

SWAFFHAM 2.0 ROOKIE BANGERS 2016 RULES – NUDGE & SPIN

1. THE FORMULA

This formula is designed to encourage drivers to our circuits, to enjoy the atmosphere & thrills of driving on an oval, without the substantial financial investment. The object of the racing is to complete the specified number of laps in the shortest time. You may push a car from behind, or spin a car but there is no following in (you must not be on the back or side of a car as it hits the fence - whether from the rear, front or side - as this will be deemed forcible fencing & carry penalties or a ban which could be for life). Deliberate hitting of stationary cars is not permitted. Racing is in a clockwise direction on a clearly defined circuit with a separate infield. Any wheels passing over the demarcation lines or entering the centre green

2. WHO CAN RACE

Drivers must be between the ages of 16 and 60 – the earliest date upon which someone can race is on their 16th birthday. All licence applications will be reviewed by the Promoter and it must be understood that applications may be refused at the Promoter's discretion. Falsifying documents or providing misleading information about age in order to get round the rules carries a lengthy ban from all formulas. Full race licences are required if you want to be added to any championship points or race in any Gold Roof finals – Day licence holders will not be added to any track championships

3. WHAT TO DO NEXT

- 1. Check through the fixture list for the Rookie Banger fixtures and select a meeting or meetings.**
- 2. Contact your promoter to book in. Bookings are on a first come first served basis.**
- 3. On arrival at the Stadium you must first book in at the pit office.**
- 4. You must then get the car Scrutineered and obtain the Passed Scrutineering Sticker which has to be displayed in a prominent position on the car.**
- 5. Ensure that you are familiar with the raceway flags and the rules of racing, as you are now ready to race and will come under all the Rules & Regulations, similar to all the other formulae.**

4. ELIGIBLE CARS

- 1. Any 2.0 engine car apart from Ford MONDEO AND LARGE VAUXHALL**

5. INITIAL PREPARATIONS

- 1. Remove all exterior mouldings, screen glass, lamps and handles.**
- 2. Remove all airbags and charges (if fitted), interior trim, the dash & passenger seating.**
- 3. Remove the fuel tank, spare wheel carrier & tow bar if fitted.**
- 4. Remove rear spoilers and side skirts even if factory fitted.**
- 5. Remove all obsolete wiring and interior debris from the car.**
- 6. Read & familiarise yourself with the Banger Rules & Regulations for preparing the race car.**
- 7. It is compulsory to pad steering columns, B pillar and roll cage with high density foam – it is NOT permissible to use non high density padding such as clothing, towels etc.**

6. PERSONAL SAFETY

Drivers are advised that under Health & Safety, they are responsible for their own and their Mechanics actions. Promoters have had complaints made about Registered Drivers & also Mechanics, consuming large amounts of alcohol at meetings, which could affect their judgement or be detrimental to their health, when medical attention has to be administered by Paramedics, St Johns or Hospital Staff.

Should an incident occur that proves fatal on the raceway and you are involved, it is likely that the Police will want interview you. If you drive, don't drink! Scrutineers and Officials will report to the Clerk of the Course, anybody they believe is under the influence of Drink or Drugs. Drivers who are thought to be under the influence, may be breathalysed and banned.

Flags as used by the Starting Marshall & Trackside Safety Staff.

Waved Green Flag – Go, the race has started.

Waved Red Flag – Stop racing, slow down and stop immediately.

Chequered Flag – The race winner has crossed the line, continue to race until the Red flag shown.

Held Yellow Flag – Beware, you are approaching a hazard on the track, continue to race with caution.

Waved Yellow – Slow down to 15mph, hold your position, and do not overtake any other cars. The pace car is entering the circuit to control the pace until the raceway is clear to race.

A Blue Flag – The race has become processional, you may not pass another driver without attempting to spin them out.

Black cross on a White board – You have committed an infringement and may be penalised in the results.

Waved Black Flag - You are disqualified, pull off the track immediately.

White Flag with a Red Cross – Technical Disqualification, this means there is something wrong with your car which Officials have noticed, and you must leave the track immediately

Drivers are also reminded that they should line up on the grid with their engines switched off, unless told otherwise.

7. SAFETY EQUIPMENT

7.1 CRASH HELMET

Helmets must be of a minimum standard as directed by British Oval Racing Safety Executive (B.O.R.S.E). These are FIA8860-2004, FIA8860-2010, Snell SA2005, Snell SA2010/, Snell SA2015, SFI Foundation 31.1A, SFI Foundation 31.2A. The E2205 European standard helmet may be used in Fibreglass, Carbon or Tri-Composite form only i.e. NO POLYCARBONATE helmets are allowed. It is important that the helmet fits the driver correctly. Shatterproof goggles/visors must be worn although tinted visors are not advisable.

7.2 RACING OVERALLS / GLOVES / BALACLAVA

You must wear Fire retardant, clean, un-torn and brightly coloured Racing Overalls that are made of a fire retardant material and are clearly marked fireproof. Mechanics are also required to wear clean overalls and will not be permitted on to the track without them being on, when instructed to do so. It is mandatory to wear fire retardant gloves also clearly marked fireproof , and a fire retardant balaclava.

7.3 A NECK BRACE is not compulsory for Rookie Bangers, but advisable a spine support is optional. The neck brace must be complete and the wrap around style and not the U shape style or a forward head restraint can be used but must be to either FIA or SF1 standard. It remains the driver's responsibility to ensure that their device is the correct size and fitting and used with a compatible helmet. It is also a requirement that a driver must be able to quickly exit from their car wearing the head restraint and helmet without the intervention of a third party.

7.4 WET WEATHER CLOTHING isalso recommendedand must be worn in addition to, and not instead of the racing overalls.

7.5 1kg FIRE EXTINGUISHER

A 1Kg Dry Powder Gauge Fire Extinguisher is highly recommended and if 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.

7.6 DRIVERS SEAT WITH HEAD RESTRAINT

You must have a Driving Seat with a head restraint and this may be of a competition type. The seat should occupy its original position where possible and be suitably supported at shoulder height and on both of the sides and back, with a suitable framework or seat stiffeners. The seat must be tied by the way of fastening the seat to the H- frame

7.7 SAFETY HARNESS

The lap belt/straps and crotch straps should not pass over the sides of the seat, but through it, in order to wrap and hold the pelvic region over the greatest possible surface. A minimum of a FIVE 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. All seatbelt connection points must be visible and no belts pass through any firewall.

Following research made by leading safety harness manufacturers, information has been made available with regard to the best way to fit your safety harness; this will further ensure your safety. The lap belt crossing should be below the anterior-superior iliac spines (bony part of the hip). Under no circumstances should it be worn over the region of the abdomen. Lap belt/straps must terminate vertically downwards, and not forwards or rearwards of the hip joint.

Lap straps should terminate symmetrically about the wearer on either side of the seat, about 20" (500mm) apart. The distance between the seating surface and the anchorage point should be kept to a minimum to prevent submarining. The location of the crotch strap mounting should be to the rear of the driver.

The shoulder straps must be supported at shoulder height. NASCAR type buckles must be fitted with lever on the right side of the driver. It is advisable to fit a secondary means of detent to prevent overall sleeves accidentally unhooking the buckle during racing. A small section of tube grip elasticated bandage, slid over the hooked buckle, serves the purpose. Special attention must be paid to the condition of seat belt fixings once fitted. Information is available, from your Promotion, on the correct procedure to follow when fitting seat belts. Remember - your life depends on them, and belts, once involved in a severe accident, should be discarded and replaced.

Over the years, we have had many unnecessary injuries due to badly fitted seats. They frequently occur in Non-contact Formulas, when perhaps a driver believes it is more unlikely that he will be involved in a serious crash, and he also believes that, if he is

involved in a collision, the impact on his car will be from the front. However, this is often not the case. It is therefore, imperative that you ensure your seat is really well supported, especially where the shoulder straps go through. You must also ensure that your seat cannot move sideways. The safety of your seat will be judged by the Scrutineers and you will only be permitted to race when they are satisfied that you will be as safe as possible in any event.

8. VIOLATIONS

- 1. 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. DISTRIBUTOR & CLUTCH GUARDS ARE NOT ALLOWED**
- 2. 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**
- 3. Presentation of a Vehicle for Scrutineering is a declaration by the entrant that the vehicle is eligible for that event.**
- 4. 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.**
- 5. 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.**
- 6. Should a discrepancy occur between the Specifications then the Promotion will exercise its judgement, and that decision will be final.**
- 7. Clarification on any one item may be sought from the Promoter.**
- 8. Each driver is permitted one car per meeting & each car is permitted one driver per meeting.**

9. GENERAL RULES OF RACING

- 1. Drivers apprehensive about contact can display in the rear window aperture a black cross on a white background, size of the display plate is 305mm or 12" square, to signify to other drivers that they must not make contact with your car during racing.**
- 2. The Clerk of the Course has at his discretion the right to remove the Black cross from you, when he thinks you are confident to race with the others.**
- 3. You must line up in your grid positions with the engine switched off.**
- 4. Grid positions will be allocated on a first come first served basis on track. Race winners will start at the back of the grid for the rest of the meeting.**

10. DEMOLITION - TYPE EVENTS

The following rules apply to any race where the nature of the event is to win by stopping the opposition.

Demolition Derby Rules may only be used when the staging promoter declares (by way of a drivers briefing, letter, or notice on the programme) that these rules apply

- 1. Attacking from the opposite direction is not permitted full stop.**
- 2. You may attack any part of the car except for the driver's area. This area is defined as being from the centre of the OSF wheel to the centre of the OSR door.**

11. ROLL BAR

Roll cages may be adjustable (height and width), however the use of screw adjusters i.e. acrowstyle are not permitted.

The roll cage must be fitted upright or dog-legged, but not leaning back or forward.

It is compulsory to pad roll cages, including the B pillar and steering columns must also be padded with high density foam.

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. If used, it is recommended that this is bolted through the B post.

It is highly recommended that the frame is bolted through both sides of the car.

The minimum size for roll bar is 2" (50mm), maximum size 4" (100mm), minimum thickness 3mm.

Crossbars must have a 5" (125mm) square end plate fitted. This must be minimum 6mm thick.

The roll bar cross bars must be straight, or extended forward to the B pillar and bolted through the pillar

Each upright must have a minimum of two bolts on each side to the floor and two each side at the top.

You must tie the seat at shoulder level to the roll cage or B pillar, through the seat frame not 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. Foam padding must be fitted to the roll cage above the head, to the door pillar at the side of the drivers head and around the steering column

12. BODYWORK

Doors

- 1. The Drivers door is only part on the car that can be welded and a piece of box or tube can be welded to the lower window aperture. No other welding is permitted anywhere else on the car apart from the sun roof plate.**
- 2. All the other doors must be fastened, you can use strips of metal, the strips must be no longer than 400mm or 15¾" in length, by 60mm or 2½" in width. Max four bolts can be used to attach each strip and the minimum size of the bolts/studding is 8mm in diameter & the maximum is 12mm diameter. Seat belt webbing can be used instead of Metal strips or the doors can be fixed with 12mm bolts directly through the Panels.**
- 3. The tops of the door frames may also be tied with seat belt webbing, but you can still fit the door strips. Do not weld these other doors.**
- 4. A driver's door plate must be fitted & overlap the door pillars by a minimum of 3".NB. No trench plates are permitted.**
- 5. The plate must be a minimum of 10mm or 3/8", to a maximum of 19mm or 3/4" in thickness.**
- 6. Its depth must be no less than 254mm or 10" & no more than 305mm or 12".**
- 7. The plate must be fixed by either four 19mm fixings or six 12mm fixings, through the door pillars with large washers on the inside.**
- 8. The door plate holes must not be slotted.**
- 9. An additional piece of angle iron or box section, not exceeding 76mm or 3" in its width and of any gauge, may be welded horizontally along the length of the door plate. The ends of this horizontal section must have the ends tapered or cut at an angle so as to prevent getting tangled up in rubbing situations. Any bolt fixings must not protrude this section of metal, they must be flush.**
- 10. A steel plate fitted to the driver's floor-pan is highly recommended. It must be no thicker than 6mm, and must be bolted and/or welded in. This may be modified to rise to the maximum height of the sill of the door side only.**

Front & Rear Bumpers

Original bumpers may remain, but plastic bumpers must be removed. The original metal fixing behind the plastic bumper can remain and must be bolted, not welded. If there is no metal piece behind the plastic bumper on the front, then a replacement front bumper may be fabricated. The fabricated front bumper must be a maximum of 75mm x 3mm thick, and may be folded up the side of the chassis rails by a maximum of 3" with a maximum of 2 bolts on each side – no welding. The bolts must go through the chassis, not up the chassis. NO replacement bumper is permitted on the back of the car. No tow bar must be left on the car.

Front Wings

The lower part of the wing may be trimmed level to where with the top of where the bumper was .Bonnet Fixings

1. Bonnet bolts can be used but only 2. Triangular corner plates or straps may be used to secure the rear of the bonnet by bolting or welding (1/8" thick). Plates or straps must be placed no further than 12" across or down from the back edge and side of the bonnet. In this case you may only use two seatbelt fixings at the front. Crush tubes are not allowed.

Sun Roofs

1. The glass must be removed and replaced with a piece of metal of a maximum thickness of 2mm, overlapping the aperture all the way round by 100mm or 4". The plate can be either welded or bolted in place. The fixing of this panel will have to meet scrutineering approval.

Aerofoils, Wings & Spoilers Grilles

1. These must be removed. Boot / Rear Hatches

1. Boots / rear hatches can be bolted with a maximum of four bolts.

Engine / Gearbox Mounts

1. Alloy engine/gearbox mounts can be replaced by fabricated steel versions and welded or bolted to the chassis. The maximum size of the mount is 5 inches where it is attached to the chassis. The mount must not exceed the original size of the standard mount which is being replaced, it is solely for holding the engine in and not for strengthening, and no part of the mount must be in front of the engine.

13. ENGINES

1. The engine must remain as it was produced in its standard form.

2. The air filter may be removed or replaced.

3. Only the 34 ICH Weber carburettor may be used to replace the standard carburettor for the model of car being raced.

4. No modification to the carburettor allowed.

5. Multi point injection can be used, but you may also remove the injection system and replace it with the previous carburettor set up or Diesel.
6. Any alteration or removal of engine numbers will deem the engine illegal.
7. The standard ECU that was manufactured with the engine must be used.

14. GEARBOX

1. The Transmission must be kept as produced for the model in its standard form.
2. You may not lock the differential or any type of slipper or power lock differential cannot be used even if fitted as standard.

15. WHEELS & TYRES

1. All four wheels must be of the same diameter.
2. All wheel fixings must be in place.
3. All wheel weights & hub caps must be removed
4. Any standard road wheel steel or alloy can be used up to a width of 6" ..
5. No Weller rims permitted.
6. Only conventional tyres may be used with a maximum tread depth of 6mm. Tyres must read a minimum of 60 on a durometer at any time.
7. Tyre Gaiters are permitted.
8. You are NOT allowed to use the following: Racing tyres. Mud & Snow tyres, Alpine tyres, knobbly or any type of competition tyre, Town & Country tyres, 7.3 Avon Turbo Speeds, Yokohamas, Colway Competition tyres, Toyos, Goodyear F1 Eagle, Tread cut tyres, Tyre with the markings erased or National Bangers remould tyres. Decisions on which tyres are permitted will be at Scrutineer's discretion.

9. Suspension.

All suspension must remain standard to the car which is being raced. No re-valving or oil on shock absorbers and no changing or lowering of the springs is permitted. Camber is not permitted on any wheel on a fresh car. Camber on race damaged cars will be down to scrutineers' discretion as to whether or not they feel this will provide an unfair advantage.

16. EXHAUSTS

- 1. An exhaust silencer must be fitted and reduce noise. It does not have to be the original manufacturers system.**
- 2. No competition type systems are allowed.**
- 3. Extra fittings are permitted.**
- 4. 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.**
- 5. 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**

17. COOLING SYSTEM

- 1. Radiators are free & may be moved to any position in the engine bay.**
- 2. Steam tanks may be used and may be L-shaped but must not have any part forward of the centre of the strut or front wheel on the passenger side. They may go across the bulk head behind the engine but that part must be rectangular only and not extend at all down towards the driver's side strut.**
- 3. Electric cooling fans may be wired through a separate switch.**

18. BRAKES

- 1. The standard manufacturers system must be used & work on all 4 wheels.**
- 2. The handbrake must also be operational.**

19. FUEL SYSTEM

- 1. The tank must be metal & have a maximum capacity of 9 litres. No converted fire extinguishers are allowed.**
- 2. The fuel tank may be fitted on or under the "H frame" or behind the driver in the passenger area. It should be kept away from the sides of the car in case of side impact.**
- 3. Fuel caps must be of a metal screw type, no push fit types are allowed**
- 4. The fuel outlet must be from the top of the tank.**
- 5. The tank must have a positive means of fixing.**
- 6. A breather pipe must be fitted which should incorporate a one-way valve, with the pipe terminating below the tank so as to prevent spillage if inverted.**
- 7. All fuel lines must be of good quality rubber or be metal covered, no rigid metal piping is allowed.**

8. Only roadside fuel can be used, Petrol or Diesel. No additives are allowed.
9. If an electric pump is fitted, a cut-off switch must be in close proximity of the driver.
10. Multi point injection can be used with a return back to the tank or a t-piece fitted in the fuel line between the fuel tank and the fuel pump but the electrical isolation switch (cut off switch) must be fitted in the N/S/R window area of the B post, for easy access of Safety Marshalls.
11. You may also remove the Single or Multi-point injection system and replace it with a conventional carburettor if it's available from the manufacturers range. If you have doubts about the legality of the change, please phone the Stock car Office for confirmation.
12. 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

20. BATTERIES & THE ELECTRICAL SYSTEM

1. The Battery must be securely fixed & covered with a rot proof material, if it is not of the sealed cell type.
2. If battery is mounted on the floor it must be secured in a box, the maximum size is to be 18" x 12" or equivalent.
3. The batteries must be a minimum of 152mm or 6" away from the fuel tank.
4. No seatbelt straps must interfere with or come into contact with the battery.
5. A battery master switch must be fitted in the rear left-hand window and clearly marked "ONOFF" or have an electrical danger decal. The cut-off switch must break the earth connection lead.
6. A self-starter motor must be fitted & working at all times.

21. MIRRORS

Maximum mirror size is 152 x 100mm or 6"x4" and if glass, it must be covered in a clear plastic film to stop the glass fragmenting

22. PAINTWORK

1. The external appearance of the car must look bright & professional at all times; drivers of scruffy looking cars will be told to improve their appearance & may not be allowed to race.
2. A maximum of two cars may be painted in team colours or painted to look similar, unless it is required by the Promoter for a particular team event.
3. Sign writing must be professional and be approved by the Promoter.

23. SUN VISOR

1. A Sun visor 165mm or 6" in depth may be fitted with your name upon it.

24. FIN PLATES

1. Fin plates must be fitted above the roof line but they should not be larger than 305mm or 12" by 559mm or 22" wide.
2. Fin plate numbers must be 229mm or 9" high by 38mm or 1½" in width, plain black numbers on a plain white background. Please ensure they are correct. No Holographic numbers or backgrounds.

25. DOOR NUMBERS

1. The drivers racing number must appear on both sides of the car. The numbers should be 406mm or 16" high x 50mm or 2" wide, on a contrasting background, which must extend a minimum of 50mm or 2" beyond the numbers.

26. SPECIFICATION AND RULE CHANGES

The Promotion may at any time make amendments to the Specifications for the following reasons:

In the interests of Safety

Reduce costs for the driver

In areas that are detrimental to the future of the formula

If an unnecessary advantage has been deemed to have been gained

SWAFFHAM 2016 ROOKIE BANGER RULES – IF IN DOULT - ASK