



## Gas Tourer Championship Rules

### 1. TECHNICAL SPECIFICATIONS: Revised 08/02/2009

The official measurements in these Technical Specifications are the metric measurements.

This is a controlled engine event, the proposed engine is:

#### **O.S. Engine TG .12 REAR EXHAUST**

- 1.1 The class run will be the 200mm Nitro Touring Car which will be 4WD. Only one (1) 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 the permitted controlled engine only will be permitted.  
  
No internal or external modifications of any kind that deviate from factory original condition including the carburetor and cooling head.
- 1.5 Standard pull-start is optional. Any form of starting the engine is allowed.
- 1.6 A muffler that meets IFMAR approved double chamber design, including silencer chamber must be fitted having the following dimensions:  
Tail pipe maximum internal diameter\* 5.2mm.  
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.  
The muffler may not produce more than eighty five (85) decibels measured at ten (10) meters distance and one (1) meter high  
A muffler must be used, if a car is deemed too loud the car must be stopped and the noise level reduced to 85db before it can return to the track. The Race Director has final say on noise levels.

- 1.7 Minimum weight without fuel: 1800 grams (including transponder).
- 1.8 Fuel tank capacity to be 75.00cc including all fuel tubing, filters, etc. No loose inserts allowed inside the tank.
- 1.9 Touring car 200mm (sedan) bodies, 2 and 4-door versions allowed, as raced in International Touring Car series. No GT or Sports car bodies allowed.

For Technical inspection it is necessary that all body shells can be identified by means of a manufactures and / or homologation number issued by a Bloc. This number must be molded in or near the front windshield and must be visible at all times. See IFMAR for approved body lists.

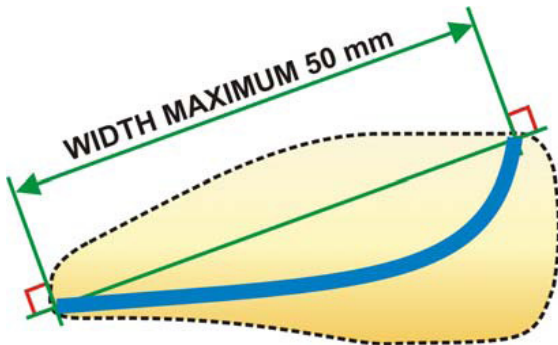
- 1.10 The front bumper must follow the body contour and must be constructed so as to minimize injury that may result from being hit by a car. The bumper must be made from foam rubber or a flexible plastic material.
- 1.11 The body must be made from a flexible material and be painted properly. All windows must remain clear and not be painted over or be semi-transparent.  
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. Rear of the body may not be cut away higher than 45.00mm measured with a 10.00mm spacer under the chassis plate. Details of all front and rear lights, grills, air intakes and windows must be clearly contrasted from the surrounding paintwork.
- 1.12 Only the following air holes and sizes are permitted in the body shells:  
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 60mm.  
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.  
Refueling hole of up to 50mm diameter.  
Holes cannot overlap a minimum of 5mm is required between holes.  
Small holes can be made for the exhaust pipe, transponder, radio antenna and body posts.  
Body holes as per AARCMCC Pull Start rules will be allowed  
No other holes are permitted.
- 1.13 Roll-bars (roll-over bars) must be kept under the body.
- 1.14 No part of the car, except the muffler outlet, may protrude outside the body shell when viewed from above.
- 1.15 Under body/chassis aerodynamic aids of any nature are not allowed.

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 Cord, Diagonal front edge to rear edge	-	50.00
Wing endplate 35.00mm x 50.00mm – equal size		
Wing Overhang, from boot lid (at rear)		10.00

Wheel rim diameter (excluding tyre bead)	46.00	50.00
Wheel Width (including bead)	No Minimum	30.00 + 1mm Tolerance
Tyre width (across sidewalls)	-	30.00

- 1.16 One (1) wing and one (1) 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). The overhang must not exceed 10.00mm at the furthest point, to be measured from boot lid not rear bumper.



The height of the wing and endplates must not extend higher than the roofline. Wings (excluding endplates) are to be of single molded construction (no flat-packs/bend your own).

- 1.17 Foam or Rubber tyres may be used. Any material used in, or on, the tyres must not damage the racing surface. Treatment of the tyres with additives is prohibited.
- 1.18 Fuel: Fuel containing methanol, oil lubricant and nitro methane (a maximum of 16% measured in volume) must be used.
- 1.19 The aerial support must be flexible. Carbon, GRP, steel, etc. are not allowed.
- 1.20 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.
- 1.21 The use of electronic gyroscopes is not allowed.
- 1.22 A passive data recording or information system to record functions of the car can only be used up to the end of controlled practice. Sensors must not be able to adjust the performance of the car whilst in motion.
- 1.23 All measurements referred to in these rules are maximum or minimum values.
- 1.24 Not allowed:
- 4 wheel brakes.
  - Liquid cooled engines.
  - Hydraulic systems.
  - More than two (2) servos.
  - No more than 2-speed transmissions.