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BS ISO 2575:2010+A3:2014



BSI Standards Publication

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

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The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to ISO text carry the number of the ISO amendment. For example, text altered by ISO amendment 1 is indicated by A1 A1.

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

Véhicules routiers — Symboles pour les commandes, indicateurs et témoins



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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	3
6 Summary table of all symbols	3
Annex A (normative) Lighting and signalling devices	8
Annex B (normative) Braking systems	13
Annex C (normative) Visibility	16
Annex D (normative) Cab environment and comfort	20
Annex E (normative) Maintenance and load functions	26
Annex F (normative) Engine	28
Annex G (normative) Fuel system	32
Annex H (normative) Transmission	34
Annex I (normative) Power drive	37
Annex J (normative) Vehicle handling and cruise control	41
Annex K (normative) Active and passive safety systems	44
Annex L (normative) Security	48
Annex M (normative) Electric functions in general and electric road vehicles	51
Annex N (normative) Information and communication	53
Annex W (informative) Generic vehicle shapes	54
Annex X (normative) Miscellaneous	56
Annex Y (informative) Special symbols	57
Annex Z (informative) Special signs	58
Bibliography	60

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 2.

The main task of technical committees is to prepare International Standards. 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 document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

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

This eighth edition cancels and replaces the seventh edition (ISO 2575:2004), of which it constitutes a minor revision. It also incorporates the Amendments ISO 2575:2004/Amd.1:2005, ISO 2575:2004/Amd.2:2006, ISO 2575:2004/Amd.3:2008 and ISO 2575:2004/Amd.4:2009.

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

IMPORTANT — The electronic file of this document contains colours which are considered to be useful for the correct understanding of the document. Users should therefore consider printing this document using a colour printer.

1 Scope

This International Standard specifies symbols (i.e. conventional signs) for use on controls, indicators and tell-tales applying to passenger cars, light and heavy commercial vehicles and buses, 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 referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 15008, *Road vehicles — Ergonomic aspects of transport information and control systems — Specifications and test procedures for in-vehicle visual presentation*

3 Terms and definitions

For the purposes of this document, 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

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

3.4

application

modification of symbol originals in order to maintain visual clarity and overall consistency

4 General

4.1 The symbols and signs shall be as given in Annexes A to N and Annex X. Additional symbols are given in Annexes W, Y and Z. Minor deviations to the symbols and signs are permitted, provided they are necessary to reproduce an accurate representation to the driver's line of sight.

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

4.2 In developing the symbols and signs 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, 4.2.2 and 4.2.3. When modifying symbol elements, the graphic designer should consult IEC 80416-1, ISO 80416-2, IEC 80416-3, and ISO 80416-4.

4.2.1 Limitations inherent in some reproduction and display technologies can 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 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 can be necessary to change the line thickness or to round off the corners of the symbol. The graphic designer is normally free to make such changes provided that the essential perceptible characteristics of the symbol are maintained.

4.2.3 The graphic designer may render a symbol in either outline or solid form unless this is otherwise prohibited by the symbol description.

4.3 The vehicle shapes shown in this International Standard are not intended to be restrictive but are the recommended shapes. Modifications to a passenger car or commercial vehicle shape may be introduced by designers in order to better represent the true exterior shape of a given vehicle. Except for vehicle shape, no other symbol element shall be changed, except as provided in 4.2 or in the specific symbol's description.

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 in the symbol area shall be assumed.

4.5 For actual use, all symbols shall be reproduced large enough to be easily discernible by the operator. See IEC 80416-3 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.

4.6 Symbols on controls and displays shall contrast well with 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.

4.7 For symbols that are displayed using pixel matrices, the character matrix shall be as stipulated in ISO 15008.

4.8 Letters and numerals may be used as symbols, but are not registered by ISO/TC 145, *Graphical symbols*, 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 provided that legibility is maintained.

4.9 "Failure" or "malfunction" may be conveyed in two ways:

- a) base symbol combined with a colour code according to 5.1;
- b) base symbol combined with failure symbol X.08; optionally, an appropriate colour code in accordance with 5.1 may be added.

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4.10 ISO/IEC registration numbers are shown for symbols in this International Standard where applicable. Registration numbers below 5000 refer to ISO 7000. Registration numbers above 5000 refer to IEC 60417. Artwork in this International Standard might differ from the artwork shown in IEC 60417, ISO 7000 or the IEC/ISO database on graphical symbols for use on equipment. In this case, the artwork in this International Standard shall be used.

4.11 The symbol numbers not represented are reserved for those symbols still under consideration at the time of publication of this edition of ISO 2575. It is envisaged that the status of these symbols and the numbers will be resolved by the next revision of this International Standard.

4.12 Symbols in the annexes (except Annex Z) of this International Standard are presented at 32 % of original size. The grid marks “L” denote the corners of the original 75 mm square. The grid marks are not part of the symbol but are provided to ensure consistent presentation of all symbol graphics.

4.13 New symbols for functions not yet covered in this International Standard should be constructed using symbols or elements of symbols from this International Standard in a logical manner, keeping the coherence with other symbols already published.

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 can produce hazard in the longer term;
- green: safe, normal operating condition (where blue or yellow is not required).

A given symbol may be shown in more than one of these colours in order to convey the indicated meanings.

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

- blue: e.g. high beam, main beam;
- green: e.g. turn signals;
- yellow/amber: e.g. failure of anti-lock brake system;
- red: e.g. hazard warning.

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.

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

5.5 A given symbol may be shown in more than one of the colours specified in 5.1 in order to convey a change in the operating condition.

6 Summary table of all symbols

Table 1 provides a pictorial summary of the symbols in each annex.