



I.F.M.A.R. 1/10TH I.C. 200mm NITRO TOURING CAR WORLD CHAMPIONSHIP RULES

1. TECHNICAL SPECIFICATIONS

- 1.1 The class run will be the "200mm NITRO TOURING CAR" which will be 4WD. Only one brake, working on the central power transmission, is allowed. No second or individual brake system(s) for front and/or rear axles or single wheels is allowed.
- 1.2 Maximum 2-speed gearbox allowed.
- 1.3 All cars must have a de-clutching device and have an operating brake capable of stopping the car and holding the car motionless with the engine running.
- 1.4 The use of .12 engines only will be permitted. They shall be air-cooled, with front rotary valve, two-stroke induction. The engines may have a maximum of four (4) ports, including the exhaust port. No form of forced induction is allowed or any form of variable port timing. Only glow plug ignition is allowed. No holes in the piston and no additional holes in the liner. The carburettor size is to be 5.50mm. The exhaust port height is to be 4.50mm.
- 1.5 Engine capacity is to be maximum .12 (2.11cc) only.
- 1.6 Standard pull-start is optional.
- 1.7 Engine internal modifications are allowed as long as they are within the parameters of Rules 1.4 and 1.5.
- 1.8 A muffler of approved double chamber design, including silencer chamber must be fitted having the following dimensions:
 - Tail pipe maximum internal diameter* 5.20mm.
 - Tail pipe minimum length 10.00mm.
 - The tail pipe must be oriented on or below the horizontal.
 - * This dimension includes a tolerance to account for manufacturing variations in commercially available tubing.
- 1.9 Minimum weight without fuel: 1725.00 grams (including transponder).
- 1.10 Fuel tank capacity to be 75.00cc including all fuel tubing, filters, etc. No loose inserts allowed inside the tank.

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1.11 Touring car bodies shall be accurate 1/10th scale representations of the following full-size touring cars which have been homologated by the F.I.A. and which have been approved: -

FIA 2-litre Championship
German Touring Car Championship
Australian Touring Car Championship
North American 2-litre Super Touring Car Championship.

1.12 The front bumper must follow the body contour and must be constructed so as to minimise injury that may result from being hit by a car. The bumper must be made from foam rubber or a flexible plastic material.

1.13 The body must be made from a flexible material and be painted properly. All windows must remain clear and not be painted over or be semi-transparent.

1.14 Bodies are not to be cut above the lower bumper line at the front or the back or above the bottom line of the doors. Details of all front and rear lights, grills, air intakes and windows must be clearly contrasted from the surrounding paintwork.

1.15 Only the following AIR HOLES and sizes are permitted in the bodyshells:

One (1) cooling hole may be cut in the front windscreen only (not intruding on either the roof or bonnet) with a maximum dimension in any direction of 60.00mm.
15.00mm maximum diameter hole in the roof for glow plug access.
Both front side windows and the rear window can be removed for ventilation, except for the side rear windows, which must remain intact.
Re-fuelling hole maximum 50.00mm diameter.
Small holes can be made for the exhaust pipe, transponder and radio antenna.
No other holes are permitted.

1.16 Roll-bars (roll-over bars) must be kept under the body.

1.17 No parts of the car, except the muffler outlet may protrude outside of the bodyshell when viewed from above.

1.18 Under body/chassis aerodynamic aids of any nature are not allowed.

1.19 General Dimensions –	Minimum (mm) - Maximum (mm)	
Wheelbase	230.00	270.00
Width (without body)	170.00	200.00
Width (with body)	175.00	205.00
Length (including body and wing)	360.00	460.00
Height (to top of roof measured with a 10.00mm spacer under the chassis plate on level)	120.00	175.00
Wing width inclusive	125.00	200.00
Wing chord	-	50.00
Wing endplate 35.00mm x 50.00mm - equal size		
Wing overhang (at rear)		10.00
Wheel Diameter (excluding tyre bead)	46.00	50.00
Wheel Width including bead	24.00	30.00
Tyre width (across sidewalls)	24.00	30.00

1.20 One wing and one spoiler may be mounted to any car (if the original full-size car had more, it is allowed to do the same). Wing and spoiler must be made from a flexible material. Wing and spoiler must not be fixed to body with piano wire. Basically, they must be mounted to body directly. Wing and spoiler may not protrude outside the maximum height and width of the body (including the side dams). Rear wings must be mounted in the same place as was intended by the body manufacturer. The overhang must not exceed 10.00mm at the furthest point, to be measured from bootlid.

The height of the wing may be adjusted but the wing, including endplates must not extend higher than the roofline. Wings (excluding endplates) are to be of single moulded construction (no flat-packs/bend your own). Gurney strip (if allowed) may not exceed the width of the wing and have an edge not more than 5.00mm high. Total cord of wing, plus the strip is 55.00mm.

1.21 Foam and/or Rubber tyres may be used. Any materials used in, or on, the tyres must not damage the racing surface. Treatment of the tyres with additives is prohibited.

1.22 Fuel will only contain methanol (methyl alcohol), lubricating oil and a maximum of 16% nitromethane in volume. The specific gravity of the mixture may not be heavier than 0.87. An IFMAR approved fuel tester, e.g. Nitromax 16 will be available to verify fuel's conformity to the rules at Technical Inspection. Any fuel adjudged to be dangerous by the Organiser or Race Director may not be allowed.

1.23 The aerial support must be flexible. Carbon, GRP, steel, etc. are not allowed.

1.24 Only two (2) servos are allowed. Frequency must be legal as specified by Race Director. Drivers must have more than one (1) frequency available. Under no circumstances shall a transmitter be taken onto the track.

1.25 The use of electronic gyroscopes is not allowed.

1.26 All measurements referred to in these rules are maximum or minimum values.

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