

# **USVTA F1 rules** - (based on BRCA rules)

## **1. Construction Rules**

**1.1** Formula 1 cars from year 2008 and newer that are a realistic representation of an original FIA Formula 1 car may be raced in this class. Drivers may have to show that the car is modeled after a current era Formula 1 car. (e.g.. No 6 wheel cars)

**1.2** Cars will be painted and detailed to resemble a Formula 1 car. Drivers may have to show that the paint scheme, layout and detailing have appeared on a full-size Formula 1 car if requested. Random color schemes with no detailing are discouraged.

**1.3** Chassis based on other classes (GT10 or 12th Scale) are not allowed.

**1.4** All cars must conform to appearance, radio, general, battery and motor rules and comply with the 'spirit' of 1/10th scale Formula 1 cars. All decisions of the track/race director organizing a race concerning appearance and 'spirit' are final.

**1.5** Any commercially available F1 car kit is allowed providing it complies with the dimension rules and has rear axle hex wheel fitment.

**1.6** Wheelbase max 285mm, width max 190mm

**1.7** Minimum weight: 25.5 Class 1030g including timing equipment

**1.8** Maximum wheel width 40mm. Cars must have 4 wheels.

**1.9** F1 car wings must be to scale and be commercially available; otherwise they are free - i.e. you can mix different kit wings. Turning vanes, third wings, diffusers, etc. are free but must be to scale.

**1.10** Grill and air vents may be cut to the original size and position only.

**1.11** Chassis modifications are allowed, providing the car still meets general requirements.

**1.12** Rear wheel drive only is allowed.

**1.13** Front independent suspension is allowed. Suspension pick up points must be mounted inside the body.

**1.14** All radio, electronics & lap counting equipment (excluding aerial) must be housed inside the bodyshell.

**1.15** No part of the chassis may protrude outside the bodyshell when viewed from above. All horizontal parts of the chassis must be inside the body. Bodies may be trimmed for proper rear suspension/pod movement, but excessive trimming can be cause for pre race disqualification at the discretion of the tech inspector or race director. Bodies should only be trimmed to allow suspension movement, and maintain scale appearance.

**1.16** Tires must be black except for sidewall detail.

**1.17** No “wheel dots” (this means stickers/vinyl covering the entire rim/tire, obscuring the wheel detail. **Note:** Exotek rims can be covered with the Exotek “donut” style sticker, or a sticker/vinyl replicating the Exotek sticker dimensions. Wheel nut must be visible and physically accessible.

**1.18** Only hex-fitting rear wheels are allowed. Wheels using bolt fittings (such as 12th / GT10 wheels) or narrow wheels designed for Touring Cars are not allowed. Only wheels designed and sold for F1 cars are allowed.

## **2 Definition of a Spec Motor**

**2.1** Motors allowed – any 25.5 motor listed in the ROAR lists as updated from time to time.

**2.2** Motors must conform to the relevant technical specifications detailed in ROAR Rules.

**2.3** 25.5 ROAR spec motors are the standard for this class.

## **3 Batteries Allowed**

**3.1** Any 2S pack conforming to the current Electric ROAR battery list.

**3.2** 2S with a maximum nominal voltage of 7.4v - 7.6v. 8.4v is maximum allowed battery voltage.

