

## Indian Standard

# AUTOMOTIVE VEHICLES — UNIFORM PROVISIONS CONCERNING THE APPROVAL OF VEHICLES OF CATEGORIES M, N AND T WITH REGARD TO BRAKING

(Second Revision)

### 1 SCOPE

**1.1** This standard applies to the braking of power-driven vehicles individually and to trailers individually of categories M, N and T as defined in IS 14272:2011 Automotive vehicles — Types — Terminology (*first revision*).

**1.2** This standard does not cover:

- a) Vehicles with a maximum design speed not exceeding 25 km/h,
- b) Trailers which may not be coupled to power-driven vehicles with a design speed exceeding 25 km/h, and
- c) Vehicles fitted for invalid drivers.

**1.3** Subject to the applicable provisions of this standard method of measuring reaction (response) times in brakes other than compressed-air brakes are not covered by this standard.

NOTE — IS 15986 is prescribing alternate performance requirements for vehicle categories of M1 and N1. Vehicle manufacturer may opt for compliance to this standard instead of IS 11852.

### 2 REFERENCES

The following standards contain provisions, which through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

| <i>IS/<br/>International<br/>Standard</i> | <i>Title</i>   |
|---|--|
| 15633:2005                                | Automotive vehicles — Pneumatic tyres for passenger car vehicles — Diagonal and radial ply — Specification |
| 15636:2005                                | Automotive vehicles — Pneumatic tyres for commercial vehicles —  |

| <i>IS/<br/>International<br/>Standard</i> | <i>Title</i>   |
|---|--|
| ISO 3583:1984                             | Diagonal and radial ply — Specification<br>Road vehicles — Pressure test connection for compressed-air pneumatic braking equipment   |
| ISO 7638-1: 2003                          | Road vehicles — Connectors for the electrical connection of towing and towed vehicles — Part 1: Connectors for braking systems and running gear of vehicles with 24 V nominal supply voltage |
| ISO 7638-2: 2003                          | Road vehicles — Connectors for the electrical connection of towing and towed vehicles — Part 2: Connectors for braking systems and running gear of vehicles with 12 V nominal supply voltage |
| ISO 9128: 2006                            | Road vehicles — Graphical symbols to designate brake fluid types   |
| ISO 11992-1: 2003                         | Road vehicles — Interchange of digital information on electrical connections between towing and towed vehicles — Part 1: Physical and data-link layers                                       |
| ISO 11992-2: 2003                         | Road vehicles — Interchange of digital information on electrical connections between towing and towed vehicles — Part 2: Application layer for brakes and running gear                       |
| ASTM E 1337: 1990                         | Standard test method for determining longitudinal peak braking coefficient of paved surfaces using a standard reference test tire  |
| AIS 004 (Part 3):2009                     | Automotive vehicles — Requirements for electromagnetic compatibility   |
| AIS 110: 2009                             | Automotive vehicles — Temporary — Use spare wheel/tyres and run flat tyre  |