

Australian Standard[®]

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

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



This Australian Standard® was prepared by Committee ME-053, Heavy Road Vehicles. It was approved on behalf of the Council of Standards Australia on 15 June 2001. This Standard was published on 6 August 2001.

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- Australian Automobile Association
- Australian Automotive Aftermarket Association
- Australian Road Transport Suppliers Association
- Australian Trucking Association
- AUSTROADS
- The Commercial Vehicle Industry Association of Australia
- Commonwealth Department of Transport and Regional Services (Australia)
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- Society of Automotive Engineers, Australasia
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Additional Interests:

- Fifth Wheel Manufacturers and Suppliers
 - Kingpin Manufacturers and Suppliers
 - Vehicle Suppliers & Trailer Manufacturers
-

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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 combinations 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 *S*-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.