

Australian Standard™

Powered industrial trucks

**Part 5: Symbols for operator controls
and other displays**



This Australian Standard was prepared by Committee ME-026, Industrial Trucks. It was approved on behalf of the Council of Standards Australia on 23 June 2005. This Standard was published on 4 August 2005.

The following are represented on Committee ME-026:

Australian Chamber of Commerce and Industry
Australian Council of Trade Unions
Australian Electrical and Electronic Manufacturers Association
Australian Industrial Truck Association
Australian Industry Group
Construction and Mining Equipment Association of Australia
Department of Consumer & Employment Protection, WorkSafe Division W.A.
Safety Institute of Australia (Incorporated)
Victorian WorkCover Authority
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This Standard was issued in draft form for comment as DR 05092.

STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 2359.5—2005

Powered industrial trucks

Part 5: Symbols for operator controls and other displays

RECONFIRMATION NOTICE

Technical Committee ME-026 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 17 August 2016.

The following are represented on Technical Committee ME-026:

Australian Industrial Truck Association
Australian Industry Group
Construction and Mining Equipment Industry Group
Hire and Rental Industry Association of Australia
Safety Institute of Australia
SafeWork NSW
WorkSafe Victoria

NOTES

Australian Standard™

Powered industrial trucks

Part 5: Symbols for operator controls and other displays

Originated as part of AS B270—1968.
Previous edition AS 2339.5—1995.
Second edition 2005.

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

ISBN 0 7337 6793 1

PREFACE

This Standard was prepared by the Standards Australia Committee ME-026, Industrial Trucks, to supersede AS 2359.5—1995, *Powered industrial trucks, Part 5: Control symbols*. It is identical with and has been reproduced from ISO 3287:1999, *Powered industrial trucks—Symbols for operator controls and other displays*.

This Standard is Part 5 of AS 2359, *Powered industrial trucks*, which is published in part as follows:

- Part 1: General requirements
- Part 2: Operation
- Part 3: Counterbalanced fork-lift trucks—Stability tests
- Part 4: Reach and straddle fork-lift trucks—Stability tests
- Part 5: Symbols for operator controls and other displays (this Standard)
- Part 6: Safety code
- Part 7: Terminology
- Part 8: Pallet stackers and high-lift platform trucks—Stability tests
- Part 9: High-lift rider trucks—Overhead guards—Specification and testing
- Part 10: Fork-lift trucks—Hook-on type fork arms—Vocabulary
- Part 11: Fork-lift trucks—Hook-on type fork arms and fork carriers—Mounting dimensions
- Part 12: Hazardous areas
- Part 13: Brake performance and component strength
- Part 14: Fork arms—Technical characteristics and testing
- Part 15: Fork-arm extension and telescopic fork arms—Technical characteristics and strength requirements
- Part 16: Safety signs and hazard pictorials—General principles
- Part 17: Stability tests for rough terrain trucks
- Part 18: Stability tests for industrial variable-reach trucks
- Part 19: Additional stability tests for industrial variable-reach trucks handling freight containers of length 6 m and above

The objective of this revision is to align this Standard with current ISO Standard.

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

- (a) *Terminology* The words ‘this Australian Standard’ should replace the words ‘this International Standard’ whenever they appear.
- (b) *Decimal comma* The decimal point should replace the decimal comma wherever it appears.

The normative references in Clause 2 have not been adopted as Australian Standards.

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NOTES

AUSTRALIAN STANDARD

Powered industrial trucks

Part 5:

Symbols for operator controls and other displays

1 Scope

This International Standard establishes symbols for use on operator controls and other displays on powered industrial trucks.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 3461-1:1988, *General principles for the creation of graphical symbols — Part 1: Graphical symbols for use on equipment*.

ISO 4196, *Graphical symbols — Use of arrows*.

3 Term and definition

For the purposes of this International Standard, the following term and definition apply.

3.1 symbol

visually perceptible figure used to transmit information independently of language

NOTE It may be produced by drawing, printing or other means.

4 General

4.1 Symbols shall be as shown in succeeding clauses of this International Standard. However, symbols which are shown in outline form may, in actual use, be filled for enhanced clarity of reproduction and improved visual perception by the operator, except as otherwise noted for individual symbols.

4.2 Limitations inherent in some reproduction and display technologies may require increased line thickness or other minor modifications of symbols. Such modifications are acceptable provided the symbol remains unchanged in its basic graphical elements and easily discernible by the operator.

4.3 Additionally, to improve the appearance and perceptibility of a graphical symbol, or to coordinate with the design of the equipment to which the symbol is applied, it may be necessary to change the line thickness or round the corners of a symbol. The graphic designer is normally free to make such changes, provided that the essential perceptual characteristics of the symbol are maintained. See ISO 3461-1:1988, subclause 10.2.

4.4 For actual use, all symbols shall be reproduced large enough to be easily discernible by the operator. See ISO 3461-1 for guidelines on the proper sizing of symbols. Symbols shall be used in the orientation shown in this International Standard unless otherwise noted for individual symbols.

4.5 Most symbols are constructed using a building block approach in which various symbols and symbol elements are combined in a logical manner to produce new symbols.

4.6 If a symbol shows a machine or parts of a machine from a side view, a machine moving from right to left across the symbol grid area shall be assumed. If a symbol shows a machine or parts of a machine from an overhead view, a machine moving from bottom to top across the symbol grid area shall be assumed.

4.7 Symbols on controls and displays shall have good contrast to their background. A light symbol on a dark background is preferred for most controls. Displays may use either a light symbol on a dark background or a dark symbol on a light background, depending upon which alternative provides the best visual perception. When a symbol image is reversed (for example, from black-on-white to white-on-black and vice versa), it shall be done for the entire symbol.

4.8 Symbols shall be located on or adjacent to the control or display that is being identified. Where more than one symbol is required for a control, the symbols shall be located in relation to the control such that movement of the control toward the symbol shall effect the function depicted by that symbol.

4.9 Arrows used in symbols shall conform to the requirements of ISO 4196. ISO 3461-1 shall be consulted for the general principles of creating symbols.

4.10 ISO/IEC registration numbers are shown for symbols in this International Standard. Registration numbers below 5000 refer to ISO 7000. Registration numbers above 5000 refer to IEC 417.

4.11 Letters and numerals may be used as symbols, but are not registered by ISO/TC 145 or published in ISO 7000. The fonts shown in this International Standard are not intended to be restrictive: other fonts may be substituted, but care shall be taken to ensure that legibility is maintained.

4.12 Symbols in this International Standard are presented within the outer limits of a 24 mm square grid (32 % of original size on the ISO graphics grid). Grid marks “L” delimit the corners of the 75 mm square graphics grid from ISO 3461-1. Corner marks are not part of the symbol, but are provided to ensure consistent presentation of all symbol graphics.

5 Colour

5.1 When used on illuminated displays, the following colours have the meanings indicated:

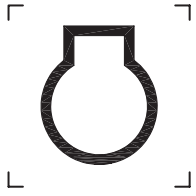
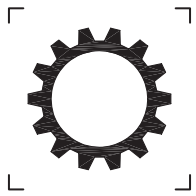
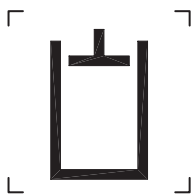
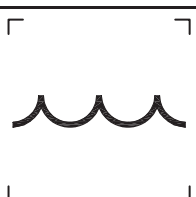
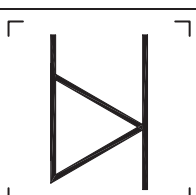
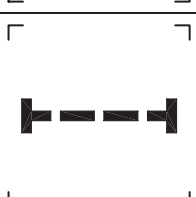
- **red:** failure, serious malfunction, or dangerous operating condition that requires immediate attention;
- **yellow** or **amber:** outside normal operating limits or approaching a dangerous operating condition;
- **green:** normal operating conditions.

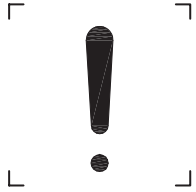
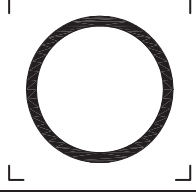
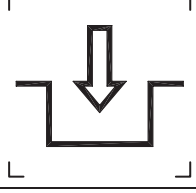
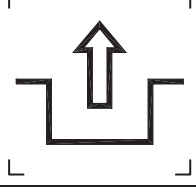
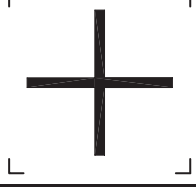
5.2 In addition, certain colours are used for specific functions:

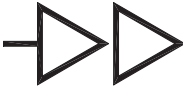
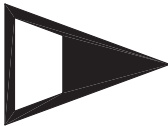
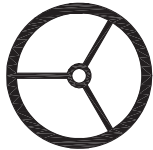
- **blue:** headlight main/high beam display;
- **red:** hazard warning display;
- **green:** turn signal display.

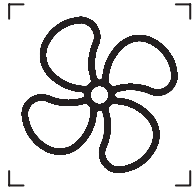
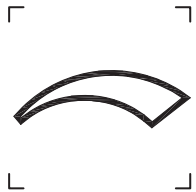
5.3 If colour is used on symbols for heating and/or cooling systems, the colour **red** shall be used to indicate hot and the colour **blue** shall be used to indicate cold.

6 Basic symbols

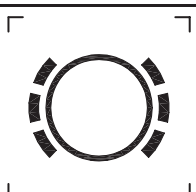
Reference number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
6.1		Engine (RIC engine)	1156
6.2		Transmission	1166
6.3		Hydraulic system	1409
6.4		Brake system	1399
6.5		Oil	1056
6.6		Water	0536
6.7		Level indicator	Application of 0159
6.8		Filter	1369

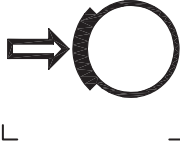
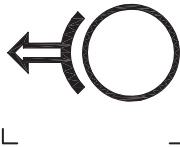
Reference number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
6.9		Failure/malfunction	1603
6.10		Temperature	0034
6.11		On	5007
6.12		Off	5008
6.13		Centre of gravity	0627
6.14		Engage	0022
6.15		Disengage	0023
6.16		Increase/positive polarity	5005

Reference number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
6.17		Decrease/negative polarity	5006
6.18		Electric energy	0232
6.19		Fast run	5108
6.20		Slow run	5124
6.21		Fast	Application Example
6.22		Slow	Application Example
6.23		Lock	1656
6.24		Steering	0326

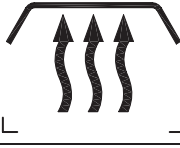
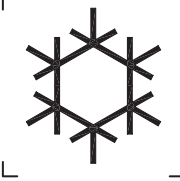
Reference number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
6.25		Ventilating/air circulating fan	0089
6.26		Progressively variable — Rotation	1364

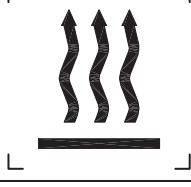
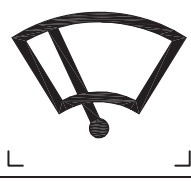
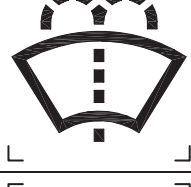
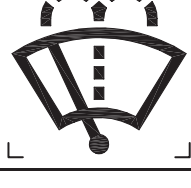
7 Brake system symbols

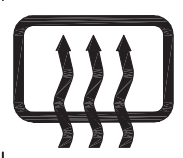
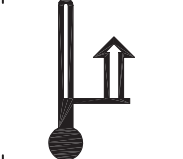
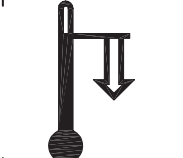
Reference number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
7.1		Brake fluid	1400
7.2		Brake system — Pressure	1402
7.3		Brake system — Failure/malfunction	0239
7.4		Parking brake	0238
7.5		Worn brake linings	1408

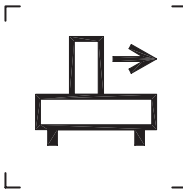
Reference number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
7.6		Brake — On	0020
7.7		Brake — Off	0021

8 Cab symbols

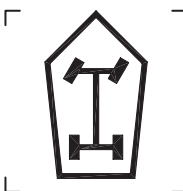
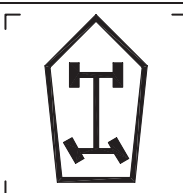
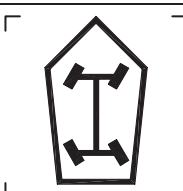
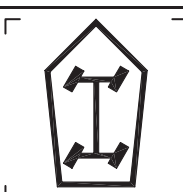
Reference number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
8.1		Cab roof — Demister/defroster	2385
8.2		Cab roof — Wiper	2387
8.3		Cab roof — Washer	2386
8.4		Cab roof — Washer and wiper	2388
8.5		Cooling/air conditioning	0027

Reference number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
8.6		Elevating operator position — Raise	2340
8.7		Elevating operator position — Lower	2339
8.8		Seatbelt — Lap and shoulder belt	0249
8.9		Seatbelt — Lap belt only	1702
8.10		Interior heating	0637
8.11		Windscreen/windshield wiper	0086
8.12		Windscreen/windshield washer	0088
8.13		Windscreen/windshield washer and wiper	0087

Reference number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
8.14		Windscreen/windshield demister/defroster	0635
8.15		Rear window wiper	0097
8.16		Rear window washer	0099
8.17		Rear window washer and wiper	0098
8.18		Rear window demister/defroster	0636
8.19		Temperature — Increasing	0035
8.20		Temperature — Decreasing	0036
8.21		Sideloader cab — Traverse left	2382

Reference number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
8.22		Sideloader cab — Traverse right	2383
8.23		Seat adjustment — Longitudinal	1428
8.24		Seat height adjustment	1430

9 Driving controls symbols

Reference number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
9.1		2-wheel steering — Front (Powered industrial trucks)	2391
9.2		2-wheel steering — Rear (Powered industrial trucks)	2392
9.3		All-(4)-wheel steering (Powered industrial trucks)	2393
9.4		Crab steering (Powered industrial trucks)	2394