

**2008 Technical Regulations
Specific Regulations for Rally Star Cup
Classification & Definitions, General Prescriptions and Safety
Equipment**

With effect from January 2008

All matters regarding the above, not specifically covered by these Regulations should be read as per MAI Regulations I, II, III and IV - 2008.

ARTICLE 1: DEFINITION

Large scale series production touring cars; Maruti Esteem 1300cc carburetted versions only.

ARTICLE 2: HOMOLOGATION

Maruti Esteem 1300cc carburetted versions only. Type I and Type II. The brakes, steering and engines and / or their internal components could be freely interchanged in the different models of the Maruti Esteem (Type I / Type II) applicable to carburetted versions only.

ARTICLE 3: NUMBER OF SEATS

The rear seats may be removed.

SEATS WITH HEAD RESTS ARE MANDATORY

-FIA HOMOLOGATED SEATS ARE RECOMMENDED

THE TECHNICAL DELEGATE IS THE FINAL AUTHORITY ON THE CONDITION AND SAFETY OF THE SEATS USED

ARTICLE 4: MODIFICATIONS AND ADJUNCTIONS ALLOWED OR OBLIGATORY

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

The only work which may be carried out on the car is that necessary for its normal servicing, or for the replacements of parts worn through use or accident.

The limits of the modifications and fittings allowed are specified hereinafter.

Apart from these, any part worn through use or accident can only be replaced by an original part identical to the damaged one. **(No abrasive**

material may be used, which may cause a change to the surface finish of engine components (e.g. cylinder head ports, exhaust and inlet manifolds, pistons, connecting rods, cylinder head combustion chambers, carburetors, valves, and valve guides) - the finish of the component should be as supplied by the manufacturer.)

Blue printing of engines is not permitted.

However it is permitted to machine the following parts.

1). It is permitted to machine the gasket plane of the cylinder block, so long as Article 311 and Article 317 of the homologation form is respected.

2). It is permitted to machine the gasket plane of cylinder head, so long as Article 309 of the homologation form is respected. The finish of the combustion chamber should be as supplied by the manufacturer.

The cars must be strictly series production models identifiable by the homologation form data.

ARTICLE 5: MINIMUM WEIGHT

The minimum weight of all Maruti Esteems will be 770kg.

This is the real weight of the empty car (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, which shall be empty.

Additional headlights which do not appear on the homologation form must be removed before weighing.

(As per MAI Regulations 2007)

As far as rollcages which cannot be removed from the car, and which were manufactured in accordance with MAI Technical Regulations Group N – III Articles 8.2 and 8.3, are concerned, the following weights will be taken as a basis:

- Rollcage according to drawings 253-3/4: 30 kg
- Rollcage according to drawings 253-5 to 17C: 35 kg

ARTICLE 6:

6.1 Engine

- **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.

- **Carburettors: The original system must be retained.**

The components of the carburettor which control the quantity of petrol entering the combustion chamber may be modified, provided that they do not have any influence over the quantity of air admitted.

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

- **Fuel Pumps:** A secondary fuel pump may be fitted for which the electrical wiring is free.

- **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:**

It will be possible either to remove the inside of the original silencer, or to modify the exhaust from the first silencer to the exit, the maximum dimensions of the duct being those of the pipe situated upstream of the first silencer.

Should two inlets exist in the first silencer, the section of the modified duct must be less than or equal to the total of the two original sections.

Only one pipe may be present at the exit, unless the original part is used.

The exit should be situated in the same position as that of the series production exhaust system.

These liberties must not entail any bodywork modifications and must respect the laws of the country in which the event is run with regard to noise levels.

Additional parts for the mounting of the exhaust are authorised.

The catalytic converter is considered as a silencer.

(As per MAI Regulations 2008)

6.2 Transmission

6.2.1) Clutch:

Only OE Components permitted.

6.2.2) Gearbox:

No modifications permitted

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6.2.3) Differential:

MAI Rally Star Cup approved Differential Gear cages are permitted.

4 – Pinion Differential case is permitted, so long as it fits in the original housing. Locking methods of the differential pin is free.

6.2.4) Half-shafts:

Only original Equipment or MAI Rally Star Cup approved Half Shafts is permitted.

6.3 Suspension

The reinforcing of the structural parts of the suspension (with the exception of anti-roll bars) and its anchorage points by the addition of material is allowed.

- Springs:

Original Equipment or MAI Rally Star Cup approved components are permitted.

- Shock absorbers:

OE SUSPENSION AS SUPPLIED BY THE MANUFACTURER

OR

KONI SHOCK ABSORBERS (STRUTS) ARE PERMITTED

FRONT – SUZUKI SWIFT - KONI SPORT – (YELLOW IN COLOR – ADJUSTABLE) PART NUMBER – 86 – 2588 (INSERTS)

REAR - SUZUKI SWIFT – KONI SPORT–(YELLOW IN COLOR – ADJUSTABLE) – PART NUMBER – 87 - 2429

NO MODIFICATIONS ARE PERMITTED ON THE KONI SHOCK ABSORBERS

OR

MAI APPROVED SHOCK ABSORBERS

- Spacers:

The use of spacers for the front and rear suspension is allowed so long as it forms a part of the strut and the mounting points of the strut remain unchanged (the spacer can not be a separate component) provided:

Front Strut spacer (for increasing ride height) - maximum 25mm

Rear Strut Spacer (for increasing ride height) - maximum 25mm

6.4 Wheels and tyres

6.4.1) *Wheels:*

The wheels are free, **respecting the homologated maximum diameter and maximum width.** They must be covered by the wings and the maximum track given on the homologation form must be respected. (801a and 801b)

6.4.2) *Tyres:*

Tyres are **FREE** provided they are made in India and can be fitted on those wheels. These tyres must have the words '**Made in India**' as part of the original mould with the words visible on the tyres. OR a tyre can be an OE component supplied by a vehicle manufacturer in India.

The tyre should be freely available.

The use of any device for maintaining the performance of the tyre with an internal pressure equal to or less than the atmospheric pressure is forbidden. The interior of the tyre (space between the rim and internal part of the tyre) must be filled only with air.

6.4.3) Spare wheel:

The spare wheel is mandatory

The spare wheel may be brought inside the driving compartment, on condition that it is firmly secured there and that it is not installed in the space reserved for the occupants.

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 fitting of underbody protections is authorised in rallies only, provided that these really are protections which respect the ground clearance, which are removable and which are designed exclusively and specifically in order to protect the following parts: engine, radiator, suspension, gearbox, tank, transmission, steering, exhaust, extinguisher bottles.

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 must remain original.

6.6.2.2) Doors - Side trim:

The original door pads may be removed and replaced with any door pad / fabricated one.

It is permitted to replace electric winders with manual ones.

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.

- **Lighting system:** Additional headlights including the corresponding relays are allowed, provided that the total does not exceed eight (tail and parking lights not included) and that this is accepted by the laws of the country.

They may not be housed within the bodywork. Headlights and other exterior lights must always exist in pairs.

The original headlights can be made inoperative and covered with adhesive tape. They can be replaced by other headlights, in compliance with this article.

A reversing light may be fitted provided it can only be used when the gear lever is in the "reverse" position, and provided that the police regulations on this subject are observed.

- **Fuses** may be added to the electrical system.

6.8 Fuel circuit

An additional fuel pump may be fitted.

6.9 Jack

The jacking points may be strengthened, moved and increased in number. These modifications are limited exclusively to the jacking points.

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 MAI Regulations 2008

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 MAI Regulations

As per MAI Regulations 2008

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.