

## SINGAPOREAN SUPER SERIES 2008

### TECHNICAL REGULATIONS

#### APPENDIX I

#### 1. ELIGIBLE VEHICLES

- 1.1 Any production saloons car **of Originality** engine capacity.
- 1.2 Lower specification models may be upgraded to meet with the technical requirements.
- 1.3 Forced induction (Turbocharged) cars are eligible
- 1.4 Two wheel drive (FWD or RWD) are eligible for **class 1 & 2**
- 1.5 Two wheel & four wheel drive (2WD or 4WD) are eligible for **class 3**
- 1.6 Engines from other makes or model other than the manufacturers are not allowed.
- 1.7 The organizers decision to accept or decline a car's application for inclusion shall be final.

#### 2. WEIGHTS

- 2.1 The minimum weight of the cars with water and oil including the driver and fuel are:

<b>Class 1</b>	<b>920kg include driver</b>
<b>Class 2</b>	<b>1000kg include driver</b>
<b>Class 3</b>	<b>1310kg include driver</b>
- 2.2 These minimum weights must be respected at all times during the event.
- 2.3 It is permitted to complete the weight of the vehicle by one or several ballasts, provide that they are safety secured, visible and approved by the scrutineers.
- 2.4 The organisers have the right to weigh the cars at any time during the events.
- 2.5 Failing to meet the required weight regulations ill result in exclusion of the relevant car.

### **3. Engine**

#### **3.1 Engine Block**

- 3.1.1 The cylinder capacity must not exceed **the Originality engine capacity**.
- 3.1.2 Type and material of the pistons, con rods, crankshaft(s) and bearings are free.
- 3.1.3 The crankshaft(s) stroke may not be altered.
- 3.1.4 The number of cylinder are free.

#### **3.2 Cylinder Head(s)**

- 3.2.1 Modification to the cylinder head(s) is free.
- 3.2.2 The camshaft(s) may be modified or replaced.
- 3.2.3 The camshaft(s) timing gear(s) may be modified or replaced. The materials of these items are free.
- 3.2.4 The cylinder head valve, valve springs, seats and guides are free.
- 3.2.5 The material and thickness of the cylinder head gasket are free.

#### **3.3 Compression Ratio**

- 3.3.1 The compression ratio of the engine is free.

#### **3.4 Ignition**

- 3.4.1 The spark plugs and wires are free.
- 3.4.2 The electronic control unit (ECU) if fitted is free.

#### **3.5 Flywheel**

- 3.5.1 The type and material of the flywheel is free.
- 3.5.2 The original flywheel may be lightened or replaced.

#### **3.6 Induction**

- 3.6.1 The injection or carburetion systems are free.
- 3.6.2 The throttle body diameter must not exceed 60 mm (**For class 1**) at the butterfly.

3.6.3 In the case of having more than one throttle body, an air box casing without leakage must be fabricated with an air inlet size of 60mm **(For class 1)**.

3.6.4 The air filter box may be replaced or removed.

3.6.5 The air filter type and material if used are free.

### 3.7 Exhaust

The exhaust system is free but the exit of the exhaust pipe must be at the rear of the car and within the perimeter of the car.

### 3.8 Lubricants

3.8.1 Choice of lubricants type and amount is free.

3.8.2 The oil sump may be baffled and the oil pump may be modified or replaced. Dry sump system is not permitted.

3.8.3 The oil filter is free but must be secured by attachment of a locking wire.

3.8.4 All sump drainage bolts/plugs of the engine and gearbox must be wired locked to avoid spillage.

### 3.9 Cooling System

3.9.1 The thermostat may be changed or removed.

3.9.2 Larger radiator is permitted provided it does not damage the structural strength of the vehicle as in cutting the bodywork and **must** also be within the dimension of the car.

3.9.3 Oil cooler with steel braided hoses for the engine is permitted. Original oil cooling system is accepted. Care must be taken for the system as to avoid any spillage on the circuit.

## 4. Engine And Gearbox Mountings

4.1 Engine and gearbox mountings are free.

4.2 The use of solid metal mountings is prohibited.

## 5. Braking System

5.1 The size of the brake rotors and calipers are free.

5.2 The ABS System if available, may be disconnected or removed.

5.3 Brake hoses and fluid are free. The type and material of the brake pads are free..

5.4 Brake cooling ducts are permitted but it may not protrude outside the car's dimension and above the bumper's line.

## **6. Steering System**

- 6.1 The steering rods and joints are free.
- 6.2 The power steering system on the car may be disconnected or removed.
- 6.3 The steering ratio may be altered or changed.

## **7. Transmission**

- 7.1 Sequential gearbox systems are not permitted.
- 7.2 The ratios and final drive are free.
- 7.3 Limited slip differentials of any type are permitted.
- 7.4 The clutch plate and pressure plate are free.
- 7.5 Type and material of the drive shafts and propeller shaft are free.

## **8. Suspension**

- 8.1 The suspension may be modified provided that the system and mounting points are not changed.
- 8.2 Type, material and dimension of the shock absorbers and springs are free.
- 8.3 Suspension arms and linkages are free.
- 8.4 The front and rear anti roll bars may be added or changed.
- 8.5 Fitment of front and rear suspension bracing is permitted.
- 8.6 The geometry of the suspension settings (camber and caster) is free.
- 8.7 Ground clearance must be such that the bodywork does not touch on the ground when two tyres on the same side of the vehicle are deflated.

## **9. Wheels And Tyres**

- 9.1 Wheel size is regulated to 15 to 16 inches in diameter for class 1, 16 to 17 inches in diameter for class 2 and 17 to 18 inches in diameter for class 3.
- 9.2 Offset and width of the wheels are free as long as they do not protrude outside of the car's wheel arches.
- 9.3 Tyres of the same make and size declared by the organisers will have to be used during the events (TBA)

## **10. Fuel**

- 10.1 Fuel is free.

- 10.2 FIA safety fuel tank fitted in the luggage compartment of the car is permitted.
- 10.3 The petrol lines inboard the car if any, must be of aviation quality.
- 10.4 If the fuel pump(s) are inboard, a fire and liquid proof protective cover must enclose it.
- 10.5 The fitment of a fuel surge tank is permitted.

## 11. Safety Equipments

- 11.1 A roll cage in accordance with Appendix J of the FIA or equivalent is mandatory.
- 11.2 A minimum number of 6 points is required. It can be a bolt on type or a weld on type.
- 11.3 Cars must be fitted with an electrical cut off switch, which must operate from the inside or on the outside. The outside switch must be located beneath the lower part of the windscreen on the driver's side and must be marked by a red spark in a white edged blue triangle with a base of at least 12cm.
- 11.4 One of the fire extinguishers of the following specifications must be equipped on the vehicle:
- DCF (CF3 Br) 4.9 kg
  - NAF 83 3.2kg
  - NAF P 3.2kg
  - AFF 2.4kg
  - Powder 2.0kg
- 11.5 The fitment of safety window nets is recommended.

## 12. Bodywork (Interior And Exterior)

### 12.1 Interior

- 12.1.1 The use of a proper racing seat approved by any race ASN is mandatory.
- 12.1.2 The fitment of a 4 or more points harness approved by any race ASN is mandatory.
- 12.1.3 The passenger seat and rear seat(s) **may** be removed.
- 12.1.4 The removal of soundproofing, insulating material and carpeting is permitted.
- 12.1.5 The steering wheel is free. The locking anti-theft system device must be inoperative.



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12.1.6 Extra gauges or meters are permitted.

## **12.2 Exterior**

12.2.1 Changing the steel panel of the bodywork to fiberglass or carbon fibre is prohibited.

12.2.2 Fitment of aerodynamics aids other than production based is prohibited.

12.2.3 Cars must be fitted with a laminated front windscreen. All other windows and rear screen may be changed to Perspex.

12.2.4 Air ducts to the driver are permitted.

12.2.5 The car must have working side mirror on both sides of the car.

12.2.6 The car's chassis and body may be seam welded and painted in any colour.

12.2.7 Strongly fitted and clearly marked towing eye must be fitted to the front and rear of the car.

12.2.8 Headlights and taillights including the brake lights must be in operating condition. All lights must be taped over but still be visible. They must be switched on under the instruction by the Clerk Of The Course.

## **13. Drivers Equipments**

13.1 All drivers must be equipped with any race ASN approved fire retardant race suit, gloves, boots and helmet.

13.2 The race driver equipment and helmet must be presented to the series scrutineers race officials for eligibility.

13.3 Drivers will be required to wear all safety attire during all practices and races.