

Australian/New Zealand Standard™

Wheelchairs

Part 22: Set-up procedures



AS/NZS ISO 7176.22:2015

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee ME-067, Assistive Technology Products for Persons with Disability. It was approved on behalf of the Council of Standards Australia on 19 August 2015 and on behalf of the Council of Standards New Zealand on 31 July 2015. This Standard was published on 9 September 2015.

The following are represented on Committee ME-067:

Assistive Technology Suppliers Australasia
Association of Consultants in Access Australia
Australian Rehabilitation and Assistive Technology Association
Bus and Coach Association of New Zealand
Commercial Vehicle Industry Association of Australia
Department of Family and Communities, SA
Employers Chamber of Commerce Central, NZ
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This Standard was issued in draft form for comment as DR AS/NZS ISO 7176.22:2014.

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Part 22: Set-up procedures

Originated as AS/NZS 3696.22:2008.
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME-067, Assistive Technology Products for Persons with Disability, to supersede AS/NZS 3696.22:2008, *Wheelchairs*, Part 22: *Set-up procedures*.

The objective of this revision is to update the requirements for testing of set-up procedures for wheelchairs in line with international requirements.

This Standard is identical with, and has been reproduced from ISO 7176-22:2014, *Wheelchairs*, Part 22: *Set-up procedures*.

As this Standard is reproduced from an International Standard, the following applies:

- (a) In the source text 'this part of ISO 7176' should read 'this Australian/New Zealand Standard'.
- (b) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>	<i>Australian/New Zealand Standard</i>
ISO	AS/NZS ISO
7176 Wheelchairs	7176 Wheelchairs
7176-11 Part 11: Test dummies	7176.11 Part 11: Test dummies
7176-26 Part 26: Vocabulary	7176.26 Part 26: Vocabulary

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

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INTRODUCTION

Many wheelchairs have adjustable or optional features, which, depending upon their setting, can have significant effects on the results from test methods in different wheelchair testing standards.

When used in combination with other wheelchair standards the procedure presented within this standard will produce test results which permit comparison between different wheelchairs and give comparable results between different test laboratories.

If a wheelchair is configured in a specific way, some clauses of ISO 7176-22 might not apply.

AUSTRALIAN/NEW ZEALAND STANDARD

Wheelchairs**Part 22:
Set-up procedures****1 Scope**

This part of ISO 7176 specifies a set-up procedure to be used as a part of the preparation of adjustable wheelchairs for testing. This procedure takes the manufacturer's instructions into account.

This part of ISO 7176 is applicable to manual wheelchairs and electric wheelchairs (including scooters) intended to provide indoor and/or outdoor mobility.

NOTE Other parts of ISO 7176 may have specific requirements for the adjustment of the wheelchair. In such cases, the individual part of ISO 7176 takes precedence over this part of ISO 7176.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 7176-11, *Wheelchairs — Part 11: Test dummies*

ISO 7176-26, *Wheelchairs — Part 26: Vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 7176-26 apply.

4 Test apparatus

4.1 Test dummy, as specified in ISO 7176-11.

4.2 Means for measuring linear dimensions up to 2 000 mm, to an accuracy of ± 1 mm.

4.3 Means for measuring the angles of surfaces to each other and/or to vertical or horizontal, to an accuracy of $\pm 0,2^\circ$.

4.4 Means of measuring forces, between 25 N and 250 N to an accuracy of ± 5 % of the measurement

4.5 Means of measuring torque, between 2 Nm and 100 Nm to an accuracy of ± 10 % of the measurement.

4.6 Means to inflate pneumatic wheelchair tyres, up to 10 bar with an accuracy of $\pm 0,2$ bar.

4.7 A hard horizontal test plane, of sufficient size to support the wheelchair during testing, such that the whole surface is contained between two imaginary parallel planes 5 mm apart.

NOTE The imaginary planes are intended to provide a measure of control on the flatness of the test plane.