

Australian Standard™

**Amusement rides and devices**

**Part 2: Operation and maintenance**



This Australian Standard was prepared by Committee ME/51, Amusement Rides and Devices. It was approved on behalf of the Council of Standards Australia on 31 October 1997 and published on 5 December 1997.

---

The following interests are represented on Committee ME/51:

Australian Amusement, Leisure and Recreation Association  
Department of Labour, New Zealand  
Department of Training and Industrial Relations, Qld  
Institution of Engineers Australia  
Metal Trades Industry Association of Australia  
Ministry of Commerce, New Zealand  
National Occupational Health and Safety Commission, Australia  
Showmen's Guild of Australasia  
Victorian Showmen's Guild  
Victorian WorkCover Authority  
WorkCover New South Wales  
Workplace Standards Authority (Tasmania)  
WorkSafe Western Australia

---

#### **Keeping Standards up-to-date**

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about Standards can be found by visiting the Standards Australia web site at [www.standards.com.au](http://www.standards.com.au) and looking up the relevant Standard in the on-line catalogue.

Alternatively, the printed Catalogue provides information current at 1 January each year, and the monthly magazine, *The Australian Standard*, has a full listing of revisions and amendments published each month.

We also welcome suggestions for the improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at [mail@standards.com.au](mailto:mail@standards.com.au), or write to the Chief Executive, Standards Australia International Ltd, PO Box 5420, Sydney, NSW 2001.

---

**AS 3533.2—1997**  
(Incorporating Amendment No. 1)

**Australian Standard™**

**Amusement rides and devices**

**Part 2: Operation and maintenance**

Originated as part of AS 3533—1988.  
Revised and redesignated in part as AS 3533.2—1997.  
Reissued incorporating Amendment No. 1 (March 2001).

**COPYRIGHT**

© Standards Australia International

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Published by Standards Australia International Ltd  
GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 1645 8

## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME/51, Amusement Rides and Devices, to supersede (in part) AS 3533—1988, *Amusement rides and devices*.

*This Standard incorporates Amendment No. 1 (March 2001). 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.*

This Standard is the result of a consensus among Australian and New Zealand representatives on the Joint Committee to produce it as an Australian Standard.

Originally developed from technical literature, existing regulations and guidelines, the significant expansion of this Standard was made possible not only through the combined experience of the Committee and the organizations represented on it, but also through the contributions of several individuals and organizations having expert knowledge in those areas covered by this Standard for the first time.

The Committee acknowledges the contributions made by those individuals and organizations and wishes to record its appreciation for their permission to include this material.

A major change to the previous edition is that AS 3533 has now been split into two parts as follows:

AS 3533.1 Part 1: Design and construction

AS 3533.2 Part 2: Operation and maintenance

This followed a request by the National Occupational Health and Safety Commission in Australia to enable the future referencing of AS 3533.1 within that organization's National Standard for Plant, thus promoting uniformity of practice across Australia in relation to the design, manufacture and registration of amusement rides and devices.

This Standard, Part 2 (AS 3533.2), was created to cater specifically for the proprietors and operating staff of amusement rides and devices by providing them with a set of guidelines for the day-to-day operation of such devices.

The occupational health and safety obligations laid out in AS 3533.1 for designers and manufacturers of amusement rides and devices are continued in this Part (AS 3533.2). This Part is intended essentially as a working document and ready reference for the proprietors and operating staff associated with both mobile and permanently installed devices.

A logbook designed to satisfy the record-keeping requirements of most regulatory authorities in Australia is available as AS 3533.2 Supplement 1. The purpose of the logbook is to provide a succinct record of the important issues relating to the safety of an amusement ride or device and to indicate briefly where further information can be sought.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

## CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE . . . . .	5
1.2 REFERENCED DOCUMENTS . . . . .	5
1.3 DEFINITIONS . . . . .	6
SECTION 2 SITE LAYOUT, ASSEMBLY AND ERECTION, AND ELECTRICAL REQUIREMENTS	
2.1 SITE LAYOUT . . . . .	9
2.2 ASSEMBLY AND ERECTION . . . . .	10
2.3 ELECTRICAL REQUIREMENTS . . . . .	17
SECTION 3 PROPRIETOR AND OPERATOR RESPONSIBILITIES	
3.1 PROPRIETOR RESPONSIBILITIES . . . . .	20
3.2 OPERATOR RESPONSIBILITIES . . . . .	21
SECTION 4 SPECIFIC OPERATIONAL REQUIREMENTS	
4.1 GENERAL . . . . .	23
4.2 AQUATIC AND WATERBORNE AMUSEMENT DEVICES . . . . .	23
4.3 KARTS AND KART TRACKS . . . . .	24
4.4 FERRARI 500-TYPE KARTS AND TRACKS . . . . .	26
4.5 BOBSLEDS AND TOBOGGANS (LAND-BASED) . . . . .	27
4.6 AMUSEMENT DEVICES INCORPORATING ELASTIC SUSPENSION SYSTEMS . . . . .	28
4.7 INFLATABLE STRUCTURES . . . . .	28
4.8 PASSENGER ROPEWAYS . . . . .	30
4.9 AIR CUSHIONED VEHICLES . . . . .	30
4.10 PARASAILING . . . . .	31
4.11 FLYING FOXES . . . . .	33
4.12 MINI BIKES AND MINI BIKE TRACKS . . . . .	34
4.13 CABLE WATERSKIING . . . . .	35
4.14 ROLLER COASTERS . . . . .	35
4.15 STEAM AND HOT WATER EQUIPMENT . . . . .	35
4.16 HYDRAULIC AND PNEUMATIC EQUIPMENT . . . . .	36
SECTION 5 MAINTENANCE, REPLACEMENT, REPAIR AND INSPECTION	
5.1 GENERAL . . . . .	38
5.2 REPLACEMENT . . . . .	38
5.3 ALTERATIONS AND REPAIRS . . . . .	38
5.4 INSPECTION . . . . .	39
5.5 LOG . . . . .	40
SECTION 6 FIRE SAFETY	
6.1 GENERAL . . . . .	41
6.2 STORAGE AND HANDLING OF FLAMMABLE OR COMBUSTIBLE LIQUIDS . . . . .	41
6.3 FIRE EXTINGUISHERS . . . . .	41

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
  - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-