

# **Swaffham Raceway**

## *JUNIOR RODS 2012*

This formula is a non-contact formula for drivers from the ages of 10yrs (with special permission) to end when they are 17yrs old but will be allowed to continue if they so wish, if their birthday falls half way through the season. This will be at the discretion of Swaffham Raceway and they also must not take part in any senior racing at all if they do they will forfeit the right to continue.

A responsible adult must be present at each scrutineering and race meeting and with a Junior Rod driver and must act responsibly!! There is a zero tolerance policy adopted to any parent, mechanic or responsible adult with a Junior Rod Driver who intimidates or is abusive in any way towards another driver or staff. The BOC will issue immediate bans to the driver and their accomplices. There will be no black crosses shown for contact. A Black flag will be shown, when you must then pull on to the infield as soon as it is safe to do so. Ignoring the black flag carries a heavy penalty.

### **Definition of a Junior Rod.**

This is a **non-contact** formula using UNMODIFIED Saloon or Hatchback up to **1000cc** capacity in standard trim.

All cars must be kept of smart appearance which this standard must be kept up throughout the season, any cars which appear tatty, dented or dirty, may not be allowed to race.

- Engines must be in car as manufactured, no transplants of any kind will be allowed apart from Ford to Ford and Vauxhall to Vauxhall ect without prior permission from the BOC. Unless the rule states that you can do it you **CANNOT DO IT.**
- **Cars that fall outside these rules will only be allowed to race once then must comply there after and will start at the rear of the field.**

### **Type of Car**

A right hand drive steel-bodied small saloon or hatch back. All panels must be as original in design and not shortened or lowered or reinforced with plating. All floors and bulkheads will remain as standard and not weakened in any way at all.

### **1. Engines**

Only 4 cylinder inline 8 valve engines will be allowed. Refacing of cylinder head to 60thou max is allowed as is facing of the block on the gasket surface. Maximum rebore 60thou max oversize. **The oil filter and housing may be removed and a blanking plate fitted.**

No performance pistons, conrods or any other performance parts are not allowed. No lightened flywheels this will be strictly monitored on a regular basis and anyone found breaking this rule would face an immediate ban and loss of any points gained. All engines must have two head bolts, one inlet manifold bolt and two cam cover rocker cover bolts and two sump bolts, drilled with a 2ml hole, so we can fit a sealing wire.

**Engine specifications will be taken from the Haynes manual  
(see supplement To be released)**

## **2. Carburettors**

Only carburettors fitted as original will be allowed no aftermarket products. No alterations are allowed, jetting or polishing is not allowed, manifolds and distributors must remain as standard.

## **3. Gearbox**

All gearboxes must remain as standard no l.s.d. or welded diffs allowed.  
Diffs are free.

**Vauxhalls must use the speed 1.96 cluster only.**

This will be monitored and may be reviewed.

## **4. Bodywork**

All body work is to remain as original and steel throughout, doors may be welded shut. Doors must not be cut down in any way. Any replacement panels must remain as standard body panel thickness. No reinforcing allowed. Front and rear bumpers can be retained but must remain in their original positions with secondary fixings in addition, no fibreglass panels.

Inner wings must remain original, no steeling up.

The only steel allowed in the front is ONE PIECE of 25ml x 25ml max box section to replace slam panel to support radiator. No additional steel allowed.

If cross members get damaged they can be replaced by genuine/original cross members. No fabricated parts.

The original bumper can have two additional bolts for secondary fixing.

Bumpers on Fiestas must have end cups on.

**Skirts & Arches are not permitted.**

## **5. Suspension**

Nearside front wheel 1inch camber is allowed

No positive camber.

No adjustable link arms.

Race damage repairs will be allowed and allowed to race at scrutineer's discretion.

Back axles must remain on original mounts.

Wheelbase must remain as standard and at scrutineer's discretion.

Wheels must remain at manufacturer's position and with in the confines of the body work.

Suspension must remain standard lowering is allowed by cutting or heating, the use Competition (Polly) springs are permitted.

Adjustable shock absorbers are not permitted.

Maximum of 350 pound spring is only permitted on the near side front.

No more than 1" difference in height between the two front springs.

No more than 1" difference in height between the two rear springs.

Both of these heights will be measured when the spring is not compressed.

Springs must be the same diameter you must not use a smaller diameter IE: 2 inch diameter spring on a 6 inch diameter platform or modify to accommodate or vice versa.

**Gas or oil shock absorbers are allowed, (standard production replacement type only) NO competition. ie: Gaz, Leeder, ect**

## **6 Brakes**

Brakes must be complete and working on all 4 wheels.

Handbrakes must be fitted and working.

Vented discs are not permitted

## **7. Cooling**

All water cooling systems must be kept within the confines of the engine bay and adequate measures provided to ensure the driver can not be scolded in the case of a burst.

A Larger radiator may be fitted but must remain in the original position.

NO OIL COOLERS, NO STEAM TANKS

## **8. Fuel**

Only roadside fuel is permitted, the use of any octane substitute or booster is not permitted. The fuel tank must have a maximum capacity of 2.5 gallons and be situated behind the driver. Firewalls must totally enclose the tank and 2 drain holes of 2" drilled near the tank to allow for spillages. A metal screw thread top must be used on the tank. Fuel feed pipes and breathers must exit at the top of the tank and a one way valve fitted to the breather or it must exit the vehicle below the base of the tank. All pipes must be secured to prevent chaffing. Pipes are to be metal and a fuel tap marked on/off to be within easy reach of the driver. No electric fuel pumps are allowed.

If the tank is fitted in the boot well a 1½"/32chs dia steel section frame must be fitted around the fuel tank to protect it from a rear impact. This frame must be welded to the rear supports of the roll cage and must terminate no less than 4 inches from the rear panel. Tank must also be behind a **FULL ENCLOSED FIRE WALL.**

## **9. Tyres and Wheels**

Standard wheels up to 5.5 j allowed (steel or Ali) with standard road tyres and up to 175 x 13 x 70 profile and must be of the same size on all axles.

**Tyre gaiters are not permitted.**

**Wheels and Tyres must remain within the confines of the bodywork**

**Body work must not be altered to accommodate.**

This will be reviewed and a controlled tyre may be used.

## **10. Batteries**

Electrics and batteries must be fastened securely and covered in a rot proof material.

All wiring must be securely fastened and kept away from fuel lines as much as possible. Recommend that batteries are fitted under the bonnet if possible.

## **11. Wiring.**

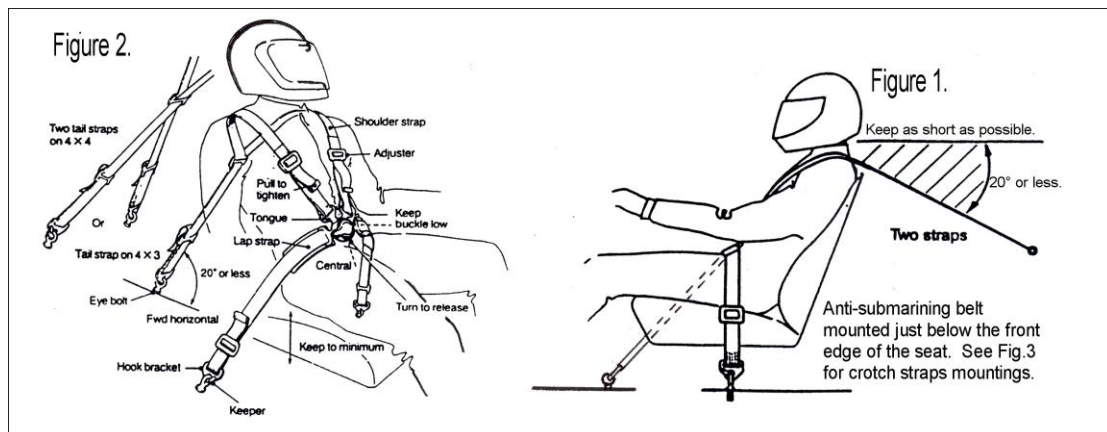
Minimum of one brake light must be fitted at the top aperture of the rear screen and work. **Electrical cut off switch MUST work, (cars will be failed if switch does not work), marked ON / OFF must be fitted to the R/N/S corner of the car.**

## 12. Roll cage

- No alloy roll cage or part cage are allowed. The minimum steel roll cage protection you must have is; 1 x Front Hoop, 1 x Rear Hoop, 2 x Connecting Bars, 1 x Dash Cross Bar, 2 x Chicken bars N/S, 2 x Chicken Bars O/S.
- The roll cage hoop feet must be on four welded plates. All joints must be welded over 90% or the joint unless professional clamps are used. The cage must not protrude through the bulkhead. The rear cage bars must terminate at least 4" from the rear panel. All bars connected to the cage must be steel.
- The *minimum* thicknesses of the roll cage are; 1.25OD 10swg (3mm) tube or 1.5"OD 12swg (2.5mm) tube or 1.5" x 1.5" 10swg (3mm) box.
- Rear brace optional.
- H frames are not allowed.
- A strut brace is permitted and may be joined to the roll cage

## 13. Safety Belts and Equipment

- Minimum 5-point harness comprising of separate shoulder, lap and sub straps will be permitted. The sub strap must be used at all times and all belts must connect to the quick release buckle. A minimum width of a 2" belt may be used. (3" recommended)
- In the case of NASCAR lever latch buckles, it is advisable to fit a secondary means to prevent accidentally unhooking buckle during racing. A small section of tube grip elasticated bandage slid over the hooked buckle may serve this purpose.
- Special attention must be paid to the condition of seat belts and fixings once fitted.



- Neck braces are **Mandatory**
- Fire proof gloves and balaclavas **Mandatory** and must be **marked appropriately**.
- A quick release cloth window net must be fitted to the driver's door window aperture and should be flexible and easily removable separate to the movement of the door.

- Drivers must wear bright coloured racing overall type clothing of flame retardant Proban or higher specification material and this must be maintained in a clean and tidy condition when in the view of the public.  
If wet weather clothing is used, this must be worn **IN ADDITION TO** and **NOT INSTEAD OF** the regulation retardant overall type clothing described above.
- A quick release cloth window net must be fitted to the driver's door window aperture and should be flexible and easily removable separate to the movement of the door.
- Keep jewellery to a minimum.

#### **14. Helmets**

- Protective goggles or visors must be worn.
- **Care must be taken when purchasing a helmet that it fits the child correctly.**
- **Plastic or Polycarbonate helmets of any type are not permitted**
- Helmets must be of a minimum standard Safety These are BS 6658/85 Type A, BS6658/85 Type A/FR, FIA 8860-2004, Snell SA2000, Snell SA2005, SF1 Foundation 31.1or SF1Foundation 31.2.Or E2205European Standard. Shatterproof goggles/visors must be worn although tinted visors are not advisable.

• *It should be noted the Snell SA2000 and the BS6658 Type are no longer allowed..*

#### **15. Fire Extinguishers**

- Fire extinguishers **may** be fitted but **must** be of a dry powder or gas and be of the dial type and to be fitted with in easy reach of the driver. It should be maintained in good working order at all times, securely fitted but **not** taped OR **tied** in. (recommend 1Kg (2lb))

• **All tow** vehicles must carry a **minimum** of a 2kg fire extinguisher of dry powder or gas which must be in easy reach at all times especially

#### **16. Seats**

- The driver's seat should be bolted or welded to the floor and any adjustable runners should also be bolted or welded, the back of the seat must be adequately supported and provide a strong head restraint, this restraint must be an integral part of the roll cage. Fitted as high as the top of the driver's head and 2/3rds of the width of the back of the seat.
- Competition seats may used (recommended) Reclining seats must be made solid. If the seat is fitted direct to floor pan, extra strengthening to floor panel must be used. **Fibre glass seats are not permitted.**

#### **17. Screens**

- No glass is allowed in any aperture all glass must be removed from the vehicle. A centre bar minimum size 1" x 1" must be fitted to the centre of the driver's windscreens.

**18. Silencers**

- Cars must be fitted with an effective silencer system. Recommend Fordson Major Box, part No E1 ADDN 5320A, the tail pipe must exit rearwards and or pointing downwards. and may terminate before the rear axle.
- NO competition exhausts systems.
- Exhaust must not be routed through the passenger side of the car.
- The rear box may be removed.

**19. Numbers.**

- Numbers must appear on both sides of the car in contrasting colours with a minimum height of 12" in 2" brush strokes. Roof fin numbers must be black on a white background and be a minimum 9" in 1.5" brush strokes. The roof fin must not be any higher than 12" from the roof of the car. All numbers must be of professional appearance.

**20. Names**

- Drivers name or nick name to be displayed on sun visor.

**21. Fitness**

- Any driver who has suffered any injury at all during a race will not be allowed to compete in the rest of the meeting.
- Any driver who has had a race stopped because he/she has given the steward cause to believe that the driver may be injured will also be excluded from racing at that meeting.

**22. General Rules**

- Each driver is only permitted one car per meeting and each car is only allowed one driver per meeting.
- Any driver winning a race must start at the back of his grade for the remainder of the meeting. The onus is on the driver to take up this grid position and two places may be docked by the steward for each position out of place taken at the start.
- Fire proof balaclavas and gloves are mandatory

**• You must be scrutinised and signed in before you may practice/race. New Driver/s/White top drives must start minimum of 2 meeting at the rear of the grid after this is at the discretion of the race steward is satisfied of the drivers competence also a white box with a black cross must be painted on the rear of the car.**

- **Technical violations**

**. It is the responsibility of the driver to prove to the promotion that a part is legal by the way of written proof of where the part originated references will be taken from Haynes manual**

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- **Flags Shown.**

- Green, Start of race.
- Yellow static, Caution
- Yellow waved, Slow down to single file.
- Blue, Hold you're racing line.
- Black X, You may be penalised.
- Black, You must leave the race immediately proceed to the safety area, (it may be that something may be wrong with your car)
- Red, Race stopped, Stop quickly but safely.

**Ignorance is not only dangerous but also is no defence**

Allowed cars

**Citreon:** AX and Saxo.

**Fiat:** 127, Panda, Uno, Cinquecento and Seicento.

**Ford:** Fiesta, **early KA's.**

**Lancia:** Y10.

**Nissan:** Cherry, Micra.

**Vauxhall:** Corsa, Nova. Tirgra

**VW:** **early Polo**

**Peugeot:** 104, 106, 205, 206.

**Renault:** R5.

**Rover:** Mini, Metro.

**Seat:** Ibiza, Arosa.

**Skoda:** Fabia.

**Suzuki:** Swift up to '89.

**Talbot:** Simca, Imp.

**Toyota:** Starlet.

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