

2016 BRISCA MICRO STOCK CARS

Technical Information & Procedures



BriSCA Micro Stock Cars are an introductory junior class of short oval motor racing. The aim of BriSCA Micro Stock Cars is to offer a fun way for young drivers to start racing. Racing should be enjoyable fun; where there is little emphasis on intense competitiveness.

VIOLATIONS

When referring to these technical specifications regarding any items such as engine, mechanical or construction, the principle will always be: unless permission is specifically granted to make modifications, or any variation, nothing may be done to alter or change in any way the standard Parts. Unless these rules state you can do it, you CANNOT DO IT.

Violations or any refusal of a scrutineering check will result in an immediate suspension of all racing facilities. Scrutineering checks can be carried out at any time. If parts are suspected of being illegal you must leave them with the promotion if you do not agree. If you refuse it will automatically make the parts illegal.

It is the responsibility of the parent/guardian to prove to BriSCA F2 that the part is legal by the way of written proof of where the part originated. This must be done within seven days, otherwise the part(s) in question will be deemed to be illegal and will result in immediate suspension from racing and referral for disciplinary action.

1. DRIVER REQUIREMENTS

- The minimum age to compete in this formula is 7 years old and all drivers will end on their 11th birthday.
- However, an application maybe made to allow a driver to continue until they are 11 years and 6 months old to enable them to gain more confidence before taking up a further junior formula. This application is not automatically granted and will be considered on an individual basis, and only if their height and weight is suitable for the cars, and that their level of competence does not exceed the general standard of other competitors. For this application to be successful the driver must have competed for at least 12 months in this formula prior to their 11th birthday.
- New applicants are required to complete a multiple choice written test and a basic driving skills test before a licence will be issued. This is chargeable at £50 and must be arranged with your nearest promotion.
- New drivers will be deemed to be 'ROOKIE' drivers for their first THREE meetings and must start at the rear of the grid.

2. THE CAR

- All BriSCA Micro Stock Cars (here on in referred to as the car) must be manufactured by BriSCA F2 official suppliers ONLY.
- Cars are manufactured to strict specifications and all parts must remain as ex-factory condition.
- The chassis must not be altered in anyway, for example no twisting or realigning.
- The chassis must remain in its manufactured symmetrical form. No ballast permitted. All RHS/SHS/CHS steel must remain hollow.
- All chassis are supplied with an official VIN plate which should be located on the very front of the chassis facing the front bumper as circled in the photo.



- If a car is purchased secondhand the VIN plate needs to be registered to the new owner, via BriSCA F2, and a fee applies.
- The chassis VIN plate must be registered with BriSCA F2. Failure to do so will prevent that particular chassis from being used.
- The following maybe replaced or updated without requirement for BriSCA F2 to carry out the repair; panelling to include cab sides, steel cab floor (min 2mm thick), steel cab sides (min 1.2mm thick), wheel guards.
- The addition of flared sides and scoops on the bonnet are only permitted by prior agreement with BriSCA F2. If approval is granted the original bonnet must not be cut in any way to accommodate such items.
- Cars that need major repairs that involve repairs to mounting points, roll cages or main chassis must have these done by the authorised BriSCA F2 supplier.
- The following items do not have to be sourced through BriSCA F2; rear axle mounting bearings, axle shaft pillow block bearings, 22 teeth taper centre pulleys, front hub bearings, rear axle mounting bearings, throttle cables, steering wheel components, batteries, pedals and drive belts. However all of these items MUST be direct replacements to the original items.
- The following bolt on items must be supplied through BriSCA F2; front stub axles, front axle, front hubs, steering rack, exhaust, rear axle, rear wheel hubs, sprocket, fuel tanks, clutch, brake discs, brake callipers, master cylinder.
- The cab floor must be constructed from a minimum of 2mm thick steel plate. It must extend rearwards beyond the point at which it overlaps in a vertical plane (across the entire width of the car) with the transverse front edge of the driver's seat. The cab floor must cover the full width of the area between the chassis rails along the floor's entire length.
- The cab floor must be welded to the chassis on all sides but does not have to be seam welded.
- No drilling or lightening is allowed.
- The underside of the rear rails maybe closed in, particularly to protect the drive gear on shale tracks, and this is free.
- Bumpers must be constructed from RHS 50mm x 25mm with a maximum 2.5mm wall thickness.

3. ENGINE & DRIVE GEAR

- The engine must be supplied direct from BriSCA F2. This is supplied fully sealed, dyno tested and de-governed. Seals must remain intact at all times. The only engine permitted for use is the PD170 engine with $\frac{3}{4}$ " shaft. Both the pull start and electric start versions are permitted for 2016. **For 2017 it is proposed to permit the electric start version only.**
- If a seal is broken the engine must be re-dyno tested before it can race again.
- No modifications shall be permitted in any way whatsoever to any part of the engine or exhaust.
- Engines may be removed for stripping at any time. If the engine appears to have been tampered with in any way the owner will have to stand the expense of the strip down and will be subject to disciplinary measures. If the engine suffers a coil pack failure then this may be replaced by the owner but must be re-presented to have a new seal fitted before being allowed to race again. All owners may carry out a basic service such as changing plug, oils & filters, setting tappets, other than that, nothing

may be done to alter or modify the engine in any way whatsoever unless it is specifically stated within these regulations.

- The only spark plug permitted is the NGK BPR6ES.
- The emulsion tube and Jet must remain as dyno tested.
- The only clutch permitted is a 10 tooth dry centrifugal clutch as provided by BriSCA F2.
- The 62 teeth steel rear sprocket is only available through BriSCA F2.
- No other ratio sprockets or clutches shall be permitted.
- A suitable chain guard must be fitted. This must adequately cover the rear sprocket/chain. The scrutineers decision will be final in determining if the guard is sufficient.
- A 2000 8m drive belt is the only belt permitted for use and is supplied by BriSCA F2.
- Drive belt tensioners maybe fitted, however if they are, their fitment must be sufficient not to work loose under load.
- There will be an engine claimer rule. Any driver who feels that another driver has a superior engine may, through BriSCA F2, make a claim for the compulsory transfer of ownership of the engine in question. In return he/she will be required to purchase a matching type replacement engine to be given to the other driver together with a sum of £30. The engine exchange rule can only be applied after the final race of a meeting. This includes the complete engine with ancillaries, with the exception of the clutch and starter switches. The engine must be removed in front of a BriSCA F2 official.
- The plastic air filter cover box must remain in place and must not have any additional holes. All air filters and covers must remain as standard type.

4. ROLL CAGE

- The rollcage and all supports from the chassis up must remain as originally fitted.
- Older cars are required to have side plate fitted in both cab sides between the tubular connecting bars. These must be constructed from steel plate no less than 1.2mm thick and welded on all sides. SEE PICTURE FOR AREA CIRCLED.
- Furthermore a steel plate minimum of 1.2mm thick must be welded on all sides into the back of the lower half of the cab. This must occupy the full width between the two vertical roll cage pillars, the horizontal cross member and the chassis.
- Older cars are required to add either an additional centre roll cage pillar in the area behind the driver's seat (33mm tube x 3mm wall thickness) or two rollcage braces as pictured below (min 26.9mm tube x 2.5mm wall). It is also acceptable to mount a steel plate to the roll cage (minimum thickness 3mm) to prevent direct contact with driver's seat on a rear impact.



5. Roof Wing

- All cars must run a top mounted roof wing, constructed of aluminium sheet.
- This must be mounted centrally on the car so that it does not sit more over one side of the cab than the other.
- The wing must have no more than two side plates and one centre section.
- The maximum permitted side plate size is 800mm in length and 400mm in height.

- The maximum permitted centre section size is 775mm width and 760mm depth.

6. WHEELS & TYRES

- The only tyre permitted for use is the 18 x 8.50-8 4ply as supplied by BriSCA F2. The following brands are used WANDA, Kenda or Hole In One.
- All identification marks must remain on tyres. No tyre flaps allowed. Buffing of tyres is not allowed. Tyre softener is not allowed.
- Tyres must only be filled with air.
- Tyres must not be re-grooved.
- The only wheel rim permitted is the steel rim supplied by BriSCA F2 and this MUST remain unmodified.
- All wheel nuts must be in place for racing.
- Both rear wheel guards must be present at all times.

7. SUSPENSION & STEERING

- Suspension components must remain as supplied by BriSCA F2.
- Suspension mounting points must not be altered in any way.
- No offsetting/tilting of suspension is permitted beyond that which is allowed via adjustment of the rose joints and mounting bolt. All suspension components must remain symmetrical on the car e.g. the rear axle must be mounted centrally in the car on a horizontal plane.
- The steering column only may be modified or repositioned to suit the driver, quick release steering wheels are permitted.

8. FUEL SYSTEM & FUEL

- Only the steel fuel tank supplied with the car from BriSCA F2 is permitted.
- A full firewall as supplied with the car, must be in place at all times.
- For the full fuel specification please see separate sheet. Note: no fuel additives of any type are permitted.

9. BATTERIES & ELECTRICAL

- An electrical cut off switch must be located within reach of the driver on the dash and must be marked on/off. This must be in full working order and all times
- Batteries must be securely clamped in place under the bonnet. Should the battery be located in the driver footwell it must be completely enclosed.
- Gel type batteries are permitted.

10. BRAKES

- The braking system shall remain as fitted, in full working order with NO modifications whatsoever permitted. Single steel disc on the rear only is permitted – these maybe solid or drilled.
- You may alter the brake pedal to suit the driver, however all pedals must be on the right hand side. No left foot braking.

11. SEATS

- A high back full containment type seat must be fitted. It is highly recommended that the seat is fitted as per manufacturer's recommendations and that the seat mountings adequately hold the seat. Consideration should also be given to head clearance.
- The top headrest of the seat must be fully supported by a tubular steel hoop or bars to prevent any rearward collapse of the upper part of the seat and provide a strong head restraint, otherwise this restraint must be an integral part of the roll cage.

12. SAFETY EQUIPMENT

- All safety equipment must be of a minimum standard as directed by the Oval Racing Council – see separate document.

13. NUMBERS

- Numbers must be displayed on the outside of both roof wing side panels.

- Minimum size for numbers to be advised.
- For 2017 onwards, all numbers must be of professional appearance, painted black on a white background.

14. EXHAUSTS

- The exhaust must be contained under the bonnet of the car and is not permitted to run outside the chassis rails.
- The exhaust must be securely and tightly bolted to the engine at all times.
- You are permitted to run a fake exhaust outside the chassis rails which is not connected to any part of the original exhaust system. This must be secured sufficiently to prevent it from becoming detached during racing.

15. GENERAL RULES OF RACING

- Each driver is only permitted one car per meeting, and each car is only permitted one driver per meeting. A responsible adult must be present at each race meeting with the driver.
- The formula is strictly non-contact.
- Please note that all of the above rules are subject to change in respect of Health & Safety requirements.
- No points, no grades and no championships.
- Starting positions will be determined by ability, with the more competent drivers being required to start towards the rear of the grid – this will be determined at the discretion of the raceday organisers.

**REVISED RULES FOR 2016 IN RED/BOLD/ITALIC PRINT
ITEMS MARKED STRIKETHROUGH ARE NO LONGER ALLOWED
2016 BriSCA Micro Stock Cars
Technical Specifications, Issue v2_16 - Dated 31 March 2016.**

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