

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

## **1. Construction Rules**

- 1.1** Formula 1 cars from any year that are a realistic representation of an original FIA Formula 1 car may be raced in this class.
- 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: 2S 21.5/25.5 Class 1050g including timing equipment
- 1.8** Maximum wheel width 40mm
- 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
- 1.16** Tires must be black except for sidewall detail.
- 1.17** The Tamiya "TCS" or Calandra "CRC" side wall tires are recommended.
- 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 21.5/25.5 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. 21.5T class may use a 21.5T brushless motor approved on ROAR list if 21.5 is the standard locally and 25.5 is not offered.

## **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