



BSI Standards Publication

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

National foreword

This British Standard is the UK implementation of [ISO 6727:2021](#). It supersedes [BS ISO 6727:2012](#), which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee AUE/14, Motor cycles and mopeds.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Third edition
2021-03-09

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

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



Reference number
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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 38, *Motorcycles and mopeds*.

This third edition cancels and replaces the second edition ([ISO 6727:2012](http://www.iso.org/iso/6727:2012)), which has been technically revised.

The main changes compared to the previous edition are as follows:

- the scope has been expanded to mopeds, the third edition of [ISO 4129:2012](http://www.iso.org/iso/4129:2012) which was technically revised has been integrated, and
- new symbols have been added due to technology changes.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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

1 Scope

This document specifies the symbols, i.e. conventional signs, used to identify certain controls, indicators and tell-tales on a motorcycle/moped¹⁾ and to facilitate their usage.

This document also indicates the colours of possible optical tell-tales which warn the rider of the operation or malfunctioning of the related devices and equipment.

This document is applicable to those controls, indicators and tell-tales, which, when used, are fitted on the instrument panel or in the immediate vicinity of the motorcycle/moped rider.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

symbol

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

[SOURCE: ISO 2575:2010, 3.1]

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

[SOURCE: ISO 2575:2010, 3.2]

3.3

sign

visually perceptible graphic, generally larger in size than a *symbol* (3.1), designed for a label, tag or sticker

[SOURCE: ISO 2575:2010, 3.3]

1) “Motorcycle/moped” as defined in ISO 3833 but does not include a steering wheel type.

4.9 Each symbol used for the identification of a tell-tale, control or indicator shall stand out clearly against the background.

4.10 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 R, N, D, listed as symbols <MG.01 to MG.03>, have the meaning indicated when used in association with transmission gear controls and displays on road vehicles. The fonts shown in this document are not intended to be restrictive; other fonts may be substituted provided that legibility is maintained.

4.11 “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 <MN.02>; optionally, an appropriate colour code in accordance with [5.1](#) may be added.

4.12 ISO/IEC registration numbers are shown for symbols in this document where applicable. Registration numbers below 5 000 refer to [ISO 7000](#). Registration numbers above 5 000 refer to [IEC 60417](#). Artwork in this document 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 document shall be used.

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

4.14 Symbols in the annexes (except [Annex O](#)) of this document 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.

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

5 Colour

5.1 When the following colours are used on the optical tell-tales, they shall have the meaning indicated below:

- red: danger to persons or very serious damage to equipment, immediate or imminent.
- amber (yellow): 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 (except if blue or amber is required by annexes).

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.
- amber (yellow): 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.

Table 1 — Summary of all symbols

Symbol No.	ANNEX														
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
M.01															
M.02															
M.03															
M.04															
M.05															
M.06															
M.07															
M.08															
M.09															
M.10															
M.11															
M.12															
M.13															
M.14															

Bibliography

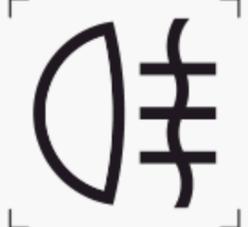
- [1] [ISO 2575:2010](#), *Road vehicles — Symbols for controls, indicators and tell-tales*
- [2] ISO 3833, *Road vehicles — Types — Terms and definitions*
- [3] [ISO 3864-1](#), *Graphical symbols — Safety colours and safety signs — Part 1: Design principles for safety signs and safety markings*
- [4] [ISO 3864-4](#), *Graphical symbols — Safety colours and safety signs — Part 4: Colorimetric and photometric properties of safety sign materials*
- [5] [ISO 7000](#), *Graphical symbols for use on equipment — Registered symbols*
- [6] [ISO 7001](#), *Graphical symbols — Public information symbols*
- [7] [ISO 7010](#), *Graphical symbols — Safety colours and safety signs — Registered safety signs*
- [8] IEC 60417 and ISO 7000 database, *Graphical symbols for use on equipment*, [Available at <http://www.graphical-symbols.info/equipment>]
- [9] [IEC 80416-1](#), *Basic principles for graphical symbols for use on equipment — Part 1: Creation of graphical symbols for registration*
- [10] [ISO 80416-2](#), *Basic principles for graphical symbols for use on equipment — Part 2: Form and use of arrows*
- [11] [IEC 80416-3](#), *Basic principles for graphical symbols for use on equipment — Part 3: Guidelines for the application of graphical symbols*
- [12] ISO 80416-4, *Basic principles for graphical symbols for use on equipment — Part 4: Guidelines for the adaptation of graphical symbols for use on screens and displays (icons)*
- [13] [ISO 15008](#), *Road vehicles — Ergonomic aspects of transport information and control systems — Specifications and test procedures for in-vehicle visual presentation*
- [14] UNECE/TRANS/180/Add.12, 2011, *Global technical regulation concerning the location, identification and operation of motorcycle controls, tell-tales and indicators, Addendum 12*

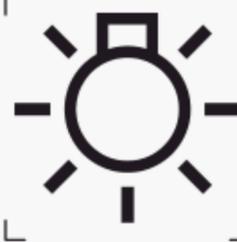
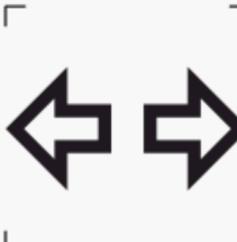
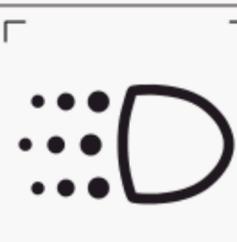
Annex A (normative)

Lighting and signalling devices

See [Table A.1](#) for the symbols regarding lighting and signalling devices.

Table A.1 — Symbols for lighting and signalling devices

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
MA.01		High beam, main beam Colour of tell-tale light: blue 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. This symbol may be used for optical warning device.	ISO 7000-0082
MA.02		Low beam, dipped beam Colour of tell-tale light: green 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.	ISO 7000-0083
MA.03		Headlamp levelling control The up and down arrows may be separated.	ISO 7000-0151
MA.04		Front fog light Colour of tell-tale light: green If one control is used for both front and rear fog lights, this symbol shall be used.	ISO 7000-0633
MA.05		Rear fog light Colour of tell-tale light: amber (yellow) If one control is used for both front and rear fog lights, the symbol for front fog light (MA.04) shall be used.	ISO 7000-0634
MA.06		Parking lights Colour of tell-tale light: green	ISO 7000-0240

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
MA.07		Position lights Colour of tell-tale light: green	ISO 7000-0456
MA.08		Master lamp Colour of tell-tale light: green	Application of IEC 60417-5012
MA.09		Instrument panel illumination	ISO 7000-1556B
MA.10		Turn signals Colour of tell-tale light: green The left and right arrows may be either included in 1 unique symbol, or 2 separate ones.	ISO 7000-0084
MA.11		Hazard warning Simultaneous operation of either green turn signal tell-tales, or separate red signal. This symbol applies only to the control and to the separate red tell-tale.	ISO 7000-0085
MA.12		Signal horn	ISO 7000-0244
MA.13		Daytime running lights	Application of ISO 7000-2611
MA.14		Bend lighting This symbol may be used for "Cornering lighting" or AFS" (Adaptive Front-lighting System)	Application of ISO 7000-2669

Annex B (normative)

Braking systems

See [Table B.1](#) for the symbols regarding braking systems.

Table B.1 — Braking systems symbols

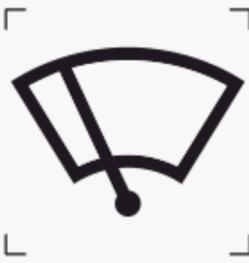
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
MB.01		Parking brake Colour of tell-tale light: Red	Application of ISO 7000-0238
MB.02		Anti-lock brake system, failure Colour of tell-tale light: amber (yellow) The letters "ABS" may match the type style used throughout the instrument panel.	Application of ISO 7000-1407
MB.03		Anti-lock brake system, off or not available Alternatively, "off" or "not available" may be indicated by the use of base symbol MB.02 as an amber (yellow) tell-tale.	Application of ISO 7000-2623

Annex C (normative)

Visibility

See [Table C.1](#) for the symbols regarding visibility.

Table C.1 — Visibility symbols

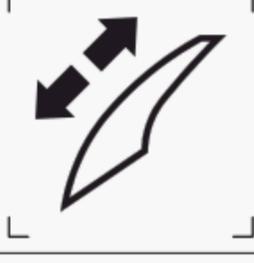
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
MC.01		Windscreen wiper	ISO 7000-0086
MC.02		Windscreen washer	ISO 7000-0088

Annex D (normative)

Cab environment and comfort

See [Table D.1](#) for the symbols regarding cab environment and comfort.

Table D.1 — Cab environment and comfort symbols

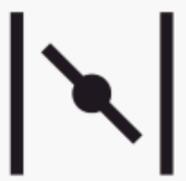
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
MD.01		Ventilation open	ISO 7000-2594
MD.02		Ventilation closed	ISO 7000-2577
MD.03		Heated seat	ISO 7000-0649A
MD.04		Temperature Used for ambient temperature It is optional to indicate the scale [°C or °F]	ISO 7000-0034B
MD.05		Windscreen, adjustment type The up and down arrows may be separated.	ISO 7000-3035
MD.06		Handgrip heater	ISO 7000-3036

Annex E (normative)

Engine

See [Table E.1](#) for the symbols regarding the engine.

Table E.1 — Engine symbols

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
ME.01		Engine Colour of tell-tale light: amber (yellow)	Application of ISO 7000-0640
ME.02		Engine coolant temperature Colour of tell-tale light at high engine coolant temperature: red	ISO 7000-0246
ME.03		Engine oil Colour of tell-tale light: red	ISO 7000-0248
ME.04		Manual choke; cold starting aid Colour of tell-tale light: amber (yellow)	ISO 7000-0243
ME.05		Ignition control of supplemental engine / motor stop, "run"	ISO 7000-2425
ME.06		Ignition control of supplemental engine / motor stop, "off"	ISO 7000-1180

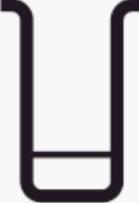
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
ME.07		Automatic idle start/stop	ISO 7000-3127
ME.08	<p data-bbox="586 689 768 728">Symbol "A"</p>  <p data-bbox="586 1031 768 1070">Symbol "B"</p> 	<p data-bbox="880 689 1632 728">Automatic idle start/stop, off or not available</p> <p data-bbox="880 1031 1632 1070">Automatic idle start/stop, off or not available</p>	<p data-bbox="1674 689 1914 804">Symbol "A" Application of ISO 7000-3127</p> <p data-bbox="1674 1152 1914 1230">Symbol "B" ISO 7000-3747</p>

Annex F (normative)

Fuel system

See [Table F.1](#) for the symbols regarding the fuel system.

Table F.1 — Fuel system symbols

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
MF.01		Fuel In case of use for “remaining fuel amount warning”, colour of tell-tale light: amber (yellow) This symbol may also be used on the filler cap of the fuel tank, fuel meter.	Application of ISO 7000-0245
MF.02		Unleaded fuel	Application of ISO 7000-0237
MF.03		Fuel tank shut-off valve position, "on"	ISO 7000-3031
MF.04		Fuel tank shut-off valve position, "reserve"	ISO 7000-3032
MF.05		Fuel type “XXX” shall be replaced by actual fuel type, e.g. LPG (liquefied petroleum gas), CNG (compressed natural gas), DIESEL, HYDROGEN, etc.	Application of ISO 7000-2641

Annex G (normative)

Transmission

See [Table G.1](#) for the symbols regarding transmission.

Table G.1 — Transmission symbols

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
MG.01		Reverse	See 4.10
MG.02		Neutral Colour of tell-tale light: green May match the type style used throughout the instrument panel.	See 4.10
MG.03		Drive	See 4.10
MG.04		Transmission failure/malfunction	ISO 7000-1396B
MG.05		Transmission “+” or “↑” may be added to indicate upshift “–” or “↓” may be added to indicate downshift.	ISO 7000-1166B
MG.06		Automatic mode	See 4.10

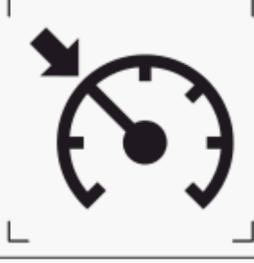
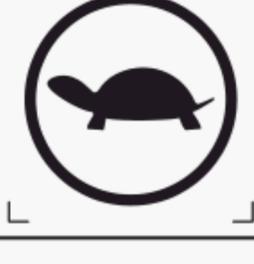
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
MG.07		Manual mode	See 4.10

Annex H (normative)

Vehicle handling and cruise control

See [Table H.1](#) for the symbols regarding vehicle handling and cruise control.

Table H.1 — Vehicle handling and cruise control symbols

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
MH.01		Traction control	ISO 7000-2048
MH.02		Traction control off or not available	ISO 7000-2579
MH.03		Cruise control	ISO 7000-2047
MH.04		Traction control failure	Application of ISO 7000-2631
MH.05		Icy road conditions Part of road lane may be omitted.	Application of ISO 7000-2614
MH.06		Limited performance mode Circle may be omitted.	Application of ISO 7000-2639

Annex I (normative)

Active and passive safety systems

See [Table I.1](#) for the symbols regarding active and passive safety systems.

Table I.1 — Symbols for active and passive safety systems

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
MI.01		Tyre failure/ malfunction	ISO 7000-1434 b
MI.02		Tyre pressure	Application of ISO 7000-1435

Annex J (normative)

Security

See [Table J.1](#) for the symbols regarding security.

Table J.1 — Security symbols

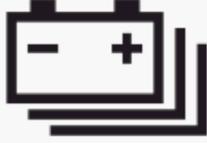
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
MJ.01		Lock The keyhole may be omitted.	Application of IEC 60417-5569
MJ.02		Unlock The keyhole may be omitted.	Application of IEC 60417-5570
MJ.03		Smart card, smart key	Application of ISO 7000-2849
MJ.04		Helmet lock; helmet holder Part of lock hook may be omitted.	ISO 7000-3034

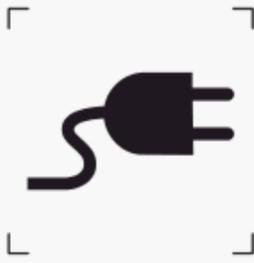
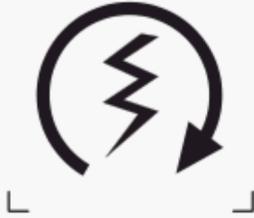
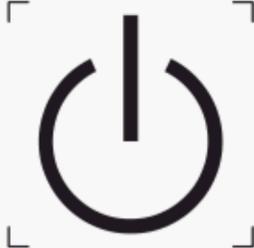
Annex K (normative)

Electric functions in general and electric road vehicles

See [Table K.1](#) for the symbols regarding electric functions in general and electric road vehicles.

Table K.1 — Symbols for electric functions in general and electric road vehicles

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
MK.01		Battery charging condition Colour of tell-tale light: red	ISO 7000-0247
MK.02		Caution, risk of electric shock The symbol background shall be yellow, the bordering and the arrow shall be black.	Application of IEC 60417-6042
MK.03	<p>Symbol "A"</p>  <p>Symbol "B"</p> 	State of charge propulsion battery In case of use for warning of remaining, colour of tell-tale light: amber (yellow) In case of use symbol "B" State of charge can be indicated by the numeric or the blinking segment(s). The number of segment is not specified. Modifications to the ratio of symbol shape may be permitted.	Application of ISO 7000-2632 IEC 60417-5001B
MK.04		Propulsion battery failure Colour of tell-tale light: red	Application of ISO 7000-2653
MK.05		Electric motor failure Electric propulsion motor failure Colour of tell-tale light: red or amber (yellow)	Application of ISO 7000-2633A

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
MK.06		External cord connected / unconnected To indicate the vehicle is connected/ unconnected to an external source for charging. To identify the location of the charging cord. In case to define the unconnected cord and out of the vehicle by colour, the colour should be: amber (yellow)	Application of ISO 7000-2616
MK.07		Electric motor enabled Indicates that electric propulsion is engaged and that forward and reverse motion is possible. The left or right arrowhead may be omitted to show direction of movement. Modifications to the vehicle shape may be introduced by designers in order to better represent the specific vehicle type.	ISO 7000-3748
MK.08		Electric starter; engine electric start	ISO 7000-3033A
MK.09		Ignition switch Power on/off	Application of IEC 60417-5009
MK.10		On position	Application of IEC 60417-5007
MK.11		Off position	Application of IEC 60417-5008

Annex L (normative)

Information and communication

See [Table L.1](#) for the symbols regarding information and communication.

Table L.1 — Information and communication symbols

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
ML.01		Operator's manual, operation instructions The letter " i " may be omitted.	Application of ISO 7000-1641

Annex M (informative)

Generic vehicle shapes

The vehicle shapes shown in this annex are not intended to be restrictive.

Modifications to shape may be introduced by designers in order to better represent the true exterior shape of a given vehicle.

Design elements, e.g. the number of riders may be modified in order to better represent the specific vehicle type.

See [Table M.1](#) for the symbol regarding generic vehicle shapes.

Table M.1 — Symbol for generic vehicle shape

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
MM.01		Motorcycles / mopeds	ISO 7000-3750

Annex N (normative)

Miscellaneous

See [Table N.1](#) for the miscellaneous symbols.

Table N.1 — Miscellaneous symbols

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
MN.01		Service, call for maintenance May be shown in other orientations.	Application of ISO 7000-0717
MN.02		Malfunction, general; failure To be combined with other symbols to convey failure or malfunction. Alternatively, “failure” or “malfunction” may be indicated by the use of the base symbol with an appropriate colour code; i.e. red or amber (yellow). See 5.1 .	Application of ISO 7000-1603A

Annex O (informative)

Special signs

See [Table O.1](#) for the symbol regarding special signs.

Table O.1 — Special signs symbol

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
MO.01		<p>Recommended minimum octane number</p> <p>The number “91” is an example and shall be replaced by the actual recommended octane number.</p> <p>The use of a “+” sign is optional after the octane number.</p>	Application of ISO 7000-2641

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