

AUTOMOTIVE INDUSTRY STANDARD

**Agricultural Tractors -
Rear View Mirrors -
Installation Requirements**

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ON BEHALF OF
AUTOMOTIVE INDUSTRY STANDARDS COMMITTEE
UNDER
CENTRAL MOTOR VEHICLE RULES – TECHNICAL STANDING COMMITTEE
SET-UP BY
MINISTRY OF SHIPPING, ROAD TRANSPORT & HIGHWAYS
(DEPARTMENT OF ROAD TRANSPORT & HIGHWAYS)
GOVERNMENT OF INDIA

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Status chard of the standard to be used by the purchaser for updating the record.

Sr. No.	Corrigenda	Amendment	Revision	Date	Remark	Misc.

General Remarks:

INTRODUCTION

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 improved safety critical parts can be undertaken only after the publication of the standard and commissioning of test facilities. To this end, the ministry of surface transport (MOST) has constituted a permanent Automotive Industry Standards Committee (AISC) vide order No.RT 11028/11/97 MVL dated September 15, 1997. The standard 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 may publish this document on their web site.

Rear-view mirrors and the rear field of vision provided them is a safety requirement. The subject was identified in road map of safety standards for agricultural tractors for formulation of standard. This standard specifies rear-view mirrors installation requirements and rear field of vision requirements. Specifications of rear-view mirrors are covered in AIS-001

For preparation of this standard, considerable assistance has taken from the EEC Directive 74/346/EEC as amended by directives 82/890/EEC, 97/54/EC and 98/40/EC relating to rear view mirrors for wheeled agricultural and forestry tractors.

The Automotive Industry Standards Committee responsible for preparation of this standard is given in Annex: I

Agricultural Tractors - Rear View Mirrors - Installation Requirements

1.0 SCOPE

- 1.1. This standard specifies installation requirements for interior and exterior rear-view mirrors used for agricultural tractors.

2.0 REFERENCES

- 2.1. AIS-053 : Automotive vehicles –Types – Terminology

3.0 DEFINITIONS

- 3.1 **Agricultural Tractor:** As defined in AIS-053.
- 3.2 Rear View Mirror means a device, the aim of which is to give a clear view towards the rear of the agricultural tractor, within the field of vision definition given in clause 5.0 below.
- 3.3 **"Interior rear-view mirror"** means a device as defined in 3.1, which is intended, where appropriate, to be fitted inside the driver's / operator's cabin / compartment of the agricultural tractor.
- 3.4 **"Exterior rear-view mirror"** means a device as defined in 3.1, which is intended to be mounted on any part of the external surface of the agricultural tractor.
- 3.5 **"Class of rear-view mirror"** means all rear-view mirrors having one or more common characteristics or functions. Interior rear-view mirrors are grouped in Class-I (clause 3.3), exterior rear-view mirrors in Classes II (clause 3.4).

4.0 REQUIREMENTS FOR FITTING

4.1 General

- 4.1.1 Tractors may be fitted with rear-view mirrors of classes I and II only.
- 4.1.2 Rear-view mirrors shall be fixed in such a way that they remain steady under normal driving conditions of 80% max. speed.

4.2 Number

All agricultural tractors shall be equipped with at least one exterior rear view mirror fitted to the right side of the tractor.

4.3 Position

- 4.3.1 The exterior rear- view mirror shall be so placed that the driver when sitting on the driving seat in normal driving position, has a clear view of that part of the road defined in clause 5.0

- 4.3.2 The exterior rear-view mirror shall be visible through the portion of the windscreen that is swept by the windscreen wiper or through the side windows if the tractor is fitted with them.
- 4.3.3 Rear view mirror shall not protrude beyond the external body work of the tractor or tractor-trailer combination substantially more than is necessary to obtain the field of vision laid down in clause 5.0 below.
- 4.3.4 Where the bottom edge of an exterior rear view mirror is less than 2 m above the ground when the tractor is laden, this rear view mirror shall not project more than 0.20 m beyond the overall width of the tractor or tractor-trailer combination measured without rear view mirrors.
- 4.3.5 Subject to the requirements of items 4.3.3 and 4.3.4, rear view mirrors may project beyond the tractor's permissible maximum width.

4.4 **Adjustment**

- 4.4.1 Any interior rear view mirror shall be adjustable by the driver from his driving position.
- 4.4.2 The driver shall be able to adjust the exterior rear view mirror without leaving the driving position. The mirror may, however, be locked into position from the outside.
- 4.4.3 The requirements of item 4.4.2 do not apply to the exterior rear view mirror which, after being displaced, are returned automatically to their original position or can be restored to their original position without the use of tools.

5.0 **FIELD OF VISION**

The field of vision of the right hand exterior rear-view mirror shall be such that the driver can see to the rear at least that level part of the road as far as the horizon, which is to the right of the plane parallel to the vertical longitudinal median plane and which passes through the rightmost point of the overall width of the tractor or tractor-trailer combination.

ANNEX:I
(See Introduction)

COMMITTEE COMPOSITION *
Automotive Industry Standards Committee

Chairman	
Shri Shrikant R. Marathe	Director The Automotive Research Association of India, Pune
Members	Representing
Representative from	Ministry of Shipping, Road Transport & Highways (Dept. of Road Transport & Highways), New Delhi
Representative from	Ministry of Heavy Industries & Public Enterprises (Department of Heavy Industry), New Delhi
Shri S. M. Ahuja	Office of the Development Commissioner, Small Scale Industries, Ministry of Small Scale Industries, New Delhi
Shri Rakesh Kumar	Bureau of Indian Standards, New Delhi
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Shri Arvind Gupta	Automotive Components Manufacturers Association of India, New Delhi

Member Secretary
Mrs. Rashmi Urdhwareshe
Deputy Director
The Automotive Research Association of India, Pune

* At the time of approval of this Automotive Industry Standard (AIS)