Interests:

- Fifth Wheel Manufacturers and Suppliers
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This Standard was issued in draft form for comment as DR 00192.

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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type couplings and drawbar eyes**

Originally as part of AS 2213—1978.

Previous edition AS 2213.1—1998.

Second edition 2001.

Reissued incorporating Amendment No. 1 (September 2002).

Reissued incorporating Amendment No. 2 (October 2007).

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Published by Standards Australia GPO Box 476, Sydney, NSW 2001, Australia

ISBN 0 7337 3998 9

PREFACE

This Standard was prepared by the Standards Australian Committee ME-053, Heavy Road Vehicles to supersede, AS 2213.1—1998, *Commercial road vehicles—Mechanical connections between towing vehicles*, Part 1: *Selection and marking of pin-type coupling and drawbar eyes*.

This Standard incorporates Amendment No. 1 (September 2002) and Amendment No.2 (October 2007). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to provide requirements for the selection and marking of pin-type couplings and drawbar eyes for use with motor vehicle and trailer combination for general use.

This Standard is Part 1 of AS 2213, *Commercial road vehicles—Mechanical connections between towing vehicles*, which deals with the design and manufacture of mechanical couplings and which is published in parts as follows:

- Part 1: Selection and marking of pin-type couplings and drawbar eyes (this Standard)
- Part 2: 50 mm pin-type couplings and drawbar eyes
- Part 3: 40 mm pin-type couplings and drawbar eyes
- Part 4: Strength test for pin-type couplings and drawbar eyes for rigid drawbars
- Part 5: Strength test for pin-type couplings and drawbar eyes for hinged drawbars

The objective of this revision is to incorporate functional requirements and other minor changes.

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An 'informative' appendix is for information and guidance only.

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STANDARDS AUSTRALIA

Australian Standard

Commercial road vehicles—Mechanical connections between towing vehicles**Part 1: Selection and marking of pin-type couplings and drawbar eyes****1 SCOPE**

This Standard specifies the requirements for the selection and marking of pin-type couplings and drawbar eyes and gives the methods for the determination of the D -values and the V -values for typical vehicle configurations for general use. This Standard is not applicable to vehicle configurations for special applications such as off-road operation.

NOTE: Typical examples of a pin-type coupling and drawbar are shown in Appendix A.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

2213 Commercial road vehicles—Mechanical connections between towing vehicles

2213.2 Part 2: 50 mm pin-type couplings and drawbar eyes

2213.3 Part 3: 40 mm pin-type couplings and drawbar eyes

3 DEFINITIONS

For the purpose of this Standard the definitions below apply.

3.1 Pin-type coupling

A coupling for connecting a towing vehicle to a trailer by means of a vertical pin through a drawbar eye.

NOTE: Pin-type couplings are known as ‘drawbar couplings’ in other countries and this terminology is used in ISO standards.

3.2 Drawbar eye

The towing attachment in the trailer.

3.3 D -value

An expression of the horizontal dynamic load capacity of a coupling or drawbar eye.

3.4 F -value

Manufacturer’s static vertical load rating for a coupling or drawbar eye.

3.5 V -value

An expression of the amplitude of the vertical dynamic load capacity of a coupling or drawbar eye.