

EFRA 1/8 GT / Rally Game Rules.

DEFINITION of the CAR

GT / Rally Game Class cars are powered by an internal combustion engine with piston and glow plug. Transmission can be on 2 or 4 wheels. They are based on 1/8th Off-road cars, with some changes to adapt them to an on-road track

The overall dimensions of the car are:

The maximum overall length 730mm

Minimum width between 290mm and maximum 310mm

Wheelbase between 270mm and maximum 330mm

Maximum height 340mm, including the wing when the suspension are fully compressed (the chassis leaning on the "floor")

See Figure 1

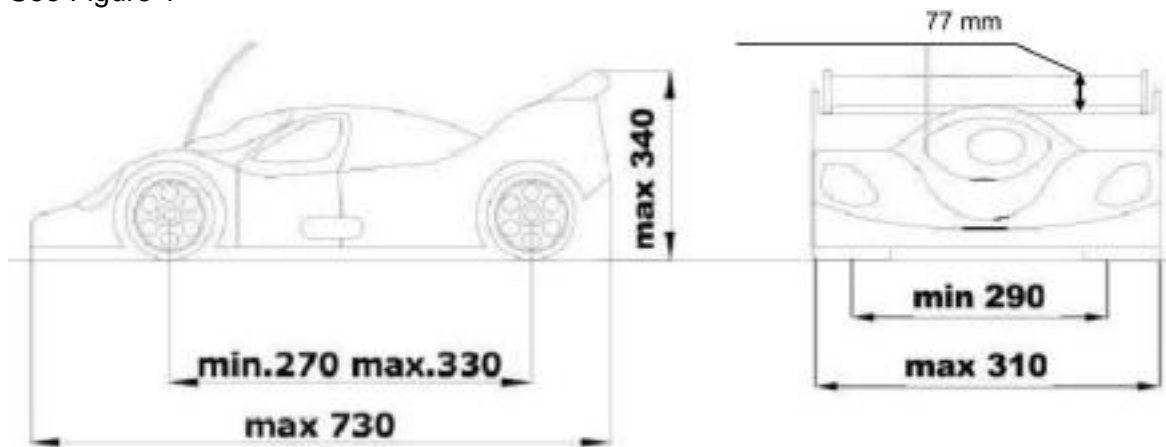


Figure 1

The minimum weight of the car "ready to race", no fuel with the transponder will be :

Cars 4WD: 3.400 kg

Cars 2WD: 3.300 Kg

Transmission:

The transmission can be 2 or 4 wheel drive and must be mechanical (universal joints, belts, chains, etc.)

Allowed is a gearbox with maximum two speed.

It's forbidden to use one-way drive axle

The cars must be equipped with front differential axle and rear differential axle, which cannot be blocked. It's permitted to use a solid axle.

BODY :

All models must be fitted with a 1/8th scale body that is the semi production of a car really existing with the exception of open cockpit cars. Allowed are replica's from ALMS, GT1 or GT2, Super GT, DTM, and V8 Supercar Cars. No homologation required, but EFRA can refuse bodies which are not within the spirit of this class.

The body must be fixed on the integral parts of the chassis.

The bodies must be made of flexible material and painted.
No part of the model can protrude from the body with the exception of the roll bar.

The following openings are allowed:

Opening for exhaust tail (pipe hole not exceeding 8 cm square cm on one side of the body).
Openings for radio antenna (maximum diameter 10mm) , spark plug (maximum diameter 25mm), carburettor (maximum diameter 10mm). The Cooling head of the motor must remain completely inside the body .

One Hole with a diameter of 50mm maximum for refuelling

It is allowed to have one opening in the front and rear with a maximum diameter of 50.0 mm each. Side window on each side can be removed

The windows cannot be folded outwards to get more air to the engine . It is also not permitted to have a system under the body for conveying air inside the body .

All bodies must have the front and rear wheel arches removed.

WING:

The wing must meet the following requirements :

Must be mounted on the body.

Depth: 77 mm maximum , measured parallel to the inclination of the wing ;

Width: 310 mm maximum , measured parallel to the inclination of the wing.

BUMPER :

All models must be equipped with bumpers made of flexible material , with no sharp edges and rounded, so as to minimize the consequences of a possible impact with the model

All models must be mounted on the front bumper a bumper that protrudes from each bumper.

The complete bumper, must remain under the silhouette of the body.

TANK:

The tank can have a maximum capacity of 125.00 ml including filter and hose connection to the carburettor. The capacity of the tank cannot be corrected with the use of moving parts.

Each tank that is measured illegal (ie, with a capacity exceeding 125.0 cm) after a qualification test or a final will not be removed from the model for a second inspection which will be carried out after a cooling period of about 15 (fifteen) minutes if the ambient temperature is above 20 ° C.

FUEL :

The mixture may contain only methanol, nitro methane and lubricating oil with a maximum of 25% nitro and an SG of 0.91.

ENGINE

The engine of the model car will have a total capacity of up to 3.50 cm³.

The car must be fitted with an exhaust silencer system. Only 3 chamber EFRA registered mufflers can be used with EFRA registered INS boxes.

At any time during the race , the noise level will not exceed 82dBA. Measurements as ruled by EFRA. Cars that lose their muffler or part of their muffler system and produce more noise must stop racing. The exhaust tailpipe must be directed towards the roadway or, at best, parallel to it.

BRAKES

Each model car must be fitted with clutch and brake system in such a way that it can be maintained stationary with the engine running

The brake must act on the transmission and must be of the mechanical type
The use of separate brakes on the wheels is not permitted

WHEELS, TIRES

The wheels, front and rear, must have a diameter of 78 mm + / - 2mm
The maximum width of the tire (rim + pneumatic) cannot be more than 43 mm
The tires of cars must be only of black colour and may have lateral writing of different colours
The tires must be from moulded rubber, the pattern is free. Inserts are allowed.
Wheels must use a 17mm hex hub consistent with the dimensions and function of the hubs used in 1/8 off-road racing. The wheel must be fixed by a 17mm wheel nut, threaded on to the hex hub. Quick change mechanisms are not permitted.
No tyre or rim may protrude outside the body.
In all races a controlled tire is mandatory with different/more brands

THE ELECTRICAL / ELECTRONICS

It is not allowed to use any electronic devices with the exception of:
The two radio channels of the receiver which will be used to operate steering, throttle and brakes. A battery to power the receiver with any voltage regulator and the transponder as well as cables, connectors and / or a switch.

Technical Exclusions

Not more than two (2) servos.
It is not allowed the use of additional electronic equipment for the Traction Control or braking (ABS). It is not allowed the use of any active telemetry system.
4 wheel brakes, or independent controlled braking on the front wheels is not allowed.
Liquid cooled engines.
Hydraulic systems.
No body or wheel flares extenders allowed and no Lola, wedge or open cock pit style bodies are allowed.
Carbon fibre chassis are not permitted
Treatment of the tyres with additives is prohibited. Competitors found to be using additives will be disqualified from the event.
No chassis mounted or Buggy/ Truggy type wings allowed

Race format:

The qualifying heats will run for 5 minutes, starting with EFRA staggered start.
A Minimum of 4 Qualifying heats followed by Christmas tree finals. See 1/8th Scale IC track EFRA rules for race format.
A controlled tire will be used, see Organizers website for brand and prices.