

# Classic Slot Car Racing Association

## 1/32 Scale Car Standards

### For Hard Bodied Cars

## GRAND PRIX AND INDY CARS

### Definitions

#### **Grand Prix Car;**

Any car which competed in an International Grand Prix or Formula 1 race.

#### **Indy Car;**

Any car which raced in the Indianapolis 500 or competed in the Indy Car or Champ Car series.

#### **Voiturette;**

A common pre WWII class of open wheeled racing car. Generally smaller than a GP car and usually powered by a 1.5 litre supercharged engine.  
This class was adopted as the first Formula 1 in 1948.

Event organizers may also choose to allow cars built for any of the above events but which did not actually compete, the Alfa 512 for example, and may also choose to admit cars built for other series such as Formula 2, Formula 5000 (US Formula A), Formula 3000 etc.

## **SCRATCH BUILT CARS**

### **1. SCALE & DIMENSIONS**

All cars to be accurate 1/32 scale representations of a full size car.

As most racers are very much reliant on manufactured bodies, which are not always perfect, there is no specific requirement for exact scale length and width for body shells. They are, however, expected to be reasonably to scale. If you push the boundaries too far you may be asked to run something else.

Wheelbase and Track measurements **must** be 1/32 scale within + or - 2mm.

“Wheelbase” is the distance between the centre lines of the front and rear wheels.

“Track” is the distance between the centre lines of the left and right hand wheels at the front and at the rear of the car.

No car should exceed the maximum width permitted for each class.

Cars will be measured over the outside width of the tyres.

**It is the entrant's responsibility to prove the accuracy of any car.**

**If there is any doubt the scrutineer may ask you to run something else.**

**The scrutineer's decision is final.**

### **2. BODIES**

All body shells must be of hard plastic, glass fibre, resin, wood, metal or similar material.

Vacuum formed bodies are not permitted.

All cars must be finished in a style sympathetic to the period being represented and carry at least two racing numbers.

All cars must have clear windscreens etc fitted where they appear on the prototype. Vacuum formed windscreens etc are permitted.

All cars must have a suitably decorated and period correct, 3 dimensional, representation of a driver consisting of at least a head, shoulders, arms, hands and the upper part of a steering wheel.

Vacuum formed interiors and drivers are permitted but must be realistic.

The chassis, motor and all running gear must not be visible from above or through the cockpit opening and engine bay unless that which can be seen represents parts of the real car. Suspension components and exhaust systems for example and, on the later period cars, the rear floor and diffuser.

The slot guide must not protrude beyond the front-most point of the car when in the straight ahead position.

### **3. WHEELS & TYRES**

Tyre width limits in all classes are overall.

All wheels must be representative of real wheels or have suitable inserts fitted.

Silicone tyres and sponge/foam rubber tyres are not permitted.

All tyres must be dry and free from additives whenever the car is placed on the track.

### **4. MOTORS & CHASSIS**

Motor choice is free.

Chassis design and construction is free but must comply with sections 1 to 4 and any individual class restrictions.

Any chassis design which allows the wheelbase or effective track dimension to vary will be measured at both extremes of movement and must remain within the + or - 2mm scale tolerance and not exceed the maximum width restriction for the class.

On cars fitted with steering the wheelbase, track and overall width will be measured with the steering in the straight ahead position.

Minimum ground clearance will apply under the motor and the entire length of the chassis and body, unless stated otherwise. Drive gears may be below the minimum ground clearance but must, at all times, remain clear of the track surface.

One slot guide only is permitted.

Blade designs must be no more than 25mm long and pin designs with more than one pin must have the pins within an overall length of 25mm.

Traction magnets are not permitted.

## **READY-TO-RUN (RTR) CARS**

**Event organizers may choose to allow Ready to Run cars to enter and may even have separate classes or finals for these cars. In all cases RTR cars must comply with the following rules.**

Any RTR car made by Scalextric, Ninco, Fly, Monogram etc that fits the class being raced will be eligible, as will any kit built car such as an MRRC Clubman.

Motor orientation must comply with the class rule.

To be accepted as a RTR, cars must be assembled with all of the standard components as supplied by the manufacturer. Any part may be glued in place.

Traction magnets must be removed.

Ballast may be added, but must not be visible when the car is viewed from side-on or above, and may not be used to stiffen the chassis.

Body shells may be repainted and detailed but not altered in any way.

Body mounting screws may be loosened but must be prevented from falling out.

If the Motor, Gears, Wheels, Guide, Chassis or Body Shell are changed or modified in any way, except as permitted above, the car will be moved to the Scratch Built Class and must then comply fully with the standards for scratch built cars.

Original tyres for many RTR cars may no longer be available and in these circumstances modern reproduction tyres such as Ortmann may be fitted, but these must be either copies of the original tyres or must comply with the class dimensions.

**IMPORTANT NOTE:** It is appreciated that many Ready-To-Run models are out of scale to varying degrees. Any car that is out of scale but is of generally similar size to cars in the same class will be accepted.

As a guideline, the Cartrix Classics are OK but Vanquish MG cars are not.

**The final decision on eligibility will rest with the individual event organizer.**

## **GRAND PRIX AND INDY CAR CLASSES**

Event organizers should feel free to select specific year ranges or types of car from within each class or to combine periods and classes as they see fit.

### NOTES:

1. In all classes except GP1 tyres must be visible from above the car.
2. In classes GP1 to GP5 any car which has side tanks/fairings between the wheels must have these mounted as part of the body and must not have any part of the chassis, or any ballast, under or in these tanks/fairings.

### **Grand Prix class 1a. Pre-1934 Over 2 litre Open Top Cars**

- Motor orientation: Inline only
- Front wheels and tyres: Minimum diameter 24mm, minimum width 4mm
- Rear wheels and tyres: Minimum diameter 25mm, maximum width 6mm
- Minimum ground clearance: 3mm
- Maximum overall width must not exceed Scale track dimension +6mm.

### **Grand Prix class 1b. Pre-1934 Under 2 litre Open Top Cars**

- Motor orientation: Inline only
- Front wheels and tyres: Minimum diameter 22mm, minimum width 4mm
- Rear wheels and tyres: Minimum diameter 23mm, maximum width 6mm
- Minimum ground clearance: 3mm
- Maximum overall width must not exceed Scale track dimension +6mm.

### **Grand Prix class 2a. 1934-1951 Grand Prix and Indy Cars**

- Motor orientation: Inline only
- Front wheels and tyres: Minimum diameter 21.5mm, minimum width 5mm
- Rear wheels and tyres: Minimum diameter 24mm, maximum width 7mm
- Minimum ground clearance: 2mm
- Track dimensions must be 1/32 scale within + or - 2mm but must not exceed a maximum overall width of 53mm

### **Grand Prix class 2b. 1934-1951 Voiturettes**

(1.5 litre supercharged and 4.5 litre normally aspirated cars)

- Motor orientation: Inline only
- Front wheels and tyres: Minimum diameter 19mm, minimum width 5mm
- Rear wheels and tyres: Minimum diameter 21.5mm, maximum width 7mm
- Minimum ground clearance: 2mm
- Track dimensions must be 1/32 scale within + or - 2mm but must not exceed a maximum overall width of 50mm

### **Grand Prix class 3. 1952-1960 Grand Prix and Indy Cars**

- Motor orientation: Inline only
- Front wheels and tyres: Minimum diameter 19mm, minimum width 5mm
- Rear wheels and tyres: Minimum diameter 21.5mm, maximum width 7.5mm
- Minimum ground clearance: 2mm
- Track dimensions must be 1/32 scale within + or - 2mm but must not exceed a maximum overall width of 50mm

#### **Grand Prix class 4. 1961-1965 Formula 1 Cars**

- Motor orientation: Inline only
- Front wheels and tyres: Minimum diameter 19mm, minimum width 5mm
- Rear wheels and tyres: Minimum diameter 20mm, maximum width 9mm
- Minimum ground clearance: 2mm
- Track dimensions must be 1/32 scale within + or - 2mm but must not exceed a maximum overall width of 54mm

Note: Indy cars of this period should be grouped with either Class 3 (up to Dec 1963) or Class 5 (from 1964 on) as they were significantly bigger than Formula 1 cars.

#### **Grand Prix class 5. 1966-1970 Formula 1 and Indy Cars**

- Motor orientation: Inline only
- Front wheels and tyres: Minimum diameter 17mm, minimum width 6mm
- Rear wheels and tyres: Minimum diameter 19mm, maximum width 12mm
- Minimum ground clearance: 1.5mm
- Track dimensions must be 1/32 scale within + or - 2mm but must not exceed a maximum overall width of 60mm

#### **Grand Prix class 6. 1971-1977 Formula 1 and Indy Cars**

- Motor orientation: Inline only
- Front wheels and tyres: Minimum diameter 17mm, minimum width 6mm  
(Tyrrell P34 6 wheeler: Minimum diameter 13mm)
- Rear wheels and tyres: Minimum diameter 19mm, maximum width 14mm
- Minimum ground clearance: 1.5mm
- Track dimensions must be 1/32 scale within + or - 2mm but must not exceed a maximum overall width of 68mm

#### **Grand Prix class 7. 1978-1982 Formula 1 and Indy Cars - 'Ground Effect' cars.**

- Motor orientation: Inline only
- Front wheels and tyres: Minimum diameter 17mm, minimum width 8mm
- Rear wheels and tyres: Minimum diameter 19mm, maximum width 14mm
- Minimum ground clearance: 1.5mm under the chassis and motor. The outer edges of the body sides, (i.e. the side skirts between the front and rear wheels), may be below this but must not touch the track during normal running.
- Track dimensions must be 1/32 scale within + or - 2mm but must not exceed a maximum overall width of 68mm

#### **Grand Prix class 8. 1983-1988 Formula 1 and Indy Cars - 'Turbo' F1 cars.**

- Motor orientation: Inline only
- Front wheels and tyres: Minimum diameter 18mm, minimum width 8mm
- Rear wheels and tyres: Minimum diameter 19mm, maximum width 14mm
- Minimum ground clearance: 1.5mm
- Track dimensions must be 1/32 scale within + or - 2mm but must not exceed a maximum overall width of 68mm