

# **AUTOMOTIVE RESEARCH ASSOCIATION OF INDIA**

S. No. 102, Vetal Hill, Off Paud Road, Kothrud, Pune - 411 038

P.B. No. 832, Pune - 411 004 (INDIA)

Tel. No. : +91-20-30231192 / 93 Fax No. : +91-20-25434190

E-mail : [vora.pga@araiindia.com](mailto:vora.pga@araiindia.com) / [das.lib@araiindia.com](mailto:das.lib@araiindia.com)



# **List of ARAI Publications**

**(April 2010)**

## **Automotive Industry Standards (AISs) on CD-ROM** **Annual Subscription Rates**

**Following two options are available for annual subscription**

### ***Option-I***

**Subject wise Single AIS CD** (e.g. CD 1, CD 2 etc.)

**Cost for each AISs CD : Rs.1,500.00 (within India)**  
**US\$ 75.00 (Overseas)**

Updates will be sent free of cost by email upto one year from date of purchase (i.e. subscription period).

### ***Option-II***

**All AISs in Single CD**

**Cost for All AISs in Single CD : Rs.25,000.00 (within India)**  
**US\$ 650.00 (Overseas)**

A quarterly updated CD will be sent free of cost by courier upto one year from date of purchase (i.e. subscription period).

## List of Automotive Industry Standards (AISs)

<b>CD 1</b>		<b>PRICE</b>
<b>AUTOMOTIVE INDUSTRY STANDARDS ( AISs)</b>		<b>Rs.1500.00 (Within India)</b>
<b>CMVR Type Approval Certification</b>		<b>US\$ 75.00 (Overseas)</b>
<b>Sr. No.</b>	<b>AIS No.</b>	<b>Title</b>
1.	AIS-007 (Revision 3) Amd. No. 1	Information on Technical Specifications to be submitted by the Vehicle Manufacturer.
2.	AIS-017	Procedure for Type Approval and Certification of Vehicles for Compliance to Central Motor Vehicles Rules
3.	AIS-037 Amd. No.1 Amd. No.2 Amd. No.3	Procedure for Type Approval and Establishing Conformity of Production for Safety Critical Components
4.	AIS-053 Amd. No.1 Amd. No.2	Automotive Vehicles – Types & Terminology

<b>CD 2</b>		<b>PRICE</b>
<b>AUTOMOTIVE INDUSTRY STANDARDS ( AISs)</b>		<b>Rs.1500.00 (Within India)</b>
<b>EMI / Lighting / Light-Signalling Devices</b>		<b>US\$ 75.00 (Overseas)</b>
<b>Sr. No.</b>	<b>AIS No.</b>	<b>Title</b>
1.	AIS-004 / 1999 Amd. No.1 Amd. No.2	Electromagnetic Radiation from Automotive Vehicle - Permissible Levels and Methods of Tests.
	AIS-004 (Part 2)	Electromagnetic Radiated Immunity of Automotive Vehicles – Requirements and Methods of Tests
	AIS-004 (Part 3)	Automotive Vehicles – Requirements for Electromagnetic Compatibility
2.	AIS-008 / 2001  Amd.No.1	Installation Requirements of Lighting and Light-Signalling Devices for Motor Vehicle having more than Three Wheels, Trailer and Semi-Trailer excluding Agricultural Tractor and Special Purpose Vehicle.
3.	AIS-009 / 2001	Installation requirements of Lighting and Light- Signalling devices for 2 and 3 Wheelers, their Trailers and Semi-Trailers.
4.	AIS-010  Amd. No. 1	Performance Requirements of Lighting and Light-Signalling Devices for Two and Three-Wheeled Motor Vehicle.
5.	AIS-012	Performance Requirements of Lighting and Light-Signalling Devices for Motor vehicle having more than Three-Wheels, Trailer, Semi-Trailer.

6.	AIS-022 / 2001 Amd. No. 1 Amd. No. 2 Amd. No. 3 Amd. No.4	Automotive Vehicles – Advance – Warning Triangles – Specifications.
7.	AIS-030/2001	Installation Requirements for Lighting and Light-Signalling Devices for Agricultural Tractor.
8.	AIS-034 Amd. No. 1 Amd. No. 2	Automobile Lamps.
9.	AIS-057 Amd. No.1	Performance Requirements for Retro-Reflecting Devices for Power-Driven Vehicles and their Trailers
10.	AIS-062 Amd. No. 1	Performance requirements for Lighting and Light-Signalling Devices for Agricultural Tractors.
11.	AIS-083	Headlamp Cleaners and their fitment on Power-Driven Vehicles with regard to Headlamp Cleaners
12.	AIS-088	Performance requirements of Rear Marking Plates (Rear Warning Triangles) for Slow Moving Vehicles (By Construction), Agricultural Tractors, their Trailers and Semi-Trailers
13.	AIS-089	Approval of Rear Marking Plates for Heavy and Long Vehicles
14.	AIS-090	Approval of Retro-Reflective Markings for Heavy and Long Vehicles, their Trailers and Semi-Trailers

<b>CD 3</b>		<b>PRICE</b>
<b>AUTOMOTIVE INDUSTRY STANDARDS ( AISs)</b>		<b>Rs.1500.00 (Within India)</b>
<b>Tyres / Brakes / Stability</b>		<b>US\$ 75.00 (Overseas)</b>
<b>Sr. No.</b>	<b>AIS No.</b>	<b>Title</b>
1.	AIS-043 Amd. No. 1	Recommendation of Braking System and Performance Requirements for the combination of Agricultural Tractor and Trailer
2.	AIS-044 (Part 1) Amd. 1&2  (Part 2) Amd. 1&. 2  (Part 3) Amd. 1& 2	Automotive Vehicles – Pneumatic Tyres for Commercial Vehicles.  Automotive Vehicles – Pneumatic Tyres for Passenger Cars.  Automotive Vehicles – Pneumatic Tyres for Two and Three-Wheeled Motor Vehicles.
3.	AIS- 050	Requirements for Vehicles with regard to Selection and Approval for use of Tyres for Two and Three-Wheelers

4.	AIS-051 Amd. 1	Requirements for Vehicles with regard to Selection and Approval or use of Tyres for other than Two and Three-Wheelers.
5.	AIS-061	Guideline Specifications for Replacement Brake Lining Assemblies and Drum Brake Linings for Power-Driven Vehicles and their Trailers
6.	AIS-064 (Part 1)  AIS-064 (Part 2)	Automotive Vehicles- Retreaded Pneumatic Tyres for Commercial Vehicles  Automotive Vehicles- Retreaded Pneumatic Tyres for Passenger Car
7.	AIS-091(Part 1)	Automotives Vehicles-Mechanical Coupling Components of Combinations of Vehicles other Than Agricultural Tractors-Requirements
8.	AIS-092	Approval of I. A Close-Coupling Device (CCD) II. Vehicles with Regard to the fitting of an Approved Type of CCD
9.	AIS-110	Automotive Vehicles Temporary-Use Spare Wheel / Tyres and Run Flat Tyres

<b>CD 4</b>		<b>PRICE</b>
<b>AUTOMOTIVE INDUSTRY STANDARDS ( AISs)</b>		<b>Rs.1500.00 (Within India)</b>
<b>General Safety</b>		<b>US\$ 75.00 (Overseas)</b>
<b>Sr. No.</b>	<b>AIS No.</b>	<b>Title</b>
1.	AIS-001 / 2001 Amd. No. 1 Amd. No. 2	Automotive Vehicles – Rear View Mirrors - Specification.
2.	AIS-002 / 2001	Automotive Vehicles – Rear View Mirrors - Installation Requirements.
3.	AIS-011 / 2001 Amd. 1	Automotive Vehicles – Testing Procedure for WindScreen Wiping System for 4 wheelers other than M1 Category of Vehicles. Amendment No.1
4.	AIS-013 Amd. 1	Automotive Vehicles - Spray Suppression Systems.
5.	AIS-014 / 2001 Amd. 1	Automotive Vehicles – Horn Installation Requirement.
6.	AIS-019 / 2001 Amd. 1	Automotive Vehicles - Wind Screen Wiping and Washing System for M1 Category of vehicles.
7.	AIS-021	Field of Vision of Motor Vehicle Drivers for M1 Category
8.	AIS-035 Amd. 1	Automotive Vehicles- The Arrangement of Foot Controls of Vehicles
9.	AIS-045	Automotive vehicles – Windscreen Wiping system for 3 – wheeler vehicles and vehicles treated as such.
10.	AIS-046  Amd. 1	Automotive Vehicles - Hand-Holds for Three, Four and more than Four Wheeled Motor Vehicles - Specification

11.	AIS-069	Approval of I. Front Underrun Protective Devices ( FUPDs) II. Vehicles with regard to the installation of FUPD of an Approved Type III. Vehicles with regard to the installation of FUPD of an Approved Type
12.	AIS-071 (Part 1)	Automotive Vehicles - Identification of Controls Tell-Tales and Indicators
13.	AIS-071 (Part 2)	Automotive Vehicles – Control Location and Operation Requirements
14.	AIS-073( Part 1) Amd. 1	Automotive Vehicles – Wheel Rims for Two and Three Wheeled Vehicles - Light Alloy Wheel Rims – Method of Test and Requirements
	AIS-073( Part 2) Amd. 1	Automotive Vehicles – Wheel Rims for Two and Three Wheeled Vehicles - Sheet Metal Wheel Rims – Method of Test and Requirements
	AIS-073(Part 3) Amd. 1	Automotive Vehicles –Wheel Rims for Two and Three Wheeled Vehicles –Spoke Wheel Rims – Method of test and Requirements
15.	AIS-074	Approval of Vehicles with regard to their Protection against Unauthorized use –Two and Three Wheeled Vehicles
16.	AIS-075	Approval of Vehicles with regard to their Protection against Unauthorized use - Four Wheeled Vehicles
17.	AIS-076	Approval of Vehicle Alarm Systems (VAS) for M1 and N1 Category of Vehicles and of these Vehicles with regard to their Alarm Systems (AS)
18.	AIS-084 (Part 1)	Automotive Vehicles – Performance requirements of Demisting Systems of Glazed Surfaces (Wind Screen) of Motor Vehicles
19.	AIS-084 (Part 2)	Automotive Vehicles –Performance requirements of Defrosting Systems of Glazed Surfaces (Wind Screen) of Motor Vehicles
20.	AIS-103	Automotive Vehicles - Spray-Suppression Systems for Two Wheeled Motor Vehicles

<b>CD 5</b>		<b>PRICE</b>
<b>AUTOMOTIVE INDUSTRY STANDARDS ( AISs)</b>		<b>Rs.1500.00 (Within India)</b>
<b>Passive Safety</b>		<b>US\$ 75.00 (Overseas)</b>
<b>Sr. No.</b>	<b>AIS No.</b>	<b>Title</b>
1.	AIS-005 / 2000 Amd. 1	Automotive Vehicles - Safety Belt Assemblies - Specifications.
2.	AIS-006	Automotive vehicle-Bumper Fitment on M1 Vehicles – Test Methods.
3.	AIS-015 / 2000	Automotive Vehicles – Safety Belt Anchorages – Specifications.
4.	AIS-016 / 2000	Automotive Vehicles - Seats, their Anchorages and Head Restraints for Category M1 - Specifications.

5.	AIS - 023 Amd. 1 Amd. 2	Automotive Vehicles - Seats, their Anchorages and Head Restraints for Passenger Vehicles of Categories M2, M3 and Goods Vehicles of Category N - Specifications.
6.	AIS-029 Amd. 1	Survival Space for the Protection of the Occupants of the Cab of a Commercial Vehicle
7.	AIS-031 Amd. 1	Automotive Vehicles -The Strength of Superstructure of Large Passenger Vehicles
8.	AIS-033/2001 Amd. 1	Automotive Vehicles - Plastic Fuel Tanks for Four Wheelers.
9.	AIS-047	Automotive Vehicles – Interior Fittings – Specifications for other than M1 category vehicles
10.	AIS-058 (Part1) Amd. No. 1  AIS-058 (Part 2)	Protective Helmets for Motor Cycle Riders.  Visors of Protective Helmets for Motorcycle Riders - Specification
11.	AIS-072	Approval of Restraining Devices for Child Occupants of Power-Driven Vehicles (“Child Restraint System”)
12.	AIS-095	Requirements for Metallic Fuel Tanks of Automotive Vehicles
13.	AIS-096	Requirements for Behavior of Steering Mechanism of a Vehicle in a Head-on Collision
14.	AIS-097	Procedure for Determining the "H" Point and the Torso Angle for 50 <sup>th</sup> Percentile Adult Male in Seating Positions of Motor Vehicles
15.	AIS-098	Requirements for the Protection of the Occupants in the event of an Offset Frontal Collision
16.	AIS-099	Approval of Vehicles with regards to the Protection of the Occupants in the event of a Lateral Collision
17.	AIS-104	Technical Requirements of Fuel Tanks for Agricultural Tractors

<b>CD 6</b>		<b>PRICE</b>
<b>AUTOMOTIVE INDUSTRY STANDARDS ( AISs) Code of Practice for Bus Body / Truck Cabs, Truck Bodies &amp; Trailers Design and Approval</b>		<b>Rs.1500.00 (Within India) US\$ 75.00 (Overseas)</b>
<b>Sr. No.</b>	<b>AIS No.</b>	<b>Title</b>
1.	AIS-052 (Revision 1)	Code of Practice for Bus Body Design and Approval
2.	AIS-056	Automotive Vehicles - Methods of Enhancing Comfort in Rider Cabin
3.	AIS-063 Amd. 1	Requirements for School Buses
4.	AIS-068 Amd. 1	Requirements for Windows fitted on Buses
5.	AIS-093	Code of practice for construction and approval of truck cabs, truck bodies and trailers

<b>CD 7</b>		<b>PRICE</b>
<b>AUTOMOTIVE INDUSTRY STANDARDS ( AISs)</b> <b>Miscellaneous Testing</b>		<b>Rs.1500.00 (Within India)</b> <b>US\$ 75.00 (Overseas)</b>
<b>Sr. No.</b>	<b>AIS No.</b>	<b>Title</b>
1.	AIS-003 / 1999 (Incorporating Amd. 1 & 2) Amd. 3/ May 2002	Automotive Vehicles - Starting Gradeability - Method of Measurement and Requirements. (Incorporating Amendment No. 1 / September 1999 and Amendment No. 2 / September 2000).  Amend. No. 03 / May 2002.
2.	AIS-018/ 2001 Amd. No.1 Amd. No.2	Automotive Vehicles - Speed Limitation Devices – Specifications.
3.	AIS-020	Automotive vehicles – Interior Noise – Method of Measurement and Requirements
4.	AIS-042	Agricultural Tractors – Steering Efforts Requirements
5.	AIS-055	Automotive CNG / LPG Vehicles – Test Method to Evaluate the Range.
6.	AIS-059	Automotive Vehicles – Recording Equipment in Road Vehicles (Tachograph)
7.	AIS-065 Amd. 1	Statutory Plates and Inscriptions for Motor Vehicles, their Location and Method of attachment – Vehicle Identification Numbering System.
8.	AIS-070	Requirements of Temporary Cabin for Drive-Away-Chassis Configuration / Vehicles

<b>CD 8</b>		<b>PRICE</b>
<b>AUTOMOTIVE INDUSTRY STANDARDS ( AISs)</b> <b>Safety and Procedural Requirements for Type Approval of CNG operated Vehicles ( Version 3)</b>		<b>Rs.1500.00 (Within India)</b> <b>US\$ 75.00 (Overseas)</b>
<b>Sr. No.</b>	<b>AIS No.</b>	<b>Title</b>
1.	AIS-024 (Version 3) Amd. 2, 3, 4 & 5	Safety and Procedural Requirements for Type Approval of CNG operated Vehicles.
2.	AIS-028 (Version 3)	Code of Practice for use of CNG Fuel in Internal Combustion Engine Vehicles.



<b>CD 9</b>		<b>PRICE</b>
<b>AUTOMOTIVE INDUSTRY STANDARDS ( AISs)</b> <b>Safety and Procedural Requirements for Type Approval</b> <b>of LPG operated Vehicles ( Version 3)</b>		<b>Rs.1500.00 (Within India)</b> <b>US\$ 75.00 (Overseas)</b>
<b>Sr. No.</b>	<b>AIS No.</b>	<b>Title</b>
1.	AIS-025 (Version 3) Amd. 2, 3, 4 & 5	Safety and Procedural Requirements for Type Approval of LPG operated vehicles.
2.	AIS-026 (Version 3)	Code of Practice for use of LPG Fuel in Internal Combustion Engine to Power 4 Wheeled Vehicles.
3.	AIS-027 (Version 3)	Code of Practice for use of LPG Fuel in Internal Combustion Engine to Power 2 & 3 Wheeled Vehicles.

<b>CD 10</b>		<b>PRICE</b>
<b>AUTOMOTIVE INDUSTRY STANDARDS ( AISs)</b> <b>Battery Operated Vehicles</b>		<b>Rs.1500.00 (Within India)</b> <b>US\$ 75.00 (Overseas)</b>
<b>Sr. No.</b>	<b>AIS No.</b>	<b>Title</b>
1.	AIS –038	Battery Operated Vehicles – Requirements for Construction and Functional Safety
2.	AIS-039	Battery Operated Vehicles – Measurement of Electrical Energy Consumption
3.	AIS-040	Battery Operated Vehicles – Method of Measuring the Range
4.	AIS-041	Battery Operated Vehicles – Measurement of Net Power and the Max. 30 Min. Power
5.	AIS-048	Battery Operated Vehicles – Safety Requirements of Traction Batteries
6.	AIS-049	CMVR Type Approval for Battery Operated Vehicles
7.	AIS-102(Part 1) Amd. 1	CMVR Type Approval for Hybrid Electric Vehicles
8.	AIS-102(Part 2)	CMVR Type Approval for Hybrid Electric Vehicles of M and N Category with GVW > 3500 kg

<b>CD 11</b>		<b>PRICE</b>
<b>AUTOMOTIVE INDUSTRY STANDARDS ( AISs)</b> <b>Automotive Rubber Components</b>		<b>Rs.1500.00 (Within India)</b> <b>US\$ 75.00 (Overseas)</b>
<b>Sr. No.</b>	<b>AIS No.</b>	<b>Title</b>
1.	AIS-066	Guidelines for Analysis of Automotive Rubbers by Fourier Transform Infra-red Spectrometry (FTIR) and Thermogravimetry (TGA) Techniques
2.	AIS-077	Specification for Automotive Timing Belts
3.	AIS-078	Specification for Automotive V-Belts

4.	AIS-079	Procedure for Performance Evaluation on Rubber to Metal Bonded Components
5.	AIS-080	Procedure for Evaluation of Rubber Bushing Components
6.	AIS-081	Classification and Test Requirements for Automotive Rubber Gaskets
7.	AIS-082	Requirements for IC Engine Coolant Hoses
8.	AIS-085	Automotive Vehicles - Weather Strips – Specification
9.	AIS-086	Specification for Oil Seals and ‘O’ Rings for Automotive Application
10.	AIS-087	Guidelines for Analysis of Electromeric Sound Deadner (Under Seal) Silencer

<b>CD 12</b>		<b>PRICE</b>
<b>AUTOMOTIVE INDUSTRY STANDARDS ( AISs)</b>		<b>Rs.1500.00 (Within India)</b>
<b>Agricultural Tractors</b>		<b>US\$ 75.00 (Overseas)</b>
<b>Sr. No.</b>	<b>AIS No.</b>	<b>Title</b>
1.	AIS-105	Requirements of Ballast Mass for Agricultural Tractors
2.	AIS-106	Requirements of Load Platforms of Agricultural Tractors
3.	AIS-107	Requirements of Driver’s Field of Vision for Agricultural Tractors
4.	AIS-111	Requirements of Attendant’s Seats of Agricultural Tractors
5.	AIS-114	Agricultural Tractors - Rear View Mirrors - Installation Requirements
6.	AIS-115 (Part 1)	Driver-Perceived Noise Level of Agricultural Tractors - Method of Measurement
7.	AIS-115 (Part 2)	Permissible Sound Level at Bystander of Agricultural Tractors - Method of Measurement
8.	AIS-116	Maximum Design Speed of Agricultural Tractors

## List of other Publications

<b>MoSRT&amp;H/CMVR/TAP-115/116 : Issue No. 3 (CD)</b> <b>Document on Test Methods, Testing Equipment and Related Procedures For Testing Type Approval and Conformity of Production (COP) of Vehicles For Emission as per Rules 115, 116 and 126</b>	<b>PRICE</b> <b>Rs.1500.00 (Within India)</b> <b>US\$ 75.00 (Overseas)</b>
---	--

<b>: Abstract :</b>
<p>This document prescribes the test method, testing equipment and other related procedure for the purpose of testing motor vehicles for verifying compliance to Rule 115 and 126A of CMVR for Type Approval and Conformity of Production. This document covers Bharat Stage-I,II &amp; III norms for 2-wheeler, 3-wheeler and motor cars and diesel engines wherever applicable, Trem-II and Trem-III norms for agriculture and emission norms for construction equipment vehicles. [Concerned G.S.R. Notification nos. are 493(E), 77(E), 284(E), 286(E), 675(E), 788(E), 853(E), 83(E), 686(E), 720(E)]. This also contains the total procedure for checking of the in-service vehicles for idling CO/HC for vehicles fitted with petrol / CNG / LPG engines or free acceleration smoke for vehicles fitted with diesel engines.</p> <p>The emission regulation limits will be as notified by MoRTH under CMVR from time to time.</p> <p>Amend. No.1 Amend. No.2 Amend. No.3 Amend. No.4</p>

<b>Gazette Notifications (CD)</b>	<b>PRICE</b> <b>Rs.1500.00 (Within India)</b> <b>US\$ 75.00 (Overseas)</b>
-----------------------------------	--

In this CD GSR are included and mostly all are related to automobile field. These GSR are from MoRTH, Ministry of Shipping, Road Transport and highways
---

## **Automotive Abstracts**

ARAI is publishing **Automotive Abstracts, a monthly periodical**. It is the only Indian periodical, which guide you recent research and development in the Automobile sector since 1975.

Abstracts of articles published in most of the leading international journals related to Automotive Technology are included every month. Regular survey of technical papers presented at the International symposia such as SAE, IMechE, SIAT, etc. is carried out and abstracts of the relevant papers are published from time to time. From April 2009, we are publishing **refresh issue** of Automotive Abstracts by improving its contents and presentation. It includes Autonews, Technoscan, IPR scan, Forthcoming Events etc.

From this year we have started E-version of the Automotive Abstracts.

The annual subscription rate for Automotive Abstracts for the subscription period April to March is as follows:

- Rs.1800/- for Print Version (Within India)
- Rs. 2500/- for E-version (Print + Soft copy) (Within India)
- US \$ 90 for E-version (Print + Soft copy) (Overseas)