



The Federation of Motor Sports Clubs of India

2018

**Technical Regulation
for
RS-I (Rallying)**

Member of



Federation Internationale
de l' Automobile



Federation Internationale
de Motocyclisme



Indian Olympic Association

2018 Specific Technical Regulations for RS-I Rallying

The Following Articles of 2018 FMSCI Appendix J is applicable

Article.251 – Classification and Definitions

Article.252 – General Prescriptions for Production Cars (Group N), Touring Cars (Group A)

Article.253 – Safety Equipment (Groups N,A)

Article.254 – Specific Regulations for Production Cars (Group N)

Article.255 – Specific Regulation for Touring Cars (Group A)

It is permitted to use after market replacement parts as long as such parts are in conformity with the homologated parts (including of Optional Variants in Group N) in ALL ASPECTS except the brand name. Such parts should have no additional functions relative to the original parts.

Series Part (SP)

Series Part being original parts or replacement parts identical to the original parts as fitted to the car / engine at the time of manufacture or subsequently replaced due to use or accident. All such parts shall be available through the original car manufacturer's dealer network. All relevant specifications shall be referenced from the manufacturers' official data or applicable FIA/FMSCI homologation form or TDF form.

Free Part (FP)

Free Part being parts that may be freely sourced. Such parts may be removed or replaced with another part on condition that the substitute part has no additional function relative to the part it replaces. These parts may have other conditions imposed under these technical regulations.

Eligibility of Cars

Cars sold by authorized dealers on or after 01/01/2010 in India.

For Eg. Mithubishi Cedia was sold from 2006 to 2011 so it is eligible for this class.

Only vehicles with Homologation / TDF (Technical Data Form) are allowed.

1.1 Engine

Re boring of 0.5mm maximum is allowed in relation to the original bore without this leading to the capacity class limit being exceeded.

2.1 Piston

Free part

The distance between Gudgeon Pin centre to Top of the Piston should remain as per Homologation / TDF.

Forged Piston allowed.

Minimum weight of the piston remains as per Homologation / TDF.

3.1 Compression Ratio

The Compression Ratio may be modified, If the car is homologated with higher rate, It must be modified so as not to exceed 11 : 1.

Planning of the Cylinder head is allowed to achieve Compression Ratio.

4.1 Cylinder Head

Cylinder head Porting is allowed but adding of materials is not allowed.

5.1 Connecting Rod

Modification of Connecting Rod / Cylinder Block is permitted to provide Oil Squirters (Directed at the under side of the Piston).

6.1 Gasket

Free

7.1 Camshaft

Standard as per Homologation / TDF
Adjustable CAM pulley is permitted.

8.1 Lubrication

The fitting of an oil radiator outside the bodywork is only allowed below the horizontal plane passing through the hub in such a way that it does not protrude beyond the general perimeter of the car seen from above as it stands on the starting line, without modifying the bodywork.

Fitting an oil radiator in this manner does not allow the addition of an enveloping aerodynamic structure.

The fitting of baffles in the oil sump is authorized.

9.1 Intake Manifold

Free

But the Mounting points of the Intake Manifold should be same as OE.

Fitment dose not entail the modification of other components, (Ex. Fire wall & Bonnet)

10.1 Throttle Body

Numbers has to be same as Homologation / TDF.

Diameter of the Throttle Valve must be Homologation/TDF.

Vehicle equipped with Motorized Throttle body may change to mechanical Throttle body vise versa.

11.1 Exhaust

Free

Fitment dose not entail the modification of other components.

The Exit of the Exhaust pipe shall be at the Rear of the Car below the Bumper.

The noise level must respect the stated maximum prescribed by the ASN where the car competes.

12.1 Gear Box

Gear Box housing must be Homologation/TDF

Gear Ratios Free, Synchronized or Non Synchronized (Dog Box)

Final Drive Ratio Free

Mechanical type Limited Slip Differential (LSD) is authorized provide that it can be fitted in series Housing.

Gear selecting Grid pattern on series model be retained.

Welding and Adding of Materials not allowed.

13.1 Electronic Control Unit (ECU)

Free Part

Modification of the Wiring Harness must be within 10 inches from ECU connector.

Additional Sensors and Actuators not permitted.

14.1 Roll Cages:

Cold drawn seamless unalloyed carbon steel tube (Containing a maximum of 0.3% of carbon) with a minimum tensile strength of 350 N/mm²

The minimum dimensions being 45mm X 2.5mm or 50mm X 2mm.

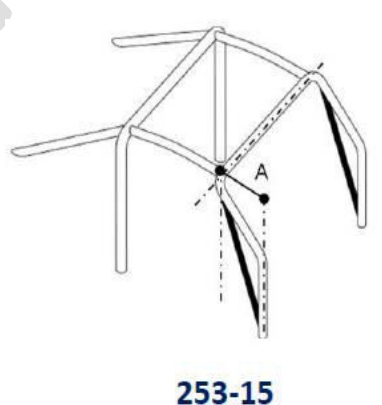
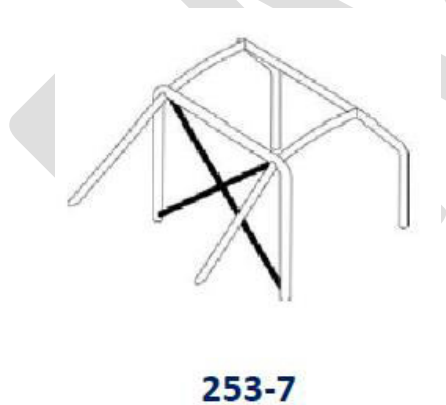
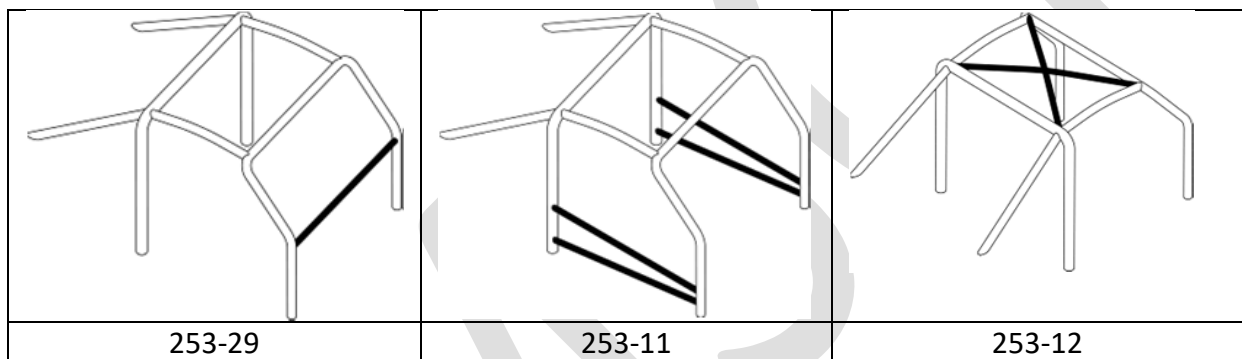
The basic minimum structural requirement as per Drawing 253-29 with side impact bars as in Drawing 253-11 and reinforcement Drawing as in 253-12

It must be fitted on each side of the front rollbar if dimension "A" is greater than 200 mm (Drawing 253-15).

It may be bent on condition that it is straight in side view and that the angle of the bend does not exceed 20°.

Its upper end must be less than 100 mm from the junction between the front (lateral) rollbar and the longitudinal (transverse) member (see Drawing 253-52 for the measurement).

Its lower end must be less than 100 mm from the (front) mounting foot of front (lateral) rollbar.

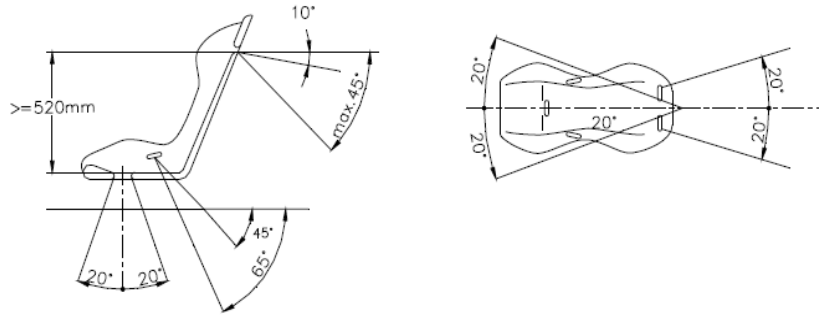


15.1 Seat Belt Installation

It is prohibited for the seat belts to be anchored to the seats or their supports.

A safety harness may be installed on the anchorage points of the series car.

The recommended geometrical locations of the anchorage points are shown in Drawing 253-61.



253-61

In the downwards direction, the shoulder straps must be directed towards the rear and must be installed in such a way that they do not make an angle of more than 45° to the horizontal from the upper rim of the backrest, although it is recommended that this angle does not exceed 10°. The maximum angles in relation to the centerline of the seat are 20° divergent or convergent (the shoulder straps may be installed crosswise symmetrically about the centerline of the front seat).

16.1 Bonnet Vents

- Only two vents on each side of the bonnet are allowed.
- Single vent or center vent are not allowed.
- Maximum area of 310 sq cm is allowed for each vent.

Note : Other than the modifications permitted expressly above should follow 2018 Group N Technical Regulations FMSCI.