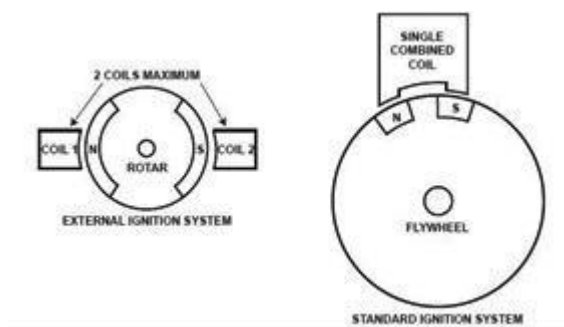


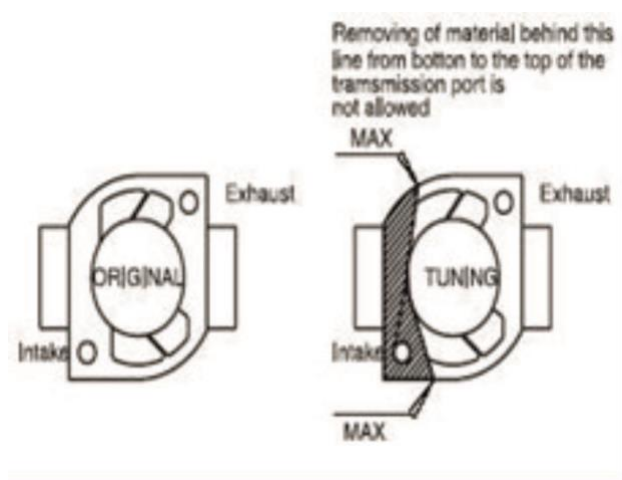
## CONSTRUCTION RULES

- 1.1 The essence of the sport of radio- controlled car racing is competition between models of racing automobiles. All cars must comply with dimensional requirements stated in these Rules.
- 1.2 There are to be no exposed carbon fibre body, wings, or any GRP (glass reinforced plastics) these materials may only be used under the bodyshell, or in the construction of shock towers or chassis.
- 1.3 Wings or bumpers must not be made from metal.
- 1.4 1.4 Bumpers are to be made from a flexible material and are optional at the rear but are mandatory to the front of your vehicle. they must be fitted at all times or they will be deemed unsafe where it will be Black Flagged
- 1.5 Bumpers must be designed to minimise injury that could result from being hit by a car, also to reduce the risk of damage to other cars.
- 1.6 The front bumper shall have a minimum width of 100mm and a maximum width of 220mm when fitted to a buggy and a maximum width of 410mm when fitted to a Short Course vehicle.
- 1.7 All vehicle's must be constructed in such a way as not to have any variable (constantly variable gear drive) or multi speed gear boxes fitted, the section will only accept fixed single speed gearing whilst the vehicle is run on the racetrack, multispeed systems cannot be locked into a single speed.
- 1.8 2 Wheel Drive Buggy
- Shall have an overall maximum length of 820mm and a minimum weight of 8Kgs and a maximum weight of 20Kg.
  - Will have a wing that is no greater than 300mm by 140mm and will not overhang by no more than 150mm. (Overhang measured from the middle of the rear drive shaft to the rear edge of the rear wing).
  - Will have a width, with tyres fitted of no more than 480mm when under full compression. It will also move freely in the size box.
  - When fully compressed should have a height no greater than 360mm.
  - Will have a fuel tank that holds a maximum of 800cc of fuel.
  - Shall have a maximum engine of 26cc (1.5866 Cubic Inch).
- 4 Wheel Drive Buggy
- Shall have an overall maximum length of 820mm, a minimum weight of 8Kgs and a maximum weight of 20Kg.
  - Will have a wing that is no greater than 315mm by 140mm and will not overhang by no more than 230mm. (Overhang measured from the middle of the rear drive shaft to the rear edge of the rear wing).
  - Will have a width, with tyres fitted of no more than 480mm when under full compression. It will also move freely in the size box.
  - When fully compressed should have a height no greater than 360mm.
  - Will contain a fuel tank that holds a maximum of 800cc of fuel.
  - Shall have a maximum engine of 32cc.
- 1.9 Short Course
- Shall have an overall minimum length of 850mm and maximum length of 1000mm
  - Will have minimum weight of 14Kgs weighed race ready without fuel
  - Will have a maximum weight of 20Kg.
  - Will have a minimum width of 480mm, when measured at full ride height
  - Maximum width of 530mm when under full compression. It will also move freely in the size box.
  - Shall have a minimum wheelbase of no less than 600mm (Axle Centres) and a maximum of 650mm
  - When fully compressed should have a height no greater than 350mm.
  - Will have a wing that is no greater than 500mm by 100mm and will not overhang by no more than 180mm. (Overhang measured from the middle of the rear drive shaft to the rear edge of the rear wing)
  - A bodyshell which covers the vehicles wheels must be fitted, The Majority of the Tyre/Wheel should be covered on all axles when under full compression. Construction of a one-piece bodyshell without cage allowed or panel / section bodyshell with cage allowed.  
These should be safely fitted to the vehicle and should be secure so can withstand an impact.
  - Will contain a fuel tank that holds a maximum of 850cc of fuel.
  - Shall have a maximum engine of 32cc
- 1.10 It is the driver's responsibility to ensure that their tank does not hold any more fuel than the class limit. Tanks will be checked randomly in the main A final.

- 1.11 All fuel tanks fitted to vehicles must be fit for purpose, commercially available and safe for the desired use. It will be the driver's responsibility to ensure that their tank aligns to the capacity of the class they race in, any displacement material used should be safe and suitable for the purpose.
- 1.12 Engines must be air cooled single cylinder, 2 or 4 stroke piston engine and assembled in accordance with the appropriate build instructions issued by the manufacturers and engine tuners.
- 1.13 Only fuel that is available from any UK petrol station or Alkylate type fuel (eg Apsen) may be used, no Avgas or specialist racing fuels allowed. The only additive allowed is 2stroke oil, No racing additive.
- 1.14 All ignitions must be mechanically fixed, only manual static adjustment is allowed. The flywheel can only have 1(one)pair of magnetic poles (i.e. one north and one south). There can only be a maximum of 2 coils (either a single combined LT and HT coil with the standard type ignition or two LT coils with the external ignition systems) working with the flywheel/rotor.



- 1.15 The following are not allowed: performance enhancing gases such as Nitrous Oxide, Fuel Injection, Boost bottles, Turbo or Super Chargers.]
- 1.16 No battery-operated ignition allowed. Only a passive ignition system using R.P.M as the single input parameter is allowed.
- 1.17 Only open deck admission ports are allowed on engines below 30cc, they may be closed ports on engines over 30cc.



- 1.18 The cylinder block must be of a single casting, no independent liners or slipping liners are allowed.
- 1.19 The maximum number of admissions ports is limited to 4.
- 1.20 The crankshaft must be of split shaft configuration, with enclosed big end. No half crankshafts allowed.
- 1.21 An air filter must be fitted to the carburettor.
- 1.22 The maximum venturi diameter of the carburettor is limited to 13 mm for engines up to 30cc and 14mm for over 30cc.
- 1.23 Heat sink heads may be used together with long reach plugs. Alternative ignition systems may be used providing they are not battery fed. All engines must be fitted with either a suppressor type plug or suppressed plug cap.

- 1.24 The exhaust must have a second muffler (if a two-chamber exhaust is used) or be a three chamber type muffler. All three chambers must be designed so that the exhaust fumes will pass through and have to change direction twice to get the maximum possible noise reduction.
- 1.25 The design of that additional silencer is free, but with both systems together, the max. noise level must not be over our specified noise limits. The maximum permitted sound level for all cars/ classes is 81dB (+4db tolerance), measured at 1 metre above the track and no less than 10 metres from the car.
- 1.26 Any exhaust fitted shall comply with noise guidelines laid down by the host club or BRCA\ MSA guidelines whichever is the lower. In practical terms no driver will be allowed to run with a car making enough noise so as to cause problems for the club on whose circuit the event is being run. Either kit standard exhausts (Zenoah can style) or 3 chamber exhaust systems are usually sufficient.
- 1.27 Open exhausts or pipes are not allowed.
- 1.28 The exhaust system to be mounted such that the manifold does not protrude further forward than the front window post and the system must run as close to the body as possible.
- 1.29 Stingers must not be mounted transversely (across) the underside of the rear wing.
- 1.30 Forward routed exhaust systems must not protrude from any forward-facing part of the bodyshell.
- 1.31 Cars with uncovered exhausts must have shields in place covering the exposed hot areas. Un-silenced or "open" exhausts will not be allowed regardless of location.
- 1.32 The manufacturers Kill Switch must be made easy to both access and operate, access provided, if necessary, by cutting a hole in the bodywork. All cars will be tested to see if their kill switch works on the start line and if not, the car will not be allowed to run in that heat or final.
- 1.33 All LIFE\LIPO type batteries used as receiver batteries MUST be of the HARDCASE type and are charged in accordance with manufacturer's instructions and within a suitable charging sack.
- 1.34 Tyres must be black except for sidewall detail.
- 1.35 Tyre additives are allowed but must not be added in the pit lane area.
- 1.36 Axles must not protrude the wheel or wheel nut by more than 1.5mm which ever protrudes the most.
- 1.37 Only Personal Transponders will be used to record laps.
- 1.38 Transponders must be fitted in such a way as to keep them as free from damage as possible, preferably inside the car as close to the ground as possible, as horizontal as possible, and away from any potential heat source. It is also recommended that they are not mounted directly above alloy or carbon fibre surfaces. It is the driver's responsibility to ensure the fitted transponder is working and laps are being recorded. The timekeeper/race director will make the driver aware that there may be an issue and it should be rectified once the driver has marshalled and before they come out again.
- 1.39 All radio frequencies must be either 40 or 27 MHz, Am or Fm, or 2.4 GHz. If a driver books in on 2.4 GHz and has a problem, then it is on the onus of the driver to arrange with Race Control to change to a 40 or 27 Mhz. crystal. Under these circumstances a driver cannot request a delay in order to change crystal. The driver must ensure that they have sufficient crystals so as not to clash with any other driver placed either above or below them.  
All drivers must be able to demonstrate their car has a fail safe set for Throttle servo to either a brake or neutral position with loss of signal from the TX.
- 1.40 All drivers on 40 and 27 MHz will be required to have available no less than 2 and preferably 3 frequencies (per car) and to be prepared to change to the frequency stipulated by the computer. Frequency changes can be requested on the day, (to cure interference etc.), but the heats will not be regenerated, and the onus will be on the individual to consult with the Race Director about the change, to avoid a frequency clash. Note drivers should note that the computer, in generating the heats, tries to avoid the same two crystals being used in adjacent heats which are obviously beneficial. No changes to be made without the consent of the Race Director.
- 1.42 The use of electronic parts for "Traction Control & Breaking Control (ABS)" which can control the power of the transmission by means of a feedback system. Active telemetry transmission is prohibited. Sensors are only allowed for the purpose of passive data recording and not for adjusting the performance of the car whilst in motion. The reading of the data must be done with equipment, inside or mounted on the driver's radio. No external devices (i.e. in the pit/ handheld by the mechanics) are allowed. The systems are not allowed to log the data.
- 1.43 Any plug with a loop wire to be not allowed as a switch due to safety issues

## PROCEDURAL RULES

### 1. CLASSES OF RACING

- 1.1 Buggy Class
  - 1.1.1 This racing class welcomes 2 and 4 wheel drive buggies.
  - 1.1.2 BRCA 2 Wheel Drive Buggy Championship will be for entrants in accordance with LSOR Construction Rule 1.7.
  - 1.1.3 BRCA 4 Wheel Drive Buggy Championship will be for entrants in accordance with LSOR Construction Rule 1.8.
- 1.2 Short Course Class
  - 1.2.1 This class is our newest class and is for the short course truck.
  - 1.2.2 BRCA Short Course Championship is for entrants in accordance with LSOR Construction Rule 1.9.
- 1.3 Scrutineering
  - 1.3.1 Scrutineering will be on a random basis, with a size box, being provided to allow drivers to check their vehicle dimensions. Any driver or marshal can ask for a particular car to be checked, if there are grounds for suspecting it's conformity to the rules.
- 1.4 Transponders
  - 1.4.1 All National events are timed using a MYLAPS RC4 decoder and as such all drivers are to ensure their personal transponder works with the timing device. The Race Director is not responsible for any missed laps during the meeting. They will inform any driver of any transponder issues at the earliest opportunity during the meeting.

### 2. CHAMPIONSHIP PERIOD

- 2.1 The BRCA LSOR National championship is an 8-round championship which runs from spring each year until just before the BRCA AGM in October.
- 2.2 Within each classed race there will be three titles available, depending on numbers, a National champion, and 2 regional champions. An award will also be given to the highest junior in each class.
- 2.3 Each National championship is awarded on points from the best 5 rounds of the season. if there is a tie then the sections Non-scoring countback rules apply which means the points from the 6th meeting are used to see who finished the highest, if this is a tie then the 7th meeting results are then used.
- 2.4 The 8 round National Championship will have 3 rounds nominated as Northern Meetings and 3 that are nominated as Southern meetings based on their rough UK geographical location. The last round of the season (round 8) will then be the regional championship finale where points will be available for both Northern and Southern championships. The finale round will score double points.
- 2.5 The regional championships are awarded on points from the best 3 rounds of the 4 available (3 dedicated rounds and the finale). If there is a tie, countback will apply to the 4 score. Drivers are only allowed to enter one regional series.
- 2.6 Drivers who finished in the National Championship top 5 of any class from the previous season are exempt from entering the regional championships for the forthcoming season.
- 2.7 The highest junior award will be determined from the highest placed with racer who holds a BRCA Junior licence within the national championship.

### 3. GENERAL STANDARDS FOR BRCA SANCTIONED MEETINGS

- 3.1 Sanctions are only granted, on application, by the BRCA LSOR Committee. All submissions must be received for consideration ahead of the Section AGM; the calendar will be published before the start of the next season. Dates are subject to 'force majeure'.
- 3.2 Track Applications for inclusion on the National Calendar should only be sent to the section for the following year if the Track is seen as a national standard venue and should be inspected by a safety officer/committee members to ensure the track complies with the rules and is in a complete and usable state where a meeting can be held. the track must not be moved or have any major changes made once added to the calendar. Any new track should have run a meeting before this to ensure no issues.
- 3.3 Nationals must be arranged by a club organisation unless 'force majeure' dictates otherwise.
- 3.4 It is the national venues responsibility to arrange the collection and return of any equipment which traditionally the race director has transported to their round(s), The race director/time keeper will transport to each national:
  - Sections laptops, router, printer, twin mic system, and timing decoder.
- 3.5 Clubs are reminded that the track specification is a minimal 4m width with a gap of 1m between the safety fence and outer track edge.
- 3.6 All marshal points are to have 3-sided protection for added safety.

- 3.7 Due to the inclement weather host venues for a national event must have, or provision for a roof on their rostrum to protect all competitors/officials from the elements.
- 3.8 During any open practice sessions, the number of drivers on the rostrum are limited to no more than the venues marshal points.
- 3.9 Clubs need to provide toilets, a wired PA speaker system (the section will bring its own amp and mic) which is available to all drivers on and off the rostrum.
- 3.10 If possible, provision for a waterproof Parc fermé and scrutinising area along with a suitable monitor and cable set up to display the race results and our noise system display outside of race control once connected to the VGA/HDMI output on the Race Directors PC's.
- 3.11 To help with the drivers experience of attending a national venue it is recommend that the host club provides a track map which can be used to identify the marshal points in use and their number.
- 3.12 Where evening entertainment has been provided for the driver's enjoyment it is anticipated that by midnight it will have died out and any generators will also be turned off as well.
- 3.13 LSOR host clubs must not hold club days on National race dates or the AGM date.
- 3.14 Health & Safety. BRCA General Rules - see BRCA Handbook. The main straight and any associated sweeping corners must be fenced or located so that the general public are protected from any potential hazard.

#### **4. TRACK SPECIFICATIONS**

- 4.1 The track should be positioned to minimise any unfenced (over and above the track edging) track edges accessible to the public or racers. Spectators and marshals are to be protected from the risk of being hit by cars. A suitable safety fence is to be constructed to protect marshals in dangerous areas such as the end of the straight, or points where traffic on another part of the track is travelling towards the marshal from behind. The BRCA officials can and will makes changes as required to ensure the safety of everyone present at the event.
- 4.2 The width of track is to be measured between the track markings and be a MINIMUM width of 4m. If a track is found to not comply, then the BRCA officials present can and will adjust the track as required prior to the start of practice. Corner cutting must be discouraged by the placing of adequate corner markings and barriers.
- 4.3 Track marking equipment must be such a shape and size to prevent the entrapment of a car or the driver's view becoming obscured. All track markings are to be as flexible as possible and of material to cause minimal damage to a competitors vehicle and minimise the risks of the cars becoming airborne.
- 4.4 The loop, 1m penalty box (if provided), start and finish lines shall be clearly marked on the track. The start line must be placed so that race officials have a clear view to identify any jump starts.
- 4.5 Drivers must have a clear view of the full track from any position on the rostrum. The rostrum must be positioned to minimise the risk of people obstructing the driver's view. The rostrum ideally must be a minimum of 40' in length, 8' high and be able to accommodate 15 persons safely (i.e. with good margin). The front must have a safety rail and kickboard and the floor should be constructed of solid material and be all at one level. All steel rostrums must be fully earthed in at least two places. The rostrum must be secured safely to the ground with no risk of movement during the event.
- 4.6 All rostrums must have facilities if required to provide a roof structure to protect drivers and their radio gear from inclement weather ( wind / rain / strong sunlight) and be available for use for the full weekend.
- 4.7 The rostrum may be marked into a minimum of 15 equal sections, enabling 14 drivers to see which space is available, as well as room for an official.
- 4.8 For finals the drivers will take their positions in qualifying order to allow them their preferred position.
- 4.9 The main straight where feasible to be on the opposite side of the track to the rostrum.
- 4.10 No competitor should be pitting in the area designated as race control.
- 4.11 Any person inside the safety fencing must be directly involved with the racing, i.e. marshals and mechanics. At the start of a heat or final, mechanics, on the release of the cars, must return to the pits as soon as possible, with marshals standing at their designated positions.



- 4.12 Track features will be 'vetted' before the commencement of a meeting and, with the agreement of the majority of Committee Members present, removed if deemed necessary. Over the weekend and no later than the start of qualification, the sections safety officer, or nominee, and a representative of the club will review the associations risk assessment and note any exceptions and mitigation actions taken to ensure a safe meeting is run. The signed form shall be retained and a copy emailed to the association at [risk.assessment@brca.org](mailto:risk.assessment@brca.org) within 3 days of the race meeting.
- 4.13 Tracks should not contain a 'crossover' where cars pass under and over each other unless car visibility remains at all times from the rostrum (using a transparent material) and there is no risk for cars becoming stuck underneath the underpass.
- 4.14 No car shall be used outside of the track vicinity at any time of a race week-end (including periods when the race event is not taking place). A small controlled area can be set up for use, to be completely fenced in by double fencing, at the Race Organiser's discretion. This is not compulsory on the Race Organiser.
- 4.15 No motorised bike/bicycle/scooter is allowed to be used within or outside of the track vicinity at any time of a race week- end (including periods when the race event is not taking place). This does not include motorised vehicles required for disabled members of the public.

## **5. ADMINISTRATION**

- 5.1 Details of entry must be made available at least 28 days before the closing date of the event. Entries will be limited to nine heats each weekend. Entries and subsequent heat allocations by class must be dealt with on a first come, first served basis.
- 5.2 Entries for a meeting will only be accepted from current BRCA members and must be accompanied by their BRCA membership number. The entry fee will be set annually at the section AGM.
- 5.3 Entry fee includes Saturday practice and all racing on Saturday and Sunday. One Class entry per BRCA member.
- 5.4 Prior to the meetings drivers are to pre- register via the sections on-line booking system through the LSOR section area on the BRCA main website at [www.brca.org](http://www.brca.org) or as indicated on our Facebook page.
- 5.5 All pre-registrations are to be done by midnight 8 days preceding the meeting. Late registration will be allowed up to the day of the meeting, but entry cannot be guaranteed and will incur an additional fee of ~£10. Late registration entry that is after the publication of seeded heats will not result in reseeding of the heats and drivers will be placed in to a heat at the race directors discretion.
- 5.6 Anyone attending a national meeting MUST wear hi-viz jackets when they are within the track area (within the fenced off area), on the rostrum, and includes collecting and placing your car in the pit lane. Any mechanics or anybody marshalling on a racers behalf will also need to be wearing a hi-viz top. The section no longer provides Hi-Viz tops and any driver who turns up without their hi-viz will be excluded from the meeting.
- 5.7 Anyone attending LSOR events wishing to fly any kind of aircraft must at all times comply with the CAA Drone and Model Aircraft Code and where applicable hold an Operator ID and Flyer ID. Flying is prohibited at all times the track is open and a meeting is underway. Where venues allow you to fly, you may do so away from the track, pitting and attendees camping area. Failure to follow these rules may result in disqualification from the event and potential exclusions from future events.
- 5.8 All racers are reminded that the section rents the host club and as such the general conduct of entrants must be in line with the BRCA handbook.
- 5.9 In line with the associations constitution if the committee feel a driver is under the influence on race day they will be asked to prove their legibility to race by undergoing a breath test of which a positive outcome will exclude them from the days racing and recommend that they do not drive straight home.

## **6. OFFICERS OF THE MEETING**

- 6.1 A sanctioned event must have the following officials present:
  - A. Race Director and Chief timekeeper, who will be present in race control throughout the timed heats and finals checking that the timing equipment is operational and that all races have been started and finished in accordance to the rules.
  - B. The Head Scrutineer or delegate, who will ensure that all cars meet the class requirements of the section.
  - C. Safety Officer, who will ensure that the host venue is safe and populate the required risk assessment with a club representative.
  - D. A track repair and maintenance nominee from the host club, who will ensure that all necessary track repairs and general maintenance/facilities tasks are carried out in a timely and satisfactory manner.
- 6.2 The BRCA Steward has absolute authority at race meetings and for interpretations of the rules.
- 6.3 When feasible a Referee for each Heat and Final allocated by the BRCA Steward - see 7.1.

- 6.4 Notwithstanding the regulations within this handbook, the committee reserves the right that, at a race meeting, should a situation arise, requiring a decision, which is not met by the existing rulebook, the committee members, present at the meeting, shall be able to make a decision or interpret on existing rules to make a decision and that such decision shall stand.
- 6.5 Elected Race Director to be a non racing role

## **7. REFEREES**

- 7.1 Where practical a provision shall be made for a Referee in all heats and finals. This will usually be the sections own referee or a racer/racers nominated by the committee; these racer(s) will referee instead of marshalling. Failure to referee will bring the same penalty as failure to marshal.
- 7.2 The nominated racer(s) in rule 7.1 are to be announced at the driver's briefing.
- 7.3 The Referee should have an unobstructed view of the entire track, and preferably a view of the drivers on the rostrum.
- 7.4 The Referee may request drivers to allow a faster car to overtake, issue warnings to drivers, and issue penalties to drivers, refer to Procedural Rule 14
- 7.5 A microphone will be provided for the Referee to allow clear communication to the driver's rostrum, and a timing screen on the rostrum which can be viewed at a glance without looking away from the track. The referee must have their own clearly marked space on the rostrum with a good view of the track.
- 7.6 Each car must have 3 correct race numbers fitted, one on the top/horizontal place of the body and the other two on either side on a vertical plane (not folded over an edge).

## **8. RACING PROCEDURES**

- 8.1 A driver's briefing (all racers and marshals to attend the briefing) will be scheduled at the start of each race day, with racing commencing within 15 minutes of the drivers briefing with the sections aim of completing the last race around 6pm.
- 8.2 Saturday Practice will be open practice with no time rules or marshalling requirements and will be for a minimum duration of 4.5 hours. The start time will be no earlier than 9am and no later than start at 10am, subject to the event time schedule. Where feasible open practice will be available for those who arrived on the Sunday ahead of the first heat of the day but this cannot be guaranteed.
- 8.3 The drivers briefing will include:
1. Welcome and introduce the Race Officials by name.
  2. Clearly explain format of the event, including:
    - [a] Number of heats, rounds and qualification system for finals.
    - [a] Interval between qualifying rounds and between finals.
  3. Explain procedures for finding out their heat, race number and frequency.
  4. Point out:
    - [a] Entry/exit points for the track vicinity (including pit lane and rostrum).
    - [b] Luminous yellow jackets to be worn by all in pit lane.
    - [c] The location of the results board.
    - [d] Location of safety equipment.
    - [e] Toilets, refreshments, etc.
  5. Explain the start/finish procedure:
    - [a] Qualifying - rolling start procedure.
    - [b] Explain heat finish signals.
  6. Explain marshalling procedure:
    - [a] Marshal the heat following your own.
    - [b] First heat is marshalled by drivers from the last heat.
    - [c] Substitution of marshals only allowed with Race Director's approval.
    - [d] Marshalling shall only be done by drivers over the age of 16 (or with parental and race director permission for 14-15 year olds)
    - [e] All Marshals and Drivers must wear hi-viz tabards.
  7. Mention any specific requirements from the local host club.

- 8 Announce start time for first practice race.
- 8.4 Drivers will need to be in the start area, with transponders fitted before the previous heat finishes. When feasible a 15-minute class break will occur before each class final. Durations of heats and finals is dependent upon attendance levels with heats ideally being 10 minutes in duration, and finals being between 10 and 30 minutes.
- 8.5 The Race Director in consultation with the LSOR committee members present will have the final call on durations taking into consideration weather conditions, current and anticipated time of completion.
- 8.6 Drivers will be seeded on handicap for qualifying mainly based on current championship position with the option to adjust based on recent performance at the race directors discretion only.
- 8.7 Drivers must marshal one Heat after their own race, unless they have been designated as Referees (see 7.1) or instructed otherwise by race control. All marshals must be BRCA members and have attended the driver's briefing (or at least been asked to) and have received Section marshal training. If a competitor is unable to marshal for any reason then they must provide a suitable substitute after seeking permission to do so from the meeting steward. Failure to marshal or provide a substitute in qualifying will result in the loss of that competitor's fastest qualifying time. Failure to marshal or provide a substitute during finals will result in disqualification from the event. If a driver takes too long to get to their marshal post during the heat change over then this will result in the loss of that competitors fastest qualifying time.
- 8.8 The Race Director or Referee are to make sure there are sufficient marshals and that they are suitably spread around the track.
- 8.9 Competitors may only drive during their race and then only from the rostrum.
- 8.10 Competitors not in the race must not interfere with the progress of any driver within a race or in the pits. Where feasible, no driver is to leave the rostrum until the race is declared over or unless instructed to do so by the Race Director for vehicle recovery.
- 8.11 A race may not start unless in the presence of the Race Director or deputy or the appointed Race Referee.
- 8.12 Rolling starts will be employed for the heats.
- 8.13 The repair time between each round of heats will be at the Race Director's discretion, taking into account such factors as heat numbers, time of year, numbers of drivers, etc.
- 8.14 Staggered start positions will be employed for the finals, with a nominal 5 meter gap between cars.
- 8.15 In all finals the cars are to be placed on the track before the timing loop so when called to the starting line all transponders can be checked for operation and where possible the Race Director will inform the drivers of any failure, this will not stop the formation of the grid and any vehicle whose PT does not work returns to the pit lane and starts safely from there rather than traveling back to the grid, thus leaving a place on the grid.
- 8.16 Only the Race Director, deputy or the appointed Race Referee may call for a restart or abandon a race.
- 8.17 Each car in the national series will be inspected to ensure that it meets the requirements of the section handbook.
- 8.18 Qualifying results will be posted after every round. Final results will be posted at least 10 minutes before prize ceremony.
- 8.19 The trophies or prizes will be awarded at the end of the meeting.
- 8.20 The committee recommends the use of a referee to assist drivers in all heats and finals.
- 8.21 During a race, no-one other than the Race Control officials can pass any information to a competitor; this does not include drivers requesting one another to allow overtaking - or passing on information to each other regarding cars that have stopped on the circuit.
- 8.22 It is the driver's responsibility to ensure the correct transponder is securely attached to their car and working. If the equipment should fall off, the car will not be counted.
- 8.23 No refuelling is permitted during qualification heats or finals including warm-up time. Anyone refuelling on the track will be disqualified. Drivers are advised to have a small dry powder fire extinguisher to hand in their pits.
- 8.24 The scrutineer will check for excessive noise and appropriate action will be taken, during the execution of the national series the section will be utilising an automatic recording system to record the noise levels as each vehicle passes a dedicated point on the circuit.
- 8.25 It must be understood by all drivers that any failure of the exhaust system whilst out on the circuit will require the car being removed immediately from the circuit until the fault is repaired, any driver who does not pull over/off within 2 laps of being notified will be penalised accordingly by the loss of their fastest lap in qualification or 1 lap penalty in their final. Cars with bumper damage or no bumper will be black flagged due to safety.



- 8.26 Delays will not be allowed for heats. In unforeseen circumstances, A driver may call a 10 minute delay at the beginning of their final up to the point of the first car being called to the line. Only one delay per final is allowed to be called. To ensure fair play the car calling the delay shall be worked on within the track area if fuel has already been measured into it, if a delay is called once the engines have been started then upon the restart the grid will form via the shortest route to the start line. The 10 minutes is the maximum time a driver may have to repair their vehicle, if they are not ready after the time delay then the final will be started without them and they are free to join from the pit lane once the race has commenced. If the vehicle is repaired within the delay period and the Race Director is made aware that the driver is ready then at his discretion he may call the cars to the grid rather than waiting the remaining time. During the delay all remaining drivers and cars shall stay within the track perimeter/rostrum area waiting for the restart. During the delay period no other cars maybe worked on or leave the pit lane area otherwise they will also be penalised and start behind the delayed start vehicle at the rear of the grid. All the other cars will start in their correct positions with gaps left in the grid from the penalised car/s which will then start in 1th, 12th etc. in order of receiving penalties.
- 8.27 Radio headsets and communication between drivers and pit lane is strictly forbidden during qualifying and finals. Should a driver wish to communicate with the pit lane, they must leave the rostrum and enter the pit lane. Radio headsets are permitted during practice. Driver headsets should be single ear type only. They must be left within the Parc ferme/ rostrum area whilst recovering their vehicle or marshalling.

## **9 MARSHALLING**

- 9.1 When possible, the Scrutineer will not carry out any marshalling duties.
- 9.2 No one under 14 years of age is allowed to marshal and the racer must provide a suitable replacement marshal (e.g. parent) who is a BRCA member. Racers aged 14-15 may marshal subject to parental consent is given to the race director and both the BRCA Steward of the event and Race director deem the racer competent enough to undertake marshalling duties. If not, a suitable replacement marshal must be nominated.
- 9.3 Marshals must wear high visibility reflective vests or jackets, these are to be worn not only when marshalling but also when you are on the rostrum driving.
- 9.4 Marshals to be advised to wear stout shoes or boots and wear heavy duty gloves, safety glasses, and their own high visibility reflective vest/jacket.
- 9.5 If a car's engine has stopped, the car must be taken off the track, the marshal is allowed 3 pulls in attempting to restart the engine and that is all. If the car does not start, he must return to marshalling immediately, no other fixes or repairs are allowed to be performed.
- 9.6 Whilst marshalling drivers are reminded that there should be no smoking, use of mobile phones or cameras trackside. Anyone seen not following these rules will incur a penalty of the loss of FTQ in qualification, or a 3 lap penalty in their final.
- 9.7 In the first instance the driver shall marshal the post associated with their race number unless instructed by the race director or referee.

## **10 TRACK SIDE REPAIRS**

- 10.1 No vehicle should be worked on track side after the attempted three pulls trying to restart them. Electric starters are not permitted on the track, pits and pitting areas only.
- 10.2 If the vehicle does not restart, it is the driver's responsibility to recover their vehicle and in doing so they must not take their radio transmitter onto the track, it must be left within the Parc fermé/ rostrum area whilst recovering their vehicle and brought back to the pit table for repair.
- 10.3 If your vehicle has been taken out of the track area for repair during your heat then it should be returned to your designated Parc fermé slot to ensure no unfair advantage is gained from additional pit time during your designated marshalling period.
- 10.4 Any vehicle returning to the track should do so from the pit lane and exiting such device in the track direction of the meeting. Any one not adhering to this rule will be penalised by the Race Director.

## **11 PARC FERMÉ & MARSHALLING**

- 11.1 Upon finishing each heat, each driver is to place their vehicle in the dedicated Parc fermé vehicle slot (car 1 in slot 1... car 10 in slot 10) after the previous vehicle has left the slot.
- 11.2 If your vehicle has been taken out of the track area for repair during your heat then it should be returned to your designated Parc fermé slot to ensure no unfair advantage is gained from additional pit time whilst you are marshalling.
- 11.3 Upon placing the vehicle in the slot the driver or nominee should go out to Marshal straight away and marshal their respective heat (vehicle remains in Parc fermé even with a nominee marshalling).
- 11.4 Upon receiving notice from the Race Director that the heat is over the marshal should collect their vehicle from Parc fermé and leave the track area once they have been relieved of their marshalling duties by the next rounds marshal.
- 11.5 Any driver who does not adhere to this procedure will be penalised with the loss of their FTQ during the heat the BRCA LSOR Race Director will review the vehicles in the Parc fermé area.

- 11.6 After the running of the Semi B final if double sided finals are used the top five vehicles are to be placed in Parc fermé for the duration of the Semi A final (those taken to the pits for work prior to the end of the semi are to be returned to the Parc fermé area) to ensure all main finalists have the same amount of time to prepare for the main final. Any driver caught working on their car will incur a 30 second penalty in the main final.
- 11.7 A head of each class "A" final all vehicles (empty of fuel) and drivers should go to Scrutineering and at the race directors\ scrutineers discretion a BRCA official will confirm that the driver's vehicle conforms to the class fuel limit requirements. Even if your vehicle is not checked it is your responsibility to ensure your tank holds the class maximum and no more.

## **12 CURTAILMENT PROCEDURES**

- 12.1 In the event of a 'rain off' situation, there will be a driver's vote to decide on one of the following courses of action: Cancellation of the meeting, re-running of the meeting, cancel the meeting from the championship or to close the meeting and award the points as per the last end of round overall qualification positions.
- 12.2 If an heat or final suffers a technical issue within race control (computer, decoder drop outs etc) and as not completed 50% race distance (time) it will be rerun, either directly or delayed until the end of the round. If 50% as been completed then the results will stand as at the last passing of the working system.

## **13 FINALS**

- 13.1 The final positions will be based upon the drivers' best two scores from the three qualification rounds and their relative round position and associated points.
- 13.2 Points scored per round are based upon the laps completed and time achieved.
- 13.3 For all rounds the fastest driver (most laps in the shortest time) will score zero points. The second fastest will score 2, third fastest 3 and thereafter a point more per position in the round table up to the maximum of the class numbers.
- 13.4 After the three rounds the driver with the lowest 2 round points position is first overall and those scoring more will be ranked on their points above the first place driver.
- 13.5 The driver's lowest total can come from any combination of 2 from the 3 rounds.
- 13.6 Staggered start positions will be employed for the finals, grid positions will be 5 meters apart from each other and the 1st position is to be placed as such as not to give the 1st position a significant advantage.
- 13.7 The finals will be either double sided with 5 drivers from each semi qualifying or single sided bump up format at the Race Director's discretion, drivers will be notified of race format at the drivers briefing. If double sided semis are run then the main final will be gridded as follows:-  
Semi-Final A-Final Position Finishing Position  
Fastest 1st Place = 1st Place  
Fastest 2nd Place = 3rd Place  
Fastest 3rd Place = 5th Place  
Fastest 4th Place = 7th Place  
Fastest 5th Place = 9th Place
- 13.8 Points will be awarded as follows:- the winning\highest driver per championship will receive 100 points, second place 99, third 98 and so on. The section uses the non scoring rounds count back rule for tied positions within its championships.
- 13.9 Drivers failing to complete a lap in their final will be awarded last place in that final. If this applies to more than one driver then qualifying positions will be used to determine the order, i.e. the higher qualifier will be placed before the lower.

## **14 PENALTIES**

- 14.1 Jump starts in a final will result in a ten second penalty or if the final is restarted then the car starts from the back of the grid.
- 14.2 Failure to marshal or provide a substitute in qualifying: loss of fastest qualifying time.
- 14.3 Failure to marshal or provide a substitute during finals: disqualification from the event. Failure to marshal competently: loss of previous time or final result.
- 14.4 Corner cutting: - if a competitor cuts a corner deliberately or as a result of an accident then they must wait for the referee to instruct them to continue, or wait for a period of time so no track advantage is gained or wait for a marshal to return their car to the point at which it originally left the track. Failure to do so will result in a one lap penalty being applied at the end of the race.
- 14.5 Technical inspection: - failure to meet the technical and dimensional requirements of these rules results in loss of heat/final time.
- 14.6 The black flag will be shown only by Race Director, Referee or deputy. The car it applies to must stop and be removed from the track unless otherwise instructed. Any car that loses its body or bumper becomes a safety hazard, is causing damage to the track, fixings and markings and/or driving incompatible with general safety will be black flagged

- 14.7 Any car that is intentionally or continually running into other cars so as to slow their progress will be issued with a penalty and/or warning by the Referee, and if it continues will be black flagged.
- 14.8 A car that is black flagged is disqualified from that race.
- 14.9 If a race is subsequently abandoned, a black flagged driver can only take part in the rerun at the Race Directors discretion.
- 14.10 Penalties for warnings given for driving infringements are :- First Warning - No penalty Second Warning - Stop & Go penalty Three successive warnings and/or penalties lead to disqualification from the meeting.
- 14.11 If a front running car makes contact or impeded a back markers progress they will not be penalized unless the contact was adjudged by the referee to have been intentional
- 14.12 There will be a ten minute protest period between the end of qualifying and the start of the finals.
- 14.13 Failure to line up properly or stay stationary on the grid will incur a 10 second penalty. Drivers with this penalty must not complete the lap but must drive into the pit lane (or designated area) and wait for the allotted time until released by an official. If a driver puts in an extra lap after being called to the line he/she will be made to start from the back of the grid.
- 14.14 Excessive use of bad language on the rostrum or in race control will incur a warning. If this warning is not heeded a one lap penalty will be awarded.
- 14.15 Driving or otherwise behaving in a manner likely to cause injury to other drivers or spectators may result in disqualification from meeting.
- 14.16 If a driver is being lapped he/she must not intentionally block the overtaking car, neither must the overtaking driver use heavy tactics to enable him/her to pass the slower driver.
- 14.17 Drivers missing parts of the track out during the warm-up in order to spread themselves out for a good qualifying run and infringe any other vehicle circulating normally will receive a 10 second penalty.
- 14.18 Vehicles will be checked for excessive noise and appropriate action will be taken. The maximum permitted sound level for all cars/ classes is 81dB (+4db tolerance), measured at 1 metre above the track and no less than 10 metres from the car. Drivers are encouraged to fit airboxes to meet the noise limit, however air boxes are not mandatory for any car passing the noise test. Any driver not passing the sound meter at their racing pace to obtain a lower reading will incur the same penalty as a car failing the check. Cars failing the noise level after at least 10 valid readings will be penalised by either the loss of FTQ or a 3 lap penalty if in a final. Under exceptional circumstances common sense will be used.
- 14.19 Any driver or mechanic carrying a headset or a transmitter on the track will be penalised as follows:  
During practice and qualifying – loss of fastest qualifying time  
During finals – 1 lap penalty

## **15 INTERNATIONAL TEAMS**

- 15.1 Where applicable team selection shall be based upon the season championship standing if the UKs allocation is limited and the number of drivers wishing to attend exceeds our allocation. Drivers must have competed in enough meetings to be eligible for the Championship. The LSOR committee may allocate up to 20% of the available places for EFRA/IFMAR events at their discretion to cater for reallocation.
- 15.2 Whilst the BRCA LSOR section welcomes drivers who wish to represent the section as part of an international team it should be noted that any driver who represents the section should be willing to attend all team meetings and undertake their marshalling duties during the event as rostered by the team manager/needs of the event. If team members decide not to attend these meetings, support the team or leave before they have completed all their marshalling duties then the section will not necessarily guarantee their place at a subsequent event when requested by the member.

## **16 PROTESTS AT A RACE MEETING**

- 16.1 All protests must be made in writing to the Race Director, together with a £20.00 deposit. If the protest is upheld, this money will be reimbursed. The protest period of fifteen minutes shall commence when the results are published on the results board. Protests regarding the legality of cars must be made in writing, together with the fee, to the Race Director.
- 16.2 If any protest is made against a competitor, then that protest must be held in the full knowledge of that competitor. The accused competitor will be consulted and allowed to defend his actions before a decision is reached.

## **17 POST MEETING PROTESTS**

- 17.1 All protests must be made within 15mins of completion of the last main final, together with a £40.00 deposit. Within 30 calendar days of the effected national sanctioned meeting any protest will be investigated and closed out by the section committee. If the protest is upheld, this money will be reimbursed.

- 17.2 If any protest is made against a competitor, then that protest must be held in the full knowledge of that competitor. The accused competitor will be consulted and allowed to defend his actions before a decision is reached.

## **18 SECTION AGM**

- 18.1 Refer to main BRCA handbook constitution rule 14.

## **19 AGM PROPOSALS**

- 19.1 Refer to main BRCA handbook constitution rule 14 .