



The Federation of Motor Sports Clubs of India

2016
FMSCI 4 Wheeler Technical Regulations
(Indian Junior Touring Cars)



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2016 Specific Technical Regulations for Indian Junior Touring Car (IJTC)

The following Articles of 2014 FIA Appendix J is applicable

Art.251 – Classification and Definitions

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

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

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

Changes to the above Articles specific to 2015 Indian Junior Touring Car are reproduced below:

- 1) Maruti 1000 and Maruti Esteem cars shell and fitted with Maruti Esteem MPFI engines only.
- 2) Maruti Zen, Esteem and Swift Blocks may be used as long as the same dimensions of the homologated Esteem block are maintained.
- 3) All safety equipment that is used - seats, seatbelts, helmet, gloves, balaclava, shoes to be FIA homologated.
- 4) The minimum weight of all India Junior Touring Cars will be cc divided by a constant which is **1.55 WITH DRIVER (i.e. 1298 / 1.55 which is 837kgs rounded down to nearest kg)**. This is the real weight of the car WITH DRIVER (without persons or luggage aboard) without tools, jack. All the liquid tanks (lubrication, cooling, braking, heating where applicable) must be at the normal level foreseen by the manufacturer, with the exception of the windscreen wiper.
- 5) A fabricated shield may be incorporated in place of the AC condenser.
- 6) ENGINE CONTROL UNIT: Free including wiring

- 7) Fuel Tank and Pump: Only Maruti Esteem MPFI Fuel Tank (see picture below) and MPFI Fuel Pump Assembly is permitted



- 8) The Engine and Gear box mountings are Free provided the number of mounts and location remain as homologated.
- 9) Exhaust : FREE. (Exhaust manifold to the exit is free.) However the exhaust ports in the cylinder head should remain as provided by the manufacturer. The location of the exit of the exhaust pipe is free. The exhaust system must not be provisional. Exhaust gases may only exit at the end of the system. These liberties must not entail any bodywork modifications.
- 10) Fuel Purge Canister and the Resonator Box may be removed
- 11) Clutch : Only OE Components permitted.
- 12) Gear box : Only Maruti Esteem MPFI Gear Ratios are permitted
- 13) Differential : The use of mechanical type Limited Slip Differential is authorized provided that it can be fitted in the series housing.
- 14) Suspension:
Body shell, Shock Absorber and /or Spring Turrets/Perches shall not be modified in any manner. (Except addition of a plate for reinforcement of area)
Droop Changes shall be achieved only through Shock absorber length. No special purpose shims and spacers may be used
Shock absorbers free but only bump and rebound adjustment permitted on shock absorbers (ie 2 way adjustable only)
Cockpit and / or Remote control of shock absorbers is not permitted. Shocks with canisters allowed.
Springs AND RIDE HEIGHT IS FREE.

Ground clearance must be such that the bodywork does not touch the ground when two tyres on the same side of the car are deflated with driver on board.

OE SHOCKS AND SPRINGS may be self modified by length changes, valve modifications, change of grade of oil used.

Spring Rating is FREE.

Shock Absorber Suspension bushes are free

Reinforcement bars may be fitted on the suspension mounting points (both top and bottom) to the bodyshell or chassis of the same axle, on each side of the car's longitudinal axis, on condition that they are removable and are attached by means of bolts.

15) Wheels:

The Wheels are free, respecting the homologated maximum diameter. One inch oversize width from the homologated maximum width will be permitted, provided the entire contour of wheels form within the coach work / body work of the car.

Where permitted over size width tyres are used, the Maximum Track Width as per Art.207 of the Homologation Form shall read as

Front – 1395 mm

Rear – 1370 mm

16) Spare wheel must be removed.

17) Braking System : No modification is permitted.

18) Handbrake : Fly off handbrake is permitted.

19) Exterior:

A fabricated shield may be incorporated in place of an AC condenser.

Hubcaps must be removed.

The bumpers, body skirts, OE spoilers, fog lamps, head lights & front bonnet & fenders and mesh of Maruti Esteem Type 1, Type 2 or Type 3 may be interchanged or used. Front grill mesh may be modified.

20) Dashboard: The dashboard may be removed

21) Doors : Bonnet and boot lid / doors except the driver's side door may be replaced with fibre glass in order to comply with the minimum weights. Door pads and all insulating material may be removed.

22) Floor: Carpets are free and may thus be removed.

23) Headlight maybe removed and the area covered with a plate/panel.

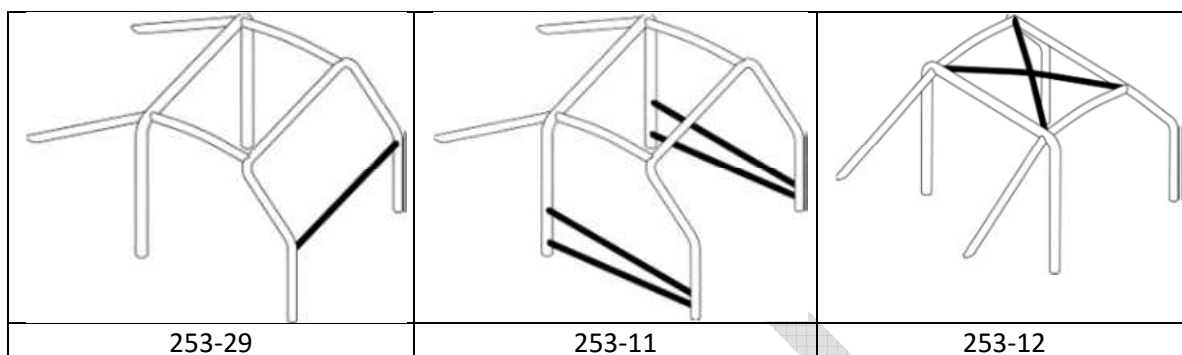
24) Additional fuel pump CANNOT be fitted.

25) Only Petrol to be used. No top fuels to be used. No Nitrous oxide or other injectable gasses permitted.

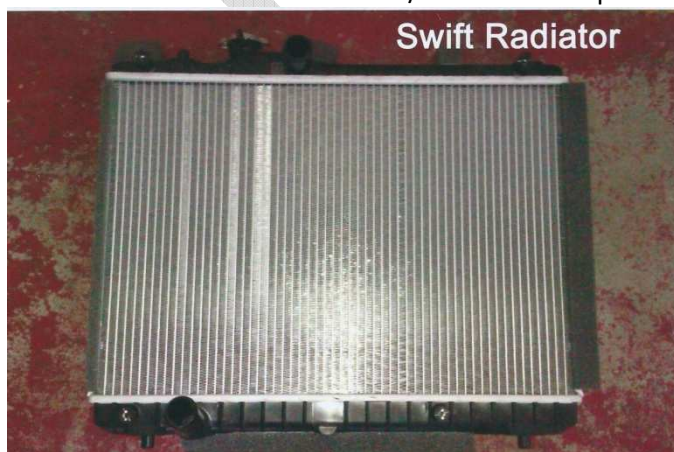
26) Roll Cages:

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 roof reinforcement Drawing as in 253-12



- 27) Seat Belt : Minimum required is a five point harness and following the technical drawings regarding mounting points (Article 253 – 42 to 45, 52 and 53 of Appendix J – FIA Regulations)
- 28) Fire Extinguishers to be rigidly fastened with a quick release clamps (minimum 2 nos.) fitted in an easily accessible and a visible position. The mounting bracket of the fire extinguisher must be bolted to the floor with a bolt of minimum 10 mm diameter
- 29) Side and Rear Windows : The use of transparent or colourless anti shatter film on the side windows is mandatory.
- 30) The components relating to the A/C and Heating may be removed so long as the homologated nominated weight of the car is maintained.
- 31) **Reinforcement of Aprons (Front)** It is permitted to add a member between the front aprons above and below the front cross member (the front jacking point) provided it is removable and mounted only by means of bolt & nuts.
- 32) **Steering** : Power assisted Steering Assembly may be removed and replaced with non-power assisted Steering Assembly. All modifications required for fitment of manual steering assembly is permitted.
- 33) Use of Maruti Swift Radiator with / without fan is permitted.





34) Material and diameter of water pump pulley and Engine Drive pulley are Free.

35) Restrictor

- i) All engines will be fitted with a Air Restrictor
- ii) Restrictor with the adaptor will be supplied by the FMSCI. All restrictors will be sealed at the time of Pre-event Scrutiny after verifying the Restrictor size.
- iii) Restrictor size : 30 mm

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