

ITCC TECHNICAL REGULATIONS

Introduction

The ITCC club will organise the ITCC series contested during the racing season 2011. The series will run in accordance with the General Competitions Rules (hereinafter GCR) of Motorsport Ireland and Sporting Code of the FIA, and these rules which will constitute supplementary regulations. The series organisers reserve the right to amend or vary the Technical Regulations at any time before or during the series and further issue additional statements concerning the regulations from time to time subject to MI approval. All statements will be issued as a Bulletin by publishing on the website of MI (www.motorsportireland.com)

1. GENERAL

- 1.1** Where these regulations refer to the passenger compartment, or driver compartment, this refers to the whole of the interior of the vehicle – including the rear passenger area.
- 1.2** It should be understood that if it is not clearly specified that you can carry out modification then you should work on the principle that you cannot.
- 1.3** 1.2.5 Safety Requirements – See MI Yearbook – Safety requirements conform to Appendix “2” of the Motorsport Ireland Yearbook.
- 1.4** A Safety Rollover Cage must be fitted and conforming to MI Appendix 2.16.
- 1.5** A Master cut out switch operable from outside and inside of the car, which will isolate all electrics and kill the engine must be fitted.
- 1.6** Seat Belts complying with MI Appendix 2.7 must be fitted and in good condition.
- 1.7** Fire Extinguishers complying with MI Appendix 2.6 (as required must be fitted, filled with permitted extinguishant and carry a current certificate.
- 1.8** Competition seat with FIA Approval mounted in accordance with FIA regulations must be fitted
- 1.9** Additional fasteners must be fitted on bonnet (not less than two) and tailgate (not less than two). The original locking mechanisms must be removed
- 1.10** Towing eyes must be fitted at front and rear and be clearly visible painted in red or yellow
- 1.11** The bulkhead between engine and drivers compartment must be sealed against the passage of flame or fluid

2.0. ELIGIBLE VEHICLES:

- 2.1.** Vehicles must be constructed by a major vehicle manufacturer and be currently or previously available as a factory OEM vehicle with factory seating capacity for at least 4 people

No tube frame/ space frame vehicles or tube frame chassis extensions are permissible.

Vehicles must have steel roofs and steel main pillars.

Original floor and bulkhead must be retained and not modified, it is permissible to remove the spare wheel well and replace with a flat section of steel not less than 2mm in thickness. This piece must be no more than 750mm in any direction and no higher than the surrounding original floor.

Strengthening of the suspended parts of the chassis and bodywork through the addition of parts and/or material is allowed under the following conditions:

The shape of the reinforcing part/material must follow the surface of the part to be reinforced, having a shape similar to it and the following maximum thickness measured from the surface of the original part

- 4 mm for steel parts

- 12 mm for aluminium alloy parts

For bodywork parts, the reinforcing part/material must be on the area not visible from the outside. Stiffening ribs are allowed but the making of hollow sections is forbidden. The reinforcing part/material must not have any other function than that of reinforcement

- 2.2.** 4wd vehicles are not permitted. It is permissible to convert what was originally a manufacturer supplied 4wd car to run in 2wd, where this is done a maximum of two driveshafts to wheels are permitted, whether active or not.
- 2.3.** It is permitted to fit additional triangulation and bracing of suspension turret/mounting points, as long as the modifications do not alter the appearance of the vehicle.
- 2.4.** Vehicles must retain their original VIN (chassis number) and original plate, which must be clearly visible and readable. The VIN must be valid for the chassis it is attached to.
- 2.5.** No convertible vehicles are permitted.
- 2.6.** Vehicles appearance must remain similar to that of the original vehicle.
- 2.7** No rear engined or mid engined vehicles
- 2.8** The minimum ride height is 40mm, measured from the lowest point on the chassis to the ground.

3.0. ENGINE, TRANSMISSION & DRIVETRAIN:

3.1 It is permitted to fit an alternative engine to the vehicle provided it complies with regulation 3.2

3.2 Location

The engine must be installed in the original engine compartment and the crankshaft axis must be retained in the original orientation. Intake and exhaust manifold are free.

3.3 Vehicles must retain an exhaust system, complete with a silencer, which must be capable of passing a static 105db noise test, with the engine running at 2/3rd of the maximum rpm of the engine.

3.4 Oil/Water Cooling

Free

3.5 Exhaust Systems

Intake and exhaust manifold are free. A silencer must be fitted and the car must pass a noise test as per section 3.3 of these regulations. Exhausts must exit behind the rear axle

3.6 Ignition Systems

FREE

3.7 Fuel delivery systems

FREE

3.8 Catch tanks for oil and water must be installed and securely fastened with the contents easily visible on inspection.

3.9. The throttle mechanism must be in good condition and have an effective return spring. It is recommended to fit an additional return spring to the throttle mechanism.

3.10 It is NOT permitted to convert a front wheel drive car to rear wheel drive, or vice versa

3.11 Use of power aids such as turbos or superchargers is permitted but no nitrous oxide systems are allowed

4.0. FUEL & FUEL SYSTEM

4.1. Vehicles must run on diesel or unleaded petrol pump fuel.

4.2. All fuel lines must be securely fastened at intervals of no more than 100mm throughout its length.

4.3. The fuel-line can be run through the car, but it must be a continuous (unbroken) metal pipe or braided hose and must be fitted on the passenger side of the vehicle. All other parts of the fuel system must have a firewall between the driver and equipment. The firewall must be sealed to prevent passage of fluids and fire.

4.4. All fuel lines and filling devices must be clean and sealed after vehicles are fuelled to ensure no fuel can escape.

4.5. The original OEM fuel tank is permitted, but it is also permissible to change this to an approved racing fuel tank. Dry break and bobble breathing systems from recognised manufacturers are permitted. If the fuel tank is housed within the drivers compartment it must be protected by a firewall.

4.6. The fuel tank filler neck should have a spillage collector that drains to the outside of

the car.

5.0. STEERING, SUSPENSION & BRAKES

- 5.1. All suspension parts and wheel bearings must be in good condition.
- 5.2. All steering components are free.
- 5.3. Steering wheel must be of continuous construction in either a circle or D shape
- 5.4. The vehicle steering lock mechanism must be removed.
- 5.5. All brakes components are free with the exception of carbon discs and/or pads which may not be used.
- 5.6. The brake systems must be in good serviceable condition and no leaks of any kind are permitted.
- 5.7. An effective handbrake must be present, but the operating mechanism is free.
- 5.8. It is permissible to move suspension pick up points from their original manufactured position, but by no more than 25mm in any direction.
- 5.9. It is permissible to change the rear suspension of a vehicle, originally equipped with either a torsion bar or solid rear beam type rear axle to that of an independent rear suspension system.
- 5.10. It is permissible to fit brake cooling ducts, these must be mounted within the front bumper of the car and not protrude more than 10mm from the bumper at the location they are mounted

6.0. TYRES & WHEELS

- 6.1. Tyre Warmers are not permitted.
- 6.2. Tyres width is limited based on the weight of the vehicle. See section 7.3 for details. The maximum tyre width is based on the weight of the car and all fluids, but excluding driver and his equipment (helmet, suit etc) at the end of a race or qualifying session. The width of the tyre will be determined by the markings on the tyres sidewall. Should there be no markings on the tyre, the scrutineer will measure the tyre as he sees fit and his decision is final
- 6.3.

| Weight | Maximum Tyre Width |
|-----------------------------|---------------------------|
| No more than 850 Kilograms | 185 |
| No more than 1150 Kilograms | 215 |
| No more than 1250 Kilograms | 235 |
| Greater than 1250 Kilograms | 265 |
- 6.4. No aluminium wheel studs are allowed

7.0. BODYWORK, WINDOWS & INTERIOR

- 7.1. It is permitted to replace original bumpers, wings, quarter panels, doors, bonnet and bootlids with GRP and/or Carbon Fibre materials, but the replacement panels must mirror the originals. Pillars and roof must be metal.

- 7.2. With the exception of the front windscreen which must be laminated glass, all other windows may be replaced with lexan materials.
Where lexan is used the window must be securely held in place.
- 7.3. It is permitted to remove the dashboard and replace it with a bespoke design dash.
- 7.4. It is permitted to modify, lighten or exchange the doors for GRP and/or Carbon Fibre units. In such a scenario the roll cage must consist of dual side impact bars
- 7.5. Any additional equipment inside or outside the vehicle including electrical equipment must be securely mounted in place. In car cameras can only be used after permission has been granted by Motorsport Ireland and cameras must be mounted securely. Any such additional equipment must be fitted before scrutineering.
- 7.6. All doors, boot lids, bonnets and exterior openings must be serviceable from the outside, door handles and locking systems must be operational at all times from the exterior of the vehicle.
- 7.7. It is permitted to fit additional aerodynamic devices such as splitters and/or rear spoilers and these must not extend beyond the original bodywork.
- 7.8. All bodywork must be secure and attached to the vehicle.
- 7.9. The drivers side window can be lowered, but by no more than 2" . It is advisable that a window net be fitted.
- 8.0. ELECTRICAL SYSTEM**
- 8.1. At least two brake lights, front wipers and high intensity rear fog/rain light must be in good working condition. A windscreen demister fan or electrically heated front windscreen must be fitted and in working condition. Headlight glass must be protected against breakage by tape or security film. Headlights may be replaced by blank GRP moulds
- 8.2. Vehicles must have battery isolators installed, which must be capable of being activated in the driver's compartment, by the driver when normally seated. In addition, the isolator must be capable of being operated remotely from the front window splash panel. On the passenger side (RHD Car) and clearly marked with an official sticker.
- 8.3. Batteries must be securely mounted and all connections must be in a serviceable and clean condition. Positive terminals should be insulated. Negative leads should be braided or have yellow identifying marking. Batteries housed in the drivers compartment, must be securely mounted in a sealed and insulated box.
- 9.0. FIREWALLS**
- 9.1. There must be a firewall between the engine bay and the passenger compartment capable of preventing the passage of fire or liquid. Larger holes should be covered by metal plates or fibreglass. Smaller holes can be fitted with bolts, rivets or fireproof mastic. If the standard bulkhead has no unfilled holes in it, then it is deemed a satisfactory firewall.
- 9.2. If the boot contains any of the fuel system then it must be separated from the passenger compartment with a firewall