

1/10th I.C. Circuit

1 RACING FORMAT

- 1.1 Races will be called **BRCA 1/10th I.C. Circuit**
- 1.2 Where possible four rounds of heats will be run. This will be at the Race Director's discretion. Heats will be of five minutes duration.
- 1.3 Heats will be started using a rolling, staggered start.
 - 1.3.1 Cars are assumed to be running before the start in the 'warm-up' period between heats. The drivers will be warned of the start of the race 1 minute and again 30 seconds before the start.
 - 1.3.2 A car's race time will start the first time that car crosses the timing loop after the start has been signaled. The car's race time must only be started by the car's transponder unless it has not completed a full lap when the race time clock is at 30 seconds, at which point all un-started clocks will start.
 - 1.3.3 After failure to make the start or on any re-starts during a heat the car must enter the track from the pit lane exit.
 - 1.3.4 For the 235 Sports GT, IC Truck and Scale Rubber classes, heats in qualifying will comprise 10 cars wherever possible. If this produces a 'first heat' with so few cars that marshal provision for the next race is impractical, all heats will be adjusted in size so as to produce an even number of cars in all heats in so far as this is possible.
 - 1.3.5 For the 200m Touring Class all heats shall contain 10 cars with the exception of heats 1 and 2 which may contain fewer cars.
- 1.4 **Series Points:**
 - 1.4.1 Finals: The winner of the A Final will receive 100 points, 2nd place in the A Final will receive 99 points and so on down to 10th place in the J final who will receive 1 point. All further drivers will receive 1 point. Only drivers who complete at least one lap will be awarded their points for the Final.
 - 1.4.2 The driver who achieves the fastest time in qualifying (FTD) will be awarded one extra point.
 - 1.4.3 In the event of a points tie, the winner will be decided on count back. The competitor with the most event wins will be victorious, if this leaves them still tied, the competitors' highest points scores will be compared, then the next highest, then the next etc. until one competitor emerges with a better result. If all results are identical a tie will be declared.
- 1.5 **Finals**
 - 1.5.1 Echelon or Grid starts will be used for all finals in BRCA 1/10th IC Circuit events.
 - 1.5.2 Finals in all classes will be A-Z type format with qualifying by FTQ.
 - 1.5.3 For one Round of the 200mm Touring Championship, (date and venue to be decided by the Committee), 'Bump-Up' style finals will be used. The format of these finals will be decided by the Section Committee, but should follow the Internationally accepted 'Bump Up' format as closely as possible. The points awarded towards the National Series from this round will be determined by the Committee, but will follow the general principles laid out in Rule 1.4.

- 1.5.4 A Final will be 30-minute duration.
- 1.5.5 B Final will be 20-minute duration.
- 1.5.6 C Final will be 15-minute duration.
- 1.5.7 All other finals will be 10-minute duration.
- 1.5.8 Cars must cross the finishing line under their own power to be counted

Note. The duration of the finals may be subject to variation on the day as decided by the committee members in attendance.

- 1.6 ALL drivers and mechanics must be in possession of a current BRCA license, to be carried at all times.
- 1.7 In wet weather conditions the meeting will continue as normal and will not be cancelled unless extreme problems arise.
- 1.8 All cars are to join the circuit from the Pit Lane at all times, except for the start of the final, which will be from the designated starting grid. Should a car leave the circuit for any reason, and rejoin the track in such a way as to gain an advantage, the competitor will receive a 'stop and go' penalty at the Race Official's discretion.

2 RADIO CONTROL EQUIPMENT

- 2.1 It is the responsibility of ALL drivers to ensure that their equipment does not causes interference to others.
- 2.2 Drivers must be able to provide a total of at least four alternative frequencies and they must be legal as specified in the BRCA handbook.
- 2.3 Under no circumstances shall a transmitter be taken on to the track.
- 2.4 The Race Director must approve all frequency changes.
- 2.5 Where frequencies conflict in the finals, the fastest qualifier shall choose providing it is possible for the slower qualifiers to change to the available frequency.

3 SAFETY

- 3.1 All Motor Sport, even Model Car Racing, is potentially dangerous. Competitors MUST consider the safety of Marshals, Spectators, and other drivers at all times. Pay particular attention to the presence of Marshals and pitmen within the track area, particularly during warm-up before the start of a qualifying heat or final.
- 3.2 Marshals must consider their own safety above the need to retrieve a stranded car. Do not step out into the track without checking it is clear. Take great care when moving to or from your Marshal point between heats. Stay behind any protective shields/fencing provided at your Marshal point unless you need to marshal a car.
- 3.3 Competitors must take note of safety announcements from the Race Director during the drivers briefing and at other times. Race Control will attempt to warn you if marshals are on the track, but be alert at all times to the possible presence of marshals on the racing line.
- 3.4 The Race Director or the Safety Officer will stop all racing if lightning is seen in the area. Racing will be suspended until such time that the Safety Officer gives clearance to continue. Any part completed races will be re-run at the discretion of the Race Director.

- 3.5 Under no circumstances will anyone under the age of 16 years old be allowed into the track area, with the exception of the Pit Lane. Any driver under 16, who has entered the race meeting, MUST provide a substitute marshal. If a driver cannot provide a substitute marshal, then they must report it to the race organiser/Steward.

4 **GENERAL**

- 4.1 The BRCA 1/10 IC Circuit Section Steward will be in control of driving standards, interference decisions, protests, and rule applications. The Steward's decision WILL BE FINAL. Where a steward has not been specifically appointed, the most Senior BRCA Official present is considered to be the Steward.

- 4.1.1 The Section Committee will provide a referee for every final as a minimum, preferably for qualifying as well.

- 4.2 All interference claims and any protests must be referred to the Steward. The Race Director, in consultation with the Steward will agree any subsequent action. All direct approaches to the Race Director or Timekeeper will be ignored.

- 4.3 Any driver claiming interference must switch off and see the Steward WHILE THE RACE IS STILL IN PROGRESS.

The Steward will use the following guidelines.

- To ensure continuity no qualifying heat will be stopped unless the Steward is satisfied that two or more drivers have detectable interference.
- The Steward will aim to provide each competitor with TWO heats free from extraneous interference.
- The Steward will check interference possibilities with all drivers before the start of Finals and these races will not be stopped unless the Steward and the Race Director are satisfied that on site interference is occurring. A driver claiming interference must switch off and report to the Steward immediately.

- 4.4 At the discretion of the Race Director, any competitor found with equipment causing on site interference will be disqualified.

- 4.5 The Steward will also monitor driving standards and competitors behaviour. He has the following penalties for use at his discretion; 'stop and go' penalty (in the pit lane), 5 second stop and go (in the pit lane), 1 lap penalty and disqualification. For a third offence the Steward will disqualify the driver from the day's racing. The Steward may disqualify without warning where he considers the infringement or misbehaviour to warrant such a penalty. As a guide line to the drivers the following driving standards are expected: Slower cars are to give way to the faster cars and drivers of the slower cars should call his attention while moving off line. Any deliberate collisions from behind with an on line car at a corner (T-BONING) will be regarded as unacceptable practice.

- 4.6 Any driver not fulfilling their marshalling obligation during qualifying will be penalised by loss of fastest time of the day. Drivers who fail to marshal their Final without notifying the Race Director, will lose their highest score for the series for the current year. Drivers must arrange for a BRCA licensed member who is a competent person as a substitute if they are unable to marshal for any reason.

- 4.7 Unless the Race Director considers special needs apply:

- 4.7.1 Drivers to marshal the heat following the one in which they raced, except last heat drivers who marshal heat one.

- 4.7.2 Drivers of the Last final will marshal for the first final.

- 4.7.3 All other finalists will marshal the final following the one in which they have raced.

- 4.8 Marshals are to retrieve inoperative cars from the track and leave them for collection by the mechanics only. Where a car stops on the infield then the marshal is to retrieve the car and place it on the outside of the track at the nearest point without crossing the track as appropriate.
- 4.9 Mechanics are only allowed to retrieve their cars from the track by walking around the track to the appropriate marshal point. They are not allowed to cross over the track when the race is in progress or during warm up. If a car stops inside the track the marshals will be the only people allowed to retrieve the car and place it on the nearest point on the external part of the track. Any mechanics found crossing the track will have their driver appropriately penalised as felt fit by the Race Director.
- 4.10 Only one mechanic per car is allowed to attend the car in the pits at anytime. More than one will cause the driver to lose their fastest time of the day, or receive last place points in their final. Repeated offences will cause the driver to be disqualified from the day's meeting. The only other people allowed in the pits will be officials and BRCA 1/10 IC committee members.
- 4.11 Any driver or his representatives using foul or abusive language or found to be under the influence of alcohol or drugs will be expelled from the meeting as detailed in BRCA General Rules, Clause 12, Conduct.
- 4.12 Where a driver wishes to appeal against a decision made against them, they alone must appeal to the Race Steward within 10 minutes of the end of the last final. An adult may represent any driver under the age of 16. The committee's decision on the day will be final.
- 4.13 The BRCA 1/10th IC Section will provide a Scrutineer for all National Events.
- 4.14 A BRCA Section Officer or the Race Steward may inspect any entrant's car at any appropriate time to cover any or all, applicable specifications. It is the driver's responsibility to make sure his/her car is within the specifications at all times.
- 4.15 Rules must be applied as they are printed in the BRCA Handbook. Where a Section Rule conflicts with BRCA General Rules, the section rule will be removed from the regulations.

5 GENERAL CONSTRUCTION RULES

- 5.1 All cars must have a de-clutching device and have an operating brake capable of stopping the car and holding the car motionless with the engine running.
- 5.2 The front bumper must be fitted to the car to the same shape of the body shell and material as supplied in any standard kit car. The bumper must not protrude outside the body nor shall it be cut down beyond the shape of the body. It should be constructed as to minimise injury that may result from being hit by a car.
- 5.3 Any part of a car may be substituted during a race meeting except the chassis. The chassis may be changed with the approval of the Race Director. The essence of this is that a car cannot be replaced or substituted once entered into a days racing.
- 5.4 Gearboxes up to two-speed only shall be used in all classes.
- 5.5 Fully independent suspension will be allowed in all classes.
- 5.6 The engines must be fitted with an suitable silencing system.
- 5.7 Fuel tank, fuel tube, and any external fuel filters are not to exceed a total capacity of 75cc, and no loose inserts in the tank are allowed. It is up to the driver to check

that they do not infringe this rule prior to racing. If the car's total capacity is found to be above this figure the driver will be disqualified from the day's meeting.

- 5.8 All wheels/tyres are not to protrude outside of the body shell.
- 5.9 All types of tyre additives are prohibited from use in all classes with the exception of 200mm rubber only, which can use tyre cleaners. Anybody wilfully found using additives will be disqualified from the days racing.
- 5.10 Anything not covered by these rules will not be allowed unless approved by the committee members in attendance.

6 RACE ENTRIES

- 6.1 Pre entry for meetings will be via the entry forms made available and will only be accepted with payment. The pre entry date will be no later than ten days preceding the race meeting. Booking in after this day will only be allowed at the Race Director's discretion, and there will be a late entry levy of £5.00, WHICH WILL BE CHARGED. Entries will be accepted on a first come first served basis. Where the entries are over subscribed, it is at the Organisers discretion to operate a reserve list or entries will be returned after the maximum has been reached.

7 INTERNATIONAL TEAM SELECTION

- 7.1 The British team for future European or World Championships is to be selected by the committee. Preference will be given to drivers who have competed in the national series from the previous year.

8 235mm SPORTS GT CLASS TECHNICAL RULES

8.1 BRAKING REQUIREMENTS

Cars with proportional braking through the rear wheels only.

8.2 ENGINES

The engines for 4wd class cars may be of any configuration and construction with front rotary valve two-stroke air-cooled induction type, with standard 1\4 UNF or conical (turbo) glow plugs permitted. Maximum engine capacity of 0.15 cu in (2.5cc) allowed.

8.3 MUFFLERS

The exhaust pipe outlet can be any dimension so long as the silencing system noise levels conform to clause 5.6.

8.4 INTAKE SILENCING

In addition an air intake silencer (e.g. INS box) must be fitted to the carburettor air-intake of all engines, with no internal modifications except for a 3mm hole at the base of the unit to allow water to drain. If a meeting is declared wet the INS-BOX may be removed.

8.5 WEIGHT LIMITS

Cars must weigh a minimum of 1950grams.

8.6 CHASSIS/BODY DIMENSIONS

All dimensions in mm.	Min	Max
Wheelbase	260	280
Overall length (incl. wing)		490
Overall width (with body)		250

8.7 FUEL

8.7.1 Fuel may only contain Methanol, Oil/Lubricant and Nitro-Methane with maximum 25% nitro methane content. Verifying this fuel will be done using a floater called Nitromax 25, which is commercially available.

8.7.2 Any driver using fuel found to be illegal will be disqualified from the race in question. If a driver is found to use illegal fuel on a second time at the same meeting he or she will be disqualified from the meeting.

8.8 BODYSHELLS

BodysHELLS are to be 1/10th scale type GT shells and must be commercially available.

8.9 No performance aids or additional spoilers are to be fitted to the bodies apart from one rear wing or as supplied as part of the body.

8.10 WINGS

Rear wing	Cord	Width	End plate
235mm	55mm	230mm	55mm x 25mm

8.11 All windows must remain transparent. Only the front side windows and the rear window may be removed in part or whole. The side rear windows must remain whole.

8.12 TYRES AND RIMS

	Max dia	Max width
Front wheels	51mm	30mm
Rear wheels	51mm	51mm
Front tyres	75mm	30mm
Rear tyres	80mm	51mm

NB. A tolerance of a further 1.0mm is allowed for tyre and wheel width

8.13 Anything not covered by these rules will not be allowed unless approved by the committee members in attendance.

9 200MM RUBBER CLASS TECHNICAL RULES

9.1 4WD 200MM RUBBER

Are .12 engine cars with central brake that works on all four wheels.

9.2 ENGINES

The engine may have a total capacity of not more than 2.11cc.

Engines shall be air-cooled, with front rotary valve two-stroke induction.

Engines may have a maximum of four (4) ports including the exhaust port.

No form of forced induction, or any form of variable port timing, is allowed.

One additional gap or slit in the bottom (or skirt) of the piston is allowed.

Only glow plug ignition is allowed. Standard or conical (turbo) glow plugs may be used.

Additional slits or holes in the liner are allowed as long as they do not extend beyond the top of the piston when it is at the lowest point of the stroke.

Carburettor shall have a maximum throat diameter of 5.50mm.

Engine internal modifications are allowed as long as they are within the parameters of rule 9.2.

For the purposes of this rule, a hole is defined as being an aperture completely surrounded by material.

9.3 MUFFLERS

A muffler of approved double chamber design including silencer chamber must be fitted. The muffler will have a single outlet pipe.

The minimum tail pipe length is 10mm having a maximum internal dimension of 5.2mm (measured at the widest point). NOTE this dimension includes a tolerance to account for manufacturers variation in commercial available tubing.

9.4 WEIGHT

Cars must weigh a minimum of 1750grams inclusive of timing equipment.

9.5 CAR DIMENSIONS

Wheelbase	250mm min-270mm max
Overall length (incl. wing)	360mm min-460mm max
Overall width (with body)	175mm min-210mm max
Overall width (without body)	170mm min-200mm max

9.6 FUEL

9.6.1 Fuel may only contain Methanol, Oil/lubricant, and nitro methane with a maximum 16% nitro-methane content. Verifying this fuel will be done using a floater called Nitromax 16, which is commercially available.

9.6.2 Any driver using fuel found to be illegal will be disqualified from the race in question. If a driver is found to be using illegal fuel on a second time at the same meeting he or she will be disqualified from the meeting.

9.7 BODYSHELLS

9.7.1 Any commercially available bodyshell intended for 200mm 'Touring' cars is allowed, provided the engine is contained within the bodyshell, and it satisfies the dimensions in rule 9.5.

9.7.2 The body and spoiler must be made from a flexible material and be painted properly. All windows must remain clear or be semi-transparent.

9.7.3 The rear of the body may not be cut higher than 50.00mm measured with a 10.0mm spacer under the chassis plate on a level.

9.7.4 Details of all front and rear lights, grills, air intakes and windows must be clearly contrasted from the surrounding paintwork.

9.7.5 No parts of the car except the muffler outlet may protrude outside of the body shell when viewed from above.

9.7.6 No parts of the car except the antenna, body posts and transponder may protrude outside of the body shell when viewed from the side.

9.8 CUT OUTS

Only the following holes are permitted in the body shell.

9.8.1 One cooling hole in the front windscreen, max 50.0mm diameter.

9.8.2 A hole is allowed directly above the engine cooling head for glow plug access with a max diameter of 35.0mm.

9.8.3 A refuelling hole may be cut in the roof, max diameter 50.0mm, the centre of this hole must be the centre of the fuel filler cap viewed from above. Note cooling hole in front windscreen and re-fuelling hole may not be combined. Minimum distance between holes of 5.0mm.

9.8.4 Both front side windows and the rear window can be removed for ventilation. The rear side windows must remain intact.

9.8.5 Small holes can be made for the body posts, transponder, carburettor adjustment and radio antenna, max 10.0mm.

9.8.6 The hole for the exhaust pipe must be of reasonable size.

9.8.7 No other holes are permitted.

9.9 WINGS AND SPOILERS

9.9.1 One wing and one spoiler may be mounted to any car (if the original full size car had more it is allowed to do the same).

9.9.2 Wings and spoiler must be made from a flexible material and may be painted.

9.9.3 Wing and spoiler may not be fixed to the body with piano wire. It must be mounted to the body directly.

9.9.4 Wing and spoiler must not protrude outside the maximum height and width of the body (including side dams). The height of the wing may be adjusted but the wing including side dams must not extend higher than the roofline.

9.9.5 Rear wings must be mounted in the same place as was intended by the body manufacturer.

9.9.6 The overhang must not exceed 10mm at the furthest point to be measured from the most rear point of the body.

9.9.7 Side dams may be fitted but must be a reasonable representation of those fitted to the original car. They must fit in a rectangle with the measurements defined above and must not project above the height of the roofline.

9.9.8

Wing Cord inc gurney strip (if fitted)		55.00
Side dams: Width		50.00
Side dams: Height		35.00
Wing overhang (at rear)		10.00

9.9.9 Wings (excluding side dams) are to be of single moulded construction (no flat packs/bend your own).

9.9.10 Any Gurney strip (if fitted) must not exceed the width of the wing. The Gurney strip must not have an edge more than 5mm high.

9.10 TYRES

Only Moulded Rubber Tyres are to be used in this class.

Any driver competing in 200mm rubber class using foam tyres will be disqualified from the whole championship series.

9.11 WHEEL SIZES

	Min	Max
Wheel dia (excl. tyre bead)	46mm	51mm
Wheel width incl. Bead	n/a	26mm
Tyre width across sidewalls	n/a	27.5mm

9.12 Anything not covered by these rules will not be allowed unless approved by the committee members in attendance.

10 200mm TOURING CAR CLASS TECHNICAL RULES

10.1 All measurements referred to in this section are minimum or maximum values. All measurements for the motor dimensions are to be considered with 2 digits behind the decimal point, all other measurements 1 digit behind the decimal point. Measurements must be within their maximum or minimum values under all circumstances.

10.2 ENGINE

The engine may have a total capacity of not more than 2.11cc.

Engines shall be air cooled, with front rotary valve, two-stroke induction.

Engines may have a maximum of four (4) ports including the exhaust port.

NO form of forced induction is allowed.

One additional gap or slit in the bottom (or skirt) of the piston is allowed.

Only glow plug ignition is allowed. Standard or conical (turbo) glow plugs may be used.

Additional slits or holes in the liner are allowed as long as they do not extend beyond the top of the piston when it is at the lowest point of the stroke.

Carburettor shall have a maximum throat diameter of 5.50mm.

Engine internal modifications are allowed as long as they are within the parameters of rule 10.2.

For the purposes of this rule, a hole is defined as being an aperture completely surrounded by material.

10.3 OVERALL DIMENSIONS

	Minimum (mm)	Maximum (mm)
Wheel base	230.00	270.00
Width without body	170.00	200.00
Length inc Body & Wing	360.00	460.00
Height to the top of the roof measured with a 10mm spacer under the chassis plate on level.	115.00	175.00
Wing Cord inc gurney strip (if fitted)		55.00
Side dams: Width		50.00
Side dams: Height		35.00

Wing overhang (at rear)		10.00
Wheel dia excluding tyre bead	46.00	50.00
Wheel and tyre width including tyre bead (across side walls): Front		30.00
Wheel and tyre width including tyre bead (across side walls): Rear		30.00

NB. A tolerance of a further 1.0mm is allowed for tyre and wheel width

10.4 TYRES & RIMS

10.4.1 Tyres must be black except for writing on the sidewalls.

10.4.2 Foam and/or rubber tyres can be used.

10.4.3 Treatment of the tyres with additives is prohibited.

10.4.4 Wheels must be fixed by a screw or nut.

10.4.5 Quick – change wheel systems are not allowed. No automatic systems to change the wheels allowed (just manpower).

10.5 BRAKE/CLUTCH

All vehicles must be equipped with brakes and a clutch in such a manner that the vehicle may be held stationary with the engine running.

10.6 MUFFLER

A BRCA approved or homologated muffler of approved double chamber design including silencer chamber must be fitted and must comply with the following:

10.6.1 Tail pipe maximum internal diameter 5.20mm (this dimension includes a tolerance to account for manufacturing variations in commercially available tubing).

10.6.2 Tail pipe minimum length 10.00mm (measured from the outside of the pipe).

10.6.3 The tail pipe must be oriented on or below the horizontal.

10.6.4 The homologation number must be engraved or stamped into the muffler.

10.6.5 BRCA definition of a noise is always final.

10.7 BUMPER

The front bumper must follow the body contour and must be constructed so as to minimise injury that may result from being hit by a car. The bumper must be made from foam rubber or a flexible plastic material.

10.8 AERIAL

The aerial must be flexible. Carbon, metal etc. aerials are not allowed.

10.9 BODIES

10.9.1 Any commercially available bodyshell intended for 200mm 'Touring' cars is allowed, provided the engine is contained within the bodyshell, and it satisfies other stated dimensions in these rules.

10.9.2 The body and spoiler must be made from a flexible material and be painted properly. All windows must remain clear or be semi-transparent.

10.9.3 The rear of the body may not be cut higher than 50.00mm measured with a 10.0mm spacer under the chassis plate on a level.

10.9.4 Details of all front and rear lights, grills, air intakes and windows must be clearly contrasted from the surrounding paintwork.

10.9.5 No parts of the car except the muffler outlet may protrude outside of the body shell when viewed from above.

10.9.6 No parts of the car except the antenna, body posts and transponder may protrude outside of the body shell when viewed from the side.

10.10 CUT OUTS

Only the following holes are permitted in the body shell.

- 10.10.1 One cooling hole in the front windscreen, max 50.0mm diameter.
- 10.10.2 A hole is allowed directly above the engine cooling head for glow plug access with a max diameter of 35.0mm.
- 10.10.3 A refuelling hole may be cut in the roof, max diameter 50.0mm, the centre of this hole must be the centre of the fuel filler cap viewed from above. Note cooling hole in front windscreen and re-fuelling hole may not be combined. Minimum distance between holes of 5.0mm.
- 10.10.4 Both front side windows and the rear window can be removed for ventilation. The rear side windows must remain intact.
- 10.10.5 Small holes can be made for the body posts, transponder, carburettor adjustment and radio antenna, max 10.0mm.
- 10.10.6 The hole for the exhaust pipe must be of reasonable size.
- 10.10.7 No other holes are permitted.

10.11 WINGS AND SPOILERS

- 10.11.1 One wing and one spoiler may be mounted to any car (if the original full size car had more it is allowed to do the same).
- 10.11.2 Wings and spoiler must be made from a flexible material and may be painted.
- 10.11.3 Wing and spoiler may not be fixed to the body with piano wire. It must be mounted to the body directly.
- 10.11.4 Wing and spoiler must not protrude outside the maximum height and width of the body (including side dams). The height of the wing may be adjusted but the wing including side dams must not extend higher than the roofline.
- 10.11.5 Rear wings must be mounted in the same place as was intended by the body manufacturer.
- 10.11.6 The overhang must not exceed 10mm at the furthest point to be measured from the most rear point of the body.
- 10.11.7 Side dams may be fitted but must be a reasonable representation of those fitted to the original car. They must fit in a rectangle with the measurements defined above and must not project above the height of the roofline.
- 10.11.8 Wings (excluding side dams) are to be of single moulded construction (no flat packs/bend your own).
- 10.11.9 Any Gurney strip (if fitted) must not exceed the width of the wing. The Gurney strip must not have an edge more than 5mm high.

10.12 FUEL

- 10.12.1 Fuel may only contain Methanol, Oil/Lubricant and Nitro-Methane, with maximum 16% Nitro-Methane content. Verifying this fuel will be done using a floater called Nitromax 16 which is commercially available.
- 10.12.2 Any driver using fuel found to be illegal will be disqualified from the race in question. If a driver is found to use illegal fuel on a second time at the same meeting he or she will be disqualified from the meeting.

10.13 TRANSMISSION

4wd and 2wd cars can be used without any technical restriction except those listed elsewhere in Section 10. The use of separate front wheel brakes except through the transmission is not allowed. Locking of one way bearing is allowed.

10.14 WEIGHT

The minimum weight without fuel and including a transponder is 1700.00 grams. If the weight is found to be under the minimum weight the driver will be disqualified from the heat or final.

10.15 **ROLL BARS**

Roll bars (roll-over bars) must be kept under the body.

10.16 **DRIVER AIDS**

It is not allowed to use any electronic device for traction and/or braking control. It is also not allowed to use any form of telemetry with Active Transmission.

10.17 Anything not covered by these rules will not be allowed unless approved by the committee members in attendance.

11 200mm TRUCK CLASS TECHNICAL RULES

11.1 All measurements referred to in this section are minimum or maximum values. All measurements for the motor dimensions are to be considered with 2 digits behind the decimal point, all other measurements 1 digit behind the decimal point. Measurements must be within their maximum or minimum values under all circumstances.

11.2 **ENGINE**

11.2.1 The engine may have a total capacity of not more than 2.11cc.

11.2.2 Engines shall be air cooled, with front rotary valve, two-stroke induction.

11.2.3 No form of forced induction is allowed.

11.2.4 No holes in the piston and no form of variable port timing.

11.2.5 Only glow plug ignition is allowed.

11.2.6 Standard and conical glow plugs allowed.

11.2.7 Engine internal modifications are allowed as long as they are within the parameters of rule 11.2.

11.3 **OVERALL DIMENSIONS**

	Minimum (mm)	Maximum (mm)
Wheel base	230.00	270.00
Width without body	170.00	200.00
Wheel dia excluding tyre bead	46.00	50.00
Wheel and tyre width including tyre bead (across side walls): Front		30.00
Wheel and tyre width including tyre bead (across side walls): Rear		30.00

NB. A tolerance of a further 1.0mm is allowed for tyre and wheel width

11.4 **TYRES & RIMS**

11.4.1 Tyres must be black except for writing on the sidewalls.

11.4.2 Foam and/or rubber tyres can be used.

11.4.3 Treatment of the tyres with additives is prohibited.

11.4.4 Wheels must be fixed by a screw or nut.

11.4.5 Quick – change wheel systems are not allowed. No automatic systems to change the wheels allowed (just manpower).

11.5 **BRAKE/CLUTCH**

All vehicles must be equipped with brakes and a clutch in such a manner that the vehicle may be held stationary with the engine running.

11.6 **MUFFLER**

A BRCA approved or homologated muffler of approved double chamber design including silencer chamber must be fitted and must comply with the following:

11.6.1 Tail pipe minimum length 10.00mm (measured from the outside of the pipe).

11.6.2 The tail pipe must be oriented on or below the horizontal.

11.6.3 BRCA definition of a noise is always final.

11.7 **BUMPER**

The front bumper must follow the body contour and must be constructed so as to minimise injury that may result from being hit by a car. The bumper must be made from foam rubber or a flexible plastic material.

11.8 **AERIAL**

The aerial must be flexible. Carbon, metal etc. aerials are not allowed.

11.9 **BODIES**

11.9.1 Any commercially available truck bodyshell (as in an articulated truck) intended for 200mm cars is allowed, providing it satisfies other stated dimensions in these rules.

11.9.2 The body must be made from a flexible material and be painted properly. All windows must remain clear or be semi-transparent.

11.9.3 The bodies are not to be cut above the lowest original bodyline at the front, Sides and rear.

11.9.4 Details of all front and rear lights, grills, air intakes and windows must be clearly contrasted from the surrounding paintwork.

11.9.5 No parts of the car except the muffler outlet may protrude outside of the body shell when viewed from above.

11.9.6 No parts of the car except the antenna, body posts, engine cooling head, transponder, air filter / silencer, roll over bar and fuel tank may protrude outside of the body shell when viewed from the side.

11.10 **CUT OUTS**

Only the following holes are permitted in the body shell.

11.10.1 A refuelling hole or hole for uppermost part of the fuel tank (only if necessary) may be cut in the bodyshell, to be of reasonable size.

11.10.2 Small holes can be made for the body posts, transponder, carburettor adjustment and radio antenna, max 10.0mm.

11.10.3 The hole for the exhaust pipe must be of reasonable size.

11.10.4 A hole for the engine cooling head may also be made, this must be of reasonable size.

11.10.5 A hole of reasonable size may be made for the air intake filter / silencer if this needs to protrude through the bodyshell when fitted directly to the carburettor.

11.10.6 No other holes are permitted.

11.11 **FUEL**

11.11.1 Fuel may only contain Methanol, Oil/Lubricant and Nitro-Methane, with maximum 16% Nitro-Methane content. Verifying this fuel will be done using a floater called Nitromax 16 which is commercially available.

11.11.2 Any driver using fuel found to be illegal will be disqualified from the race in question. If a driver is found to use illegal fuel on a second time at the same meeting he or she will be disqualified from the meeting.

11.12 **TRANSMISSION**

4wd and 2wd cars can be used without any technical restriction except those listed elsewhere in Section 11. The use of separate front wheel brakes except through the transmission is not allowed. Locking of one way bearing is allowed.

11.13 **WEIGHT**

The minimum weight without fuel and including a transponder is 1700.00 grams. If the weight is found to be under the minimum weight the driver will be disqualified from the heat or final.

11.14 **ROLL BARS**

Roll bars (roll-over bars) must be fitted to the car.

11.15 **DRIVER AIDS**

It is not allowed to use any electronic device for traction and/or braking control. It is also not allowed to use any form of telemetry with Active Transmission.

11.16 Anything not covered by these rules will not be allowed unless approved by the committee members in attendance.