

2013 Technical Regulations for

Indian Junior Touring Car

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2013 FMSCI Technical Regulations 4W – Indian Junior Touring Car

Specific Regulations for Indian Junior Touring Car

Classification & Definitions, General Prescriptions

and Safety Equipment

ARTICLE 1: DEFINITION

Large scale series production touring cars;

1 : Maruti Esteem cars fitted with Maruti Esteem MPFI engines only .Zen, Esteem and Swift Blocks may be used as long as the same dimensions as the Esteem block are maintained.

Group n regulations for all parameters of the engine will apply.

ARTICLE 2:

All safety equipment that is used - seats, seatbelts, helmet, gloves, balaclava, shoes to be FIA certified .

ARTICLE 3: MODIFICATIONS AND ADJUNCTIONS ALLOWED OR OBLIGATORY

All the modifications which are not allowed by the present
Regulations are expressly forbidden.

ARTICLE 4: MINIMUM WEIGHT

The minimum weight of all India Junior Touring Cars as well as the diesel class cars will be cc divided

by a constant which is 1.65

WITH DRIVER. 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 .

ARTICLE 5:

Piston can be a maximum of +.02 mm above deck level. There is no additional tolerance.

-Engine shields made of plastic material, the purpose of which is to hide mechanical components in the engine compartment, may be removed if they have a solely aesthetic function.

-The accelerator cable may be replaced or doubled by another one regardless of whether it comes from the manufacturer or not.

-The screws and bolts may be changed, provided that the replacements are made from ferrous material.

-Ignition: The make and type of the spark plugs and high-tension leads are free.

-Cooling system: The thermostat is free, as is the control system and the temperature at which the fan cuts in.

Locking system for the radiator cap is free.

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

-ENGINE CONTROL UNIT : FREE

Removal of all elements between Air Filter Box and Resonator is permitted. Any ducting may be added to the front of the entry point of the air filter and must be within the Engine Compartment.

-Fuel Pumps: ORIGINAL MARUTI ESTEEM MPFI FUEL PUMPS ONLY

-Lubrication: The fitting of baffles in the oil sump is authorised.

Replacement oil filter cartridges are accepted in the same way as the original ones.

-The material of the elastic part of the engine and gearbox mountings is free, but not the number of mountings.

-Exhaust:

FREE

6.2 Transmission :

6.2.1) Clutch:

Only OE Components permitted.

6.2.2) Gearbox:

ONLY MARUTI ESTEEM MPFI GEAR RATIOS ARE PERMITTED. for reference only :
3.14 ,1.89,1.28,0.914, 0.758 and FD 3.524

6.2.3) Differential: ANY LSD CAN BE FITTED.

6.2.4) Half-shafts:

Only Original Equipment Shafts is permitted.

6.3 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 Shockabsorber length. No special purpose shims and spacers may be used

Shockabsorbers free but only bump and rebound adjustment permitted on shockabsorbers (ie 2 way adjustable only)

Cockpit and / or Remote control of shockabsorbers 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

OE SHOCKS AND SPRINGS may be self modified by length changes , valve modifications, change of grade of oil used ,
spring Rating is FREE

6.4 Wheels and tyres

6.4.1) 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.

6.4.2) Tyres:

Single Make Tyres specified by the organizers.

6.4.3) Spare wheel:

The spare wheel shall not be carried in the car even as a ballast.

6.5 Braking system

No modification permitted

6.5.1) Handbrake:

Fly-off hand brake is permitted.

6.6 Bodywork

6.6.1) 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.

6.6.2) Interior :

The front seats may be moved backwards but not beyond the vertical plane defined by the front edge of the original rear seat.

The limit relating to the front seat is formed by the height of the seat without the headrest, and if the headrest is incorporated into the seat, by the rearmost point of the driver's shoulders.

The rear seats may be removed.

The rear safety belts may be removed.

6.6.2.1) Dashboard:

The dashboard MAY BE REMOVED

6.6.2.2) Doors

BONNET AND BOOT /REAR DOOR EXCEPT THE DRIVERS SIDE DOOR MAY BE REPLACED WITH FIBREGLAS DOORS , BONNET AND BOOT LID.-IN ORDER TO COMPLY WITH THE MINIMUM WEIGHTS.

6.6.2.3) Floor

Carpets are free and may thus be removed.

6.6.3) Additional accessories:

All those which have no influence on the car's behaviour, for example equipment which improves the aesthetics or comfort of the car interior (lighting, heating, radio, etc.), are allowed without restriction.

In no case may these accessories increase the engine power or influence the steering, transmission, brakes, or roadholding, even in an indirect fashion.

All controls must retain the role laid down for them by the manufacturer. They may be adapted to facilitate their use and

accessibility, for example a longer handbrake lever, an additional flange on the brake pedal, etc.

The following is allowed:

- 1) Measuring instruments such as speedometers etc. may be installed or replaced, and possibly have different functions. Such installations must not involve any risk.
- 2) The handbrake locking mechanism may be removed in order to obtain instant unlocking (fly-off handbrake).
- 3) The steering wheel is free.

The locking system of the anti-theft steering lock may be rendered inoperative.

- 4) Additional compartments may be added to the glove compartment and additional pockets in the door pads.
- 5) Insulating material may be added to the existing bulkheads to protect the passengers from fire.

6.6.4) Reinforcements :

Reinforcement bars may be fitted on the suspension mounting points 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.

6.7 Electrical system

-Battery: The make, capacity, and battery cables are free. The tension and the site of the battery must be retained.

-Generator: May be replaced by a more powerful one. A dynamo may not be replaced by an alternator and vice-versa.

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

-Fuses may be added to the electrical system.

6.8 Fuel circuit

Additional fuel pump CANNOT be fitted.

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

ARTICLE 7: 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 253-3 and FMSCI Regulations 2011.

ARTICLE 8: Seat Belts

Minimum required is a four point harness and following the technical drawings regarding mounting points (Article 253 – 42 to 45, 52 and 53 of Appendix J – FIA Regulations)

ARTICLE 9: Fire Extinguishers

Fire Extinguishers to be rigidly fastened with a quick release clamp
FITTED IN AN EASILY ACCESSIBLE AND A VISIBLE POSITION.
Specifications -as per FMSCI Regulations
As per FMSCI Regulations 2011

ARTICLE 10: Side and Rear Windows

The use of transparent or colourless anti shatter film on the side windows is mandatory.

ARTICLE 11: Laminated Windshield

Laminated windshield is mandatory.

ARTICLE 12: Presentability of Cars

All cars taking the ramp should be presentable in appearance.

ARTICLE 13: A/C and Heating

The components relating to the A/C and Heating may be removed so long as the homologated weight of the car is maintained.

ARTICLE 14: Reinforcement of Aprons (Front)

It is permitted to add a member between the front aprons above the front cross member (the front jacking point) provided it is removable and mounted only by means of bolt & nuts.

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