

AIS-105

AUTOMOTIVE INDUSTRY STANDARD

**Requirements of Ballast Mass for
Agricultural Tractors**

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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 chart of the Standard to be used by the purchaser
for updating the record**

Sr. No.	Corrige nda.	Amend- ment	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 erstwhile 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 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.

Ballast masses are extensively used by Tractor Manufacturers as well as customers to achieve the desired performance. Accordingly a standard has been drawn to address the importance related to safety such as provision to avoid inadvertent separation, clearance etc.

While preparing this standard considerable assistance is derived from following International Standards:

EEC Directive 74/151/EEC On the approximation of the laws of the
as amended 98/38/EC Member States relating to certain parts and
(Article 2-item 4, Annex IV) characteristics of wheeled agricultural or forestry
tractors

The Automotive Industry Standards Committee responsible for preparation of this standard is given in Annex : 1.

Requirements of Ballast Mass for Agricultural Tractors

1. SCOPE

This standard specifies the requirements of ballast mass for agricultural tractors.

2. DEFINITION

2.1 Agricultural Tractor

A power-driven vehicle, either wheeled or track laying, which has at least two-axles, whose function depends essentially on its tractive power, and which is specially designed to pull, push, carry or actuate certain implements, machines or trailers intended for use in agriculture or forestry. Such a tractor may be constructed, adapted to carry a load and attendants.

3. REQUIREMENTS

- 3.1 The tractor manufacturer shall supply ballast masses if their need arises to meet any requirement of type approval.
- 3.2 Each ballast mass shall bear the manufacturer's mark and a statement of their mass in kilograms to an accuracy of $\pm 5\%$
- 3.3 Front ballast masses that have been designed for frequent removal and fitment shall leave a safety clearance of at least 25 mm all around the grab handles.
- 3.4 The method of locating the ballast mass shall be such that any inadvertent separation is avoided (e.g. in the event of tractor roll over).
- 3.5 Access to front coupling device may be limited when using a front ballast mass.

ANNEX 1

(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 Chandan Saha	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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Dr. C. L. Dhamejani	Vehicles Research & Development Establishment, Ahmednagar
Representatives from	Society of Indian Automobile Manufacturers
Shri T.C. Gopalan Shri Ramakant Garg (Alternate)	Tractor Manufacturers Association, New Delhi
Shri K.N.D. Nambudiripad	Automotive Components Manufacturers Association of India, New Delhi
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)