



Indian Standard

SYMBOLS FOR CONTROLS, INDICATORS AND TELL-TALES FOR ROAD VEHICLES

1. Scope — Specifies the symbols, that is, conventional signs, with which certain controls, indicators and tell-tales of a road vehicle are to be provided in order to ensure their identification and facilitate their utilization.

1.1 It also indicates the colours of possible optical tell-tales which warn the driver of the operation or malfunctioning of the devices and equipment connected to the corresponding controls.

1.2 This standard is applicable to those controls which are fitted on the instrument panel, or in the immediate vicinity of the driver.

1.3 This standard is not applicable to two-wheelers and three-wheelers.

2. General

2.1 The symbols shall be as given in 3, except for deviations necessary to reproduce an accurate representation to the driver's line of sight.

2.2 If, in a symbol, a vehicle or parts of a vehicle are shown in a side view, a vehicle driving from left to right shall be assumed.

2.3 Symbols on controls and tell-tales shall be of a good contrast to their background (preferably light symbol on dark background).

2.4 The symbols and tell-tales shall be recognizable by the driver from his seated position.

2.5 Focused light shall be represented by parallel rays and diffused light by divergent rays.








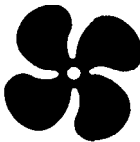

2.6 If colour is used on heating and cooling systems, the colour red shall be used to indicate hot and the colour blue to indicate cold.

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3. Designation and Illustration of Symbols











No.	Control Indicator or Tell-Tale Designation	Symbol	Additional Specifications
3.1	Upper beam*	 (See Note 1)	Steady blue tell-tale
3.2	Lower beam*	 (See Note 1)	
3.3	Turn signals	 (See Notes 1 and 2)	Flashing green light(s)
3.4	Hazard warning†	 (See Note 1)	Simultaneous operation of both green turn signal, tell-tales or separate red signal
3.5	Windshield wiper		
3.6	Windshield washer		
3.7	Windshield wiper and washer		
3.8	Ventilating fan		
3.9	Parking lights		

Note 1 — Framed areas of this symbol may be solid.




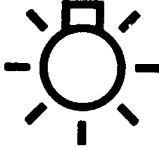

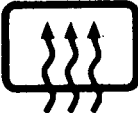
Note 2 — It is permissible to separate the left and right arrows.

*The control operating the upper beam and the lower beam alternately may include two symbols, one for each of the positions, upper beam, lower beam.

†This symbol applies only to the control and to the separate red tell-tale.

No.	Control, Indicator or Tell-Tale Designation	Symbol	Additional Specifications
3.10	Front hood (bonnet)*		
3.11	Rear hood (boot)*		
3.12	Choke (cold starting aid)		
3.13	Horn		
3.14	Fuel		
3.15	Engine coolant temperature		
3.16	Battery charging condition		
3.17	Engine oil		
3.18	Seat belt		
3.19	Headlamp cleaner		

*The dark part of the symbol may be replaced by its outline, in which case the portion shown here as white will be entirely in a dark colour.

No.	Control, Indicator or Tell-Tale Designation	Symbol	Additional Specifications
3.20	Lighter		
3.21	Front fog light*		
3.22	Rear fog light*		
3.23	Master lighting switch		
3.24	Windscreen demisting and defrosting		
3.25	Rear window demisting and defrosting		

*If one control is used for both front and rear fog lights, the symbol used shall be the one designated 'front fog light'.

EXPLANATORY NOTE

This standard is in entire agreement with ISO 2575-1976 'Road vehicles—symbols for controls, indicators and tell-tales'. This standard aims at laying unified practices for symbols for various controls, indicators and tell-tales for the user of the road vehicles. With the publication and implementation of this standard, it is expected to eliminate confusion for the driver when he happens to be driving a vehicle other than his own thus avoiding accidents, introducing safety for vehicle user as well as road user.

TO

IS 9237 : 1979 SYMBOLS FOR CONTROLS, INDICATORS AND
TELLTALES FOR ROAD VEHICLES

(Page 1, clause 1) — Add the following sentence after the existing:

'It also specifies the requirements for the location, identification and illumination of controls, indicators and telltales.'

(Page 1, clause 1.3) — Substitute the following for the existing:

'This standard is applicable for vehicles with steering wheel but excluding three wheeler with steering wheel and all other vehicles with handlebar.'

(Page 1, clause 2.6) — Add the following new clauses after the existing clause 2.6:

2.7 Location

With seat adjusted to the convenience of the driver where each of the controls incorporated in the vehicle, it shall be easily operable by the driver in the normal driving position. Controls for which no symbol is provided in 3 shall be defined by words or abbreviation specified in column 2 of Table 1. All telltales and readout displays shall be visible when activated.

2.7.1 Hand operated controls

2.7.1.1 The following controls shall be obligatory:

- a) Steering wheel
 - b) Ignition
 - c) Horn
 - d) Head lamp
 - e) Tail lamp
 - f) Parking lamp
 - g) Number plate lamp
 - h) Stop lamp
 - j) Turn signal
 - k) Manual transmission shift lever
 - m) Windshield wiper
 - n) High beam/Low beam (not obligatory, if provided as foot operated control)
 - p) Parking brake
 - q) Electrical master switch (mandatory only for passenger buses, school buses, tankers and vehicles carrying explosives)
 - r) Hazard warning signal.
- } Shall be combined as a single unit
for control purposes. The combination
for other controls is optional

2.7.1.2 The following controls shall be optional:

- a) Windshield washer
- b) Windshield defrosting and defogging system
- c) Rear window defrosting and defogging system
- d) Manual choke
- e) Automatic transmission control
- f) Clearance lamps
- g) Hand throttle
- h) Exhaust brake control
- j) Master switch electrical (for cars)

2.7.2 Foot operated controls

2.7.2.1 The obligatory controls shall be as under:

- a) Service brake
- b) Accelerator
- c) Clutch (unless fitted with automatic transmission)
- d) High beam/Low beam (not obligatory if already provided as hand operated controls)
- e) Windshield wiper (not obligatory, if provided as hand operated control)
- f) Brake light (stop lamp)

2.7.2.2 The following controls shall be optional:

- a) Windshield washer
- b) Exhaust brake control.

2.7.3 Displays

2.7.3.1 The following shall be the obligatory requirements:

- a) Speedometer
- b) Odometer
- c) Turn signal
- d) Fuel level
- e) Engine coolant temperature
- f) Oil pressure
- g) Highbeam indicator
- h) Electrical charging indicator
- j) Brake failure warning.

2.7.3.2 The following shall be optional requirements:

- a) Gear position.

2.8 Identification

2.8.1 Vehicle controls shall be identified as follows:

- a) Any hand operated control specified in 3 or column 1 of Table 1 that has a symbol shall be identified by that symbol. Such a control may, in addition, be identified by the word or abbreviation shown in column 2 of Table 1. Any such control for which no symbol is shown shall be identified by the word or abbreviation shown in column 2 of Table 1. Additional words or symbols may be used at the discretion of the manufacturer.
- b) The identification shall be placed on or adjacent to the control and be visible to the driver seated in his normal driving position and shall appear to the driver perceptually upright (except in turn signal control which is operated in a place parallel to the steering wheel).

2.8.1.1 Identification of a head lamp and tail lamp control that adjusts control and display illumination by means of rotation, or of any other rotating control that does not have an off position, need not appear to the driver perceptually upright.

2.8.2 Identification shall be provided for each function of any automatic vehicle speed system control, any heating and air-conditioning system control, and for the extreme position of any such control that regulates a function over a quantitative range. If this identification is not specified in Tables 1 or 2, it shall be in word form unless colour coding is used.

2.8.3 Except for information readout displays and displays located within the passenger compartment and listed in column 1 of Table 2 that has a symbol designated in 3, shall be identified by that symbol. Such display may, in addition be identified by the word or abbreviation shown in column 3. Any such display for which no symbol is specified shall be identified by the word or abbreviation shown in column 3. Informational readout displays may be identified by the symbol designated in column 4 of Table 2 or by the word or abbreviation shown in 3. Additional words or symbols may be used at the manufacturer's discretion for the purpose of clarity. The identification required or permitted shall be placed on or adjacent to the display that it identifies.

2.9 Illumination

2.9.1 Except for foot operated controls or hand operated controls mounted upon the floor, floor console or steering column, or in the windshield header area, as per the identification required by 2.8.1 or 2.8.2 of any control listed in column 1 of Table 1 shall be capable of being illuminated whenever the headlights are activated. However, control identification for a heating and airconditioning system need not be illuminated if the system does not direct air directly upon windshield. If a gauge is listed in column 1 of Table 2 and accompanied by the word 'yes' in column 4, then the gauge and its identification required by 2.8.3 shall be illuminated whenever the ignition switch and/or the head lamps are activated. Controls, gauges and their identifications need not be illuminated when the head lamps are being flashed. A telltale shall not emit light except when identifying.








2.9.2 Except for information readout displays, each discrete and distinct telltale shall be of the colour shown in column 2 of Table 2. The identification of each telltale shall be in a colour that contrasts with the lens, if a telltale with a lens is used. Any telltale used in conjunction with a gauge need not be identified. The colour of informational readout displays shall be at the option of the manufacturer.

2.9.3 A left hand drive vehicle shall have the information suitably written/displayed at the rear with provision for lighting for night visibility from a distance of twenty metres or less.

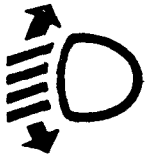







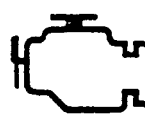

2.10 When the following colours are used on optical telltales, they shall have the following meaning:

- Red — Danger
- Yellow — Caution
- Green — Safe
- Blue — For upper beam telltale."


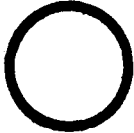




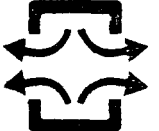



(Page 4, clause 3.25, col 1, 2 and 3)—Add the following after 3.25:

No.	Control, Indicator or Telltale Designation	Symbol
3.26	Ventilator	
3.27	Fresh air	
3.28	Recirculating air	
3.29	Seat adjustment	
3.30	Brake failure*	
.31	Brake fluid level	
3.32	Unleaded fuel	

*In the case where a single telltale indicates more than one brake system condition, the symbol for brake failure 3.30 shall be used.

No.	Control, Indicator or Telltale Designation	Symbol
3.33	Headlight levelling manual control	
3.34	Rear window wiper	
3.35	Rear window washer	
3.36	Rear window wiper and washer	
3.37	Parking brake*	
3.38	Position lamp/Clearance lamp system	
3.39	Diesel pre-heat	
3.40	Long range lamp	
3.41	Engine	
3.42	Interior heating	

*In the case where a single telltale indicates more than one brake system condition, the symbol for brake failure 3.30 shall be used.

No.	Control, Indicator or Telltale Designation	Symbol
3.43	Air-condition system	
3.44	Off	
3.45	Air vent—All outlets	
3.46	Air vent—Right outlets	
3.47	Air vent—Left outlets	
3.48	Air ventilation — Leg room	
3.49	Air vent — Right and Left outlets	
3.50	Windshield wiper intermittent	
3.51	Heated seat	
3.52	Engine ignition cut off	


No.	Control, Indicator or Telltale Designation	Symbol
3.53	Engine Ignition Run	
3.54	Speedometer	—
3.55	Odometer	—

Table 1 Identification of Controls
(Clauses 2.8.1, 2.8.2 and 2.9.1)

Hand Operated Controls (1)	Identifying Words or Abbreviation (2)
Headlamps and Tail Lamp	Lights
Turn Signal	Turn
Hazard Warning Signal	Hazard
Clearance Lamps System	Clearance Lamps or Cl Lps
Windshield Wiping System	Wiper or Wipe
Windshield Washing System	Washer or Wash
Windshield Washing and Wiping Combined	Wash Wipe
Heating and/or Air-conditioning Fan	Fan
Windshield Defrosting and Defogging System	Defrost, Defog or Def.
Rear Window Defrosting and Defogging System	Rear Defrost, Rear Defog or Rear Def.
Engine Start	Start*
Engine Stop	Stop*
Manual Choke	Choke
Hand Throttle	Throttle
Automatic Transmission	(Optional)
Heating and Air-conditioning System	(Optional)

*Use when engine control is separate from the key locking system.

Table 2 Identification and Visibility of Internal Displays
(Clauses 2.8.3, 2.9.1 and 2.9.2)

Display (1)	Telltale Colour (2)	Identifying Words or Abbreviation (3)	Illumination (4)
Turn Signal Telltale	Green		
Hazard Warning Telltale ¹⁾	Red ²⁾ or Green		
Fuel level Telltale	Yellow	Fuel	
Gauge	Yellow	Fuel	Yes
Oil Pressure Telltale	Red ²⁾	Oil	Yes
Gauge		Oil	Yes
Coolant Temperature Telltale	Red ²⁾	Temp	
Gauge		Temp	Yes
Electrical Charge Telltale	Red ²⁾	Volts, Charge or Amp.	
Gauge		Volts, Charge or Amp.	Yes
Speedometer ³⁾	Red ²⁾ or Yellow	km/h	Yes
Odometer ³⁾	Red ²⁾ or Yellow	km	
Automatic Gear Position			Yes
High Beam Telltale	Blue ²⁾ or Green		
Brake Air Pressure Position Telltale	Red ²⁾		
Malfunction in Antilock	Yellow		
Malfunction in Brake System	Red ²⁾		Yes

¹⁾ Symbol for hazard warning not required when arrows of turn signal telltales that otherwise operate independently. Flash simultaneously as hazard warning telltale.

²⁾ Red may be red-orange. Blue may be blue-green.

³⁾ The Speedometer and Odometer indicate kilometres per hour and kilometres respectively.