

# The 2003 World Cup Rally - Technical Regulations

## **Eligible Vehicles**

6.1 Entries will be accepted in the following categories:

**The World Cup Trophy** – for post 1992 type cars up to 1400cc petrol or 2000cc diesel.

**The 1600cc Trophy** – for post 1992 type cars up to 1600cc petrol

**The Sahara Challenge Trophy** – for pre 1992 type cars.

**The 4x4 Challenge Trophy** – for post 1992 4x4 vehicles excluding turbo petrol engine models

**Touring Category** – for vehicles accepted by the Organisers but not competing on the timed test sections.

The categories will be divided into Classes as listed below.

### **The World Cup Trophy**

Class 1 ..... Cars up to 1000cc petrol

Class 2 ..... Cars 1001cc to 1200cc petrol

Class 3..... Cars 1201cc to 1400cc petrol

Class 4 ..... Cars up to 2000cc non-turbo diesel

### **The 1600cc Trophy**

Class 5 ..... Post 1992 cars up to 1600cc petrol

### **The Sahara Challenge Trophy**

Class 6 ..... Pre 1992 cars

### **The 4x4 Challenge Trophy**

Class 7 ..... 4x4 vehicles excluding turbo petrol.

### **Touring Category**

Class 8..... All touring category vehicles

6.2 Classes may be combined, split or realigned. Cars with turbo-charged or supercharged engines up to 1000cc may be considered although their capacity classification will be considered as 1.3 times the actual displacement. The specification of the particular model variant entered must be strictly adhered to, and parts from other model variants within the range must not be fitted.

6.3 All cars must conform to the technical specification detailed in the regulations. Cars that do not comply with the technical requirements for the event may have start refused or may be penalised up to exclusion (cf. Article 3.4) at the discretion of the Clerk of the Course, unless a lesser penalty is specified in the regulations.

## **Definitions**

6.4 In these regulations the term 'car' will mean a motor vehicle designed to carry one or more passengers, of any body style including sports and commercial variants. World Cup Trophy cars must be mass produced unitary construction models. The terms 'standard' and 'original' will mean conforming to the showroom specification of the actual model variant entered as it was produced and sold to the general public through the manufacturer's usual dealer outlets. The Organisers will have absolute discretion in identifying separate models and defining volume production.

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## **Car Specification**

- 6.5 All vehicles must comply with the statutory regulations for the country of registration and conform to their vehicle registration document. Cars must be in completely standard condition except for the specified modifications detailed in these regulations for the Class in which the car is entered. All other modifications are prohibited and will be penalised up to exclusion from the event. All components and equipment, and every measurement and dimension must conform precisely to the manufacturer's published standard specification for the particular model variant entered. Entrants must supply the Organisers with any vehicle documentation as required.

## **Component Parts**

- 6.6 Every part or component of the car must be a standard production item identifiable as the manufacturer's listed and numbered part, except where alternative components are specifically permitted by these Regulations. No standard part may be machined, lightened or polished. The Organisers reserve the right to contact any official supplier of the manufacturer's parts for the purposes of verification. All spare parts must be carried in the competing car, or another car in the same category, from the start of the event, or obtained locally provided their supply has not been pre-arranged. There will be no provision for the Organisers' service crews to carry parts for competing cars but general repair items provided by them may be fitted without penalty. A crew may be required by the Clerk of the Course to provide evidence of the provenance of any part or component that has been fitted to the car since the start of the event. Non compliance with these requirements will be penalised a minimum of 5 minutes, up to exclusion from the event.

## **Safety Equipment**

- 6.7 All cars must be equipped with:
- First aid kit, warning triangle and tow rope
  - An AFFF fire extinguisher of at least 1.75 litres securely mounted within easy reach inside the car. If the car is fitted with a plumbed-in system, an additional hand-held AFFF extinguisher of at least 1.75 litres must be carried.
  - Multi-point mounting, full-harness seat belts for all crew members for all categories, except Touring vehicles
  - A roll cage with a minimum specification of a single loop and two backstays for all categories, except Touring vehicles.
  - Front windscreen of laminated glass.
  - Mud flaps must be fitted to all four wheels.

## **Bodyshell**

- 6.8 Cars may not be lightened from the manufacturer's standard production weight. All bodywork panels must be of the material provided as standard by the car manufacturer. Strengthening of the bodyshell is permitted. Demountable strut brace(s) may be fitted. Detachable sump guards, transmission and fuel tank protection plates may be fitted. Bonnet, door and rear door/hatch locks may be changed and additional catches fitted.

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## **Interior**

- 6.9 All interior trim, carpet, equipment and controls must be retained in the original location except for minor changes to allow the fitting of a roll cage and the items specified here. Sound absorbing material may be removed. Front seats may be changed. Rear seats and seat belts, the rear parcel shelf of hatchbacks and carpeting in the boot/rear hatch area may be removed. Additional dashboard instruments, switches and controls may be fitted, providing the original components are retained. Interior accessories may be added to improve comfort, convenience or safety, provided they do not affect the performance of the car. The steering wheel may be changed and safety air bags may be disabled or removed. The glass areas of the car must not be rendered opaque except in the permitted advertising spaces.

## **Engine & Transmission**

- 6.10 No part of the engine may be machined, balanced, lightened, polished or otherwise modified in any way. The position of the engine within the car, its height and distance from the wheel centres, must not be altered from standard. Filter elements and gasket materials are free. The throttle body and other induction system components must be standard except that the air intake trunking and routing may be changed provided no air is drawn from the passenger compartment. Dry-sump lubrication is not permitted. A strengthening plate may be attached to the base of the sump pan. The exhaust manifold must be standard, but the dimensions and routing of the exhaust system after the exit of the manifold may be modified provided any originally fitted catalytic converter is retained. Additional straps and brackets may be fitted to the exhaust system. Engine and gearbox mountings must be the original part, but they may be capped and strengthened. No components may be added to or changed in any part of the gearbox and transmission unless specifically allowed. Clutch friction materials are unrestricted. The fitting of a limited-slip differential is strictly prohibited unless standard for the model variant entered.

## **Ignition & Electrical System**

- 6.11 The wiring loom and ignition and engine management system may be modified. The battery may be changed and its mountings strengthened but its position must be standard. No more than two forward-facing auxiliary lamps and one additional rear-facing lamp may be fitted not exceeding 150mm measured flat across the visible glass face of the lens. Gas discharge lamps and accessory booster devices are prohibited. No bulb or light unit rated at more than 60 watts may be fitted. Bulbs or light units without clear markings or markings that appear to have been altered will incur 5 minutes penalty for each occurrence.

## **Fuel System**

- 6.12 Alternative fuel pumps may be used. Fuel lines may be changed without restriction but must be protected by a fireproof covering where they pass through the interior. The fuel tank may be changed to one of greater capacity, or an additional tank added.

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### **Cooling System**

- 6.13 The position and component material of water radiators must be as original, though core construction may be improved. Radiator mountings may be modified. Additional oil coolers may be fitted.

### **Brakes**

- 6.14 Only the friction material of brake pads and linings may be changed. Grooved or perforated brake discs are not permitted unless standard for the model variant entered. Anti-lock braking systems may be removed or disabled. Hydraulic brake lines may be changed without restriction and stone protection added provided it fulfils no other function. All other brake components must be standard.

### **Suspension & Steering**

- 6.15 All elements of the suspension and steering system must remain as standard without the addition, removal or modification of any elements except as specified in this article. Spring dimensions and rates are free although the material and general construction must be as original. Non-standard elastic material may be used in suspension bushes provided the metal part is identical to the original. Dampers are free provided they are of the same general construction and they are directly interchangeable with the original component. Power assisted steering system may be removed. Steering and track control arms may be changed or strengthened provided the overall operating dimensions remain as standard. Wishbone pans may be strengthened but the operating dimensions must remain as original. The geometry of the suspension must not be altered.

### **Wheels & Tyres**

- 6.16 The choice of road wheel and tyre is free provided that the wheel-tyre combination does not protrude outside the wheel arch when steered in the normal straight-ahead position. All tyres used during the event must be marked by the nominated event official before the start and carried, from the start, in the competing car, or another car within the same Category. Crews must ensure that any tyre identity mark that becomes feint or worn must be reapplied by the nominated event official. A breach of the wheel and tyre requirements will be penalised between 5 minutes and exclusion for each offence.

### **Advertising on cars**

- 6.17 Non offensive advertising is permitted provided the following conditions are met. Crew names must be displayed on each front wing or on the rear side windows. Competitors' blood groups must not be displayed anywhere on the bodywork. Adequate space must be made available on the front doors to display the competition numbers and Organisers advertising. Rally plates supplied by the Organisers must be prominently displayed on the front and rear of the car. Advertising must not be carried on any glass except the sunstrip area at the top of the front and rear screen. Sunstrips must not restrict the view of the road.

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### **Exceptions to the Vehicle Requirements**

6.18 Variations to vehicle requirements for cars in Classes 5 to 8 will be allowed as detailed below

### **The 1600cc Trophy Category**

6.19 1600cc Trophy cars must conform to all the requirements for the World Cup Trophy cars detailed in Articles 6.3 to 6.17 except that the engine capacity limit is 1600cc. Cars in Class 5 will only compete for the 1600cc Trophy.

### **The Sahara Challenge Trophy Category**

6.20 Sahara Challenge Trophy cars must conform to the safety provisions of Article 6.7 and must conform to the period Homologation papers of the FIA and Appendix K of the FIA International Sporting Code. Cars in Class 6 will only compete for the Sahara Challenge Trophy

### **The 4x4 Challenge Trophy Category**

6.21 4x4 Challenge Trophy cars must conform with all the requirements for the World Cup Trophy cars detailed in Articles 6.3 to 6.17 except that turbo-charged and supercharged petrol engines will not be admitted. Cars in Class 7 will only compete for the 4x4 Challenge Trophy.

### **Touring Category**

6.22 Touring category cars must conform to the safety provisions of Article 6.7. No trophies will be awarded to cars in Class 8 except for finisher's awards. Touring cars will not be timed over any competitive sections and may not be allowed over competitive sections until after the other category cars have passed to ensure they do not cause any obstruction. Crews in the touring category may assist other category cars using tools carried in the touring vehicle without penalty and may also carry personal items of luggage and clothing for other competing crews. Touring category cars may not be used to carry spare parts for cars in another category and any breach will be penalised by a penalty between 5 minutes and exclusion applied to the car for which spares are carried.