

Draft revision

AUTOMOTIVE INDUSTRY STANDARD

**Two Wheeled Motor Vehicles -
Location, Identification and Operation of
Controls, Tell-tales and Indicators**

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INTRODUCTION

- 0.1 The Government of India felt the need for a permanent agency to expedite the publication of standards and development of test facilities in parallel when the work on the preparation of the standards is going on, as the development of critical parts for improved safety can be undertaken only after the publication of the standard and commissioning of test facilities. To this end, the erstwhile Ministry of Surface Transport (MOST) has constituted a permanent Automotive Industry Standard Committee (AISC) vide order No. RT-11028/11/97-MVL dated September 15, 1997. The standards prepared by AISC will be approved by the permanent CMVR Technical Standing Committee (CTSC). After approval, the Automotive Research Association of India, (ARAI), Pune, being the secretariat of the AIS Committee, has published this standard. For better dissemination of this information ARAI will publish this document on their Web site.
- AIS-071 (Part 1 and 2) revising the requirements regarding location, identification and operation of motorcycle controls, tell-tales and indicators, (upgrading the then notified IS 14413-1996) was published in 2009 and is notified for implementation. **(To be elaborated).**
- 0.2 In the meanwhile, a Global Technical Regulation (GTR) No 12 concerning the Location, Identification and Operation of Motorcycle Controls, Tell-tales and Indicators was established in WP-29 committee of UNECE under 1998 agreement for harmonization of vehicle regulations. India being signatory to this agreement has voted for this GTR and has obligation to adopt this in its regulatory framework.
- This GTR specifies requirements for the location, identification, illumination and operation of motorcycle controls, tell-tales and indicators, if fitted. This global technical regulation also harmonizes a set of symbols for controls, tell-tales and indicators.
- The purpose of this GTR is to ensure the accessibility, visibility, and recognition of motorcycle controls, tell-tales, and indicators and to facilitate the proper selection of controls under daylight and night-time conditions. The intention of the GTR is also to reduce the safety hazards caused by the diversion of the rider's attention from the driving task by mistakes in selecting controls **(To be elaborated).**
- 0.3 This Automotive Industry Standard is technically equivalent to GTR12 ECE/trans/180 add.12 established in UN Global registry on 30 April 2012 as amended till informal document no ECE/TRANS/WP.29/GRSG/2012/21.
- 0.4 The AISC panel and the Automotive Industry Standard Committee (AISC) responsible for preparation of this standard is given in Annex B and C respectively **(To be inserted).**
- 0.5 This standard is adopted by CMVR-TSC in its 41st meeting held on 3rd April 2014.

**Two Wheeled Motor Vehicles - Location, Identification and
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Two Wheeled Motor Vehicles - Location, Identification and Operation of Controls Tell-tales and Indicators

1 SCOPE

This standard applies to power-driven vehicles of category L1 and L2 as defined in AIS-053.

2 REFERENCES

- 2.1 AIS-053/ *IS 14272* - Automotive Vehicles -Types - Terminology.
- 2.2 AIS-009 (Rev 1):2011-Installation requirements of lighting and light signalling devices for L category vehicles.
- 2.3 AIS-071 (Part 1) automotive vehicles -Identification of controls Tell-tales and indicators
- 2.4 ISO 2575 Road Vehicles - Symbols for Controls, Tell-tales and Indicators
- 2.5 ISO 6727 Road Vehicles-Motorcycles & Mopeds - Symbols for Controls, Tell-tales and Indicators

3 DEFINITIONS: For the purposes of this standard, the following definitions apply.

- 3.1 "**Adjacent**", with respect to a symbol identifying a control, tell-tale or indicator, means that the symbol is in close proximity to the control, tell-tale or indicator and no other control, tell-tale, indicator, identification symbol or source of illumination appears between an identification symbol and the control, tell-tale, or indicator which that symbol identifies.
- 3.2 "**Common space**" means an area on which more than one tell-tale, indicator, identification symbol, or other message may be displayed but not simultaneously.
- 3.3 "**Control**" means any part of the vehicle or a device directly actuated by the driver which changes the state or functioning of the vehicle or any part thereof.
- 3.4 "**Device**" means an element or an assembly of elements used to perform one or more functions.
- 3.5 "**Handlebars**" means any part of the bar or bars connected to the head of the forks (steering head) by means of which the vehicle is steered.
- 3.6 "**Handlebars: right side**" means any part of the handlebars which, when facing the direction of forward movement, lies on the right side of the longitudinal median plane of the vehicle.
- 3.7 "**Handlebars: left side**" means any part of the handlebars which, when facing the direction of forward movement, lies on the left side of the longitudinal median plane of the vehicle.
- 3.8 "**Handlebars: forward**" means any part of the handlebars lying on the side furthest from the driver when seated in a driving position.
- 3.9 "**Handgrip**" means that part of the handlebars, furthest from the centre, by which the handlebars are held by the driver of the vehicle.
- 3.10 "**Rotating handgrip**" means a handgrip, operating some functional mechanism of the vehicle, which is free to rotate around the handlebar when so turned by the driver of the vehicle.

- 3.11 "**Frame**" means any part of the frame, chassis or cradle of the vehicle, to which is attached the engine and/or transmission unit, and/or the engine and transmission unit itself.
- 3.12 "**Frame: left side**" means any part of the frame which, when facing the direction of forward movement, lies on the left side of the longitudinal median plane of the vehicle.
- 3.13 "**Frame: right side**": means any part of the frame which, when facing the direction of forward movement, lies on the right side of the longitudinal median plane of the vehicle.
- 3.14 "**Lever**" means any device consisting of an arm turning on a fulcrum, by means of which some functional mechanism of the vehicle is operated.
- 3.15 "**Hand lever**" means a lever operated by the hand of the driver;
Note: - Unless otherwise stated, a hand lever is operated by compression, (that is, movement of the apex of the lever towards the supporting structure), e.g. to engage a brake mechanism or to disengage the clutch mechanism.
- 3.16 "**Foot lever**" means a lever operated by contact between the foot of the driver and a spur projecting from the arm of the lever.
- 3.17 "**Pedal**" means a lever operated by contact between the foot of the driver and a pad on the lever, so placed as to allow pressure to be applied to the arm of the lever.
Note: - Unless otherwise stated, a pedal is operated by depression, for example to engage a brake mechanism.
- 3.18 "**Rocker arm**" means a lever, pivoted at or near its centre and having a pad or spur at each end, operated by contact between the foot of the driver and the said pads or spurs.
- 3.19 "**Clockwise**" means the direction of rotation around the axis of the part considered, following the motion of the hands of a clock when viewed from the upper or the outer side of the part considered.
- 3.20 "**Anti-clockwise**" has the inverse meaning of "**Clockwise**".
- 3.21 "**Combined brake**" means a system of operation (by hydraulic action or mechanical linkage, or both) whereby both the front and the rear brakes of the vehicle are brought into operation at least partially by the use of only one control.
- 3.22 "**Indicator**" means a device which presents information on the functioning or situation of a system or a part of a system, for example a fluid level.
- 3.23 "**Tell-tale**" means an optical signal which indicates the actuation of a device, correct or defective functioning or condition, or failure to function.
- 3.24 "**Symbol**" means a diagram from which to identify a control, a tell-tale or an indicator.
- 3.25 "**Optical Warning Device**" means a headlamp where the beam can be flashed to give signals to the oncoming or preceding traffic, e.g., when a vehicle is about to overtake a slower preceding vehicle.
- 3.26 "**Master Lighting Switch**" means a switch connecting or cutting off supply of current to circuits of lighting devices referred to in 5.10 and 5.11 of AIS-009 (Rev 01)-2011.

4 REQUIREMENTS

- 4.1 **General:** - A vehicle, if fitted with a control, tell-tale or indicator identified in Table 1, shall comply with the requirements of this standard with respect to the location, identification, operation, illumination, and colour of that control, tell-tale or indicator.

For functions for which no symbol is available in Table 1, the manufacturer may use a symbol following the appropriate standards. Where no symbol is available, the manufacturer may use a symbol of its own conception. Such a

symbol shall not cause confusion with any symbol specified in Table 1.

4.2 Location

- 4.2.1 The controls, listed in Table 1, shall be located so that they are operable and within reach of the driver when seated in the driving position. However, the controls for Manual Choke and Manual Fuel Tank Shutoff Valve shall be so located that they are operable and within reach of the driver when seated.
- 4.2.2 The tell-tales and indicators listed in Table 1, and their identification symbols shall be located so that they are visible to a driver when seated in the driving position, during daylight and night-time driving. Tell-tales, indicators and their identification symbols need not be visible when not activated.
- 4.2.3 The identification symbols for controls, tell-tales, and indicators shall be placed on or adjacent to the controls, tell-tales or indicators that they identify except as provided in 4.2.5.
- 4.2.4 Controls for hazard warning lamps, passing and driving beam headlamps, direction indicators, supplemental engine stop, audible warning device, brakes and clutch shall be always accessible to the driver as primary function of the corresponding control without the removal of the driver's hands from the respective handgrips.
- 4.2.5 Requirement of 4.2.3. does not apply to multi-function controls, if the control is associated with a multi-task display that:
- 4.2.5.1 is visible to the driver; and
 - 4.2.5.2 identifies the control with which it is associated; and
 - 4.2.5.3 identifies all of the vehicle systems for which control is possible from the multi-function control. Sub-functions of those systems need not be shown on the top-most layer of the multi-task display, and
 - 4.2.5.4 does not display tell-tales listed in Table 1.

4.3 Identification

- 4.3.1 Each control, tell-tale and indicator listed in Table 1, shall be identified by the relevant specified symbol.
- 4.3.2 Supplementary symbols, words or abbreviations may be used at the manufacturer's discretion in conjunction with any symbol, word or abbreviation specified in Table 1.
- 4.3.3 Each additional or supplementary symbol, word or abbreviation used by the manufacturer shall not cause confusion with any symbol specified in this global technical regulation.
- 4.3.4 If the control, indicator or tell-tale for the same function are combined, one symbol may be used to identify that combination.
- 4.3.5 All identification symbols for the tell-tales, indicators and controls provided on handle bar or instrument cluster shall be positioned so as to appear to the

driver to be perceptually upright except the symbol for an audible warning device control. For rotating controls that have an “off” position, this requirement applies to the control in the “off” position.

- 4.3.6 When fitted, each control that regulates a system function over a continuous range shall have identification provided for the limits of the adjustment range.

4.4 **Illumination**

- 4.4.1 At the manufacturer’s option, any control, indicator and their respective identification symbols may be capable of being illuminated.

- 4.4.2 A tell-tale shall emit light when the malfunction or vehicle condition it is meant to indicate occurs. It shall not emit light at any other time, except during a bulb check.

4.5 **Colour**

- 4.5.1 The light of each tell-tale shall be of the colour as specified in Table 1.

- 4.5.2 The colour of tell-tales not listed in Table 1 can be selected by the manufacturer in accordance with 4.5.3. The colour selected shall not mask or interfere with the identification of any tell-tale, control or indicator specified in Table 1.

- 4.5.3 Colours are recommended in accordance with the following colour code:

- 4.5.3.1 **Red:** danger to persons or very serious damage to equipment is immediate or imminent;

- 4.5.3.2 **Amber (yellow):** caution, outside normal operating limits, vehicle system malfunction, damage to vehicle likely, or other condition which may produce hazard in the longer term;

- 4.5.3.3 **Green:** safe, normal operating condition (except if blue or amber is required by Table 1).

- 4.5.4 Each symbol used for the identification of a tell-tale, control or indicator shall be in a colour that stands out clearly against the background.

- 4.5.5 The filled-in part of any symbol may be replaced by its outline and the outline of any symbol may be filled in.

- 4.6 Common space for displaying multiple messages

A common space may be used to show information from any source, subject to the following requirements:

- 4.6.1 The tell-tales and indicators displayed in the common space shall meet the requirements of 4.3, 4.4 and 4.5 and shall illuminate at the initiation of the condition they are designed to identify.

- 4.6.2 The tell-tale and indicators that are listed in Table 1 and are shown in the common space shall illuminate at the initiation of any underlying condition.

- 4.6.3 Except as provided in 4.6.4, 4.6.5 and 4.6.6, when the condition exists for actuation of two or more tell-tales, the information shall be either

- a) repeated automatically in sequence, or
- b) indicated by visible means and capable of being selected by the driver when seated in the driving position.

- 4.6.4 The tell-tales for the brake system malfunction, headlamp driving beam and direction indicator shall not be shown in the same common space.

- 4.6.5 If condition of activation exists for the following tell-tales: brake system malfunction, headlamp driving beam and direction indicator are displayed on a common space with other tell-tale, they shall have priority over anything else in the common space.

- 4.6.6 Information displayed in the common space may be capable of being cancelled automatically or by the driver, except the tell-tales for brake system malfunction, headlamp driving beam, direction indicator and those

for which the colour red is required by Table 1 shall not be capable of being cancelled if the condition exists for their activation.

5 TYPE APPROVAL

- 5.1 The manufacturer shall submit following for type approval of a vehicle.
 - (a) Application for type approval.
 - (b) Technical specification of the vehicle which shall include at least the details given in Annex A. As an alternate to information in Annex A, the manufacturer may submit a drawing or information in tabular format, indicating these details.
 - (c) Prototype of vehicle for verification.
- 5.2 Modifications/changes in technical specification
 - 5.2.1 Every functional modification in technical specifications pertaining to controls, tell-tales and indicators declared in accordance with 5.1(b) shall be intimated to the testing agency. Testing agency may then consider, whether,
 - 5.2.1.1 Vehicle with modifications complies with specified requirements, or,
 - 5.2.1.2 any verification is required.

5.2.2 For considering whether verification is required or not, guidelines given in Table 2 shall be followed.

Table 2

Sr. No.	Parameter and change	Verification to be conducted
1	Addition of a variant having no additional control, tell-tale or indicator and no change in the location, identification or operation of any control, tell-tale or indicator with respect to the base model.	No verification required, if manufacturer declares so.
2	Addition of a variant having additional control, tell-tale or indicator.	Verification is required only for additional control, tell-tale or indicator.
3	Addition of a variant having change in location, identification or operation of control, tell-tale or indicator with respect to the base model.	Verification is required only for changed location, identification or operation of control, tell-tale or indicator.
4	Addition of control, tell-tale or indicator in approved model / variant (s).	Verification is required only for additional control, tell-tale or indicator.
5	Change in location, identification or operation of control, tell-tale or indicator in approved model / variant (s).	Verification is required only for Changed location, identification or operation of control, tell-tale or indicator.
6	Deletion of control, tell-tale or indicator in above cases.	To verify whether the requirements of standard are complied after that deletion.
7	<i>Addition of an alternate supplier for speedometer having no additional control, tell-tale or indicator and no change in the location, identification or operation of any control, tell-tale or indicator with respect to the approved model / variant (s).</i>	<i>No verification is required, if manufacturer declares so.</i>

Note: - Changes other than those listed in Table 2 are considered to have no adverse effect on the requirements of this standard.

5.2.3 In case of 5.2.1.2, verification for those parameters which are affected by the modifications only need to be carried out.

- 5.2.4 In the event of 5.2.1.1 or in the case of 5.2.1.2 after successful compliance to requirements, the certificate of compliance shall be validated for the modified version.

6 EXTENSION OF TYPE APPROVAL

The details of selection of model / variant (s) for verification and verifications to be done in case of change in Technical Specifications of approved model / variant (s) are given in Table 2.

7 CONFORMITY OF PRODUCTION

Conformity of Production procedure as and when mandated by the Ministry of Road Transport and Highways (MoRTH) shall be applicable.





8 TRANSITIONAL PROVISIONS





- 8.1 At the request of the applicant, type approvals for compliance to AIS-126 (Revision 1) shall be granted by test agencies from date of its final notification. Such type approvals shall be deemed to be compliance to AIS-126: 2014.
- 8.2 At the request of applicant, type approval to the compliance to AIS-126: 2014 shall be granted up to the notified date of implementation of AIS-126 (Revision 1).
- 8.3 All the requirements of AIS-126: (Revision 1) shall be verified for establishing compliance to this standard.
- 8.4 Extension of Approvals for engineering and administrative changes:
- 8.4.1 In the case of 8.1, extensions shall be granted subject to the conditions of AIS-126: (Revision 1). Such extensions shall be deemed to be compliance to AIS-126: 2014.
- 8.4.2 In the case of 8.2, extensions shall be granted subject to conditions of AIS-126:2014 till its notified date of implementation.


9.0 ACCEPTANCE OF CHANGES IN UN GTR 12


Acceptance of changes in UN GTR 12 after the level described in 0.3 of introduction shall be as per AIS-000, as amended from time to time, as applicable, unless otherwise stated in this standard.


TABLE 1
(See 4.1)




No	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	Supplemental Engine / <i>traction motor</i> stop control (OFF)		Control	Located on handle bar: Right side.			As a means of stopping the engine, alternative to the main switch or a decompression valve control, the vehicle may be equipped with an engine electrical power supply cut-out (Supplemental engine stop).	
2	Supplemental Engine / <i>traction motor</i> stop control (RUN)							
3	Ignition Switch / <i>Master Switch</i>		Control			The device that enables the engine to run, and may also allow operation of other electrical systems on a vehicle.	In the case of a rotary switch, the direction of motion shall be clockwise from the ignition “off” position to the ignition “on” position.	
4	Electric Starter/ Electric Start <i>/Traction motor start</i>		Control					<i>For ICE / BOV</i>
5	Manual Choke		Control	The control need not be visible from the rider’s position				
			Tell-tale		Amber			



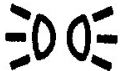


No	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
6	Neutral – (Gearbox Selection)		Tell-tale		Green		The tell-tale is illuminated when the gear selector is in neutral position.	
7	Manual Fuel Tank Shutoff Valve (OFF)		Control	The control need not be visible from the rider's position.			The control shall have separate positive positions for "OFF", "ON" and "RESERVE" (where a reserve supply is provided). The control shall be in the ON position when it is in the direction downstream of the flow of fuel from the tank to the engine: in the OFF position when it is in a direction perpendicular to the flow of fuel, and in the RESERVE position (where applicable) when it is in the direction upstream of the flow of fuel. In case of a system in which the fuel flow is stopped when the engine is switched off, and if equipped with a control, the symbols and control positions shall be the same as identified for Manual Fuel Shut-Off Control.	
8	Manual Fuel Tank Shutoff Valve (ON)							
9	Manual Fuel Tank Shutoff Valve (RES)							
10	Speedometer		Indicator				The display shall be illuminated whenever the position lamp (if available) or headlamp is activated.	Mandatory: As per CMVR rule no 117.



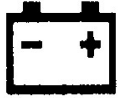

No	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
11	Audible warning device (Horn)		Control	On handlebars: Left side for vehicles with a gear selection control operated independently of a hand operated clutch or for vehicles without gear selection control. Alternatively, on handlebars: right side for vehicles with gear selection located on handlebars: left side and operated in conjunction with the hand operated clutch.			Push to activate	Mandatory: Fitment of Horn is mandatory as per CMVR rule No 119.

No	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
12	Driving beam (Main, high or upper beam), (Hi)		Control	On handlebars: left side for vehicles with a gear selection control operated independently of a hand operated clutch. or for vehicles without gear selection control. Alternatively, on handlebars: right side for vehicles with gear selection located on handlebars: left side and operated in conjunction with the hand operated clutch.				Mandatory: For L2 Optional: For L1 As per AIS-009
			Tell-tale		Blue			

No	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
13	Passing Beam (Dipped, low or lower Beam) - (Lo)		Control	On handlebars: left side for vehicles with a gear selection control operated independently of a hand operated clutch or for vehicles without gear selection control. Alternatively, on handlebars: right side for vehicles with gear selection located on handlebars; left side and operated in conjunction with the hand operated clutch.				
			Tell-tale		Green			

No	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
14	Optical warning device		Control	Adjacent to the Driving Beam / Passing Beam Control			May be an additional function of the Driving Beam /Passing Beam Control When control is released, the beam shall go back to the previous state.	
15	Fog Lamps - Front		Control		Green			
			Tell-tale					
16	Fog Lamps - Rear		Control		Amber			
			Tell-tale					
17	Direction indicators		Control	Control(s) is/are to be located on the handlebar in clear view from the operator's seat and shall be marked clearly.	Green		The control shall be so designed that, when viewed from the rider's seat, operation of the left hand portion or movement to the left of the control actuates the left side indicators and vice versa for the right side indicators.	Mandatory: As per CMVR rule No. 102, 103.
			Tell-tale				The pair of arrows is a single symbol. When the controls or telltales for left and right turn operate independently, however, the two arrows may be considered separate symbols and be spaced accordingly.	



No	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
18	Hazard warning signal		Control			Represented by either the direction indicator tell-tale(s) flashing (simultaneously), or by the given triangle symbol.		
			Tell-tale		Red			
			Tell-tale		Green			
			Tell-tale		Red			
19	Position Lamp		Control			Represented by the given symbols for position lamps, master lamp control and parking lamp but if all lamps are automatically lit when vehicle is in operation, no position or master lamp control symbol need appear. The tell-tale function may be provided by means of instrument cluster illumination.	In the case of a rotary switch, operation of the switch in a clockwise direction shall engage, progressively, the vehicle's position lights and then the vehicle's main lights. This shall not prevent the inclusion of additional switch positions provided that they are clearly indicated. The light control switch may be combined with the ignition switch if so desired.	
			Tell-tale		Green			
20	Master lamp		Control					
			Tell-tale		Green			
21	Parking Lamp		Control					
			Tell-tale		Green			





No	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
						If the Parking Lamp function is incorporated in the ignition switch, identification is optional.		
22	Fuel Indicator		Indicator					<i>This is for low fuel indication</i>
			Tell-tale		Amber			
23	Engine coolant temperature		Indicator					
			Tell-tale		Red			
24	Electrical Charging		Indicator					
			Tell-tale		Red			
25	Engine Oil		Indicator					
			Tell-tale		Red			






No	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
26	Engine speed control		Control	On handlebars : right side			Hand operated control. Rotating Handgrip Anti-clockwise rotation increases speed. The control shall be self closing to idle in a clockwise direction after release of the hand unless a vehicle speed control device is activated.	
27	Front wheel brake		Control	On handlebars : right side, forward			Hand lever. The front wheel brake may operate with the rear wheel brake in the case of a combined brake system.	Mandatory as per IS14664
28	Foot rear wheel brakes control		Control	On the frame : right side			Pedal. The rear wheel brake may operate with the front wheel brake in the case of a combined brake system.	





No	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
29	Hand rear wheel brake control		Control	On handlebars : left side, forward			Hand lever Not allowed for vehicles with hand operated clutch. The rear wheel brake may operate with the front wheel brake in the case of a combined brake system.	
30	Parking brake		Control				Hand lever or pedal.	
31	Clutch		Control	On handlebars: left side			Hand lever. Squeeze to disengage clutch. Shall not prohibit the use of devices on the left side of the vehicle that combine operations of a clutch and gear selector.	






No	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
32	Foot selector Manual gear shift Control		Control	On the frame: left side			<p>Foot lever or rocker arm.</p> <p>Moving the forward part of the foot lever or rocker arm shall progressively select the gears: upward movement of the forward part for shifting to a higher gear position and downward movement for shifting to a lower gear position. If a separate, positive “neutral” position is provided, it shall be in either the first or second position in the gear selection order (i.e: 1-N-2-3-4-.... or N-1-2-3-4-....).</p> <p>However, for vehicles with an engine capacity of less than 200 cm³, transmissions with the following shift patterns may be fitted:</p> <ol style="list-style-type: none"> 1) Rotary pattern (i.e: N-1-2-3-4-5-N-1.) 2) Reverse pattern, where moving the forward part of the foot lever or rocker arm shall progressively select the gears: <ol style="list-style-type: none"> a) upward movement of the forward part for shifting to a lower gear position, and b) downward movement for shifting to a higher rear position. 	

No	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
33	Hand Selector Manual gear shift Control		Control	On handlebars : left side			If the operation of the control is through rotation of the handgrip, the Anti-clockwise rotation shall progressively select gears giving an increased forward speed and conversely for a reduced forward speed. If a separate, positive “neutral” position is provided it shall be either in the first position or in the second position in the gear selection order (i.e.: N-1-2-3-4-... or 1-N-2-3-4-...).	
34	Anti-lock Brake System Malfunction		Tell-tale		Amber		If ABS Fitted	ABS will become mandatory with rule no 96 (4A) {GSR 310 (E) dated 16 th March 2016 for specified category of vehicle.}
35	Malfunction Indicator Lamp		Tell-tale		Amber	Shall be used to convey power-train related failures which may affect emissions.		Mandatory for vehicle with OBD
36	State of Charge	As per clause 4.1 of this standard	Indicator					Mandatory for electric vehicles as per AIS-038 (Rev. 1) <i>AIS-156.</i>

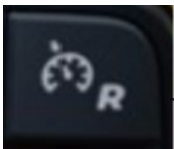

No	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
37	Traction Control		Control					
			Tell-tale		Yellow / Amber			
38	Traction Control OFF or Not Available		Control					
			Tell-tale		Yellow / Amber			
39	Traction Control Failure		Control					
			Tell Tale		Red			
40	Parking Brake Applied		Control					
			Tell-tale		Red			

No	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
41	Brake failure		Tell-tale		Red			
42	Brake fluid level		Tell-tale		Red			
44	Cruise control (Active)		Control					
43			Tell-tale		Green			
46	Traction battery connected to charging		Indicator		<i>Amber</i>			
44			Tell-tale					
47	Park Assistance system.		Control					
45			Tell-tale		Amber			

No	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
48 46	Power on/off		Control					
			Indicator					For Battery Operated /Electric Vehicle (BOV) only (It is not starter) (Ref: ISO 2575)
49 47	Daytime Running Lights		Control					
			Tell Tale					
50 48	Anti -lock brake systems, off or not available <i>(Deactivation by Rider)</i>		Control					
			Tell Tale		Amber / yellow			
52 49	Limited Performance Mode (Circle may be omitted)		Control					
			Tell Tale		Blue/Green Amber/ Yellow			

No	Item	Symbol	Function	Location	Colour	Definition	Operation	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
53 50	Electric motor failure		Indicator Tell-tale		Red			
54 51	Propulsion /Traction battery Failure		Tell-tale		Red			
55 52	Side Stand	SIDE STAND Or  Or 	Tell-tale					<i>No colour restriction for colour of the.</i> Other design of symbol may also be acceptable ??
56 53	Service Reminder		Tell-tale					

Comments are requested for below points:

<p>The Manufactures are combining Controls in Single switch with Single Tap or Double tap for selection Like Cruise Control & Reverse. (can we accept this)</p>		<p><i>Comments</i></p>
<p>Due to LCD display Multiple screen selection is available, so at any selected screen minimum Tell-tale has to indicated like 1. Speed 2. Turn indicators, 3. Odometer 4. Head Lamp ????</p>		<p><i>Comments</i></p>
<p>For Mode Selection like Sport, Boost, Eco etc. (Some manufactures are giving in LCD Display with selection switch, some are providing Toggle switch which describes dot or Arrow but user is not able to identify actual mode) ??</p>		<p><i>Comments</i></p>

ANNEX A
(See 5.1)

**TECHNICAL INFORMATION TO BE SUBMITTED BY
VEHICLE MANUFACTURER**

Sr. No.	Parameter	Description
A.1	Name of vehicle manufacturer / importer	
A.2	Address of vehicle manufacturer / importer	
A.3	Vehicle model	
A.4	Variant (s)	
A.5	Control Locations and Identification (Please specify location, operation and symbol if provided, as applicable)	
A.5.1	Supplemental engine stop	
A.5.2	Ignition Switch	
A.5.3	Electric Starter	
A.5.4	Manual Choke	
A.5.5	Fuel Tank Shutoff Valve	
A.5.6	Audible warning device	
A.5.7	Head lamp Driving / Passing beam	
A.5.8	Optical warning device	
A.5.9	Fog Lamps - Front	
A.5.10	Fog Lamps - Rear	
A.5.11	Direction indicators	
A.5.12	Hazard warning signal	
A.5.13	Position Lamp	
A.5.14	Master lamp	
A.5.15	Parking Lamp	
A.5.16	Engine speed control	
A.5.17	Front wheel brake	
A.5.18	Foot rear wheel brakes control	
A.5.19	Hand rear wheel brake control	
A.5.20	Parking brake	
A.5.21	Clutch	
A.5.22	Foot selector Manual gear shift Control	
A.5.23	Hand Selector Manual gear shift Control	
A.5.24	Any other control	
A.5.3	Tell-tales	
A.5.3.1	Manual Choke	
A.5.3.2	Neutral – (Gearbox Selection)	
A.5.3.3	Head lamp Driving beam	
A.5.3.4	Head lamp Passing beam	
A.5.3.5	Fog Lamps - Front	
A.5.3.6	Fog Lamps - Rear	
A.5.3.7	Direction indicators	
A.5.3.8	Hazard warning signal	
A.5.3.9	Position Lamp	
A.5.3.10	Master lamp	

A.5.3.11	Parking Lamp	
A.5.3.12	Fuel indicator	
A.5.3.13	Engine coolant temperature	
A.5.3.14	Electrical Charging	
A.5.3.15	Engine Oil	
A.5.3.16	Anti-lock Brake System Malfunction	
A.5.3.17	Malfunction Indicator Lamp	
A.5.3.18	Any other tell-tale	
A.5.4	Indicators	
A.5.4.1	Speedometer	
A.5.4.2	Fuel Indicator	
A.5.4.3	Engine coolant temperature	
A.5.4.4	Electrical Charging	
A.5.4.5	Engine Oil	
A.5.4.6	Any other Indicator	
<i>A.6</i>	<i>Mode selection clarity in owner's manual (Yes/No)</i>	