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EUROPEAN FEDERATION OF RADIO OPERATED MODEL AUTOMOBILES

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EFRA 1/8th 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 730 mm

Minimum width between 290 mm and maximum 310 mm

Wheelbase between 270 mm and maximum 330 mm

Maximum height 250mm with suspension fully compressed

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

Cars 4WD: 3.400 kg

Cars 2WD: 3.300 Kg

Transmission: Single speed or two-speed only. Single speed configurations must include a solidly mounted spur gear to a standard bevel gear centre differential or a solid spool (no one-way bearing). No other differential types will be permitted.

Two-speed transmissions must use an automatic centrifugal shifting mechanism that is not remotely adjustable or programmable. Because of the nature of the two-speed transmission design, no centre differential is required, but the transmission must include a solid centre shaft that doesn't allow differential action between the front and rear drive assemblies.

Clutch: No special requirements' for the clutch ,except that it should keep the car steady at minimum revs.

Drivetrain: A shaft-drive system with two gear-type open differentials or a system with belts is allowed.

No spools, locking "Torsion-type," or externally adjustable differentials are permitted. The gear diffs can be tuned only with the use of silicone-based fluid.

Identical F/R drive ratios are required – no F/R under drive/overdrive permitted.

A single speed mounted to a centre spool, or an included two-speed transmission are permitted.

Only standard mechanical brakes are permitted – hydraulics are not permitted. Up to two brake discs are permitted anywhere on the centre driveshaft's. Brakes may not be located on the outboard axles.

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.

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The body must be fixed on the moving parts (suspensions or other moving parts.)

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 10 mm), spark plug (maximum diameter 25mm), carburettor (maximum diameter 10 mm). The Cooling head of the motor must remain completely inside the body.

One Hole with a diameter of 50 mm maximum for refuelling

Is allowed an opening 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 size 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 should be noted that illegal (ie, with a capacity exceeding 125.0 cm³) 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 16% nitro and an SG of max 0.87

ENGINE

The engine or engines 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 game, 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 affixed by a 17mm wheel nut, threaded on to the hex hub. Quick change mechanisms are not permitted.

No tyre or rim of the car may protrude outside the body.

Tires must be “production” tires – hand cut tires or those not available to the general public are not permitted. “Available” is defined as having been sold to consumers a minimum of 30 days prior to the official start of the event.

All races must be completed on the same tires used to start each race (qualifying and finals).

Tire changes are not permitted except when a wheel and/or tire are determined by the race director or a EFRA official, to be damaged. Excessive tire wear does not constitute damage

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.

A passive data recording or information system to record functions of the car can only be used up to the end of controlled practice.

It is not allowed the use of additional electronic equipment for the Traction Control or braking (ABS) or that can make a verification of the power transmitted in closed loop. It is not allowed the use of any telemetry system active .

4 wheel brakes. Independent controlled braking on the front wheels is not allowed.

Liquid cooled engines.

Hydraulic systems.

No more than 2-speed transmissions.

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

No wings incorporated/ moulded as part of the body allowed must be mounted the same as 10thscale 200mm.

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.