

Road vehicles — Symbols for controls, indicators and tell-tales

ICS 01.080.20; 43.040.30

National foreword

This British Standard reproduces verbatim ISO 2575:2000, including amendments 1:2001 and 4:2001 and technical corrigendum 1:2001, and implements it as the UK national standard. It supersedes BS AU 143f:1996 (dual numbered as ISO 2575:1995) which is withdrawn.

The text of ISO amendment 1:2001 is reproduced as National annex NA and the text of ISO amendment 4:2001 is reproduced as National annex NB. Technical corrigendum 1:2001 has been incorporated into the standard.

Technical corrigendum 1:2001 made changes to 4.9 and Annex C, symbols C.15, C.16, C.17 and C.18.

The UK participation in its preparation was entrusted to Technical Committee AUE/12, Safety related to occupants, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

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Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, pages ii to iv, pages 1 to 59 and a back cover.

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Amendments issued since publication

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INTERNATIONAL STANDARD

ISO
2575

Sixth edition
2000-03-15

Road vehicles — Symbols for controls, indicators and tell-tales

*Véhicules routiers — Symboles pour les commandes, indicateurs et
témoins*



Reference number
ISO 2575:2000(E)

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Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 General	2
5 Colour	2
Annex A (normative) Lighting and signalling devices	5
Annex B (normative) Braking systems	9
Annex C (normative) Visibility	12
Annex D (normative) Cab environment and comfort	15
Annex E (normative) Maintenance and load functions	19
Annex F (normative) Engine	21
Annex G (normative) Fuel system	25
Annex H (normative) Transmission	28
Annex I (normative) Power drive	30
Annex J (normative) Vehicle handling and cruise control	34
Annex K (normative) Active and passive safety systems	35
Annex L (normative) Security	37
Annex M (normative) Electrical functions in general, and electric or hybrid electric road vehicles	38
Annex N (normative) Information and communication	39
Annex X (normative) Miscellaneous	40
Annex Z (normative) Special signs	41

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 2575 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 13, *Ergonomics applicable to road vehicles*.

This sixth edition cancels and replaces the fifth edition (ISO 2575:1995), which has been technically revised.

Annexes A to N, X and Z form a normative part of this International Standard.

Road vehicles — Symbols for controls, indicators and tell-tales

1 Scope

This International Standard establishes symbols (i.e. conventional signs) for use on controls, indicators and tell-tales of a road vehicle to ensure identification and facilitate use.

It also indicates the colours of possible optical tell-tales which inform the driver of either correct operation or malfunctioning of the related devices.

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 4196:1984, *Graphical symbols — Use of arrows*.

ISO 7000:1989, *Graphical symbols for use on equipment — Index and synopsis*.

ISO 7001:1990, *Public information symbols/Amd. 1:1993*.

ISO 15008-1:—¹⁾, *Road vehicles — Ergonomic aspects of in-vehicle visual presentation for transport information and control systems — Part 1: Specifications*.

IEC 60417 (all parts), *Graphical symbols for use on equipment*.

3 Terms and definitions

For the purposes of this International Standard, the following terms and definitions apply.

3.1

symbol

visually perceptible figure used to transmit information independently of language, produced by drawing, printing or other means

1) To be published.

3.2

tell-tale

display that indicates, by means of a light-emitting device, the actuation of a device, a correct or defective functioning or condition, or a failure to function

3.3

sign

visually perceptible graphic, generally larger in size than a symbol, designed for a label, tag or sticker

4 General

4.1 The symbols shall be as given in annexes A to Z, except for minor deviations necessary to reproduce an accurate representation to the driver's line of sight.

A summary of all symbols included in the annexes is given in Table 1.

NOTE Additional annexes may be included in future editions of this International Standard if necessary.

4.2 In developing the symbols shown in annexes A to Z, legibility factors such as line thickness, gaps between lines, symbol and arrow shapes, etc., were carefully considered. Modifications that improve legibility are permitted in the circumstances specified in 4.2.1 and 4.2.2. When modifying symbol elements the graphical designer should consult ISO 4196 and ISO 3461-1.

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

4.2.2 Additionally, to improve the appearance and perceptibility of a graphical symbol or to coordinate with the design of the equipment to which it is applied, it may be necessary to change the line thickness or to round off the corners of the symbol. The graphical designer is normally free to make such changes provided that the essential perceptible characteristics of the symbol are maintained.

4.3 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 orientations shown in this International Standard unless otherwise noted for individual symbols.

4.4 If a symbol shows a vehicle or parts of a vehicle in a side view, a vehicle moving from right to left in the symbol area shall be assumed. If a symbol shows a vehicle or parts of a vehicle in a top, plan view, a vehicle moving from bottom to top on the symbol area shall be assumed.

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

4.6 ISO/IEC registration numbers are shown for symbols in this International Standard. Registration numbers below 5000 refer to ISO 7000 and ISO 7001. Registration numbers above 5000 refer to IEC 60417.

4.7 Letters and numerals may be used as symbols, but are not registered by ISO/TC 145 or published in ISO 7000. For example, the letters P, R, N, D, listed as symbols H.01 to H.04, have the meaning indicated when used in association with transmission gear controls and displays on road vehicles. The fonts shown in this International Standard are not intended to be restrictive: other fonts may be substituted, but care shall be taken that legibility is maintained.

4.8 Symbols in this International Standard are presented 32 % of original size. The grid marks "L" denote the corners of a 75 mm square. The grid marks are not part of the symbol but are provided to ensure consistent presentation of all symbol graphics.

4.9 For symbols that are displayed using pixel matrices, matrices shall be as specified in ISO 15008-1.

5 Colour

5.1 When used on optical indicators or tell-tales, the following colours have the meanings indicated:

- red: danger to persons or very serious damage to equipment immediate or imminent;
- yellow or amber: caution, outside normal operating limits, vehicle system malfunction, damage to vehicle likely, or other condition which may produce hazard in the longer term;
- green: safe, normal operating condition (where blue or yellow is not required).

5.2 Certain colours are used for specific tell-tales (refer to the "symbol description/application" column in the annexes):

- blue: e.g. headlight high (main) beam;
- green: e.g. turn signals;
- yellow: e.g. failure of anti-lock braking system;
- red: e.g. hazard warning.

The colours green, yellow and red are also required for other tell-tales by various countries.

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

5.4 The colour white may be used where none of the above conditions apply.

Table 1 — Summary of all symbols

Symbol no.	Annex ^a															
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	X	Z
01								P								
02								R								
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^a A = Lighting and signalling devices

B = Braking systems

C = Visibility

D = Cab environment and comfort

E = Maintenance and load functions

F = Engine

G = Fuel system

H = Transmission

I = Power drive

J = Vehicle handling and cruise control

K = Active and passive safety systems

L = Security

M = Electric functions in general and electric or hybrid electric road vehicles

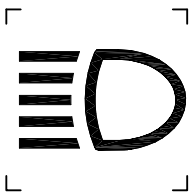
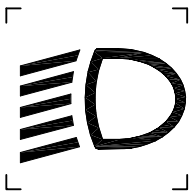
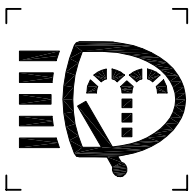
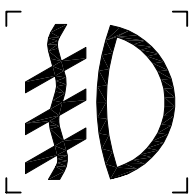
N = Information and communication

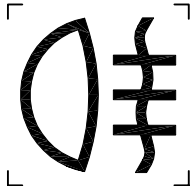
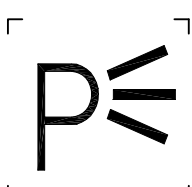
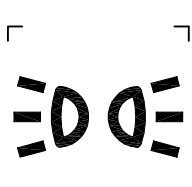
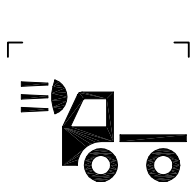
X = Miscellaneous

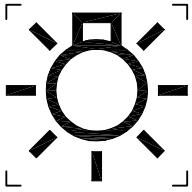
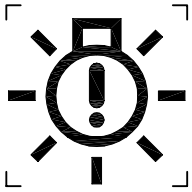
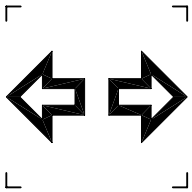
Z = Special signs

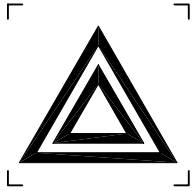
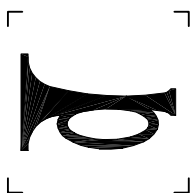
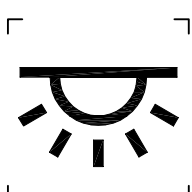
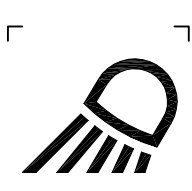
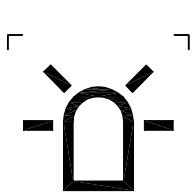
Annex A (normative)

Lighting and signalling devices

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
A.01		High (main) beam Steady blue tell-tale Framed areas of this symbol may be solid. The control operating alternately the high beam and the low beam may include two symbols, one for each of the positions: high beam, low beam.	7000-0082
A.02		Low (dipped) beam Framed areas of this symbol may be solid. The control operating alternately the high beam and the low beam may include two symbols, one for each of the positions: high beam, low beam.	7000-0083
A.03		Headlamp cleaner This symbol may also be used on the filler cap of the fluid container.	7000-0250
A.04		Headlight levelling manual control	7000-0151
A.05		Front fog light If one symbol is used for both front and rear fog lights, this symbol shall be used.	7000-0633

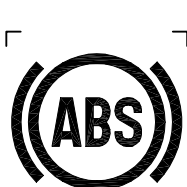
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
A.06		Rear fog light If one symbol is used for both front and rear fog lights, the symbol for front fog light (A.05) shall be used.	7000-0634
A.07		Long-range light	7000-0639
A.08		Parking lights	7000-0240
A.09		Position (side) lights	7000-0456
A.10		Loading light	7000-2457
A.11		Elevated headlights Loading platform and rear axle may be omitted if not needed.	7000-2458

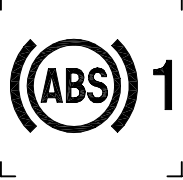
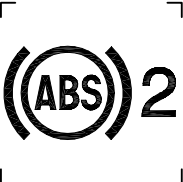
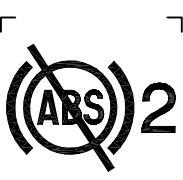
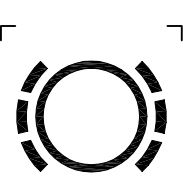
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
A.12		Roof sign illumination Loading platform and rear axle may be omitted if not needed.	7000-2459
A.13		Master lighting switch	IEC 60417-5012
A.14		Exterior bulb failure Yellow tell-tale	7000-1555
A.16		Turn signals Flashing green light(s) Framed areas of this symbol may be solid. It is permissible to separate the left and right arrows.	7000-0084
A.17		Turn signals, first trailer Flashing green light(s) Framed areas of this symbol may be solid.	7000-1419
A.18		Turn signals, second trailer Flashing green light(s) Framed areas of this symbol may be solid.	7000-1420

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
A.19		Hazard warning Simultaneous operation of both green turn signal tell-tales, or separate red signal. This symbol applies only to the control and to the separate red tell-tale. Framed areas of this symbol may be solid.	7000-0085
A.20		Horn	7000-0244
A.21		Interior compartment illumination	7000-1421
A.23		Working light	7000-1204
A.24		Beacon	7000-1141

Annex B (normative)

Braking systems

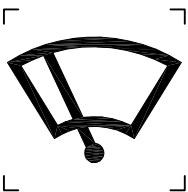
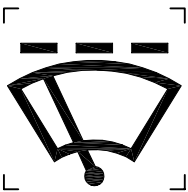
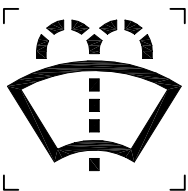
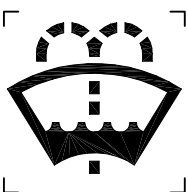
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
B.01		Brake failure Red tell-tale In the case where a single tell-tale indicates more than one brake system condition, this symbol shall be used.	7000-0239
B.02		Parking brake Red tell-tale In the case where a single tell-tale indicates more than one brake system condition, the symbol for brake failure (B.01) shall be used.	7000-0238
B.03		Braking system failure, first trailer Red tell-tale In the case where a single tell-tale indicates more than one brake system condition, the symbol for brake failure (B.01) shall be used.	7000-1405
B.04		Braking system failure, second trailer Red tell-tale In the case where a single tell-tale indicates more than one brake system condition, the symbol for brake failure (B.01) shall be used.	7000-1406
B.05		Failure of anti-lock braking system Yellow tell-tale The letters "ABS" may match the type style used throughout the instrument panel.	7000-1407

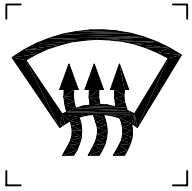
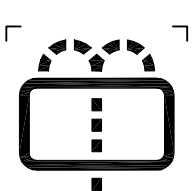
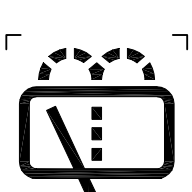
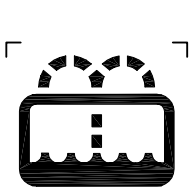
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
B.06		Anti-lock braking system, first trailer The letters "ABS" may match the type style used throughout the instrument panel.	7000-2444
B.07		Anti-lock braking system, second trailer The letters "ABS" may match the type style used throughout the instrument panel.	7000-2445
B.08		Anti-lock braking system, first trailer not equipped The letters "ABS" may match the type style used throughout the instrument panel.	7000-2446
B.09		Anti-lock braking system, second trailer not equipped The letters "ABS" may match the type style used throughout the instrument panel.	7000-2447
B.10		Worn brake linings	7000-1408

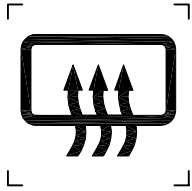
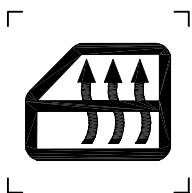
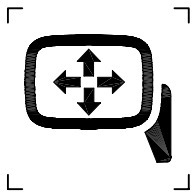
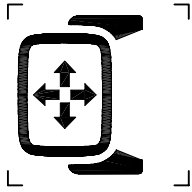
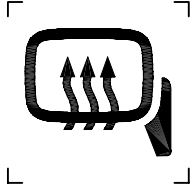
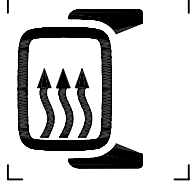
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
B.11	The symbol consists of a circle containing a thermometer-like icon with a vertical tube and a bulb at the bottom. The entire symbol is enclosed in a square frame with corner brackets. or An alternative symbol for B.11, consisting of a circle containing a thermometer-like icon with a vertical tube and a bulb at the bottom. The entire symbol is enclosed in a square frame with corner brackets.	Brake temperature Preferred version for road vehicle use.	7000-1403 B 7000 -1403
B.12	The symbol consists of a circle containing two horizontal arrows pointing towards each other, meeting at a central dot. The entire symbol is enclosed in a square frame with corner brackets. or An alternative symbol for B.12, consisting of a circle containing two horizontal arrows pointing away from each other, starting from a central dot. The entire symbol is enclosed in a square frame with corner brackets.	Brake fluid/air pressure	7000-1402
B.13	The symbol consists of a circle containing a wavy line representing liquid level. The entire symbol is enclosed in a square frame with corner brackets.	Brake fluid level This symbol may also be used on the filler cap of the fluid container.	7000-1401
B.15	The symbol consists of a circle with two horizontal arrows pointing outwards from its sides. The entire symbol is enclosed in a square frame with corner brackets.	Spring brake release	7000-2448

Annex C (normative)

Visibility

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
C.01		Windscreen wiper	7000-0086
C.02		Windscreen wiper — Intermittent	7000-0647
C.03		Windscreen washer	7000-0088
C.04		Windscreen washer and wiper	7000-0087
C.05		Windscreen washer fluid level This symbol may also be used on the filler cap of the fluid container.	7000-1422

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
C.06		Windscreen demisting and defrosting	7000-0635
C.08		Rear window wiper	7000-0097
C.09		Rear window wiper — Intermittent	7000-1424
C.10		Rear window washer	7000-0099
C.11		Rear window wiper and washer	7000-0098
C.12		Level of rear window washer fluid This symbol may also be used on the cap of the fluid container.	7000-1423

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
C.13		Rear window demisting and defrosting	7000-0636
C.14		Side window demisting and defrosting	7000-1425
C.15		Exterior rear view mirror adjustment, horizontal type Symbol allows for mirror image . Arrows can be omitted, if that function does not exist.	7000-1427
C.16		Exterior rear view mirror adjustment, vertical type Symbol allows for mirror image . Arrows can be omitted, if that function does not exist.	7000-2469
C.17		Exterior rear view mirror heating, horizontal type Symbol allows for mirror image .	7000-1426
C.18		Exterior rear view mirror heating, vertical type Symbol allows for mirror image .	7000-2470