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This the address for all enquiries concerning the Raceway.

Racetrack operation depends very much on the cooperation of our neighbours.

With this in mind:

NEVER block farmers gateways with cars or trailers. NEVER unload your car in the lane outside the stadium. NEVER drive your car on the lane outside the stadium. NEVER leave rubbish or parts of cars outside or inside the stadium. ALWAYS remember: lots of people would like the track closed, so don't give them any opportunity to complain.

These regulations issued January 1st 2017 and cancel all previous issues.

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2017 Safety Equipment Specification Rules v2017.01 Issued: 27th January 2017

Text highlighted in bold, red, italics, indicates a change from the previous version of this document.

Definitions used in these Rules

FHRFrontal Head Restraint (including HANS, Hutchens, Defender and similar type devices)BORSEBritish Oval Racing Safety ExecutiveJunior DriversDrivers aged 15 and under

General Notes

- It is the competitor's responsibility to ensure that they and their team comply with all safety specification rules at all times (including scrutineering, practise, and racing).
- Any necessary safety equipment specification rule changes during the course of a season will be notified to
 competitors through the official ORCi / WatchltRacelt website (orci.co.uk / watchitraceit.co.uk), and individual
 formulas' own approved communication channels. Change advisories received from any other source should be
 checked against these official sources for authenticity and accuracy.
- Proposals for any change(s) to the safety equipment specifications MUST be submitted in writing to the ORCi through one of the following channels:
 - Mail: ORCi, PO Box 9889, Birmingham, B43 6WA
 - Web: Use the online contact form at http://orci.co.uk
 - Email: safety.rules@orci.co.uk
- Proposed changes will be considered by BORSE and an official response duly made as appropriate.
- Competitors must NOT use unapproved items, or make modifications to existing items, that do not meet the
 current safety equipment specifications, whether they believe they have a case for them or not. A process for
 approval exists and should be followed by all competitors.

900 General

- **900.1** All safety equipment specification rules apply to all competitors in all ORCi and ORCi affiliated formulas unless otherwise stated.
- **900.2** All safety equipment must be worn/engaged at all times when on track during racing, practise or test sessions, and at ANY other time when moving at a speed greater than walking pace (4mph).
- **900.3** Clothing that does not conform to the standards below may only be worn underneath the mandated safety equipment. For example, hooded tops must only be worn underneath a race-suit/overall, and the hood MUST be tucked inside.

901 Helmets and Goggles/Visors

901.1 Helmets

- **901.1.1** A helmet conforming to at least one of the approved standards MUST be worn.
- 901.1.2 Helmets MUST meet or exceed the MINIMUM standard as directed by BORSE.

The current approved standards permitted for all drivers are:

- FIA 8860-2004
- FIA 8860-2010
- FIA 8859-2015
- Snell SA2005 (This standard will be reviewed at the end of the 2017 season)
- Snell SA2010
- Snell SAH2010
- Snell SA2015
- Snell EA2016
- SFI Foundation 31.1A
- SFI Foundation 31.2A
- SFI Foundation 31.1
- ECE R22.05 (in Fibreglass, Carbon or Tri-Composite form ONLY)

The following approved standards are permitted for <u>Junior drivers only</u> (drivers aged 15 and under) in addition to those above:

- Snell CMR 2007
- Snell CMS 2007
- Snell CMR 2016
- Snell CMS 2016
- SFI 24.1
- **901.1.3** The use of polycarbonate helmets is NOT permitted.
- **901.1.4** The helmet MUST fit the competitor correctly, according to the manufacturer's sizing/fitting guidelines.
- 901.1.5 All helmets MUST display the current "ORCi Approved" helmet sticker.

901.2 Goggles/Visors

- **901.2.1** Shatterproof goggles or a shatterproof visor MUST be worn with the helmet at all times.
- 901.2.2 The use of tinted visors is NOT advisable.

902 Clothing

902.1 Race-Suits/Overalls

- 902.1.1 A flame resistant race-suit/overall MUST be worn.
- **902.1.2** Flame resistant race-suits/overalls MUST be manufactured from Proban, or material of a higher specification, e.g. Nomex.
- **902.1.3** Flame resistant race-suits/overalls MUST be clearly marked with the relevant SFI, FIA or equivalent standard, or the manufacturer's statement of protection.
- 902.1.4 Race-suits/overalls MUST be maintained in a clean and tidy condition.
- 902.1.5 Race-suits/overalls manufactured/certified to Karting standards, including, but not limited to, the CIK-FIA Level 1 or Level 2 standards, are NOT permitted as they do NOT provide the appropriate level of heat/flame protection.
- 902.2 Gloves
 - 902.2.1 Flame resistant gloves MUST be worn.
 - **902.2.2** Flame resistant gloves MUST be clearly marked with the relevant SFI, FIA or equivalent standard, or the manufacturer's statement of protection.

902.3 Balaclavas

- 902.3.1 A flame resistant balaclava MUST be worn.
- **902.3.2** Flame resistant balaclavas MUST be clearly marked with the relevant SFI, FIA or equivalent standard, or the manufacturer's statement of protection.

902.4 Undergarments

902.4.1 Flame resistant socks and undergarments provide a high degree of protection and are highly recommended to all competitors.

902.5 Wet-Weather Protection

902.5.1 Any wet-weather clothing must be worn in ADDITION to the required flame resistant racesuit/overall specified above.

903 Head/Neck Restraint

903.1 All Junior Formulas (Competitors under the age of 16)

- 903.1.1 An FHR or neck-brace MUST be worn.
 - **903.1.2** If a neck-brace is used, it MUST be of the complete-circle type, i.e. it must form a complete circle around the competitor's neck with no gaps.
 - 903.1.3 The use of "U" shaped, or "horseshoe" neck-braces is NOT permitted.

903.2 ORCi Saloon Stock Cars, Lightning Rods and Stock Rods

903.2.1 The use of an FHR or neck-brace is recommended.

903.3 Other Formulas

- 903.3.1 The use of an FHR or neck-brace MUST be in accordance with the rules laid down by the governing body for each formula, e.g. BriSCA F1, NHRPA, Stoxkarts Ltd., Spedeworth, etc.
- **903.3.2** Where no specific FHR/neck-brace rules exist for each formula, the use of an FHR or neck-brace is recommended.

904 Safety Harness

904.1 Usage

- **904.1.1** A full safety harness MUST be used in accordance with the specifications below.
- 904.1.2 All mandated straps MUST be used at all times.

904.2 Type and Design

- 904.2.1 ALL formulas, EXCEPT Banger type formulas the harness MUST comprise of a MINIMUM of 2 shoulder straps, 2 lap straps, and an anti-submarine strap (also referred to as a sub-strap, or crotch-strap) in a MINIMUM 5-point design.
- **904.2.2** Banger type formulas ONLY The use of a sub-strap in Banger type formulas is not recommended, and therefore in Banger type formulas the harness MUST comprise of a MINIMUM of 2 shoulder straps and 2 lap straps in a MINIMUM 4-point design.
- 904.2.3 Shoulder straps with a sternum protection latch are highly recommended.
- 904.2.4 The harness MUST incorporate a quick-release buckle (including rotary buckles, and NASCAR lever-latch type buckles), to which all straps MUST be connected.
- **904.2.5** Where a NASCAR lever-latch type buckle is used, it is advisable to fit a method of protection to prevent race-suit/overall sleeves from accidentally unhooking the buckle during racing. A small section of "Tubegrip" elasticated bandage, slid over the hooked buckle is sufficient for this purpose.

904.3 Harness Strap Width – ALL Adult Formulas (competitors aged 16 and over)

904.3.1 All Non-FIA Approved Harnesses - The shoulder and lap/pelvic straps of ALL non FIAapproved harnesses MUST measure at least a MINIMUM of 3in/75mm in width. This applies, but is not limited to:

- ALL non-homologated harnesses
- ALL harnesses with NASCAR lever-latch type buckles
- ALL harnesses homologated to SFI standards
- ALL harnesses that do not meet ALL FIA criteria below
- 904.3.2 FIA Approved Harnesses The use of narrower lap/pelvic straps is now permitted on FIA approved harnesses ONLY. The harness MUST meet ALL the following criteria:
 - The harness MUST be certified/homologated to the current FIA standards: 8853/98 or 8853-2016
 - The shoulder straps MUST measure at least a MINIMUM of 2.75in/70mm in width (unless used in conjunction with an FHR device see below).
 - The lap/pelvic straps MUST measure at least a MINIMUM of 2in/50mm in width.
 - The FIA identification/homologation labels MUST be intact and visible to scrutineers on ALL sections of the harness.
 - The harness MUST be within its visibly stated validity period.
- 904.3.3 ALL Harnesses The anti-submarine strap MUST measure at least a MINIMUM of 1¾in /44mm in width on ALL harnesss.
- 904.3.4 ALL Harnesses Where an FHR device is used by a competitor, it is permitted to use shoulder straps that narrow below the minimum specification (stated above) in order to

ensure the correct fitment of the harness/FHR device combination. This exception applies to the shoulder straps ONLY. Any such straps MUST be manufactured by a recognised industry supplier AND be specifically designed for use with an FHR device.

- 904.4 Harness Strap Width ALL Junior Formulas (competitors aged under 16) 904.4.1 The shoulder and lap/pelvic straps MUST measure at least a MINIMUM of 2in/50mm in width.
 - 904.4.2 The anti-submarine strap MUST measure at least a MINIMUM of 1³/₄in /44mm in width.

904.5 Installation

- **904.5.1** The harness MUST be securely mounted to the floor, roll-cage, and/or chassis of the race car.
- **904.5.2** Harness manufacturers specify their own installation requirements depending on the design of their harnesses. Therefore, harnesses MUST be installed according to the manufacturer's recommended best practice using only approved mounting components/methods.
- **904.5.3** All the major manufacturers have installation information on their websites, and competitors are advised to refer to this when fitting harnesses to their racecars. Useful websites include (addresses correct at time of publication):

Manufacturer's Websites

- www.willans.com
- www.schrothracing.com
- www.trs-motorsport.com
- www.raceguip.com

Safety Standards

- www.sfifoundation.com
- www.fia.com/homologations
- 904.5.4 Key general guidelines from manufacturers for the installation of harnesses state that:
 - Strap lengths should be kept as short as possible to avoid excessive stretching under impact.
 - Shoulder straps should be supported at or just below shoulder level.
 - Shoulder straps should be prevented from moving sideways, such that they may drop
 off a competitor's shoulders under severe impact/stretching.
- **904.5.5** It is recommended that any seat apertures, through which the straps pass, are lined to prevent chaffing of the straps.

904.6 Condition and Maintenance

- 904.6.1 Special attention MUST be paid to the condition of straps and fixings once installed.
- **904.6.2** The harness MUST be maintained according to the manufacturer's recommended best practice, and where possible kept free of dirt, oil and grease that could degrade any materials.

905 Window Nets

- 905.1 Requirement
 - **905.1.1** A quick-release fabric window net MUST be fitted in the driver's side door window aperture of all saloon car formulas, with the exception of Banger type formulas.

905.2 Specification/Installation

- 905.2.1 The width of the netting holes must NOT exceed a MAXIMUM size of 3in/75mm wide.
- 905.2.2 The window net MUST be fitted such that it hangs down level with the steering wheel.
- **905.2.3** The window net MUST be flexible and easily removable, independent of any movement of the driver's-side door.

906 Fire Extinguishers

906.1 Requirements

- **906.1.1** A fire extinguisher, meeting the specifications below, MUST be carried in the competitor's tow-vehicle/transporter at all times.
- **906.1.2** The fire extinguisher MUST be within easy reach of the competitor and team members at all times, especially when re-fuelling the racecar.

906.2 Specification

- **906.2.1** The fire extinguisher capacity MUST be at least a MINIMUM of 2Kg.
- **906.2.2** The fire extinguisher MUST be of a dry powder or gas type.
- 906.2.3 Old type BCF (green) fire extinguishers are NOT permitted.



GENERAL

The following rules will apply to all formulas that race at ORCi Sanctioned Tracks. Any variation to these rules must be agreed with the Oval Racing Council, and then, only in exceptional circumstances.

At all times while at a race meeting, a driver shall be deemed to be under Racing Rules. Any driver guilty of any act prejudicial to the sport, including comments on social media sites etc, shall be reported to the appropriate Board of Control or Formula Organiser, for disciplinary action, and may be called upon to appear before the Board or Control or Formula Organiser, to answer the charges.

The interpretation of these rules pertaining to race procedures or lap scoring positions will be decided by the appointed ORCi officials at the race event.

STARTING POSITIONS

Drivers must start in positions laid down by the Steward of the Meeting and in their correct grade (where applicable) at all times. Special dispensation to start at the rear of the grid will be made, only on application to the Steward of the Meeting, in the case of a driver wishing to test a new car on the occasion of its first meeting or at the Steward of the Meeting's discretion.

CLUTCH STARTS

At all clutch starts the Start Marshal shall satisfy himself that all drivers are ready on the yellow flag and are in a position where they can see the start signal before dropping the green flag.

Any driver moving before the green drops will be liable to immediate exclusion.

ROLLING STARTS

In the case of a rolling start the drivers shall drive a preliminary lap, or part lap as directed by the Steward of the Meeting, keeping abreast in their proper positions and at a speed set by the inside driver at the front of each grid and/or grade and shall maintain the allotted gap between grades where applicable.

The race shall be started by the Start Marshal causing the starting flag to be dropped at any time after the leading cars have passed the 4th bend. The lead car may slowly increase speed between bends 3 and 4.

All drivers must keep rank, and must wait for the starting flag before commencing racing.

No car must accelerate beyond the rolling lap speed set by the lead car until the Start Marshal has shown the starting flag.

Any car unable to maintain the pace lap order due to clutch problems must start between the leader and the last car in order to avoid upsetting the start / restart.

Prior to the start, or re-start, a driver being too far in front or reducing speed on approaching the starting line, may be excluded or docked places at the discretion of the Steward of the Meeting.

START AND FINISH POINTS

The start and finish of a race or an attempt at a record shall occur when any part of the car passes over the starting or finishing line. In the event of a blocked track, the finishing line shall be deemed to extend a reasonable distance in to the infield. In formulas where transponders are used, the Steward of the Meeting's decision is final.

RACE PROCEDURE and DISCIPLINE

No work may be carried out on any car at any time on the race circuit without the permission of the Steward of the Meeting. This permission may be communicated via the Clerk of the Course. If a driver wishes to carry out work on a race car and that work can be completed within the regulations specified in these rules, the car must first be removed to a safe area within the arena. The driver must not under any circumstances, leave the confines of the race circuit during a race to perform this work.

After the first green flag of a race has been displayed, any car, having entered that race or any re-run/restart thereof, cannot receive attention from anyone other than the driver and then only when this can be achieved without assistance, i.e. the handing of tools or parts over the safety fence / the carriage of spare parts or tools within the race car / the use of implements from within the arena whether they be part of another car or stadium items is forbidden. It is not permitted to transfer parts from a disabled car within the arena.

In the event of cars becoming entangled, the track staff are permitted to disentangle them during a caution or stoppage and permit them to rejoin at the discretion of the Steward of the Meeting at the rear of the re-formed grid – this is not considered to be 'outside assistance'. In all cases the primary cause(s) of the suspension/stoppage, shall be excluded for any re-run or re-start of the race and may be officially disqualified from the race.

In addition, cars being push started will not be deemed as outside assistance provided they were not the cause of the caution or stoppage.

Please note that after the first green flag of a race, no additional cars are allowed to take part even if the race is a complete re-run. In addition, a car will only be eligible for the re-run/re-start if it was part of that particular race suspension or stoppage.

Drivers who use their car to shield and protect an upturned or damaged car, will not be excluded when the race resumes at the discretion of the Steward of the Meeting, and whenever possible will be re-aridded accordingly.

Please note that the above Race Procedures may be varied via Supplementary Championship Regulations. These are only applicable to the following Championship races: World, British & European. The Supplementary Championship Regulations must be submitted to the ORCi Secretary at least 14 days prior to the event and will be published on the ORCi website and any formula specific website. The regulations must also be circulated in writing to all competitors within the event.

SIGNALS The following flag signals will apply in all races unless otherwise stated. At some tracks traffic lights may be used to further emphasise the flag signals. The Start Marshal, Steward of the Meeting and Flag Marshals shall apply the following rules to the use of flags during racing:-

The GREEN FLAG indicates the start of the race and will remain until all competitors have passed the start line.

The YELLOW FLAG indicates danger as described below.

- a) During the rolling lap the Start Marshal will show a yellow flag (covering the green flag).
- b) The Start Marshal will begin the race by showing the GREEN FLAG.
- c) (b) Waved yellow flag i.e. Race Suspension:

A Flag Marshal, wishing to inform the Steward of the Meeting of a serious incident or the presence of hazardous objects or material on the track shall do so by using their radio and/or an 'open' yellow flag held above their head, whereupon the Steward of the Meeting may introduce a Race Suspension. Co-ordination between the Steward of the Meeting, Start Marshal and Flag Marshals in these circumstances is critical.

In the event of a major incident (which includes a car rolling onto its side or roof on the track and in the line of racing) or where loose objects or material on the track may constitute a hazard to spectators, competitors or officials, the Steward of the Meeting may bring the whole circuit under RACE SUSPENSION conditions, without the race being stopped (red flagged) by introducing waved yellow flags.

In the event of a wheel becoming detached from a car, immediate race suspension will be invoked.

On introduction of a race suspension. ALL CARS MUST SLOW TO ROLLING LAP SPEED (or stop where the lead car is so instructed) and get into single File. THERE WILL BE NO OVERTAKING. The single file grid may continue to circulate at 5mph (some circuits will implement the use of a Pace Car to control this speed). In some circumstances it may be necessary to bring the single file grid to a temporary halt under a race suspension (for example, to ease the movement of recovery/rescue vehicles). Such a temporary halt does not constitute a Red Flag Stoppage. Any driver unlapping them self or breaking rank from the single file, without authorisation, will be immediately excluded from the restart of the race. In this situation, drivers are not permitted to leave the seat of their cars or have anyone touch their car.

It is essential that drivers are aware and make their mechanics aware that they will be excluded should their mechanics enter the arena at this time whether or not they receive assistance. Cars must restart in the same condition as before the Race Suspension. In certain circumstances for safety reasons, the Steward of the Meeting may authorise an official to remove metal etc from a car during a race suspension. In this case this is not considered to be outside assistance.

In preparation for the restart, cars will be lined up in the order prevailing prior to the introduction of race suspension (yellow flags), lap down cars must remain in the position they occupied on the track at that time (not in positional order). The Steward of the Meeting is empowered to re-instate any driver being in his opinion, accidentally taken out of the race during a race suspension.

During a rolling Race Suspension, manual lap scoring is suspended, and electronic lap scoring will utilise the 'noncounting' yellow flag system, to ensure that the appropriate number of racing laps are raced.

The race can only be restarted by the Start Marshal showing the green flag to the Race Leader. The green flag will be withdrawn after all cars have passed the Start Marshal.

The RED FLAG is used to denote that the race has been stopped. All drivers must, with care, slow down immediately and STOP as soon as possible (recommended within one quarter of a lap). Cars will then remain stationary, to neutralize the track, until the Clerk of the Course gives instruction to reform on the grid or leave the track. (see rule STOPPAGES). Failure to comply with a red flag could result in exclusion.

The CHEQUERED FLAG indicates completion of the required number of laps. It will be the intention for all races to be run to their full published distance, wherever possible. The Chequered Flag shall be waved at the first driver to complete the race distance and held out until cars for paid and/or points places in the race have completed the race distance. Drivers having received the Chequered Flag must continue at race speed until the red flag in conjunction with the chequered flag is displayed, otherwise they may incur a penalty. Race conditions and rules apply until the red flag is shown with the chequered flag.

RED & CHEQUERED FLAGS (waved together) means the end of the race. All cars to slow down with care, to make

their way to the Pit Gate. Any offence committed on track after this time will render the driver liable to a penalty.

The BLACK FLAG is shown to a car that has been disgualified and which must retire from racing immediately to the infield, with care.

The BLUE FLAG indicates to a driver that they must hold their line (inside or outside) as there is a much faster car behind that is trying to overtake. (Non Contact Formulas only). This flag will be given to a driver a maximum of 3 times. Thereafter, a BLUE & WHITE STRIPED flag will be shown which will indicate that the driver must give up their position to the car behind. Failure to do this will result in a black flag being shown - driver disgualified.

The WHITE FLAG WITH a RED CROSS (X) is a TECHNICAL DISQUALIFICATION FLAG. This is used to signal to a driver that they have a problem with their car and must immediately retire to the infield, with care.

The WHITE FLAG WITH BLUE SPOT. Used to warn drivers that there is oil or slippery fluids on the track. However racing may continue.

A LAP BOARD indicating the number of laps remaining to be completed must be displayed by the Start Marshal over a minimum of the last three laps.

STOPPAGES (Red Flag)

A race may only be stopped on instruction from the Steward of the Meeting, in the interests of safety or other contributory factors (Time Limit) etc. It shall be the intention, whenever possible, to run all races to a conclusion over the published race distance. The Promoter reserves the right to call a result AT ANY TIME.

The race may be stopped if the pits gate has to be opened to facilitate entry to the track of either an ambulance or breakdown vehicle, although this can also be done under a yellow flag at the Steward of the Meeting's discretion.

- a) If any race is stopped after the first 3 laps then the race shall be restarted and run over the balance of laps outstanding to the leading car.
- b) In preparation for the restart, cars will be lined up in the order prevailing prior to the introduction of the race stoppage (red flags), lap down cars must remain in the position they occupied on the track at that time (not in positional order). The Steward of the Meeting is empowered to re-instate any driver being in his opinion, accidentally taken out of the race during a race stoppage.
- c) In the event of no cars having completed more than 3 laps of the total distance, the race shall be re-run. Note that a temporary halt under yellow flags (caution) is not the same as a stoppage under red flags.
- d) The only cars permitted to take part in any re-run shall be those having taken part in any/all other restart(s) immediately prior to the stoppage. A car missing taking part in a restart shall not be eligible to compete in any subsequent restart of the same race.
- e) A driver is permitted to leave his car during a red flag period but any work performed must be authorised by the Steward of the Meeting.

SAFETY

It is an offence for a driver to push, or work on his car within the arena while a race is in progress. It is the driver's responsibility to ensure that current health and safety legislation is adhered to when in the pits area.

Tyre buffing is allowed only by the use of a manual surform (the wheel/tyre must be still), i.e. not mechanically turning. The buffing of types in the pits on an electric motor or running on a car is strictly forbidden.

DISQUALIFICATION and PENALTIES

Drivers will be penalised (and may be disgualified) for unnecessarily cutting across the infield or for gaining advantage by leaving the track to pass an opponent. A penalty will be imposed for:-

- a) Unnecessarily cutting across the infield.
- b) Gaining advantage by leaving the track to pass an opponent. This will include the illegal use of kerbs.
- c) Breaking the rolling lap to gain advantage either by gaining places or by deliberately holding up the start.
- d) Leading a Start or Re-Start at too fast a speed.

A driver suffering a flat tyre may receive a technical disgualification (see above) at the discretion of the Steward of the Meeting, having due regard to the number of laps still to run.

If a driver is penalised for more than one incident during a race or a meeting, the Steward of the Meeting may, at their discretion, disgualify the driver from the rest of the meeting and/or report the driver to the Board of Control or Formula Organiser.

The offending driver may be fined or suspended from driving at future meetings, the amount and period to be decided by the appropriate Board of Control or Formula Organiser.

If a driver, convicted of an offence has a period of their ban suspended, that suspended ban is automatically triggered if the driver is found guilty of an offence of the same nature - i.e. On Track/Racing; Technical; or Behavioral.

FENCING

A car shall be deemed to have been deliberately 'fenced' when one car has been in contact with the other when it hits the safety fence. This is also known as a 'Follow In'. The offending driver will be disgualified from the race and will be reported to their Board of Control or Formula Organiser for further action. This rule does not apply to full contact Banger racing.

Different classes of oval racing may have their own formula-specific rulings on Fencing.

END OF RACE

A race shall be deemed ended when the cars for paid and/or points places in the race have completed the race distance. Drivers must continue racing until the Red and Chequered flags are displayed together before slowing down. They must not slow down when only the chequered flag is shown. Drivers who do this may be penalised.

INTERPRETATION OF RULES

Decisions of Officials on interpretation of the rules pertaining to race procedures or lap scoring positions, shall be considered Final. At all times, while on the track, a driver shall be deemed to be under Racing Rules.

AGE LIMITS

Junior Formulas

In Junior Formulas the upper and lower age limits are set by the organising Promoter or Association. I.e. in ORCi Ministox the lower age limit is 11 years and drivers must leave the formula prior to their 16th Birthday.

Other junior formulas may have other upper and lower age limits determined by the organising ORCi Promoter or Association.

NB. All drivers under the age of 18 years must have their Licence Application guaranteed by the parent or legal guardian - proof of guardianship may be required.

Senior Formulas - Lower age limit

All competitors in a Senior Formula must complete a Medical Self Declaration which is included in their Licence Application Form.

In all Senior Formulas the minimum age for competitors is set at 16 years. No competitor may participate in a Senior Formula prior to their 16th birthday.

NB. All drivers under the age of 18 years must have their Licence Application guaranteed by the parent or legal guardian - proof of guardianship may be required.

Senior Formulas - Upper age limit

All competitors in a Senior Formula must complete a Medical Self Declaration which is included in their License Application Form.

Drivers who reach the age of 55 may, in certain formula, be asked to pass a Medical Examination conducted by their General Practitioner (GP) before applying for their License. Subsequent annual License applications do not require these Medical Examinations up to the age of 65 unless specifically requested by the ORCi.

All ORCi sanctioned Senior Formulas require drivers to pass a Medical Examination when applying for their License at the age of 65 years and over on an annual basis.

Any fees due for these Medical Examinations must be paid by the applying driver. The Medical Examination should be carried out to a standard similar to that required for Life Insurance. Competitors holding a current HGV license may use this as proof of Medical Condition.

Applications for a License by competitors over 55 years of age who have not held a license in the previous 5 years in the same or similar formula would not normally be granted.

In all cases the ultimate decision as to whether a driver is fit to hold a Competition License resides with the ORCi Promoter or Association.

FREQUENTLY ASKED QUESTIONS

What should I do if I am stationary on track during a race?

Firstly, look out for a marshal and signal that you are not injured with a "thumbs up". If you are injured and need assistance give the thumbs down signal, if possible. If eye contact is made with the marshal, and no signal is given, then the marshal will assume that you're injured and this information will be relayed to race control.

Don't give a thumbs down signal if you are not injured but feel that you're in a dangerous situation - this decision will be taken by the Steward in Race Control.

Any driver who is the cause of a caution or stoppage cannot take part in the re-run. Drivers who sustain injury or suspected injury must be passed fit by the medical team in order to take further part in the event. Drivers who feign injury in order to get a race stopped will be loaded up from the event.

During a race, you must not exit your car whilst on track or on the infield. The only exception to this is when you are in extreme danger within the car, for example in the case of fire. In this case you must exit the car with extreme care, always remembering that there is a danger of other competitors on track. You should then make your way to the nearest Safe Area. These designated 'Safe Areas' will be identified at the driver's pre meeting briefing or written Drivers Instructions.

When you remain in your car on the track, keep your harness and helmet on, until the end of the race or until the race is cautioned or stopped. You should then make your way to a designated Safe Area as noted above

What should I do if I need to stop my car because of mechanical failure during a race?

Retire to the Infield as soon and as safely as possible. When you have retired to the infield, remain in your car, keeping your harness and helmet on. You must not get out of your car even under yellow or red flag stoppages, just remain in your car, until the end of the race.

ORCi 2017 Rules of Racing – Dated 23rd January 2017

EXCLUDING UNLIMITED CC

The overriding principle of these regulations is that unless it is stated that you can do it, you must work on the principle that you CANNOT.

1. TYPE OF CAR PERMITTED FOR USE

- You must use any four wheel saloon, coupe, estate car or people carrier. No SUV's or 4 x 4 vehicles allowed.
- For ease of classification weight categories taken from MOT Brake Weight Chart maybe used to determine which cars are eligible.
- (900kg 1180kg) e.g Metro Cavalier
- (1180kg 1560kg) e.g. Cortina Granada Estate

Furthermore, classifications may be done using engine cc and may include (but not exclusively) the following:

2 Litre National Banger Events

- On rear wheel drive cars the engine and gearbox can be replaced with any other 2 litre engine.
- On front wheel drive cars, engines can only be swapped within the Ford Mondeo/Cougar model range 2 Litre and below (this excludes the use of any Ford ST170 or RS components which are not permitted in this class).
- In respect of the Mondeo/Cougar interchange of engines, the cradle must not be changed.
- Drive shafts may be extended.
- X Type Jaguar is not allowed.
- Bonnet plates must be a maximum of 12" (300mm).

Micro (under 1400cc) National Banger Events

- No engine swaps are permitted other than the 8v Vauxhall engine may be used in the Corsa 'C'.
- Engine mounts may be strengthened but must remain in the original place if fitted. One additional steel engine
 mounting is allowed. Modified engine mounts can be welded to the cross member, but must be bolted if
 attached to the chassis. A sump plate is now permitted see Rule 4 Guards/Covers.
- Replacement gearbox mountings must not be any wider than 6" (150mm) (front to back) and no longer than the
 distance between the chassis rails, and secured with two bolts. An exception to this rule is the Fiesta/KA,
 where the gear box mounting must not go above the main chassis leg and be bolted only to the lower
 bolts in the chassis of the gearbox mount. No part of the mounting can protrude further forward than
 10mm of the gearbox.
- No additional metal is allowed on the chassis to mount the engine, and engine mounts must not protect water outlets or distributors etc.
- Only cars which are included on the following list can be used. For any cars which are not included please
 contact the relevant promoter for permission to use the car you believe meets the necessary specifications.
 - Austin A30 / A35 / A40 (Farina only NOT Somerset or Cambridge)
 - 1100/1300/Allegro/Metro
 - Chevrolet Matiz
 - Citroen 2CV / Diane / AX / Saxo / Visa / C1
 - Daewoo Matiz
 - Daihatsu Charade
 - Datsun 100A (Cherry)
 - Fiat Panda / Punto / Uno / 126 / 127
 - Cinquecento
 - Ford Fiesta / KA / Popular 100E / Anglia
 - Hillman Imp (derivatives of this model)
 - Honda Civic (1st generation 1972-1979 only)
 - Hyundai i10, Getz,
 - Kia Pride / Picanto
 - Lada Samara
 - Lancia Fulvia
 - Mini Classic

- Mitsubishi Colt
- Mazda 121, Demio
- Morris 1100 / 1300 / Minor
- Nissan Micra / Pixo
- Peugeot 104 / 106 / 107 / 205 / 206
- Proton Satria / Compact
- Renault 4 / 5 / 6 / 10 / Clio / Modus
- Riley Elf
- Rover Metro (known as 100)
- Skoda Favorit
- Smart Car
- Subaru Vivio
- Suzuki Swift / Wagon R
- Talbot Samba
- Toyota Starlet / Aygo
- Vauxhall Nova / Corsa / HA Viva / Chevette
- Volkswagen Polo / Beetle (Type 1) / Fox
- Wolseley Hornet
- Yugo

Van National Banger Events

- Roll cages must be a minimum of one acrow bar up to a maximum of a full roll cage. If the single bar option is
 used, it must be fitted centrally behind the driver's seat, plated top and bottom, minimum four bolts per plate. A
 full roll cage is recommended on fibreglass bodies and flat fronted vans, so as to help protect the driver's feet.
 If fibreglass type body, then the door plate can be welded to the roll cage on the driver's side. The driver's seat
 must be secured at shoulder height to the door pillars or cage, if fitted. Each promotion may have additional
 regulations please check.
- An engine guard is permitted on cam belt or forward facing distributor type engines. This is to protect the engine only, not to add strength. This must only be bolted to the engine. The scrutineer's decision is final.
- Vans with independent chassis, the rear end must be removed back up to the rear spring hanger, to allow the body to collapse.
- If it is not possible to fit a water tank within the National Banger rules above, the local Promoter may allow the
 fitment elsewhere within the vehicle.
- Engines must be in original position.
- No air cooled 'Plant' type engines
- Roll cage must not extend beyond the front bulkhead.

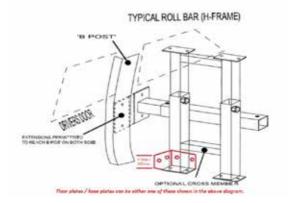
Special Meetings

- Your promoter will state either via the fixture list or special entry form at which meetings this rule can be used and therefore <u>cannot</u> be used by a driver regardless of type of car at a normal meeting!!
- Promoters may run special meetings for a certain type of vehicle e.g. 7.5 tonnes vehicles, SUV's, 4 X 4's, Reliant Robins, Coaches etc, for which rules will be issued by the Staging Promoter. Left hand drive vehicles may be permitted at the promoter's discretion – this should be checked in advance with the staging promoter.

2. STRIPPING & PREPARATION

- It is compulsory to remove all the interior, glass, airbags and charges, spoilers and side-skirts.
- The complete dashboard should be removed wherever possible.
- Remove all seats except the driver's which must be retained, the use of a racing seat is not allowed.
- Remove spare wheel carriers and tow bars plus associated steelwork if fitted.
- Original fuel tanks must be removed. If however, the tank is an integral part of the body you must remove as much as possible.
- You may use the original standard steel bumper (with the exception of Vectras and Mondeos noted below). If a front bumper is fitted, a maximum of three additional bolts may also be fitted to secure it in place. No wrap around bumpers allowed. Plastic bumpers must be removed. All cars with aluminium bumpers must have the bumper and retaining irons removed before racing e.g. Volvo 2 series and Saab. You may fit a bumper/flat plate 100mm x 3mm in its place. This may be folded back a maximum of 3" (75mm) with a maximum of two bolts per side. The bolts must go THROUGH the chassis and not UP the chassis.
- Vectra's, Mk1 or Mk2 Mondeo's must not be fitted with bumpers or steel plate.
- Later type cars with extended chassis rails e.g. Mk3 Mondeo/Focus, may also be fitted with a bumper or plate to the above rule or cut the chassis rail back to the front valance.
- Cars with no front cross members may use a Ford Galaxy people carrier front bumper or similar replacement. It is also permitted to link the chassis members with a chain.

3. ROLL BAR



- You must fit a single "hoop" roll bar in support of the door pillars, securely bolted to the roof and floor with a
 minimum size M12 bolt and suitable washers.
- You a must have a minimum of four bolts in the top and four in the bottom, with a maximum of eight in the bottom on each side. The maximum size of the base plate is 15" (385mm) x 11" (280mm). The plate may go up the side of the sill or straight up the rear panel up to a maximum of 4" (102mm) high. This must be the same length and width as the base plate/floor plate of the cage. A maximum of two bolts are permitted through the side.
- Roll cages may be adjustable (height and width), however the use of screw adjusters i.e. acrow style, are not
 permitted.
- The roll cage must be fitted upright or dog-legged, but not leaning back or forward.
- It is compulsory to pad with high density foam roll cages by the driver's head, B pillar and steering column.
- The hoop must be one piece, or two uprights and one top bar of a welded construction. This top bar should be as shown at the top of the uprights.
- A second cross bar is compulsory, a third is optional; these must be welded or bolted to the uprights.
- THE ROLL BAR MUST NOT HAVE ANY REAR SUPPORTS but may have extensions no further forward than the B post (see diagram) (this applies to both sides of the car). If used, it is highly recommended that this is bolted through the B post.
- You may bolt the roll bar through both sides of the car.
- The minimum size steel for the roll bar is 2" (50mm) x 2" (50mm) RHS or tube equivalent, up to a maximum size of 4" (100mm) x 4" (100mm)) RHS or tube equivalent. A minimum wall thickness of 3mm is required.
- Crossbars must have a 5" (125mm) square end plate fitted. This must be a minimum of 6mm thick.
- You must tie the seat at shoulder level to the roll cage or B pillar. This must be done through the seat frame and not the headrest; you may fit the 2nd cross bar in support of the seat just below the window aperture or weld a frame on the cage to support the seat at the top.

4. STRENGTHENING & PREPARATION

Cars that fail pre or post-race scrutineering, found to be armoured or strengthened, including engine
or gearbox suspension mounts that are over the top and not rectifiable on the day, will receive an
immediate ORCi ban. If the vehicle can be rectified at the track then the vehicle must race, otherwise
the driver will be subject to an ORCi ban.

Doors & Door Plates

- The driver's door may be welded, but must have no additional strengthening (this includes gussets) other than steel RHS, which is allowed in the lower window aperture of the drivers and rear driver's door, not extending further than the rear of the H frame. Please note that this is not allowed on the passenger side.
- A FLAT (no channel or angle) steel plate MUST be bolted over the driver's door to the following dimensions:
- Height minimum 10" (255mm) to a maximum of 15" (380mm)
- Thickness minimum 3/8" (9mm) ³/₄" (20mm)
- This must be fitted with a minimum of 3" (75mm) and a maximum of 6" (150mm) past the A & B pillars.
- This must be securely bolted with a minimum of four bolts.
- It is not permitted to cut slots in the driver's doorplate. Holes for bolts only.
- There must be at least one bolt through the A pillar and one through the B pillar or through the roll cage.
- The bolt size must be at least M16 studding or bolt. M12 is acceptable on all other bolts
- For 2 door and pillar-less cars (no B Pillar), the door plate MUST be bolted through the roll cage.
- Door plates cannot be joined to the water tank in any way.
- All other doors must be secured by bolting, chains or seat belt webbing. The maximum number of bolts
 permitted is four per door. Where plates are used to secure doors (other than the driver's door), the plates must
 be a maximum of 12" x 12" (300mm x 300mm) you may use ONE additional bolt per plate to secure through
 the A or B Pillar, this must be a minimum size ¼" (6mm).

Driver's Floor Plate

- A steel plate fitted to the drivers floor pan is permitted.
- It must be no thicker than 6mm, and must be bolted in only.
- Floor plates may extend up the side of the transmission tunnel, to the same height as the door sill, and up the bulkhead to within 200mm (8") of the top of the bulkhead, but the plate can only be bolted through the floor and the A-pillar only, not to the sill, tunnel or bulkhead.
- A 4" (100mm) steel plate no thicker than 6mm bolted through the A pillar to the door plate can be welded or bolted to the floor plate.

Bonnet/Boot

- The driver must present their car for pre meeting safety checks with the bonnet and bolts but they must NOT be fixed to the car.
- Triangular corner plates or straps may be used to secure the rear of the bonnet. They must be attached to the car by bolting or tack welding to a maximum of 1" (25mm) weld with a 1" (25mm) gap in between. Plates or

straps must be placed no further than 20" (500mm) 12" (300mm) across or down from the back edge and side of the bonnet. WELDING MUST NOT REACH THE 'A' PILLAR ON THE PASSENGER SIDE.

- Bonnets must be bolted down using a maximum of four bolts, two bolts in either side of the bonnet. Maximum height of bolt above the washer is 1½" (37.5mm).
- Bonnets must not be moved forward or overlapped.
- Front bonnet bolts may go through either the slam panel, inner wings or the chassis or you may weld / bolt a
 piece of 2" x 2" (50mm x 50mm) metal SHS OR 3" x 3" (75mm x 75mm) metal angle to a maximum length of 3"
 (75mm) for the bonnet bolt to pass through.
- Crush tubes may be used, which must be a maximum of 2" (50mm) outside diameter steel tube, with a maximum 5mm wall thickness. If bolted, a secondary plate on the opposite side is not permitted.
- Rear crush tubes can be secured by either bolting or welding.
- Maximum size of bolt or studding is 1" (25mm), including shouldering. Cam wheels must not be used as bonnet washers. Maximum size of the washer is 7" (175mm) x 5" (125mm).
- Maximum length of chain if used is 24" (60cm).
- Boot lid or rear door on estate cars may be chained or bolted. If using bolts, a maximum of four, one in each corner, a maximum size of 3/8" (9mm) maybe used, or if using chain up to 24" (60cm) in length is permitted.

Wings

- Front wings may be folded and two additional bolts may be added to secure the wing, however this is not allowed on Vectra's or Mk1 or Mk2 Mondeo's.
- A maximum of two additional bolts are allowed on rear wings/wheel arches.

General

- If the complete dashboard has been removed, then you may be required to make an additional brace to secure
 the steering column, however this is mandatory if the standard support is removed i.e. cross bar on a Mondeo.
- No screen bars allowed.
- You are not permitted to strengthen the gearbox tunnel.
- Expanding foam or any other material must not be used to fill chassis or door sills etc.
- Sunroof must be bolted or welded. If covered, the maximum thickness of flat steel plate is 1/8" (3mm), and the
 maximum size is 4" (100mm) larger than the sun roof opening. Cars without a sunroof may also be fitted with
 a roof plate this must be no further than back than the roll cage, and must not extend beyond the edges of the
 roof. This plate must be a maximum of 3mm thick, and must be securely bolted or welded.
- Any repair welding can only be made with the same gauge metal as the original part of the body or chassis being repaired (maximum of 3" (75mm) square). This can only be secured by tack welding -welding 1" (25mm) with a 1" (25mm) gap before the next weld. One plate can be used to secure the inner wing to the chassis rail. – THIS IS ONLY ON NEW CAR BUILDS.
- It is not permitted to panel in headlight and window apertures.
- It is not permitted to panel in the inside of doors and or the rear parcel shelf and these must be left as
 original. Drivers name visors must be at the top of the windscreen only and must not be welded in place.
 THIS INCLUDES CHAMPIONSHIP MEETINGS.

Suspension

- You may strengthen the Track Control Arm (the steering adjustment arm on the steering rack) by welding or sleeving.
- You may strengthen the standard original bottom arm, but this must remain standard in dimension.
- Re-positioning of the ball joint is not allowed.
- Suspension legs may be welded to the hub.
- No additional strengthening of any other suspension parts is allowed.
- Sub frames must not be welded in place.

Guards/Covers

- Where relevant, a crank sensor protector may be fitted to a maximum size of 2" x 2" (50mm x 50mm) steel angle, 4" in length (100mm), with a maximum of two bolt fixings, secured to the bell housing/engine.
 - You may fit a steel plate distributor guard to the following specification.
 - Maximum area of 9" x 9" (230mm x 230mm), with a maximum thickness of 1/4" (6mm).
 - The steel plate may be bolted or braced using steel RHS, maximum 1" x 1" (25mm x 25mm) or welded TO THE ENGINE ONLY, I.E you CANNOT fit the guard to the sub-frame or gearbox and it must not be touching the water tank in any way.
- Forward facing cam belt engines may run a cam cover, but these must be the same silhouette as the original and bolted to the original mountings. For avoidance of doubt, cam guards cannot be used where the engine does not have a cam belt. Maximum thickness of cam guard is 6mm.
- On Micro Bangers only, a sump guard may be bolted to the front of the engine/engine mount on the driver's side only, and only drop down in front of the sump and no lower than the bottom of the sump. The guard must have a maximum thickness of 6mm plate; no steel RHS, SHS or angle is permitted. The scrutineer's decision is final on oversizing.

5. FUEL SYSTEM

- The original petrol tank must be removed and replaced with a maximum size 2-3 gallon safety tank fitted inside the car on or under the roll bar. Before fitting, the tank should be carefully checked to see that it cannot leak when inverted or on its side and the outlet must be from the top of the tank. The vent pipe from the top of the tank must be terminated below the floor level of the car.
- All fuel lines must be in good condition and securely clamped.
- With carburettor fuelled cars, a manual shut-off tap must be fitted within reach of the driver when strapped in the car, but with fuel injected cars, the fuel flow must be controlled by the pump cut off switch. Immersed fuel pumps are permitted.
- All fuel tanks must be of steel construction and have a metal screw top and must be fitted ONTO the H-frame and NOT on the H Frame Floor plates, i.e. NOT on the car floor itself.
- A one way valve must be fitted to the breather pipe.

6. ELECTRICAL SYSTEM

- Batteries must be bolted or clamped in position and completely covered with rot-proof material to prevent acid leakage. Ratchet straps may be used as a secondary fixing only. Batteries must be fitted on or under the roll bar. If batteries are secured in a box the maximum dimensions are 18" x 12", 460mm x 300mm.
- Alternators, if fitted, cannot be wired to charge.
- All wiring must be fully insulated.
- Electrical starters must be fitted and in working order.
- Ignition and starting must be activated through an insulated switch, not by connecting bare wires together. A
 battery cut off switch MUST be mounted on the roll cage on the near side of the car; the switch must be wired
 to the earth side of the battery.
- Engines that are fitted with ignition system relying on a flywheel sensor (or similar), must not be modified to use a gear driven distributor.
- Ignition boxes on any fuel injection engine converted to carburettor are free, aftermarket products mapped to suit or modified original boxes modified are allowed.
- On fuel injection cars the engine management system including ignition boxes must remain as originally fitted and not re mapped.

7. COOLING SYSTEM

- Only rectangular or L shaped tanks are permitted, with no braces. An L-shaped tank may extend towards the turret on one side of the engine only.
- · Any modifications must be within the original bonnet outline.
- L shaped water tanks must not extend beyond the front of the engine block on rear wheel drive vehicles.
- The tank must be no further forward than 2" (50mm) from the front face of the head on front wheel drive vehicles
- U Shaped tanks are NOT allowed.
- Tanks must not extend beyond the front of the engine block.
- The front of the engine is classed as the block not the pulleys or water pumps etc.
- These tanks must only be secured by four fixings and may not be welded into the car or connected to any door
 or floor plates in any way. The tank must NOT be bolted to or through any part of the chassis, bonnet
 bolts may go through the water tank but if you choose this option they must not be connected to the
 chassis in any way & only through the inner wing.
- · Only two outlets are allowed from the water tank.
- PLÉASE NOTE THAT WATER TANKS ARE FOR COOLING PURPOSES ONLY AND NOT FOR STRENGTHENING, AND ALL PARTS MUST CARRY WATER.
- The water pump may be removed and blanked off.
- Electric water pumps are allowed.
- No cutting of bulkheads allowed.
- Tanks must be non-pressurised.
- An overflow pipe, minimum size 1/2" (13mm), must go under the floor of the car and terminate at the back axle.
- Water outlets may be modified but not armoured used for armouring.

8. ENGINES, GEARBOX & PROPSHAFTS

- The engine and gearbox must be the one originally fitted to the range as manufactured except where specifically confirmed in section 18 of this rulebook.
- The external parts of the engine must remain standard.
- No skimming of the head more than 60 thou from standard.
- No porting or gas flowing.
- No removing or adding material to the ports or combustion chamber.
- No ST170 or ST220 engine components are permitted.

- The cylinder head and the camshaft(s) must remain standard and the Ford Zetec engine must stay on the original Ford camshafts. You may skim the head face for head gasket purposes only.
- On front wheel drive gear box mounts can be modified but must occupy the original position.
- Flywheels may be modified.
- Clutches are free.
- Prop shafts may be made and modified to use sliding components.
- Drive shafts must be standard to the car and must not be fabricated.
- No turbos or superchargers
- No dry sump systems.
- Bulkheads must remain original and not be cut or modified to fit an engine. You may cut a hole in the bulkhead
 to accommodate the wiring and fuel pipe.
- Any Ford Pinto, Duratec or Zetec engine and gearbox may be used in any RWD car as long as this is no larger than the original engine cc.
- Engine mounts may be strengthened but must remain in the original place if fitted. No additional mounts allowed. Modified engine mounts can be welded to the cross member, but must be bolted if attached to the chassis.
- The top left engine mounting on a Mondeo/Focus may have an extra engine mount fitted on the rear of the engine.
- Gearbox mountings on rear wheel drive cars must be original, and can be modified to be solid, or may have
 secondary fixing of a ratchet strap, or M16 studding made into a u-bolt with a flat plate as a washer maximum
 size 50mm wide 6mm thick, and 300mm long. No additional metal is allowed on the chassis to mount the engine,
 and engine mounts must not protect water outlets or distributors etc.
- External cambelt engines may have a copy of the original cambelt cover bolted in the original bolt holes of the
 cover to a maximum thickness of 6mm. These cannot be bolted in any other way except through the original
 bolt holes.

9. EXHAUST & EXHAUST MANIFOLDS

- Standard tubular manifolds may be used, only if fitted as standard to that model e.g. Nissan Primera.
- Ford Mondeo MK1, Ford Mondeo MK2 models must use the standard cast manifold i.e. cannot use a 4 branch tubular manifold.
- No non-standard aftermarket exhaust manifolds are permitted.
- A Ford Mondeo MK3 running the original Mk3 engine with the inlet manifold at the front, may use the standard 4 branch exhaust manifold fitted.
- In all cases the 4 branch manifolds allowed, must be genuine original manufacturers parts.
- If the original exhaust system has to be replaced, there must be at least one silencer to each exhaust pipe and they must be securely fixed after the manifold. <u>No Cherry Bombs or 'straight-through' systems allowed.</u>
- The original mount must be supplemented with at least one additional fixing to secure the system to the car.
- No car will be allowed to race without an exhaust system. Drivers must be aware that if your car appears to be too noisy by a scrutineer or the Steward then you may not be permitted to race or may be black flagged.

10. CARBURETTOR/INLET MANIFOLD

- Fuel injection systems may be modified to carburettor using a manufactured or adapted inlet manifold and must run with one standard downdraft Weber type carburettor to a maximum size or equivalent 38 DGAV e.g. Pierburg, Solex, Weber – NO MULTIPLE CARB SETUPS. If the engine is manufactured in both forms as standard, inlet manifold may be modified or self-manufactured items e.g. Cavalier with the earlier style inlet manifold.
- Carburettors may be replaced with the equivalent size Weber conversion as per specification below. Adapter
 plates may be fitted by bolting or welding (max size carburettor allowed is 38DGAS as fitted to the 3.0 Litre V6
 or 2.8 carburettor).
- Vehicles fitted with fuel injection can be used providing they are fitted using the standard banger fuel system
 and the fuel pump is replaced with a standard high pressure pump, or submersible pump. Suitable high pressure
 fuel lines must be used between the fuel pump and the injection system.
- Cold starting devices may be removed.
- Jets may be changed.
- Replacement Spindles with standard screws may be fitted, no polishing or reproofing allowed, no modifying or enlargement of any fuel galleries allowed.
- Floats must not be modified or weighted and needle valve must remain standard size, enrichment or power valve must be fitted and working.
- Solex or Pierburg carburettor may be replaced with the equivalent size Weber conversion as above.
- All Weber carburettors must have a visual secondary fixing on the fuel inlet pipe.
- Air filters may be removed or replaced by competition type.

11. SUSPENSION, BRAKES AND AXLES

- Suspension components must remain standard, except where specific strengthening is allowed in section 4.
- Spring assistor rubbers are allowed.
- Springs may be changed but no 21/4 type competition springs.
- · Springs may be heated or cut for lowering purposes.
- A secondary fixing is required on coil springs that may fall out; chain or wire should be used.
- Shock absorbers must be standard type as fitted originally. No interchanging of suspension parts allowed.
- Bump stops may be removed.
- Camber must not be altered from standard, race damage must be proven and this will not be tolerated on new cars. The Scrutineers decision is FINAL.
- Bluebird/Micra or similar car may use a strap connecting the two wishbones, but this may not be connected to
 any other part of the car or the engine. This strap must be a maximum of 2"x 2" (50mm x 50mm), and can
 only be used on cars with no subframe.
- The tack welding of anti-roll bar brackets is allowed.
- All suspension rubber mounted tops may be secured (no welding permitted) with a larger washer than original.
- Brakes must be effective.
- Axle casings must not be welded or reinforced.

12. DIFFERENTIALS

- Ratios are free but must be standard to the range.
- Limited slip differentials (except shale see below), locked differentials, welded (except shale see below) or
 power-locked differentials are not allowed, even if fitted as standard or available as an optional extra to the car.
 However, on shale surfaces Limited Slip and welded Differentials are permitted.

13. WHEELS

- Any standard steel or alloy wheel up to 61/2"J that fits without modification may be used.
- Cut and shut or banded wheels are not permitted.
- All wheel nuts must be fitted.

14. TYRES

- You may only use conventional road tyres up to 205/50.
- All tyres should have a minimum durometer reading of 60, whenever tested.
- · All identification markings to remain on tyres.
- Any tyre with buffed markings will not be accepted, and will be subject to disciplinary action.
- Tyre gaiters are permitted.
- "Run flat" tyres, 1B rated 'Track-day' tyres, Rally tyres, competition type, cut tyres, Town and Country, Mud & Snow Type or Kingpin Alpine Series tyres are NOT allowed.
- As from 1 May 2017 any Winter Pattern/M&S Type Kingpin tyres eg ALP4 are banned - see example photos
- The ORCi reserves the right to ban any tyre make or type which gives an unfair advantage.
- All tyres listed in the table below are NOT allowed.





AVON	• CR 311	Ecsta TW02	PIRELLI
ACB 10 Sport	 Sport Maxx Race 	 Ecsta C03MARANGONI 	P Zero Trofeo
 CR6ZZ (Including Sport) 	SP Sport R7	 Zeta Linea Sport 	P Zero C
 Turbospeed CR28 Sport 			• CA67
• CR500	FEDERAL	MAXSPORT	• CF67
• ZZR	• 595 EVO	 RB4 Intermediate 	P Zero Corsa
	• 595 RSR	• RB5	 P7 Corsa Classic
BRIDGESTONE	• FZ 201		 P Zeri Torfeo R12
Potenza S007 RFT		MAXXIS	
	GOODYEAR	Maz1 Drift	SILVERSTONE
CONTINENTAL	EAGLE F1		FTZ Sport RR
 ContiForce Contact 		MICHELIN	FTZ Wet Tyre
	HANKOOK	 Pilot Sport Cup 	• S575
DMACK	• Z209	Pilot Sport Cup 2	• S585
Trackday	• Z210	• TB 15	
		• TB 15 (f & r)	тоуо
DUNLOP	кимно		• R888
 Formula R D83J/D84J 	 Ecsta V700 (inc V78) 	NANGKANG	• R1-R
Formula R D93J	Ecsta V70A	•NS-2R	
 Direzza 02G or 03G 	Ecsta TW01		
	1		1

15. SAFETY EQUIPMENT

- Flame retardant racing suits are compulsory. Neck braces & Frontal Head Restraint Systems may be used.
 Fireproof Balaclavas are MANDATORY. Fireproof gloves are MANDATORY and must be marked appropriately.
- A full shoulder-type safety harness as approved by ORCi for Bangers with lap-straps must be fitted and bolted to the floor.
- A minimum of a four point buckle fixing must be used with a minimum of 3 floor fixings. A secure part of the floor or cage (including the seat bar), are recommended anchor points.
- A suitable head restraint must be fitted to the roll cage or seat. It is compulsory to pad roll cages by the drivers head including the B pillar and steering columns must also be padded with high density foam.
- A 1Kg Dry Powder Gauge Fire Extinguisher may be fitted, this should be in a tube with a spring top and should be within easy reach of the driver. Old type BCF (green) type extinguishers are not allowed. All tow vehicles, must carry a minimum of a 2kg fire extinguisher dry powder or gas, which must be within easy reach of the driver and mechanics at all times, especially when refuelling.
- Helmets MUST meet or exceed the MINIMUM standard as directed by BORSE. The current approved standards are:
 - FIA8860-2004, FIA 8860-2010, FIA 8859-2015
 - Snell SA2005, Snell SA2010, Snell SAH2010, Snell SA2015, Snell EA2016
 - SFI Foundation 31.1A, SFI Foundation 31.2A, SFI 31.1
 - ECE R22.05 (in Fibreglass, Carbon or Tri-Composite form ONLY)
 - The use of polycarbonate helmets is NOT permitted.
- It is important that the helmet fits the driver correctly. Shatterproof goggles/visors must be worn although tinted visors are not advisable. Your helmet must display the current ORCi (ORC15) sticker.
- On wet meetings waterproofs may be worn as over garments.

16. SEATS

- The driver's seat must be secured and supported to the roll cage at shoulder level by bolting or tying.
- The 2nd roll cage cross brace may be used to support the seat, but it must be set below the bottom of the window
 aperture or you may construct and weld a frame on to the cage to support the seat.
- The driver's seat must be a standard production seat, not a racing seat.

17. NUMBERS

- You must fit a fin plate to the roof of your car, minimum size 18" x 12" (460mm x 300mm) and a maximum size of 20" x 15" (510mm x 380mm).
- Your number must be either white on a black background or black on a white background, no other colours allowed, any other writing allowed must not interfere with the numbers, which must be minimum size 9" (230mm) high x 1½" (40mm) wide. If your number is not to the above specification, you may not be lap scored.

18. ROOF GRADES

If applicable to the Promotion you race for, your grade colour must be painted on the whole roof of your car.

19. FINAL PREPARATION

- The external painting of the car should be in bright colours. Any colour schemes are permitted.
- · Rusty or dirty vehicles will not be allowed out onto the circuit.
- Rude or provocative slogans are not allowed; please remember this is a family sport.
- In addition to the car construction rules, all cars presented at scrutineering must be considered safe and not
 unsightly.
- New under sealing of the underside of the car is strictly forbidden.

REVISED RULES FOR 2017 IN BOLD/ITALIC/RED PRINT ITEMS MARKED STRIKETHROUGH ARE NO LONGER ALLOWED 2017 National Banger Technical Specifications Issue 6, Dated 31 January 2017 These rules are valid from 1 March 2017.



2017 NATIONAL BANGER SPECIFICATIONS UNLIMITED cc

The overriding principle of these regulations is that unless it is stated that you can do it, you must work on the principle that you CANNOT.

1. TYPE OF CAR PERMITTED FOR USE

- You must use any Rear Wheel Drive four wheel saloon, coupe, estate car or people carrier.
- No SUV's, 4 x 4 or van derived (e.g. SsangYong Rodius) vehicles allowed.
- The MOT Brake Weight Chart maybe used to determine which cars are eligible for the unlimited cc class as follows. (1360kg - over) e.g. Triumph 2000 – unlimited
- Front wheel drive American cars maybe permitted with prior permission from the staging promotion only
- Chrysler Imperial chassised cars are NOT permitted for use.
- The Toyota Previa is permitted for use but must run on a radiator which must be fitted in front of the
 engine and in the engine compartment. The rear suspension must be lowered to an average 410mm bumper
 height.
- As from 3 April 2017 the SsangYong Rodius is not permitted for use.
- Cars that would be unsuitable for racing due to age/corrosion or style, may be allowed to race with the Staging Promoter's permission for welding repairs to make it track worthy.

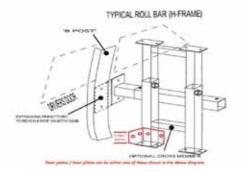
Special Meetings

- Your promoter will state either via the fixture list or special entry form at which meetings this rule can be used and therefore <u>cannot</u> be used by a driver regardless of type of car at a normal meeting!!
- Promoters may run special meetings for a certain type of vehicle e.g. 7.5 tonnes vehicles, SUV's, 4 X 4's, Reliant Robins, Coaches etc, for which rules will be issued by the Staging Promoter. Left hand drive vehicles may be permitted at the promoter's discretion – this should be checked in advance with the staging promoter.

2. STRIPPING & PREPARATION

- It is compulsory to remove all the interior, glass, airbags and charges, spoilers and side-skirts.
- The complete dashboard should be removed wherever possible.
- Remove all seats except the driver's which must be retained, the use of a racing seat is not allowed.
- Remove spare wheel carriers and tow bars plus associated steelwork if fitted.
- Original fuel tanks must be removed. If however, the tank is an integral part of the body you must remove as much as possible.
- You may use the original standard steel bumper. If a front bumper is fitted, a maximum of three additional bolts may also be fitted to secure it in place. No wrap around bumpers allowed. Plastic bumpers must be removed. All cars with aluminium bumpers must have the bumper and retaining irons removed before racing e.g. Volvo 2 series. You may fit a bumper/flat plate 100mm x 3mm in its place. This may be folded back a maximum of 3" (75mm) with a maximum of two bolts per side. The bolts must go THROUGH the chassis and not UP the chassis.
- Later type cars with extended chassis rails e.g. Vauxhall Omega, may also be fitted with a bumper or plate to
 the above rule or cut the chassis rail back to the front valance.
- Cars with no front cross members may use a Ford Galaxy people carrier front bumper or similar replacement. It is also permitted to link the chassis members with a chain.

3. ROLL BAR



- You must fit a single "hoop" roll bar in support of the door pillars, securely bolted to the roof and floor with a
 minimum size M12 bolt and suitable washers.
- You must have a minimum of four bolts in the top and four in the bottom, with a maximum of eight in the bottom on each side. The maximum size of the base plate is 15" (385mm) x 11" (280mm). The plate may go up the side of the sill or straight up the rear panel up to a maximum of 4" (102mm) high. This must be the same length and width as the base plate/floor plate of the cage. A maximum of two bolts are permitted through the side.
- Roll cages may be adjustable (height/width), however the use of screw adjusters i.e. acrow style, are not
 permitted.
- The roll cage must be fitted upright or dog-legged, but not leaning back or forward.
- It is compulsory to pad with high density foam roll cages by the driver's head, B pillar and steering column.
- The hoop must be one piece, or two uprights and one top bar of a welded construction. This top bar should be as shown at the top of the uprights.
- A second cross bar is compulsory, a third is optional; these must be welded or bolted to the uprights.
- THE ROLL BAR MUST NOT HAVE ANY REAR SUPPORTS but may have extensions no further forward than the B post (see diagram) (this applies to both sides of the car). If used, it is highly recommended that this is bolted through the B post.
- You may bolt the roll bar through both sides of the car.
- The minimum size steel for the roll bar is 2" (50mm) x 2" (50mm) RHS or tube equivalent, up to a maximum size
 of 4" (100mm) x 4" (100mm)) RHS or tube equivalent. A minimum wall thickness of 3mm is required.
- Crossbars must have a 5" (125mm) square end plate fitted. This must be a minimum of 6mm thick.
- You must tie the seat at shoulder level to the roll cage or B pillar. This must be done through the seat frame and
 not the headrest; you may fit the 2nd cross bar in support of the seat just below the window aperture or weld a
 frame on the cage to support the seat at the top.

4. STRENGTHENING & PREPARATION

 Cars that fail pre or post-race scrutineering, found to be armoured or strengthened, including engine or gearbox suspension mounts that are over the top and not rectifiable on the day, will receive an immediate ORCi ban. If the vehicle can be rectified at the track then the vehicle must race, otherwise the driver will face an ORCi ban.

Doors & Door Plates

- The driver's door may be welded, but must have no additional strengthening (this includes gussets) other than steel RHS, which is allowed in the lower window aperture of the drivers and rear driver's door, not extending further than the rear of the H frame. Please note that this is not allowed on the passenger side.
- A FLAT (no channel or angle) steel plate MUST be bolted over the driver's door to the following dimensions:
- Height minimum 10" (255mm) to a maximum of 15" (380mm)
- Thickness minimum 3/8" (9mm) ³/₄" (20mm)
- This must be fitted with a minimum of 3" (75mm) and a maximum of 6" (150mm) past the A & B pillars.
- This must be securely bolted with a minimum of four bolts.
- It is not permitted to cut slots in the driver's doorplate. Holes for bolts only.
- There must be at least one bolt through the A pillar and one through the B pillar or through the roll cage.
- The bolt size must be at least M16 studding or bolt. M12 is acceptable on all other bolts
- For 2 door and pillar-less cars (no B Pillar), the door plate MUST be bolted through the roll cage.
- Door plates cannot be joined to the water tank in any way.
- All other doors must be secured by bolting, chains or seat belt webbing. The maximum number of bolts permitted is four per door. Where plates are used to secure doors (other than the driver's door), the plates must be a maximum of 12" x 12" (300mm x 300mm) – you may use ONE additional bolt per plate to secure through the A or B Pillar, this must be a minimum size ¼" (6mm).

Driver's Floor Plate

- A steel plate fitted to the driver's floor pan is permitted compulsory.
- It must be no thicker than 6mm, and must be bolted in only.
- Floor plates may extend up the side of the transmission tunnel, to the same height as the door sill, and up the bulkhead to within 200mm (8") of the top of the bulkhead, but the plate can only be bolted through the floor and the A-pillar only, not to the sill, tunnel or bulkhead.
- A 4" (100mm) steel plate no thicker than 6mm bolted through the A pillar to the door plate can be welded or bolted to the floor plate.

Bonnet/Boot

- The driver must present their car for pre meeting safety checks with the bonnet and bolts but they must NOT be fixed to the car.
- Triangular corner plates or straps may be used to secure the rear of the bonnet. They must be attached to the car by bolting or tack welding to a maximum of 1" (25mm) weld with a 1" (25mm) gap in between. Plates or

straps must be placed no further than 20" (500mm) across or down from the back edge and side of the bonnet. WELDING MUST NOT REACH THE 'A' PILLAR ON THE PASSENGER SIDE.

- Bonnets must be bolted down using a maximum of four bolts, two bolts in either side of the bonnet. Maximum height of bolt above the washer is 1½" (37.5mm).
- Bonnets must not be moved forward or overlapped.
- Front bonnet bolts may go through either the slam panel, inner wings or the chassis or you may weld / bolt a
 piece of 2" x 2" (50mm x 50mm) metal SHS OR 3" x 3" (75mm x 75mm) metal angle to a maximum length of 3"
 (75mm) for the bonnet bolt to pass through.
- Crush tubes may be used, which must be a maximum of 2" (50mm) outside diameter steel tube, with a maximum 5mm wall thickness. If bolted, a secondary plate on the opposite side is not permitted.
- Rear crush tubes can be secured by either bolting or welding.
- Maximum size of bolt or studding is 1" (25mm), including shouldering. Cam wheels must not be used as bonnet washers. Maximum size of the washer is 7" (175mm) x 5" (125mm).
- Maximum length of chain if used is 24" (60cm).
- Boot lid or rear door on estate cars may be chained or bolted. If using bolts, a maximum of four, one in each corner, a maximum size of 3/8" (9mm) maybe used, or if using chain up to 24" (60cm) in length is permitted.

Wings

- Front wings may be folded and two additional bolts may be added to secure the wing.
- A maximum of two additional bolts are allowed on rear wings/wheel arches.
- Cars manufactured without metal inner wings MUST not be fitted with fabricated panels.
- Cars with inner wings cannot be replaced with thicker or additional material.

General

- If the complete dashboard has been removed, then you may be required to make an additional brace to secure the steering column, however this is mandatory if the standard support is removed i.e. cross bar on a Mondeo.
- No screen bars allowed.
- You are not permitted to strengthen the gearbox tunnel.
- Expanding foam or any other material must not be used to fill chassis or door sills etc.
- Sunroof must be bolted or welded. If covered, the maximum thickness of flat steel plate is 1/8" (3mm), and the
 maximum size is 4" (100mm) larger than the sun roof opening. Cars without a sunroof may also be fitted with
 a roof plate this must be no further than back than the roll cage, and must not extend beyond the edges of the
 roof. This plate must be a maximum of 3mm thick, and must be securely bolted or welded.
- Any repair welding can only be made with the same gauge metal as the original part of the body or chassis being repaired (maximum of 3" (75mm) square). This can only be secured by tack welding - welding 1" (25mm) with a 1" (25mm) gap before the next weld. One plate can be used to secure the inner wing to the chassis rail.
 THIS IS ONLY ON NEW CAR BUILDS.
- It is not permitted to panel in headlight and window apertures.
- It is not permitted to panel in the inside of doors and or the rear parcel shelf and these must be left as
 original. Drivers name visors must be at the top of the windscreen only and must not be welded in place.
 THIS INCLUDES CHAMPIONSHIP MEETINGS.

Suspension

- You may strengthen the Track Control Arm (the steering adjustment arm on the steering rack) by welding or sleeving.
- You may strengthen the standard original bottom arm, but this must remain standard in dimension.
- Re-positioning of the ball joint is not allowed.
- Suspension legs may be welded to the hub.
- No additional strengthening of any other suspension parts is allowed.
- Front and rear sub frames may be secured by bolting or tack welding to the width of the mounting only.

Guards/Covers

- Where relevant, a crank sensor protector may be fitted to a maximum size of 2" x 2" (50mm x 50mm) steel angle, 4" in length (100mm), with a maximum of two bolt fixings, secured to the bell housing/engine.
- You may fit a steel plate distributor guard to the following specification.
 - Maximum area of 9" x 9" (230mm x 230mm), with a maximum thickness of ¼" (6mm).
 - The steel plate may be bolted or braced using steel RHS, maximum 1" x 1" (25mm x 25mm) or welded TO THE ENGINE ONLY, I.E you CANNOT fit the guard to the sub-frame or gearbox and it must not be touching the water tank in any way.

5. FUEL SYSTEM

 The original petrol tank must be removed and replaced with a maximum size 2-3 gallon safety tank fitted inside the car on or under the roll bar. Before fitting, the tank should be carefully checked to see that it cannot leak when inverted or on its side and the outlet must be from the top of the tank. The vent pipe from the top of the tank must be terminated below the floor level of the car.

- All fuel lines must be in good condition and securely clamped.
- With carburettor fuelled cars, a manual shut-off tap must be fitted within reach of the driver when strapped in the car, but with fuel injected cars, the fuel flow must be controlled by the pump cut off switch. Immersed fuel pumps are permitted.
- All fuel tanks must be of steel construction and have a metal screw top and must be fitted ONTO the H frame and NOT on the H Frame Floor plates, i.e. NOT on the car floor itself.
- A one way valve must be fitted to the breather pipe.

6. ELECTRICAL SYSTEM

- Batteries must be bolted or clamped in position and completely covered with rot-proof material to prevent acid leakage. Ratchet straps may be used as a secondary fixing only. Batteries must be fitted on or under the roll bar. If batteries are secured in a box the maximum dimensions are 18" x 12", 460mm x 300mm.
- Alternators, if fitted, cannot be wired to charge.
- All wiring must be fully insulated.
- · Electrical starters must be fitted and in working order.
- Ignition and starting must be activated through an insulated switch, not by connecting bare wires together. A battery cut off switch MUST be mounted on the roll cage on the near side of the car; the switch must be wired to the earth side of the battery.
- Engines that are fitted with ignition system relying on a flywheel sensor (or similar), must not be modified to use a gear driven distributor.
- Ignition boxes on any fuel injection engine converted to carburettor are free, aftermarket products mapped to suit or modified original boxes modified are allowed
- On fuel injection cars the engine management system including ignition boxes must remain as originally fitted and not re mapped.

7. COOLING SYSTEM

- Only rectangular or L shaped tanks are permitted, with no braces. An L-shaped tank may extend towards the turret on one side of the engine only.
- Any modifications must be within the original bonnet outline.
- L shaped water tanks must not extend beyond the front of the engine block on rear wheel drive vehicles.
- The tank must be no further forward than 2" (50mm) from the front face of the head on front wheel drive vehicles.
- U Shaped tanks are NOT allowed.
- Tanks must not extend beyond the front of the engine block.
- The front of the engine is classed as the block not the pulleys or water pumps etc.
- These tanks must only be secured by four fixings and may not be welded into the car or connected to any door
 or floor plates in any way, The tank must NOT be bolted to or through any part of the chassis. Bonnet
 bolts may go through the water tank but if you choose this option they must not be connected to the
 chassis in any way & only through the inner wing.
- Only two outlets are allowed from the water tank.
- PLÉASE NOTE THAT WATER TANKS ARE FOR COOLING PURPOSES ONLY AND NOT FOR STRENGTHENING, AND ALL PARTS MUST CARRY WATER.
- The water pump may be removed and blanked off.
- Electric water pumps are allowed.
- No cutting of bulkheads allowed.
- Tanks must be non-pressurised.
- An overflow pipe, minimum size 1/2" (13mm), must go under the floor of the car and terminate at the back axle.
- Water outlets may be modified but not armoured used for armouring.

8. ENGINES, GEARBOX & PROPSHAFTS

- You may replace the standard engine with any engine, provided it is of the same or smaller cc.
- Engine mounts may be strengthened but must remain in the original place if fitted. No additional mounts allowed. Modified mounts can be welded to the cross member, but must be bolted if attached to the chassis.
- On transplanted engines the position of the mounts on the engine are free, but the rule on chassis or cross member mounts is as above. The purpose is to hold the engine and not strengthen the car. Every part must be behind the front of the engine and not used for armouring. For clarification purposes the engine cradle or manufactured mounts must be made from two pieces of steel angle, two pieces of steel plate and one piece of steel RHS or tube equivalent connecting the two plates. Each length of steel angle must only be a maximum of 10" (250mm) long. The maximum thickness of steel angle and steel plate is 6mm. The cradle must not be attached to the water tank.

- The external parts of the engine must remain standard.
- Additional gearbox mounts are only allowed on rear wheel drive cars. On front wheel drive gear box mounts
 must occupy the original position but can be strengthened.
- Flywheels may be modified.
- The mk.1, mk.2 and mk.3 Granada's are allowed to interchange the V6 engines and gearboxes.
- Prop shafts may be made and modified to use sliding components.
- Drive shafts may be modified using sliding components.
- No turbos or superchargers.
- No dry sump systems.
- Bulkheads must remain original and not be cut or modified to fit an engine. You may cut a hole in the bulkhead
 to accommodate the wiring and fuel pipe.
- Any Ford Pinto, Duratec 'i4' or Zetec engine and gearbox may be used in any RWD car as long as this is no larger than the original engine cc.
- Gearbox mountings on rear wheel drive cars must be original, and can be modified to be solid, or may have
 secondary fixing of a ratchet strap, or M16 studding made into a u-bolt with a flat plate as a washer maximum
 size 50mm wide by 6mm thick, and 300mm long. No additional metal is allowed on the chassis to mount the
 gearbox.
- External cambelt engines may have a copy of the original cambelt cover bolted in the original bolt holes of the
 cover to a maximum thickness of 6mm. These cannot be bolted in any other way except through the original
 bolt holes.
- Duratec 'i4' engine may have a strengthening plate fitted behind the original plate at the bottom of the engine only. The Ford Galaxy aluminium protection plate must be removed if the engine is fitted in any other car other than the Ford Galaxy.

9. EXHAUST & EXHAUST MANIFOLDS

- Exhaust manifolds must remain standard to the range of engine being used.
- Tubular manifolds must be standard and genuine manufacturers items for the range of the engine being used and not an optional/aftermarket extra. In some cases these may have to be modified by heating and bending for engine transplants only, i.e. not for gain.
- If the original exhaust system has to be replaced, there must be at least one silencer to each exhaust pipe and
 they must be securely fixed after the manifold. <u>No Cherry Bombs or 'straight-through' systems allowed.</u>
- The original mount must be supplemented with at least one additional fixing to secure the system to the car.
- No car will be allowed to race without an exhaust system. Drivers must be aware that if your car appears to be too noisy by a scrutineer or the Steward then you may not be permitted to race or may be black flagged.

10. CARBURETTOR/INLET MANIFOLD

- Fuel injection systems may be modified to carburettor using a manufactured or adapted inlet manifold and must run with one standard downdraft Weber type carburettor to a maximum size or equivalent 38 DGAV e.g. Pierburg, Solex, Weber. No multiple carburettor setups on four cylinder engines. Six cylinder and above engines may run twin SU carburettors but not two twin choke carburettors.
- Carburettors may be replaced with the equivalent size Weber conversion as per specification below. Adapter
 plates may be fitted by bolting or welding (max size carburettor allowed is 38DGAS as fitted to the 3.0 Litre V6
 or 2.8 carburettor).
- Vehicles fitted with fuel injection can be used providing they are fitted using the standard banger fuel system
 and the fuel pump is replaced with a standard high pressure pump, or submersible pump. Suitable high pressure
 fuel lines must be used between the fuel pump and the injection system.
- Cold starting devices may be removed.
- Jets may be changed.
- Replacement Spindles with standard screws may be fitted, no polishing or reproofing allowed, no modifying or enlargement of any fuel galleries allowed.
- Floats must not be modified or weighted and needle valve must remain standard size, enrichment or power valve must be fitted and working.
- Solex or Pierburg carburettor may be replaced with the equivalent size Weber conversion as above.
- All carburettors must have a visual secondary fixing on the fuel inlet pipe.
- Air filters may be removed or replaced by competition type.

11. SUSPENSION, BRAKES AND AXLES

- Suspension components must remain standard, except where specific strengthening is allowed in section 4.
- Spring assistor rubbers are allowed.
- Springs may be changed but no 21/4" competition springs.
- Springs may be heated or cut for lowering purposes.
- A secondary fixing is required on coil springs that may fall out, chain or wire should be used.
- Shock absorbers must be standard type as fitted originally. No interchanging of suspension parts allowed.

- Bump stops may be removed.
- Camber must not be altered from standard, race damage must be proven and this will not be tolerated on new cars. The Scrutineers decision is FINAL.
- The tack welding of anti-roll bar brackets is allowed.
- All suspension rubber mounted tops may be secured (no welding permitted) with a larger washer than original.
- Front suspension can only be altered with car derived parts.
- Back axles can be interchanged with light commercial type but the car's ride height must remain the same.
- Front axles can be changed with car derived parts but mountings must be no larger than standard.
- Brakes must be effective.

12. DIFFERENTIALS

- Ratios are free but must be standard to the range.
- Differential are free and may even be welded and locked.
- Axle casings must not be welded or reinforced.

13. WHEELS

- Any standard steel or alloy wheel up to 7J that fits without modification may be used if it is standard to the car.
- Cut and shut or banded wheels are not permitted.
- All wheel nuts must be fitted.

14. TYRES

- On unlimited meetings only, conventional road tyre up to 235 may be used and a minimum of 50 profile.
- All tyres should have a minimum durometer reading of 60, whenever tested.
- · All identification markings to remain on tyres.
- Any tyre with buffed markings will not be accepted, and will be subject to disciplinary action.
- Tyre gaiters are permitted.
- "Run flat" tyres, 1B rated 'Track-day' tyres, Rally tyres, competition type, cut tyres, Town and Country, Mud & Snow Type or Kingpin Alpine Series tyres are NOT allowed.
- As from 1 May 2017 any Winter Pattern/M&S Type Kingpin tyres eg ALP4 are banned - see example photos
- The ORCi reserves the right to ban any tyre make or type which gives an unfair advantage.
- All tyres listed in the table below are NOT allowed.



AVON	• CR 311	Ecsta TW02	PIRELLI
ACB 10 Sport	 Sport Maxx Race 	 Ecsta C03MARANGONI 	P Zero Trofeo
 CR6ZZ (Including Sport) 	SP Sport R7	 Zeta Linea Sport 	P Zero C
 Turbospeed CR28 Sport 		-	• CA67
• CR500	FEDERAL	MAXSPORT	• CF67
• ZZR	• 595 EVO	 RB4 Intermediate 	P Zero Corsa
	• 595 RSR	• RB5	 P7 Corsa Classic
BRIDGESTONE	• FZ 201		P Zeri Torfeo R12
 Potenza S007 RFT 		MAXXIS	
	GOODYEAR	Maz1 Drift	SILVERSTONE
CONTINENTAL	EAGLE F1		FTZ Sport RR
 ContiForce Contact 		MICHELIN	FTZ Wet Tyre
	HANKOOK	 Pilot Sport Cup 	• S575
DMACK	• Z209	 Pilot Sport Cup 2 	• S585
 Trackday 	• Z210	• TB 15	
		• TB 15 (f & r)	тоуо
DUNLOP	КИМНО		• R888
 Formula R D83J/D84J 	 Ecsta V700 (inc V78) 	NANGKANG	• R1-R
 Formula R D93J 	Ecsta V70A	•NS-2R	
 Direzza 02G or 03G 	Ecsta TW01		

15. SAFETY EQUIPMENT

- Flame retardant racing suits are compulsory. Neck braces & Frontal Head Restraint Systems may be used.
 Fireproof Balaclavas are MANDATORY. Fireproof gloves are MANDATORY and must be marked appropriately.
- A full shoulder-type safety harness as approved by ORCi for Bangers with lap-straps must be fitted and bolted to the floor.
- A minimum of a four point buckle fixing must be used with a minimum of 3 floor fixings. A secure part of the floor or cage (including the seat bar), are recommended anchor points.
- A suitable head restraint must be fitted to the roll cage or seat. It is compulsory to pad roll cages by the drivers head including the B pillar and steering columns must also be padded with high density foam.
- A 1Kg Dry Powder Gauge Fire Extinguisher may be fitted, this should be in a tube with a spring top and should be within easy reach of the driver. Old type BCF (green) type extinguishers are not allowed. All tow vehicles, must carry a minimum of a 2kg fire extinguisher dry powder or gas, which must be within easy reach of the driver and mechanics at all times, especially when refuelling.
- Helmets MUST meet or exceed the MINIMUM standard as directed by BORSE. The current approved standards are:
- FIA8860-2004, FIA 8860-2010, FIA 8859-2015
- Snell SA2005, Snell SA2010, Snell SAH2010, Snell SA2015, Snell EA2016
- SFI Foundation 31.1A, SFI Foundation 31.2A, SFI 31.1
- ECE R22.05 (in Fibreglass, Carbon or Tri-Composite form ONLY)
- The use of polycarbonate helmets is NOT permitted.
- It is important that the helmet fits the driver correctly. Shatterproof goggles/visors must be worn although tinted visors are not advisable. Your helmet must display the current ORCi (ORC15) sticker.
- On wet meetings waterproofs may be worn as over garments.

16. <u>SEATS</u>

- The driver's seat must be secured and supported to the roll cage at shoulder level by bolting or tying.
- The 2nd roll cage cross brace may be used to support the seat, but it must be set below the bottom of the window
 aperture or you may construct and weld a frame on to the cage to support the seat.
- The driver's seat must be a standard production seat, not a racing seat.

17. NUMBERS

- You must fit a fin plate to the roof of your car, minimum size 18" x 12" (460mm x 300mm) and a maximum size of 20" x 15" (510mm x 380mm).
- Your number must be either white on a black background or black on a white background, no other colours allowed, any other writing allowed must not interfere with the numbers, which must be minimum size 9" (230mm) high x 1½" (40mm) wide. If your number is not to the above specification, you may not be lap scored.

18. ROOF GRADES

If applicable to the Promotion you race for, your grade colour must be painted on the whole roof of your car.

19. FINAL PREPARATION

- The external painting of the car should be in bright colours. Any colour schemes are permitted.
- Rusty or dirty vehicles will not be allowed out onto the circuit.
- Rude or provocative slogans are not allowed; please remember this is a family sport.
- In addition to the car construction rules, all cars presented at scrutineering must be considered safe and not unsightly.
- New under sealing of the underside of the car is strictly forbidden.

REVISED RULES FOR 2017 IN BOLD/ITALIC/RED PRINT ITEMS MARKED STRIKETHROUGH ARE NO LONGER ALLOWED 2017 National Banger UNLIMITED Technical Specifications Issue 6, Dated 31 January 2017 These rules are valid from 1 March 2017.

BANGERS (ROOKIES) RULES

TYPE OF RACING

- Rookie Bangers are intended to be a LIMITED CONTACT formula, BUT without excessive contact. You
 may push a car in front or attempt to spin it out. Drivers are not permitted to follow another car into the
 safety fence, intentionally attack a stationary car, drive in the opposite direction or deliberately wreck
 another car. Any driver who is in contravention of these rules shall at the promotions discretion receive a
 FULL ORC ban.
- When referring to the engine, gearbox, differential, mechanical or construction, rules and regulations 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.
- Cars found with modifications that are not permitted may result in disciplinary action being taken against the driver. All car and engine specifications will be taken from the Technical Service Data book for cars as published by Glass's Guide Service Limited.

1. TYPE OF CAR

Any British or European specification, four wheel, right-hand two wheel drive, Saloon/Hatchback or Estate
car over 1300cc but under 1800cc. No Granadas or rwd Volvos are allowed except the Volvo 340 series
and no cars powered by the Honda twin cam engine are permitted. The use of turbo or supercharged
cars are not permitted. The car must have and all-steel body, which must not be lowered, narrowed or
shortened.

2. PREPARATION

- Remove all exterior mouldings/headlamps/door handles/mirrors.
- Remove all glass, interior trim, head linings, door linings, floor coverings, passenger seats. Driver's door window mechanisms must be removed.
- It is strongly advised that all possible components of the dashboard are removed.
- · Remove spare wheel carriers and tow bars if fitted.
- Grilles must be removed. No replacement, "home-made" grilles allowed.
- Front wings may be trimmed to give clearance to the wheel but must not be folded.
- The B pillar should be padded to give protection to the driver's head.
- Doors must either be bolted, chained or secured with seat belt webbing. Only the driver's door maybe welded, and there is no restriction on the amount of welding.
- A steel door plate 10["] to 15["] deep % ½" thick must be bolted over the drivers door. This must be fitted with a minimum of 3["] and a maximum of 6["] past the A & B pillars securely bolted with a minimum of 4 bolts. There must be at least 1 bolt through the A pillar and one must be through the B pillar or through the roll cage. The bolt size must be at least 16mm studding or bolt (Only flat plate is allowed, no channel, angle or corrugated steel allowed). 8mm is the smallest size bolt allowed on all other bolts except A & B pillar.
- No additional welding is permitted.
- Bonnet may be removable but must be securely fixed front and back with seat belt webbing or the original hinges. (No large Banger bolts or crush tubes allowed). If necessary two 10mm thread size bolts through the slam panel maybe used. You are permitted to use flat plate at the rear to clip the bonnet under.
- · Roof apertures must be plated over (bolted or welded) No foam filled panels
- No roof spoilers or aerofoils allowed.
- Front and rear bumpers can be removed. All plastic bumpers must be secured using webbing. Metal bumpers may remain on providing it is the original bumper for the make/model of car being used. Metal bumpers may have up to 3 extra bolts to secure fixing.

3. SUSPENSION

- Must remain standard. No interchanging of suspension parts is permitted.
- Brakes must remain standard and to be effective. Hand brake must be fitted and be in working order.
- · Back axles must be standard to the car with no additional strengthening.

4. ROLL BAR

- You must fit a single "hoop" roll bar(H frame) in support of the door pillars, securely bolted to the roof and floor with a minimum size bolt of %" (10mm thread) and suitable washers.
- The minimum size for roll bar is 2" (50mm), maximum size 4" (100mm), minimum thickness 3mm (1/2").
- The roll bar cross bars must be straight, or extended forward to the B pillar and preferably bolted through
 the pillar
- The hoop must be one piece or two uprights on one top bar of a welded construction.
- One cross bar is compulsory, a second is optional; these must be welded or bolted to the uprights.
- Crossbars must have a 5" (125mm) square end plate fitted.
- The 2nd roll cage cross brace may be used to support the seat, but it must be set below the bottom of the window aperture THE ROLL BAR MUST NOT HAVE ANY REAR SUPPORTS but may have extensions no further forward than the B post (see diagram below). If used, these must be bolted through the B post.
- Each upright must have a minimum of two bolts on each side to the floor and one each side at the top.
- No scaffold clamps allowed, all adjustable feet must be welded to the cage.
- The seat must be supported and secured at shoulder level to the cage, you may fit the 2nd cross bar in support of the seat just below the window aperture or weld a frame on the cage to support the seat at the top.

5. ENGINES

- Engines must remain on the original engine mounts.
- Air filters are free.
- All parts must be remain as manufactured within the engine type used such that the compression ratio remains standard to that engine type i.e. the cylinder head and block must originate from the same cc of engine.
- The engine type must remain standard to the model of car used.
- Alternators may be removed.
- Sumps may be baffled to prevent oil wash away from oil pick up point.
- DRIVERS MUST BE REMINDED THAT ALL ENGINE PARTS MUST REMAIN STANDARD OR AFTERMARKET

6. TRANSMISSION

- Gearbox must be as manufactured to the same model of vehicle, i.e. you cannot exchange a four speed gearbox onto an engine manufactured only with a five speed gearbox, or vice-versa..
- Axle and ratio must be as manufactured.
- No locked differentials or limited slip differentials are allowed.

7. FUEL SYSTEM

- Carburettors must remain standard to the manufacturers model range. Cold start devices may be removed.
- Re-jetting is permitted.
- Single point and multipoint fuel injection is permitted.
- Electric fuel pumps may be fitted.
- The original fuel tank must be removed and replaced with a metal 2–3 gallon fuel tank with a fuel outlet at the top of the tank, with a secure screw-on metal cap, with breather pipe, which must terminate below the floor level of the car. The fitting of a one-way valve is compulsory. A fuel shut-off tap must be fitted and accessible to the driver when belted in. Fuel lines <u>should</u> be routed away from electrical wiring.
- All fuel lines must be in good condition and clamped.
- Flexible non-metallic fuel lines may be used to connect metal fuel pipes to carburettor and fuel tank. In all cases, fuel lines shall be securely clipped to prevent damage (or being tripped over etc).
- Only road side fuel is permitted no additives.

8. COOLING SYSTEM

- The original radiator must be used in the original position. NO STEAM TANKS ALLOWED.
- Thermostat may be removed.
- No heater matrix permitted inside the car. If retained, the original matrix must be relocated under the bonnet. No other oil or water coolers permitted.

9. EXHAUST

- No car will be allowed to race without an exhaust system
- The down-pipe must be standard but the rest of the system is free and must be suitably silenced. The system must terminate at the rear of the vehicle.
- All drivers must be aware that if your car is above the required noise level you will not be allowed to race. The Stewards decision is final.

10. ELECTRICAL SYSTEM

- The battery MUST be securely clamped or bolted and can either remain in its original position or be fitted inside the car on, under or behind the roll bar BUT NOT in the footwell.
- It must be securely fixed, bolted down and covered with a leak/rot proof material to prevent spillage of acid.
- If batteries are secured in a box the maximum size is to be 18 "x12" or equivalent.
- All wiring MUST be fully insulated.
- Ignition and starting must be activated through an insulated switch, not by connecting bare wires
 together. A battery cut off switch must be mounted on the roll cage on the near side of the car, the switch
 must be wired to the earth side of the battery.

11. WHEELS AND TYRES

- · Any standard road wheel may be used up to 6J that fits safely.
- ALL wheel nuts must be fitted.
- · Hub-caps and wheel weights MUST be removed.
- Only conventional standard road tyres may be used up to a maximum diameter of 195mm, minimum 50 series. No competition tyres of any kind whatsoever.
- Any tyre with buffed markings will not be accepted.
- No Avon 7.3's, Avon ZB5s, Avon Turbospeed, Yokohamas, Colways (except road remoulds), Knobblies, or slicks. Note: The promotion reserve the right to review the regulation relating to wheels and tyres at any time.
- Tyres when checked by durometer must register a minimum of 60 at any time

12. DRIVERS SEAT

A seat with a head restraint must be fitted. The seat must be securely mounted at shoulder height to the cross bar or to the rollover bar and bolted securely to floor. The seat must be a standard production seat, not a racing seat.

13. NUMBERS

- You must fit a number plate to the roof of your car, minimum size 18"x12" and a maximum size of 20"x15". Your racing number must be black on white background and be a minimum of 9" high by 1" wide.
- Your name must also feature prominently on the car.

14. GRADINGS

• Drivers who have a roof grade in any other formula will take this roof grade in Rookie Bangers. Any driver winning a race shall start at the back of his grade for the rest of the meeting. All other drivers white tops. There is a separate points chart to that of normal Bangers.

15. WORLD CHAMPIONSHIP QUALIFYING

 The top two Mendips Raceway registered drivers in the Points chart at the appropriate time will qualify for any championships within ORCi.

BACK TO BASICS BANGERS

ELIGIBLE CARS

- Cars must be under 1800cc petrol or under 2000cc non-turbo diesel. No Ford Focus/Mondeo, or Honda powered cars are permitted.
- Unlimited 'Back To Basic' cars must be over 1800cc. No Ford Focus, rear-wheel driver Previa type vehicles or four-cylinder Ford Mondeo/Cougars are permitted. You may use Honda powered cars in Unlimited 'Back To Basic' meetings.

PREPARATION

- · Remove all exterior mouldings, screen glass, lamps, handles and any spoilers.
- Remove all airbags and charges (if fitted), interior trim & passenger seating.
- Remove the fuel tank, spare wheel carrier & tow bar if fitted.
- Remove rear spoiler and side skirts even if factory fitted.
- Remove all obsolete wiring and interior debris from the car.
- Both steel & plastic rear bumpers must be removed.
- It is compulsory to pad steering columns with high density foam if the original trim is removed.
- It is compulsory to pad the B pillar and roll cage.
- Cars must remain 'on the key' with the original ignition system.
- Petrol pumps must be able to be turned off either by the ignition key or a battery cut-off switch.
- Radiators must be left in the original position all times and replacement radiators must be in the same original place.
- Batteries may be left in the original position but if moved inside the car must be securely fastened and covered.
- Original fuel lines may be used but must enter the car either through or as near to the bulk head as possible.
- The lower edge of the front wings may be trimmed but wings must not be folded or crimped.
- Bonnets can be tied down with seat belt only in a maximum of four separate places.
- · Boots/hatchbacks must be tied shut with seat belt only in two separate fixings.
- Passenger doors may be tied shut with seat belt in a maximum of two separate places which must not
 go through the roof or the floor. Any seat belt must be knotted and not fixed with tape or tex screws.
- No welding is permitted.
- Apart from items mentioned within these rules all other parts must remain standard as manufactured.
- You must fit a Roll bar, door plate as specified in the National Banger rules 3, 4.

VIOLATION

- When referring to the engine, gearbox, final drive, mechanical or construction Rules & Regulations, the principle will always be: Unless permission is specifically granted to make modifications (or any variation) nothing may be done to alter or change the Standard Parts in any way.
- It is the responsibility of the Driver to prove to the Promotion that the part is legal, by way of written
 proof of where the part originated. This must be undertaken within 7 days, otherwise the item
 in question will be deemed illegal, resulting in immediate suspension from racing & referral for
 disciplinary action. Unless the rules say you can do it, you cannot do it!
- Presentation of a Vehicle for Safety Check / Scrutineering is a declaration by the entrant that the vehicle is eligible for that event.
- Car engines & fuel will be checked on a random basis. Violations or refusal to allow an engine check will result in an immediate suspension of all racing facilities.
- All Car and Engine Specifications will be taken from either the manufacturers Technical Specifications or the Technical Service Data books as published by Glass's Guide.
- Should a discrepancy occur between the Specifications then the Promotion will exercise its judgement, and that decision will be final.
- Clarification on any one item may be sought from the Promoter.
- Each driver is permitted one car per meeting & each car is permitted one driver per meeting.

WHEEL AND TYRES

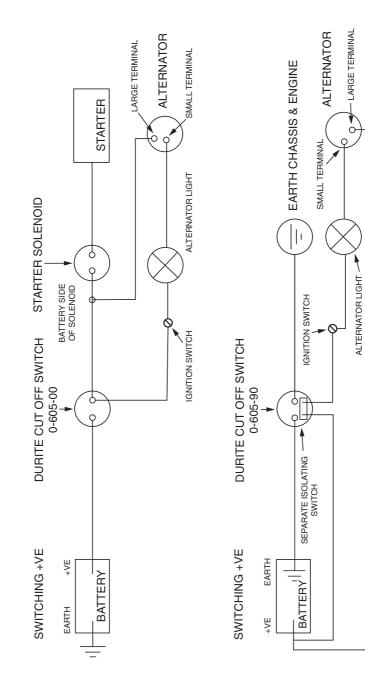
- Any standard manufactured road wheel may be used in any combination of sizes but this must not be used to gain an advantage.
- No tyre gaiters are permitted.
- Only conventional road tyres are allowed with the exception of any weatherspeeds, rainsport 3, or rain expert 3.
- A scrutineer has the option to ask the driver to remove any tyre they deem not within the spirit of the class.

VIOLATION

- The original down pipes must be used including catalytic converter (if fitted) but silencers maybe changed but no cherry bomb type are permitted. Any car that seems to be too noisy will not be permitted to race. This is at the scrutineer and Steward Of The Meetings discretion.
- No competition type systems are allowed.
- · Extra fittings are permitted.
- Ineffective or systems that become insecure while racing will require you to pull off the circuit, as you will be excluded from the results & get a black flag.







STARTER

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STARTER SOLENOID

HOT RODS

Hot Rod racing at Mendips Raceway is for cars prepared to the basis of the National Hot Rod Rules. For these rules, please refer to www.nationalhotrod.com

1. TYRES

The exceptions are that tyre choice is free, and cars do not carry a transponder.

2. DRIVER SAFETY

For driver safety rules, refer to Chapter One.

3. POINTS

Points are awarded in all races, from 10-1, and the Points Championship will be awarded to the driver with the highest number of points over the season excluding the West of England Championship meeting in August.

4. STARTING POSITIONS

At all meetings a random draw will take place for starting positions in the first race, and these positions will be reversed for the second race. The Final will be run with the highest points scorer in the heats off the front'

5. BLUE FLAGS

If the blue flag is shown, the driver concerned must maintain his racing line so that the overtaking driver will know which side to over take.

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RULES AND REGULATIONS FOR SPECIAL RODS

Special Rod racing is non contact, and designed to be a cheaper form of Hot Rod racing, using standard cars, which look like Hot Rods, with nice paintwork and professional appearance. Cars that do not meet these criteria will be failed at scrutineering.

Depending on response to Licence Applications, the top drivers at the end of the season may be compulsorarily retired, to make room for young new drivers.

1. TYPE

The only car used in the formula is a 1.6ltr Ford Sierra or Sapphire hatchback car, two or four door. The car must be mechanically standard in all respects, and unless the regulations following permit changes or modification, then you must assume that modifications may not be made.

2. BODYWORK

Must be complete in all respects and unmodified externally. You may not remove the bumpers, but all glass, lamps, and trim, must be removed. You may use similar bumpers of a different make and model provided they fit neatly. Spoilers, skirts, aerofoils and the like are not permitted. All doors must be secured shut by welding or bolting but the drivers door may be left usable provided a good locking mechanism is in place. It is permitted to replace damaged doors with sheet steel of between 1mm and 2mm in thickness, to the original shape and style. Bodywork must be maintained in good order, with bright paintwork of professional appearance. Door mounted rear view mirrors are permitted.

3. ROLLCAGE

Must consist of a minimum of two hoops, one over the screen pillars and one over the drivers head, linked together with two longitudinal bars. Rollcages that bolt together are permitted subject to scrutineers' approval. Materials for the rollcage are 30mm minimum and 50mm maximum tube or RHS of 3mm wall thickness. Two door bars must be welded in, and it is permitted to remove the doorframe to fit these, and two bars must be welded in across the rearward hoop to support the seat, with another across the dash area welded to the front rollbar. These bars must be a minimum of 25mm tube or RHS and 3mm wall. It is permitted to add a strengthening bar on the passengers side from the footwell to the rear seat squab on 50mm tube and 3mm plate maximum, to prevent the floor collapsing on impact and save the shell.

4. ENGINE AND TRANSMISSION

The engine used is the standard 1.6 Sierra OHC engine, with its original cast iron exhaust manifold, and full exhaust system. The engine may be overbored to a maximum of 1.5mm (0.060"). Nominal bore and stroke are 87.6x66.0mm (Short stroke) and 81.0x76.2mm (Long stroke). The sump may be baffled to prevent oil surge. The original carburettor must be used – either Pierburg or Weber 32/36 DGAV. Jets are free, and the original air filter may be exchanged for a performance type. Alternators are optional, but if fitted must be correctly wired and working (see page 11). The radiator must be original, and in its normal position and electric fans are permitted. No oil coolers or extra cooling systems are allowed. Any standard 1600cc Ford Pinto flywheel, clutch and gearbox may be used. The flywheel may be machined, or a replacement flywheel used, to a minimum weight of 6.2kg, and only flywheels of a ferrous material are permitted. Rear axle ratio is free, and the axle may be used, with a maximum lift of 6.34mm, and adjustable vernier type camshaft pulleys are permitted.

5. WHEELS AND TYRES

Only genuine original Ford wheels may be used, either steel or alloy, to a maximum of 6J. The only tyre permitted is the Yokohama A021-R in either 185/70x13, or 175/60x14.

6. SUSPENSION AND STEERING

All original and standard components must be used, no gas shocks or adjustables, but it is permitted to lower the car provided original springs are used, either cut or shortened. It is permitted to change the camber on any wheel provided original parts are used, and the steering side rod may be extended by welding.

7. BRAKES

Must be in working order, including handbrake, and no modifications made for bias braking.

8. FUEL SYSTEM

The original tank must be removed and replaced with a 2 gallon maximum capacity tank fitted within the area covered by the rollcage, and isolated from the driver by a metal firewall. Fuel feed and vent pipes must exit from the top of the tank – gravity fed tanks are not permitted and the vent pipe must be fitted with a one way valve. The fuel tank filler cap must be of a metal screw type. All fuel pipes must be metal, with 6" maximum flexible connecting pipes, and a shut off tap fitted within reach of the driver when strapped in his seat. Electric fuel pumps may not be used.

9. ELECTRICAL SYSTEM

The battery must be fully enclosed in a leakproof compartment or frame and bolted to a strong part of the car away from the driver. A battery cut off switch must be fitted to the rear left windscreen pillar and clearly marked (see page 11). All wiring must be securely clipped and correctly routed. Two rear facing red brake lights must be fitted in the rear window aperture.

10. SEAT AND SAFETY HARNESS

The seat must be securely fitted and preferably a bucket type with head support. A full racing harness of four separate straps must be fitted with solid mountings and backing plates, and 10mm dia bolts minimum.

11. FINAL PREPARATION

The drivers racing number must appear on both sides of the car prominently painted 12" high. It must also be on a roof fin plate Black on White 9" high both sides. The drivers name must either be on a windscreen visor, or on the bonnet or offside of the car in letters of 6" high and clearly visible. The whole roof of the car must be painted in grading colour to the gutter line.

12. GRADING AND STARTING POSITIONS

Drivers will be graded based on points scored after every meeting. Drivers will be upgraded and downgraded by one grade at a time. Any driver not racing will not be downgraded and will return in the grade held before retirement. In the Final, a draw may be carried out within grades for starting positions but heat winners will start the Final at the back of their grades.

13. LAPSCORING AND TESTING

Lapscoring will be by electronic means using the Just Timing system, and all cars must be fitted with a transponder. These are available from the Office @ £70 plus VAT. Any driver wishing to test experimental parts with permission will not receive points.

14.

Depending on the number of cars available, heats will be run as A) two heats, consolation and Final, or B) 2/3 heats and all in Final, or C) all cars in all races. The number of cars per Final may be restricted. Points will be awarded in meeting type A) as 10-1 in heats, 4-1 in the Consolation, and 20-2 in the Final, and in meeting type B) and C) all races will carry 10-1 points.

The Scrutineer's decision is final on all rules.

RULES FOR JUNIOR RODS

1. TYPE

Any saloon car of less than 1000cc fuelled by carburetor or single point injection may be used. All cars must run at original ride height, and may not be lowered, or have suspension modified and the car ride height may not differ by more than 20mm side to side. Only standard parts from that make and model may be used, and unless permission is given, no changes may be made to standard parts. No modifications to improve power output or handling are permitted.

2. PREPARATION

The car must be stripped of all glass, lights, exterior and interior trim. The bodywork must be all steel and complete, with no steelwork cut away, and no aerofoils sideskirts or similar added. The doors can be welded shut, or closed with an approved locking device. A rollcage must be fitted consisting of two hoops – one over the screen pillars and one over the drivers head joined at the top with two longitudional bars, with at least one drivers door bar, and a crossbar behind the seat, all made from round tube or box of 30mm x 3mm wall minimum. Plates must be welded to the bottom of rollcage pillars to strengthen them if the floor is rusty or damaged. Aluminium rollcages are not permitted. Scaffold clips are not allowed and all steelwork must be inside the car. The bodywork must have a smart appearance, and must have the drivers name must be on the nearside of the car 11["] high and on a roof fin 9["] high. The drivers name must be on the nearside of the car on the roof or on a screen panel 4["] high. Grading colours must be painted either on the whole roof or in two 9["] strips on the roof. Two braking lights must be fitted in the rear parcel shelf. No modifications are permitted to suspension or steering components. It is not permitted to weld plates over the headlamp apertures, and bumpers may be removed, or original bumpers only retained.

3. SAFETY EQUIPMENT

A full racing harness consisting of four or five straps must be fitted, with a quick release buckle. Great care must be taken to ensure the drivers seat back height is not such that the straps may fall off the drivers shoulder, and straps may be looped together at the top of the seat to prevent this. The shoulder straps must be fitted to the floor or the rear seat squab, not the parcel shelf and all mountings must have substantial backing washers and be in areas free of rust. Strong suitable boots or shoes must be worn-no trainers. A forward head restraint system must be used, either in the form of a Hans type devise, or a substantial high density foam neckbrace.

4. ELECTRICAL SYSTEM

The battery may be retained in its original compartment, with an improved strap, and fully covered, and a cut off switch connected to the earth circuit mounted in the nearside (passenger side) rear side window aperture. It is important to remove all of the original wiring loom. Steering locks must be removed.

5. FUEL SYSTEM

Fuel tanks are to be made of metal and of 2 gallons capacity maximum, with a screw cap, and the fuel pipe and breather must exit the tank at the top. A one way valve must be fitted to the breather. Take care to fit it securely in the boot as far from the battery as possible. The fuel line must be metal, and run inside the car, with flexible link pipes of 6[°] length maximum, and a suitable fuel tap within reach of the driver when strapped in the seat. With single point injection cars, external or submersible pumps are allowed, and the fuel pump must be wired to stop when the ignition switches off. Electric or manual fuel pumps may be used. All cars must be fitted with a flat metal restrictor plate minimum of 3mm thick between the carburetor and manifold with one hole 18mm diameter drilled in the centre of the plate, which may not be chamfered, or dished or polished in any way

6. WHEELS AND TYRES

Only standard wheels as originally fitted to the car may be used, either steel or alloy, and must be the same size on all four corners of the car. All cars except Minis must use 13" wheels, and the maximum width of tyres may be 1.55 and the minimum profile 70 aspect. All tyres must be standard road pattern and design. Wheel spacers are not permitted.

7. ENGINES AND TRANSMISSIONS

These rules apply to Minis.

For all engines, alternators the original engine must be fitted either 850cc or 998cc. Engine numbers must be present on the cylinder block- 99H for the 998cc engine. The Mini A Plus engine is permitted but not the Metro A Plus. Standard carburetion and manifolding must be used and air filters fitted. Cylinder head casting number are:- 12A 1456, 2A 629 and CAM 4810. Cylinder bore is 2.508[°] and stroke 3.005[°] maximum. Alternators and dynamos are optional, but if fitted must be working. No modifications to improve the engine performance are permitted, all ancilliaries must be in place, and standard gearbox and transmission must be used. The original complete exhaust system must be in place.

It is permitted to modify the oil pickup pipe.

Electronic ignition is permitted.

Standard carburetion and manifolding must be used, air filters are compulsory but free. Ask the scrutineer for details.

Engine swaps are allowed on Micra, Corsa, Fiesta, Seicento and Saxo ,providing these are using earlier engines in later shells, but must be of the same manufacture.

8. AGE LIMIT

Junior Rod drivers may start racing on their eleventh birthday, and must retire on their sixteenth birthday or before. If the driver's 16th birthday falls after **June** 1st, he may continue in the formula until the end of the current season. A copy of birth certificate must be provided to the Office before the Licence is issued. Novice drivers must paint a black cross on the bootlid, and may start at the back of the grid for three meetings. A driver whose 16th birthday falls during the racing season may, provided he or she has completed two full seasons of racing, opt to go into an adult formula in that season.

9. GRADINGS

Driver will be graded according to points scored and gradings issued at regular intervals throughout the season. Driver achieving star grade may not drop below blue. The whole roof of the car must be painted in the grading colour.

The Scrutineers have the right to reject cars that are unsafe, or which have excessive body damage. If a car is failed at Scrutineering, you have the right of Appeal to the Steward.

10. ABILITY TEST

All new drivers must take an ability test before they are allowed to race. This will not normally take place on race day, due to lack of time. Phone the office for details. Please do not arrive at the track without contacting the office in advance. The promotion reserves the right to stop any driver from racing if he/she cannot achieve a minimum lap time, which makes them a danger to other drivers.

11. SAFETY

Junior Rod drivers must be made aware of the dangers of driving cars in restricted areas. No passengers may be carried in or on the car except during parades, and parents must supervise the unloading and loading of cars, preferably doing so them selves. Cars must not be driven around the pits except when lining up for, or returning from races, or scrutineering. To prevent the scramble for grid places in pit lane, the grids for the heats may be printed in the programme.

12. POINTS

Depending on the number of cars available, heats will be run as A) two heats, consolation and Final, or B) 2/3 heats and all in Final, or C) all cars in all races The number of cars per Final may be restricted. Points will be awarded in meeting type A) as 10-1 in heats, 4-1 in the Consolation, and 20-2 in the Final, and in meeting type B) and C) all races will carry 10-1 points.

13. LAPSCORING

Lapscoring will be by electronic means using the Just Timing system, and all cars must be fitted with a transponder. These are available from the Office @ $\pounds70$ plus VAT.

RULES FOR RELIANT ROBINS

1. **DEFINITION**

Reliant Robin racing is a light contact, fun formula, the object of which is to complete the number of laps specified in the shortest time. Gentle nudging and side contact is allowed, but no deliberate ramming or heavy contact.

2. TYPE OF CAR

You may use any 3 wheeled Reliant Robin, Regal or Rialto.

3. ENGINES

No engine modifications are permitted with the exception of replacement of the air filter and removal of the alternator. Cooling may be by conventional radiator, or by a water tank of a reasonable size, provided it is contained within the engine compartment.

4. ROLL CAGE

The minimum requirement is a full cage with two hoops, one behind the driver and one in support of the front windscreen pillars with two longitudinal bars, one each side joining the two hoops together. A minimum of one chicken bar in each door is required fitted between the front and rear pillars, minimum size material is 1% box or tube 3mm thick, all roll cages must be bolted or welded on to the chassis, Roll cages must terminate within the silhouette of the car, rear supports must end no further back than the end of the chassis. No external hoops allowed on the roof. It is compulsory to fit a roof plate covering the area of the drivers seat, maximum 6mm plate. Door plates may be fitted, but must be inside the car, and also 6mm maximum.

5. FUEL SYSTEM

The original petrol tank must be removed and replaced with maximum size 2-gallon safety tank fitted inside the car, either on, under or behind the roll bar bolted to the Roll Cage or the chassis. The fuel outlet must be from the top and the tank must have a breather pipe fitted with a one way valve. A fuel tap must be fitted within easy reach of the driver all fuel lines must be secured.

6. ELECTRICAL SYSTEM

It is permitted to fit two batteries for 24v starting, of maximum Sierra/Cavalier size (eg065), and wherever fitted, must be fully covered or boxed to avoid acid spillage. Electronic ignition may be used if fitted as original equipment.

7. WHEELS, TYRES, SUSPENSION & AXLES

The car must be fitted with wheels of original size and width according to the model, with alloy replacements permitted. **Only one** wide wheel may be used up to 6J, but no wheel spacers are allowed. Maximum tyre size is **155x70** profile, and all tyres must be road legal conventional tyres and not competition type. The only permitted suspension modification is to lower the nearside rear spring by heating. The rear axle may not be offset, and welded or limited slip diffs are not allowed. Front suspension arms may be strengthened by welding on one piece of 40x40mm angle iron, and damaged front crossmembers may have one piece of tube of maximum wall thickness 5mm inserted into it.

8. SAFETY EQUIPMENT

A full shoulder type safety harness comprising of two shoulder straps and two lap straps must be used the use of a sub strap is optional. A suitable head restraint must be used fitted to the cage or the seat. The driver seat must be secured to the roll-cage at shoulder level by tying or bolting.

9. FINAL PREPARATION

Remove all trim, windows and seat except the drivers, this may be replaced with a suitable competition seat or any standard seat from an other car. Remove all glass except the inside mirror, wheel trims, fuel tanks and furry dice. Cars must be in good condition at the start of a meeting and brightly painted. Cars with damaged bodywork will be allowed to race, subject to scrutineer's approval.

NOTES

NOTES



RACING FIXTURES 2017 SEASON

	Saturday March 4th	Practice day-10-am to 4pm
	Sunday March 19th	Micro Massacre! ORCi National Bangers under 1400cc • Junior Rods
		• Hot Rods • Heritage Junior Stock Cars Pete Welland Memorial Trophy
	Sunday April 16th	Brisca F2 Stock Cars World Championship Qualifier Gerry Dommett
		Memorial Trophy O Hot Rods CWS Mears Trophy O Bangers (Rookies) FORDS Ladies Bangers
	Monday April 17 th	Banger Vans for the Ramplins Trophy • Special Rods • Robins • Junior Rods
2	Sunday April 30 th	THUNDERBOLTIXVII Unlimited Old Skool National Bangers
	Sunday April 30	 Junior Rods Special Rods
	Monday May 1st	Brisca F2 Stock Cars • Hot Rods Spring Classic Andy and Loreen
-		Trophy • Robins Caravan Destruction Derby • Bangers (Rookies)
7	Sunday May 28th	Brisca F2 Stock Cars O Junior Rods O Unlimited Bangers Old Skool
R	AG	World Championship Final
1	Monday May 29th	Back to Basics Bangers under 1800cc • Special Rods • Reliant Robins
	AND A DAY A	Crazy Day
	Saturday June 24th	Brisca F2 Stock Cars British Championship, sponsored by Mills
ł		 Engineering in association with Polleysport and Yokohama tyres Junior Rods Back to Basics Unlimited Bangers 4pm
	Sunday June 25th	and the set of the set
1	Sunday June 23.	Brisca F2 Stock Cars British Championship, sponsored by Mills Engineering in association with Polleysport and Yokohama tyres • Hot Rods
h		• Old Skool Unlimited Bangers Graham Salter Tribute (driver invitation
Ì.		only)
1	Sunday July 30 th	Brisca F2 Stock Cars Pink Ribbon Trophy • Filos Crashmania ORCi
-		National Micro Banger under 1400cc Teams • Special Rods
5	Sunday August 27th	Brisca F2 Stock Cars, Marion Bennett Trophy O ORCi National Micro
1	Mandau August 20th	Bangers under 1400cc O Junior Rods
	Monday August 28th	Bangers (Rookies) Caravandalism 17 Chris and Becca Trophy • Hot Rods West of England Championship • Special Rods • Reliant Robins Figure of
		Eight Caterers Cup
A	Sunday September 17th	Junior Rods West of England Championship • Special Rods West of
h		England Championship • Back to Basics Bangers under 1800cc
		• Hot Rods spwpics.co.uk Trophy
	Sunday October 1st	Unlimited National Bangers Old Skool West of England Championship National Saloon Stock Cars Brisca F2 Stock Cars National Series
		Round and White and Yellow Final.
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	All su	eethas start at 1.00m unless atheralise stated 💦 🥄

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