

## Oval Stock Cars



## Stock Cars

### 1:8<sup>th</sup> Stock Car Construction Rules

Agreed construction rules for 2016 by which all 1:8<sup>th</sup> scale stock cars must comply with to Race in the UK

- 1, Models are to be 1/8 scale and a reasonable representation of a BRiSCA Formula One or Spedeworth V8 Stock Car. (Note, reasonable representation means bodyshell must have NO wheel covers and must not extend over the side bumpers)
2. Overall length to be between 450mm and 410mm.
3. Overall width to be between 240mm and 210mm
4. Wheelbase to be any length providing the wheels are kept within the confines of the chassis.
5. Front and rear bumpers must be fitted with a contact surface of between 12mm and 16mm (or imperial equivalent). Distance between the underside of the bumper and the ground to be between 30mm and 45mm
6. Over riders must be fitted to both front and rear bumpers. Front to be between 45mm and 25mm high. Rear to be 25mm maximum.
7. Main chassis rails, bumpers and over riders to be constructed of mild steel. All chassis rails and bumper ends to be capped/ plugged and have no sharp edges.
8. Nerf bars (side bumpers) must be fitted. They can be constructed of any material and must be between 6mm and 12mm thick and have a continuous contact surface a minimum of 100mm long. They may project beyond the outer edges of the wheels but must still be within the maximum width (Rule 3).
9. Any type/make of tyre may be used with a maximum diameter of 82.5mm and a maximum width of 35mm. The diameter to be measured at the centre of the tread.
- 10, The height of the body, measured from the ground to its highest point, to be a minimum of 133mm (5 1/4") excluding any aerofoil.
- 11, Aerofoils, if fitted, must be made from plastic and have no sharp edges and must not extend beyond the outer edges of the wheels, this to be a static check. The maximum width and length of the centre panel to be 152mm. The `upright fin to be a maximum height of 150mm measured from the centre panel.

12. Maximum weight 4.0kg. Minimum weight 3.5kg. Weight to be taken as ready to race with a full tank of fuel. A concession of 4.2kg maximum will be made for wet conditions. The decision of what constitutes wet conditions will rest with the committee of the host club.
13. Maximum engine capacity is 3.5cc (0.214ci). The centreline of the engine`s cylinder must be to the right hand side of the car (when viewed from the rear).
14. Any 3.5cc engine may be used with any carburettor combination. Any driver may challenge the capacity of another`s engine by submitting a £75 bond. The engine`s capacity will then be tested. If found to be under the 3.5cc limit, the bond will be passed to the driver of the `challenged` engine. If found to be over the 3.5cc limit, the bond is returned to the challenger and the driver of the oversize engine will be banned for life from 1/8 Stock Car racing worldwide
15. All engines must be silenced to the satisfaction of the meeting organisers but must be below 80db at 10m or 95db at 1m high and 1m from the track side.
16. All exhaust systems must be contained within the bodyshell except for the outlet pipe. All outlet pipes must point downwards towards the track surface.
17. No chain driven cars may compete.
18. The power source of all cars at a race meeting will be by I/C engine only
19. Brakes may be fitted. For the purpose of BRCA General Rule 4, the positive means of stopping is the track barrier.
20. External roll bars are not permitted for racing.
21. Any part of the car may be substituted at a meeting EXCEPT the chassis.
22. Cars are limited to front wheel steering and rear wheel drive via a solid, non-flexible rear axle. Any type of bearings may be used on both front and rear axles but differentials/limited slip devices and one way bearings are strictly forbidden. Any style of front axle may be used.
23. No tyre additives may be used.
24. Cars must be fitted with a one or two piece bodyshell of plastic or glass fibre recognisable as being in line with Rule 1. The bodyshell must be firmly fixed to the chassis for racing irrespective of the number of pieces.
25. All cars will drive through a single gear/ single belt configuration. Gearboxes/ multi drive units are prohibited.
26. The driver`s name and race number must be visible from the right hand side (when viewed from the rear) of the car. Nicknames and abbreviations are allowed. The race number is to be a minimum of 19mm (3/4") high.
27. The driver`s grade must be reflected by the colour of their roof wing. If a roof wing is not used the cab of the body must be painted with their grade colour down to the body`s waistline.
28. Engine protectors may be fitted but must have NO sharp edges. The practice of using bolts with the head uppermost is strictly prohibited.
29. Should any construction rule be changed at an AGM that rule cannot be changed again for at least the next 3 seasons.

30. Prototype cars may be used at BRCA sanctioned meeting. They must be registered with the section scrutineer and must still comply with rules 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 21, 23, 24, 26 & 27.

31. The holders of titles should display the following indicators on the roof/wing of their car.

World Champion - Gold Roof

European Champion - Red & Yellow Chequered Roof

National Points Champion - Silver Roof

National Series Champion - Two 12mm wide Silver Stripes

British Champion - Black & White Chequered Roof

English Champion - St George`s Cross

Champion of Champions - One 12mm Silver Stripe

Regional Champions - One 12mm Black Stripe

32. Holders of the junior versions of the titles are required to display the same indicators and include the word "Junior" alongside the symbol.

33. Only the holders of these titles are permitted to carry the above symbols. Any driver not holding one of the aforementioned titles but displaying these symbols will be required to remove it before being allowed to race.

34. Scrutineering must be performed on all of the above prior to every Major, National or Regional meeting by the host club. The Regional reps should assist the club scrutineer should there be any issues.