

V2.4 of BRCA rules for the Formula 1 class.	Guide
<ol style="list-style-type: none"> 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. 2 Appearance: 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 colour schemes with no detailing are discouraged. 3 Chassis: Cars will use commercially available chassis that are available with a Formula 1 bodyshell. Chassis based on other classes (GT10 or 12th Scale) are not allowed. The aim of this class is to provide for commercially available F1 kits and RTR cars. All cars must conform to appearance, radio, general, battery and motor rules both here and in the BRCA General Rules and comply with the 'spirit' of 1/10th scale Formula 1 cars. All decisions of the BRCA Committee organising a race concerning appearance and 'spirit' are final. 	<p>F1 cars from any year may be raced. See 2.0 and 6.0 for details</p> <p>Cars must look like real F1 cars.</p> <p>Cars must use commercially available chassis.</p> <p>Cars must conform to these Rules, and their spirit, to race in BRCA-organised events.</p>
<p>2.0 Classes</p> <p>F1 Modern (Rubber tyres to be used)</p> <p>2.1) Any commercially available F1 or Indy car kit is allowed providing it complies with the dimension rules and has rear axle hex wheel fitment.</p> <p>2.2) Wheelbase max 285mm, width max 190mm</p> <p>2.3) Minimum weight: - 2S 21.5 Class 1050g including timing equipment; 1S 13.5 Class 950g including timing equipment.</p> <p>2.4) Maximum wheel width 40mm</p> <p>F1 Retro (Foam tyres to be used)</p> <p>2.5) Any commercially available F1 or Indy car kit is allowed providing it complies with the dimension rules and has rear axle hex wheel fitment.</p> <p>2.6) Wheelbase max 285mm, width max 205mm</p> <p>2.7) Minimum weight: - 2S 21.5 Class 1050g including timing equipment; 1S 13.5 Class 950g including timing equipment.</p> <p>2.8) Maximum wheel width 45mm</p>	<p>Requirements and dimensions for 'Modern' class</p> <p>Minimum weight for racing.</p> <p>Requirements and dimensions for the 'Retro' class</p> <p>Minimum weight for racing.</p>

<p>All Classes</p> <p>2.9) Bodysells & Wings: F1 & Indy 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.</p> <p>2.10) Grill and air vents may be cut to the original size and position only.</p> <p>2.11) (Deleted AGM Oct 2011)</p> <p>2.12) Rear wheel drive only is allowed.</p> <p>2.13) Front independent suspension is allowed. Suspension pick up points must be mounted inside the body.</p> <p>2.14) All radio, electronics & lap counting equipment (excluding aerial) must be housed inside the bodysell.</p> <p>2.15) No part of the chassis may protrude outside the bodysell when viewed from above. All horizontal parts of the chassis must be inside the body</p>	<p>Limitations on bodies and wings</p> <p>No limitations on chassis modifications.</p> <p>Rear-wheel drive only.</p> <p>Front suspension limitations.</p> <p>Electrics must be inside the body.</p> <p>Chassis may not be outside the body</p>
<p>3.0 Motive power – motors and batteries</p> <p>3.1) There are 2 motive power classes available. Both are to have the speed controller operating in 'blinky' non-timing mode as per the 12th Electric Circuit approved list;</p> <ul style="list-style-type: none"> 2S 21.5 Class - Maximum nominal battery voltage is 7.4v. Cells to conform to the current Electric Board battery list. Motor - any motors listed on the Electric Board "Brushless Spec Motor – 21.5" list. 1S 13.5 Class - Maximum nominal battery voltage is 3.7v. Cells to conform to the current Electric Board battery list. Motor - any motors listed on the Electric Board "Brushless Spec Motor – 13.5" list. 	

<p>3.2) Motors: F1 classes may use a 21.5 brushless motor from the same design approved on any BRCA EB 'Spec' list, with a minimum wind of 21.5 turns. (Intent – that if a motor is homologated on (say) the Spec 10.5 list, and the same design is available with a 21.5 variant but not on the Spec 21.5 list, it will be allowed.)</p>	<p>Any 21.5 motor is allowed providing its design is already on a BRCA EB Homologation list</p>
<p>4.0 Tyres/Wheels 4.1) Tyres must be black except for sidewall detail 4.2) Wheels: 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. 4.4) Tyres: any F1 foams, rubber tyres or Tamiya Tyre Caps as per the individual class rules. No control tyres are recommended. 4.5) Tyre additives from the 12th Section approved list are allowed.</p>	<p>Tyres must be black. Wheels must be F1 type only. Tyres allowed. Additives allowed.</p>
<p>5.0 Race Duration 5.1) Formula 1 races will be 6 minutes in length, plus time to complete the last lap. Race and meeting formats will be as per existing BRCA 12th Section Track Rules.</p>	<p>Races for all classes are six minutes</p>
<p>6.0 Classes Modern (Rubber): based on the new generation of narrow F1 cars with a restrictive width chassis and rubber tyre. (To take part in this class you would need something like a Tamiya F104 or HPI F10, etc.) Retro (Foam): based on the late 70's and 80's wide F1 cars with large tyres, allowing the unlimited choice of Foam tyres on the 210mm wide cars. (To take part in this class you would need something like a Tamiya F103 or the 3-Racing F109, etc.)</p>	<p>Classes that are allowed at BRCA meetings</p>

2.1 Updated on 2 Dec 2011 incorporating the changes of the 2011 AGM. PDW

2.2 Updated on 18 Dec 2011 incorporating amendments to clarify 2011 AGM Rules. PDW

2.3 Updated incorporating the changes of the 2012 AGM DJN

2.4 Updated incorporating changes due to introduction of 1S 13.5 class. PAL 2/12/2014