



SURFACE VEHICLE STANDARD



J2402 JAN2010

Issued 1997-06
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Superseding J2402 JUN1997

(R) Road Vehicles—Symbols for Controls, Indicators, and Tell-tales

RATIONALE

This revision incorporates symbols from ISO 2575 that were not included in the prior version of SAE J2402. Symbols F.27 and Z.01A, which are regulated symbols in the USA, are included in this document, but are not in ISO 2575. Symbols K.07B (child seat) and K.22 (CPOD) are in ISO 2575 but are not in this document.

FOREWORD

This document is technically equivalent to ISO 2575:2010 except as noted in the Rationale.

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1. SCOPE

This SAE 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 colors of possible optical tell-tales, which inform the driver of either correct operation or malfunctioning of the related devices.

2. REFERENCES

2.1 Applicable Publications

The following standards contain provisions which through reference in this text, constitute provisions of this document. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this document are encouraged to investigate the possibility of applying the most recent editions of the standards indicated in 2.1.1. Members of ISO and IEC maintain registers of current valid documents.

2.1.1 ISO and IEC Publications

Available from ANSI, 25 West 43rd Street, New York, NY 10036-8002, Tel: 212-642-4900, www.ansi.org.

IEC 80416-1	Basic principles for graphical symbols for use on equipment—Part 1: Creation of graphical symbols for registration
ISO 80416-2	Basic principles for graphical symbols for use on equipment—Part 2: Form and use of arrows
IEC 80416-3	Basic principles for graphical symbols for use on equipment—Part 3: Guidelines for the application of graphical symbols
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)
ISO 15008	Road vehicles—Ergonomic aspects of transport information and control systems—Specifications and test procedures for in-vehicle visual presentation

2.2 Related Publications

The following publications are provided for information purposes and are not a required part of this document.

2.2.1 SAE Publication

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

SAE J2830 Process for Comprehension Testing of In-Vehicle Icons

2.2.2 ISO and IEC Publications

Available from ANSI, 25 West 43rd Street, New York, NY 10036-8002, Tel: 212-642-4900, www.ansi.org.

ISO 2575:2010	Road vehicles—Symbols for controls, indicators and tell-tales
ISO 3864-1	Graphical symbols—Safety colours and safety signs—Part 1: Design principles for safety signs in workplaces and safety markings
ISO 3864-4	Graphical symbols—Safety colours and safety signs—Part 4: Colorimetric and photometric properties of safety sign materials
ISO 7000	Graphical symbols for use on equipment—Index and synopsis
ISO 7001	Public information symbols
ISO 7010	Graphical symbols—Safety colours and safety signs—Safety signs used in workplaces and public areas
IEC 60417 database	Graphical symbols for use on equipment [Available at http://www.graphical-symbols.info/equipment]

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

NOTE: Additional appendices could be included in future editions of this document if necessary.

4.2 In developing the symbols and signs shown in Appendices 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 ISO 80416-2, IEC 80416-3, and ISO 80416-4.

4.2.1 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 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 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 document 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 80416-1 for guidelines on the proper sizing of symbols. Symbols shall be used in the orientations shown in this document unless otherwise noted for individual symbols.

4.6 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.

4.7 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 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 document 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 color code according to 5.1

b. Base symbol combined with failure symbol X.08

Optionally an appropriate color code in accordance with 5.1 may be added.

- 4.10 ISO/IEC registration numbers are shown for symbols in this document where applicable. Registration numbers below 5000 refer to ISO 7000. Registration numbers above 5000 refer to IEC 60417. Artwork in this document may 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.
- 4.11 The symbol numbers not represented are reserved for those symbols still under consideration at the time of publication of this edition of SAE J2402. It is envisaged that the status of these symbols and the numbers will be resolved by the next revision of this document.
- 4.12 Symbols in the appendices (except Appendix Z) of this document are presented 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 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. COLOR

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

- a. Red: danger to persons or very serious damage to equipment, immediate or imminent
- b. 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
- c. Green: safe, normal operating condition (where blue or yellow is not required)

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

5.2 Certain colors are used for specific tell-tales (refer to "symbol description/application" column in the appendices).

- a. Blue: e.g. high beam, main beam
- b. Green: e.g. turn signals
- c. Yellow or Amber: e.g. failure of anti-lock brake system
- d. Red: e.g. hazard warning

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

5.4 The color 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 colors 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 appendix.

TABLE 1 - SUMMARY OF ALL SYMBOLS

Symbol No.	Appendices ^a																		
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	W	X	Y	Z	
01								P									OFF		
02								R									AUTO		
03								N									ON		
04								D									START		
05																	STOP		
06																			
07																			
08																			
09																		AIRBAG	
10																			
11																			
12																			
13																			
14																			
15							A												
16							M												
17																			
18																			
19																			
20																			
21																			

TABLE 1 - SUMMARY OF ALL SYMBOLS (CONTINUED)

Symbol No.	Appendices ^a																	
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	W	X	Y	Z
22																		
23																		
24																		
25																		
26																		
27																		
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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 road vehicles
- N = Information and communication
- X = Miscellaneous
- Y = Special symbols
- W = Generic vehicle shapes
- Z = Special signs

7. NOTES

7.1 Marginal Indicia

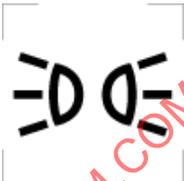
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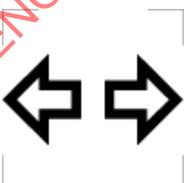
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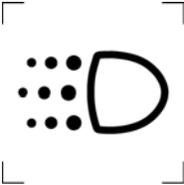
APPENDIX A - (NORMATIVE) LIGHTING AND SIGNALLING DEVICES

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
A.01		High beam, 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.	ISO 7000-0082
A.02		Low beam, 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.	ISO 7000-0083
A.03		Headlamp cleaner This symbol may also be used on the filler cap of the fluid container.	ISO 7000-0250
A.04		Headlamp levelling control	ISO 7000-0151
A.05		Front fog light If one symbol is used for both front and rear fog lights, this symbol shall be used.	ISO 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.	ISO 7000-0634
A.07		Long-range lamp	ISO 7000-0639
A.08		Parking lights	ISO 7000-0240
A.09		Position lights, side lights	ISO 7000-0456
A.10		Loading light	ISO 7000-2457
A.11		Elevated headlights Loading platform and rear axle may be omitted if not needed.	ISO 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.	ISO 7000-2459
A.13		Master lighting switch	Application of IEC 60417-5012
A.14		Exterior bulb failure Yellow tell-tale	ISO 7000-1555
A.15		Instrument panel illumination	Informative
A.16		Turn signals Flashing green light(s) Framed areas of this symbol may be solid. The left and right arrows may be separated.	ISO 7000-0084
A.17		Turn signal trailer, road vehicles Trailer shape may be omitted. If trailer shape is omitted, arrows may be separated. The box shape shall be included with each separate arrow.	Application of ISO 7000-2664

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
A.19		<p>Hazard warning</p> <p>Simultaneous operation of either green turn signal tell-tales, or separate red signal.</p> <p>This symbol applies only to the control and to the separate red tell-tale.</p> <p>Framed areas of this symbol may be solid.</p>	ISO 7000-0085
A.20		<p>Horn</p>	ISO 7000-0244
A.21		<p>Interior compartment illumination</p>	ISO 7000-1421
A.22		<p>Interior directed illumination (reading/map light)</p> <p>Symbol allows for mirror image.</p>	ISO 7000-2550
A.23		<p>Working light</p>	ISO 7000-1204
A.24		<p>Beacon</p>	ISO 7000-1141

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
A.25		Taxi sign light	ISO 7000-2551
A.26		Medical assistance sign light	ISO 7000-2552
A.27		Daytime running lights	Application of ISO 7000-2611
A.28		Night vision	Application of ISO 7000-2665
A.29		Footwell illumination	Application of ISO 7000-2666
A.30		Low-level interior illumination (Night driving)	Application of ISO 7000-2667

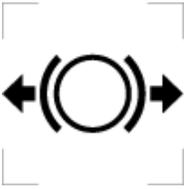
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
A.31		Sleeper compartment illumination	Application of ISO 7000-2668
A.32		Bend lighting	Application of ISO 7000-2669

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APPENDIX 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.	Application of ISO 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.	Application of ISO 7000-0238
B.03		Brake system first circuit	Application of ISO 7000-1405
B.04		Brake system second circuit	Application of ISO 7000-1406
B.05		Failure of anti-lock brake system Yellow tell-tale	Application of ISO 7000-1407

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
B.06		Anti-lock brake system (ABS), trailer If second trailer designation is required, a '2' may be added to the right side of the ABS brake graphic.	Application of ISO 7000-2670
B.08		ABS Anti-lock brake system (ABS) off or not available, trailer If second trailer designation is required, a '2' may be added to the right side of the ABS brake graphic.	Application of ISO 7000-2671
B.10		Worn brake linings	Application of ISO 7000-1408
B.11		Brake temperature	Application of ISO 7000-1403
B.12		Brake system pressure	Application of ISO 7000-1402
B.13		Brake fluid level This symbol may also be used on the filler cap of the fluid container.	Application of ISO 7000-1401

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
B.14		Retarder	Application of ISO 7000-2574
B.15		Spring brake release	ISO 7000-2448
B.16		Exhaust gas brake	Application of ISO 7000-2593
B.17		Retarder failure	Application of ISO 7000-2622
B.18		Anti-lock brake system (ABS) off or not available Alternatively "off" or "not available" may be indicated by the use of base symbol B.05 as an amber or yellow tell-tale.	Application of ISO 7000-2623
B.19		Trailer brake If second trailer designation is required, a '2' may be added to the right side brake graphic.	Application of ISO 7000-2672

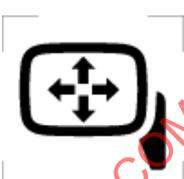
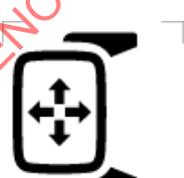
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
B.20		Hill holding	Application of ISO 7000-2624

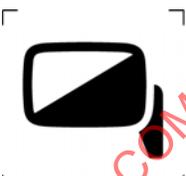
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APPENDIX C - (NORMATIVE) VISIBILITY

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

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
C.06		Windscreen demisting and defrosting	ISO 7000-0635
C.07		Windscreen, electrically heated	ISO 7000-2575
C.08		Rear window wiper	ISO 7000-0097
C.09		Rear window wiper, intermittent	ISO 7000-1424
C.10		Rear window washer	ISO 7000-0099
C.11		Rear window washer and wiper	ISO 7000-0098

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
C.12		Rear window washer fluid This symbol may also be used on the filler cap of the fluid container.	ISO 7000-1423
C.13		Rear window demisting and defrosting	ISO 7000-0636
C.14		Side window demisting and defrosting	ISO 7000-1425
C.15		Exterior rear view mirror adjustment, horizontal type Arrows may be omitted, if that function does not exist. Symbol allows for mirror image.	ISO 7000-1427
C.16		Exterior rear view mirror adjustment, vertical type Arrows may be omitted, if that function does not exist. Symbol allows for mirror image.	ISO 7000-2469
C.17		Exterior rear view mirror heating, horizontal type Symbol allows for mirror image.	ISO 7000-1426

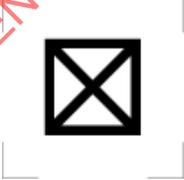
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
C.18		Exterior rear view mirror heating, vertical type Symbol allows for mirror image.	ISO 7000-2470
C.19		Power folding exterior mirror, horizontal type Symbol allows for mirror image.	ISO 7000-2553
C.20		Power folding exterior mirror, vertical type Symbol allows for mirror image.	ISO 7000-2584
C.21		Glare prevention, exterior mirror, horizontal Symbol is shown for left-hand mirror. Symbol may be used as mirror image for right-hand mirror.	Application of ISO 7000-2674
C.22		Glare prevention, exterior mirror, vertical Symbol is shown for left-hand mirror. Symbol may be used as mirror image for right-hand mirror.	Application of ISO 7000-2673
C.23		Front wiper de-ice electric heating system	Application of ISO 7000-2841

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
C.24		Windscreen washer fluid heating	Application of ISO 7000-2839

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APPENDIX D - (NORMATIVE) CAB ENVIRONMENT AND COMFORT

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
D.01		Air-conditioning system	Application of ISO 7000-0027
D.02		Ventilating fan	Application of ISO 7000-0089
D.03		Interior heating	ISO 7000-0637
D.04		Upper air outlet Arrow may be colored blue to denote cool air or red to denote heated air.	ISO 7000-1865
D.05		Lower air outlet Arrow may be colored blue to denote cool air or red to denote heated air.	ISO 7000-1866

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
D.06		Upper air outlet and lower air outlet Arrows may be colored blue to denote cool air or red to denote heated air. Use the symbol as applicable; other combinations of the arrows may be used as needed.	ISO 7000-1867
D.07		Defrost and lower air outlet Arrow may be colored blue to denote cool air or red to denote heated air.	ISO 7000-1860
D.08		Road vehicle passenger compartment air filter	ISO 7000-2576
D.09		Ventilation open	ISO 7000-2594
D.10		Ventilation closed	ISO 7000-2577
D.11		Fresh air	ISO 7000-2485

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
D.12		Recirculated air	ISO 7000-2486
D.13		Fresh air, truck Loading platform and rear axle may be omitted if not needed.	ISO 7000-2487
D.14		Recirculated air, truck Loading platform and rear axle may be omitted if not needed.	ISO 7000-2488
D.15		Roof ventilation, truck Loading platform and rear axle may be omitted if not needed.	ISO 7000-2466
D.16		Sunshade Symbol may be rotated 180°.	ISO 7000-2554
D.17		Roof ventilation, passenger car	Application of ISO 7000-2612

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
D.18		Rear window lift, power operated	ISO 7000-2555
D.19		Window lift, power operated	ISO 7000-0648
D.20		Seat adjustment, longitudinal	ISO 7000-1428
D.21		Seat adjustment, seat back recline	ISO 7000-1429
D.22		Seat height adjustment	Application of ISO 7000-1430
D.23		Seat height adjustment, cushion front	ISO 7000-1431

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
D.24		Seat height adjustment, cushion rear	Application of ISO 7000-1432
D.25		Seat height adjustment, headrest	Application of ISO 7000-1433
D.26		Seat lumbar adjustment	Informative
D.27		Heated seat	ISO 7000-0649
D.28		Lighter	Application of ISO 7000-0620
D.29		Cup holder	ISO 7000-2583

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
D.30		Ventilated seat	ISO 7000-2556
D.31		Secondary interior heating	ISO 7000-2578
D.32		Convertible top Symbol of vehicle shall be in outline; it shall not be solid.	ISO 7000-2557
D.33		Pedal adjustment Direction of adjustment should be indicated by using arrow(s) in conjunction with the symbol.	Application of ISO 7000-2625
D.34		Air-conditioning system, off or not available	Application of ISO 7000-2626
D.35		Wind draught deflector Symbol shall be in outline; it shall not be solid.	Application of ISO 7000-2644

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
D.36		Active seat	Application of ISO 7000-2627
D.37		Sleeper compartment air circulation	Application of ISO 7000-2675
D.38		Refrigerator	Application of ISO 7000-2676
D.39		Body/cargo heater	Application of ISO 7000-2677
D.40		Head restraint fold down	Application of ISO 7000-2842
D.41		Heated steering wheel Number and orientation of spokes may match the specific steering wheel design in the vehicle.	Application of ISO 7000-2843

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
D.42		Roof transparency	ISO 7000-2965

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APPENDIX E - (NORMATIVE) MAINTENANCE AND LOAD FUNCTIONS

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
E.01		Load tipping Red tell-tale indicates a hazard warning.	Application of ISO 7000-1557
E.02		Load tipping trailer Red tell-tale indicates a hazard warning. Front axle may be omitted in case of semi-trailer.	ISO 7000-2467
E.03		Diverging flap release	ISO 7000-2464
E.04		Diverging flap release, trailer Front axle may be omitted in case of semi-trailer.	ISO 7000-2468
E.05		Height control, truck	ISO 7000-2461

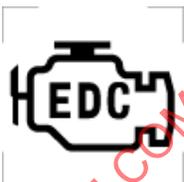
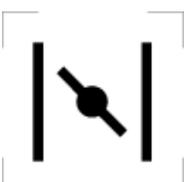
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
E.06		Front height control, truck	ISO 7000-2462
E.07		Rear height control, truck	ISO 7000-2463
E.08		Fifth wheel longitudinal adjustment Red tell-tale indicates fifth-wheel slide unlocked.	Application of ISO 7000-1558
E.09		Fifth wheel height adjustment	ISO 7000-2465
E.10		Snowplow Loading platform and rear axle may be omitted if not needed.	ISO 7000-2460
E.11		Central lubrication	ISO 7000-1317

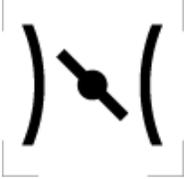
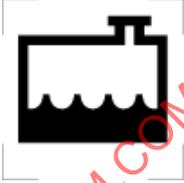
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
E.12		Trailer towing mode Symbol applies to passenger cars and light commercial vehicles only.	ISO 7000-2595
E.13		Height control Arrows may be relocated as needed to show front or rear control.	Application of ISO 7000-2645

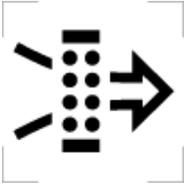
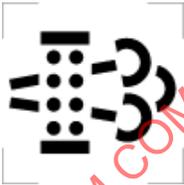
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APPENDIX F - (NORMATIVE) ENGINE

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
F.01		Engine	Application of ISO 7000-0640
F.02		Engine failure	ISO 7000-2423
F.03		Engine coolant temperature	ISO 7000-0246
F.04		Engine oil	ISO 7000-0248
F.05		Engine oil temperature	ISO 7000-2426

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
F.06		Engine oil level This symbol may also be used on the filler cap of the engine oil.	ISO 7000-2427
F.07		Engine oil filter	ISO 7000-2428
F.08		Engine heating	ISO 7000-2422
F.09		Electronic diesel control	ISO 7000-2424
F.10		Diesel pre-heat	ISO 7000-0457
F.11		Choke	ISO 7000-0243

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
F.12		Hand throttle	ISO 7000-1367
F.13		Engine start	ISO 7000-2425
F.14		Engine shut-off	ISO 7000-1180
F.15		Engine coolant level This symbol may also be used on the filler cap of the engine coolant.	ISO 7000-2429
F.16		Engine coolant heating	ISO 7000-2430
F.17		Engine coolant fan Symbol D.02 may replace the fan symbol element.	ISO 7000-2431

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
F.18		Engine inlet air filter	ISO 7000-2432
F.19		Engine inlet air pre-heat	ISO 7000-2434
F.20		Turbo	Application of ISO 7000-2107
F.21		Engine emission filter	ISO 7000-2433
F.22		Engine emission system failure Alternatively "failure" or "malfunction" may be indicated by the use of the base symbol with an appropriate color code, i.e. red or amber/yellow.	ISO 7000-2596
F.23		Turbocharger temperature	Application of ISO 7000-2646

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
F.24		<p>NOx reduction agent</p> <p>For vehicles recommending refilling of the reduction agent independently from maintenance intervals, typically together with the refueling of the vehicle at the petrol station.</p> <p>NOx may be replaced by adding AUS32 or typical name of reduction agent (e.g. trade name).</p> <p>Text may be incorporated into the graphic.</p> <p>This symbol may also be used on the filler cap of the reduction agent container.</p>	Application of ISO 7000-2678
F.25		<p>Engine status information</p> <p>Only to be used on controls</p>	Application of ISO 7000-2679
F.26		<p>Engine emission system temperature</p>	Application of ISO 7000-2844
F.27		<p>Diesel exhaust fluid (DEF)</p> <p>Descriptive text such as DEF or UREA may be added below the waves.</p>	ISO 7000-2946

APPENDIX G - (NORMATIVE) FUEL SYSTEM

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
G.01		Fuel This symbol may also be used on the filler cap of the fuel tank.	Application of ISO 7000-0245
G.02		Unleaded fuel	Application of ISO 7000-0237
G.03		Fuel economy	Application of ISO 7000-0641
G.04		Fuel temperature	Application of ISO 7000-2451
G.05		Fuel filter	Application of ISO 7000-2452

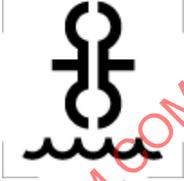
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
G.06		Fuel heating	Application of ISO 7000-2453
G.07		Fuel system failure	Application of ISO 7000-2454
G.08		Fuel shut-off	ISO 7000-1395
G.09		Fuel type "X X X" shall be replaced by actual fuel type, e.g. LPG, CNG, DIESEL, HYDROGEN, etc.	Application of ISO 7000-2641
G.10		Moisture in fuel system	ISO 7000-2597
G.11		Secondary interior heating fuel level See also D.31.	ISO 7000-2598

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
G.12		Fuel cap unfastened	ISO 7000-2628
G.13		Fuel pressure	Application of ISO 7000-1392

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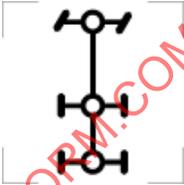
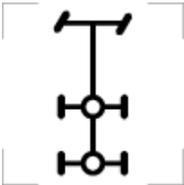
APPENDIX H - (NORMATIVE) TRANSMISSION

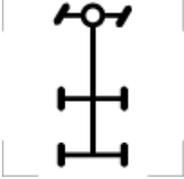
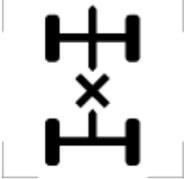
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
H.01		Park (automatic transmission)	See 4.8
H.02		Reverse (automatic transmission)	See 4.8
H.03		Neutral (automatic transmission)	See 4.8
H.04		Drive (automatic transmission)	See 4.8
H.05		Transmission failure	ISO 7000-1396

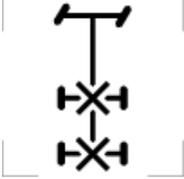
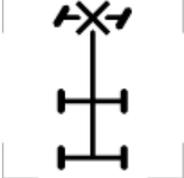
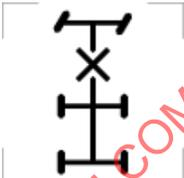
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
H.06		Transmission fluid level This symbol may also be used on the filler cap.	ISO 7000-1398
H.07		Transmission temperature	ISO 7000-1168
H.08		Transmission converter temperature	ISO 7000-2435
H.09		Transmission converter fluid level This symbol may also be used on the filler cap.	ISO 7000-2436
H.10		Transmission converter failure	ISO 7000-2437
H.11		Transmission “+” may be added to indicate upshift. “-” may be added to indicate downshift.	ISO 7000-1166

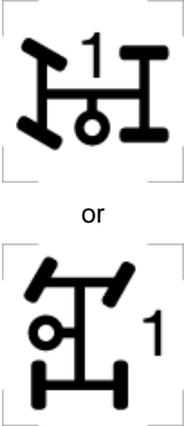
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
H.12		Transmission fluid filter	Application of ISO 7000-2615
H.13		Clutch	ISO 7000-1308
H.14		Transmission system pressure, road vehicles	Application of ISO 7000-2647
H.15		Automatic mode Can be used for manual or automatic transmissions per clause 4.8. Can be used to denote Automatic function in combination with other functions or symbols. See also Y.02.	See 4.8
H.16		Manual mode For manual or automatic transmissions	See 4.8

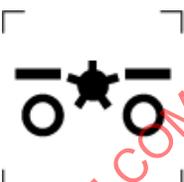
APPENDIX I - (NORMATIVE) POWER DRIVE

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
I.01		All wheel drive 4x4 90° anticlockwise rotation of the symbol is acceptable.	Application of ISO 7000-1203
I.02		Rear axle drive 4x4 90° anticlockwise rotation of the symbol is acceptable.	ISO 7000-1417
I.03		Front axle drive 4x4 90° anticlockwise rotation of the symbol is acceptable.	ISO 7000-1416
I.04		All wheel drive 6x6 90° anticlockwise rotation of the symbol is acceptable.	ISO 7000-2471
I.05		Rear axle drive 6x6 90° anticlockwise rotation of the symbol is acceptable.	ISO 7000-2472

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
I.06		Front axle drive 6x6 90° anticlockwise rotation of the symbol is acceptable.	ISO 7000-2473
I.07		Differential lock, one drive axle	ISO 7000-2599
I.08		Differential lock, rear axle 4x4 90° anticlockwise rotation of the symbol is acceptable.	ISO 7000-2474
I.09		Differential lock, transfer case 4x4 90° anticlockwise rotation of the symbol is acceptable.	ISO 7000-2475
I.10		Differential lock, front axle 4x4 90° anticlockwise rotation of the symbol is acceptable.	ISO 7000-2476
I.11		Differential lock, bogie	ISO 7000-2600

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
I.12		Differential lock, rear axles 6x6 90° anticlockwise rotation of the symbol is acceptable.	ISO 7000-2477
I.13		Differential lock, front axle 6x6 90° anticlockwise rotation of the symbol is acceptable.	ISO 7000-2478
I.14		Differential lock bogie 6x6 90° anticlockwise rotation of the symbol is acceptable.	ISO 7000-2479
I.15		Differential lock, transfer case 6x6 90° anticlockwise rotation of the symbol is acceptable.	ISO 7000-2480
I.16		Differential lock, transfer case and bogie 6x6 90° anticlockwise rotation of the symbol is acceptable.	ISO 7000-2481

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
I.17	 <p>or</p>	<p>Power take off, number 1</p> <p>The number "1" should be omitted if only one power take-off is available on a vehicle.</p>	ISO 7000-1201
I.18		<p>Power take off, number 2</p> <p>90° clockwise rotation of the symbol, as in I.17 is acceptable.</p>	ISO 7000-1202
I.19		<p>Axle fluid level</p> <p>This symbol may also be used on the filler cap.</p>	ISO 7000-2438
I.20		<p>Axle failure</p>	ISO 7000-2439
I.21		<p>Axle lifting</p>	ISO 7000-1559

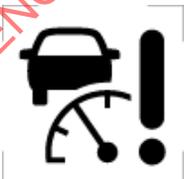
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
I.22		Winch	ISO 7000-1561
I.23		Fifth wheel coupling locked / secure The keyhole may be omitted.	Application of ISO 7000-2613
I.24		Fifth wheel coupling unlocked / unsecure The keyhole may be omitted.	Application of ISO 7000-2629
I.25		Robson drive	Application of ISO 7000-2634
I.26		Axle fluid temperature	Application of ISO 7000-2845
I.27		Drawbar coupling locked / secure The keyhole may be omitted. The drawbar coupling may be changed to better represent the true shape of the coupling device.	Application of ISO 7000-2846

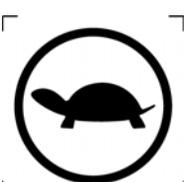
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
I.28		Drawbar coupling open / unsecure The keyhole may be omitted. The drawbar coupling may be changed to better represent the true shape of the coupling device.	Application of ISO 7000-2847
I.29		Drawbar angle warning Symbol elements shall be in yellow, as specified in ISO 3864-4.	Application of ISO 7000-2850

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APPENDIX J - (NORMATIVE) VEHICLE HANDLING AND CRUISE CONTROL

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
J.01		Steering circuit number 1 Number and orientation of spokes may match the specific steering wheel design in the vehicle	ISO 7000-2442
J.02		Steering circuit number 2 Number and orientation of spokes may match the specific steering wheel design in the vehicle	ISO 7000-2443
J.03		Steering fluid level This symbol may also be used on the filler cap. Number and orientation of spokes may match the specific steering wheel design in the vehicle	ISO 7000-2440
J.04		Steering failure Number and orientation of spokes may match the specific steering wheel design in the vehicle	ISO 7000-2441
J.05		4 - wheel steer Use this symbol as applicable. Other orientations of the wheels and/or additional axles may be used as needed.	ISO 7000-2238

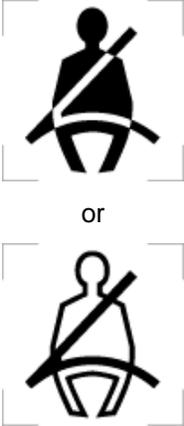
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
J.06		Traction control	ISO 7000-2048
J.07		Traction control off or not available	ISO 7000-2579
J.08		Cruise control	ISO 7000-2047
J.09		Adaptive cruise control	ISO 7000-2580
J.10		Adaptive cruise control failure	ISO 7000-2581
J.11		Parking aid	ISO 7000-2582

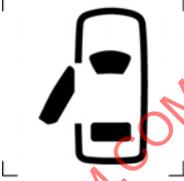
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
J.12		Traction control failure	Application of ISO 7000-2631
J.13		Hill descent control	Application of ISO 7000-2648
J.14		Stability control system	Application of ISO 7000-2630
J.15		Stability control off or not available Alternatively "off" or "not available" may be indicated by the use of base symbol J.14 as an amber or yellow tell-tale.	Application of ISO 7000-2649
J.16		Icy road condition	Application of ISO 7000-2614
J.17		Limited performance mode Circle may be omitted	Application of ISO 7000-2639

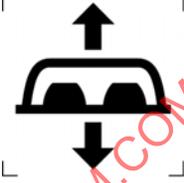
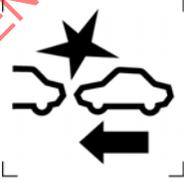
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
J.18		Steering wheel lock Number and orientation of spokes may match the specific steering wheel design in the vehicle	Application of ISO 7000-2680

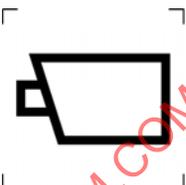
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APPENDIX K - (NORMATIVE) ACTIVE AND PASSIVE SAFETY SYSTEMS

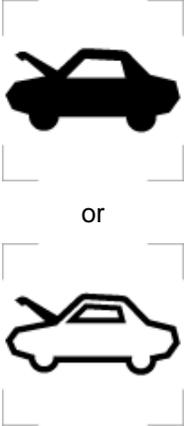
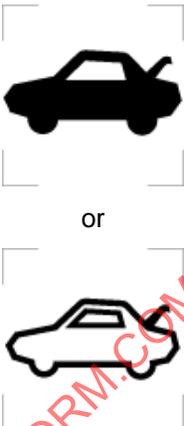
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
K.01		Seat belt	ISO 7000-0249
K.02		Airbag	ISO 7000-2108
K.03		Driver airbag off or not available	ISO 7000-2558
K.04		Passenger airbag	ISO 7000-2559

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
K.05		Passenger airbag off or not available	ISO 7000-2560
K.06		Side impact airbag Symbol allows for mirror image.	ISO 7000-2561
K.07A		Child seat Symbol allows for mirror image.	ISO 7000-2562A
K.08		Door(s) ajar This symbol may be used to indicate one or more doors ajar. Alternatively, other doors may be shown as needed.	Application of ISO 7000-2239
K.09		Cab lock Red tell-tale indicates unlocked position. Loading platform and rear axle may be omitted if not needed.	ISO 7000-1560
K.10		Low tire pressure	ISO 7000-1434

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
K.11		Tire pressure	Application of ISO 7000-1435
K.12		Tire temperature	ISO 7000-2450
K.13		Fire extinguisher	Informative
K.14		Protective roll bar	Application of ISO 7000-2636
K.15		Forward collision warning system (FCWS)	Application of ISO 7000-2681
K.16		Lane departure warning system (LDWS)	Application of ISO 7000-2682

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
K.17		Obstacle warning system, side rear Symbol allows for mirror image to indicate left side warning.	Application of ISO 7000-2796
K.18		Side impact airbag off Symbol allows for mirror image.	Application of ISO 7000-2840
K.19		Passenger side impact airbag off Symbol allows for mirror image.	Application of ISO 7000-2848
K.20		Camera	Application of IEC 60417-5116
K.21		Drowsiness	ISO 7000-2966

APPENDIX L - (NORMATIVE) SECURITY

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
L.01		Bonnet (front hood)	ISO 7000-0241 or its application
L.02		Boot (rear trunk)	ISO 7000-0242 or its application
L.03		Door lock control Symbol allows for mirror image.	ISO 7000-0638