



PUBLISHED REGULATIONS

HISTORIC SPORTS CAR CLUB

Silverstone Circuit. Silverstone. Nr Towcester. Northamptonshire. NN12 8TN

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HSCC Historic Formula Ford 2000 Championship © Regulations 2023

Eligible Cars: Moved to section 5(2)

Class Structure for HSCC Historic Formula Ford 2000 Championship: Moved to section 5(2)

1. SPORTING REGULATIONS - GENERAL

1.1 Title and Jurisdiction:

The HSCC Historic Formula Ford 2000 Championship is organised and administered by The Historic Sports Car Club [HSCC] in accordance with the General Regulations of the Royal Automobile Club Motor Sports Association [Motorsport UK Association Ltd] (incorporating the provisions of the International Sporting Code of the FIA) and these Series Regulations.

Motorsport UK Championship Permit No. CH2023/R071

Race Status: Interclub

Motorsport UK Championship Grade: D

1.2 Officials:

1.1.1 Coordinator: Donna Skipworth-Michell, c/o HSCC, Silverstone Circuit, Silverstone, Nr Towcester, Northants, NN12 8TN Tel; 01327 858400

1.1.2 Eligibility Scrutineer: Matthew Lambkin-Smith

1.1.3 Championship Stewards: Roger Bevan, Frank Lyons, Chris Alford c/o HSCC Silverstone Circuit, Silverstone, Nr. Towcester, Northamptonshire, NN12 8TN

1.3 Competitor Eligibility:

1.1.4 Entrants must:

- I be fully paid up members of the HSCC and
- II be Registered for the Championship and
- III be in possession of a valid Motorsport UK Entrants Licences.

1.1.5 Drivers and Entrant/Drivers must:

- I Be current Members of the HSCC and
- II be Registered for the Championship and
- III be in possession of valid Motorsport UK Competition (Racing) Clubman status Licence, *as a minimum*

*Or be in possession of the highest grade of national Race licence or valid FIA International Licence, together with their ASN's written consent

IV *If participation in the Championship requires absence from education a driver, in full time school education is required to have the approval of their head teacher and a letter stating



such approval from their school in order to fulfil registration for the Championship. A driver shall not take time out of their education to participate in motor sport without the prior written approval of their education establishment.

1.4 Registration:

- 1.1.6 All competitors must register for the Championship via the online membership registration process at www.hsc.org.uk prior to the Final Closing date for the first event being entered.
- 1.1.7 The membership year runs from 1st January to 31st December. Registrations will be accepted from 1st January in the membership year.
- 1.1.8 Registration numbers will be the permanent Competition numbers for the Championship for that year.

1.5 Championship Events:

The Championship will be contested over 7 race meetings as follows:

Date	Circuit	Status	Org. Club
22-23 April	Snetterton 300/200	Interclub	HSCC
6-7 May	Cadwell Park	Interclub	HSCC
11-12 June	Thruxton Circuit	Interclub	Thruxton
14 July	Brands Hatch Indy	Interclub	HSCC
15-16 July	Brands Hatch GP	Interclub	HSCC
2-3 September	Croft	Interclub	HSCC
14-15 October	Silverstone Circuit	Interclub	HSCC

1.6 Scoring:

- 1.6.1 Points will be awarded, by class, to competitors in classes A and B listed as classified finishers in the Final Results, except those competing in the Invitational class, as follows:-

Position	10 or more in class	less than 10 in class
1 st	25	15
2 nd	20	12
3 rd	16	10
4 th	14	9
5 th	13	8
6 th	12	7
7 th	11	6
8 th	10	5
9 th	9	4
10 th	8	3
11 th	7	
12 th	6	
13 th	5	
14 th	4	
15 th	3	

- 1.6.2 Points will be based on the official published results of the race. If there is more than one race at an event, each will count for championship points unless stated otherwise. The totals from all qualifying races will determine final championship points and positions with 1 drop point. A DNF, DNS and DNA will attract the score of 0 and may be used as a drop score however a DQ does not qualify. Handicap or two driver races do not qualify for Championship points.



- 1.6.3 Ties shall be resolved using the formula in Section W1.3.4 of the current Motorsport UK Yearbook.
- 1.6.4 Where the race distance has been reduced (2.6) it shall still count as a full points-scoring race.
- 1.6.5 Competitors not registered for the Championship may be permitted on an individual event basis and will:
- I be deemed “Guest Competitors”
 - II not score points and for the purpose of points scoring will be ignored
 - III qualify for Event awards
 - IV comply with the eligibility criteria as prescribed in Article 1.3 above with the exception of 1.3.1 (II) and 1.3.2 (II) as appropriate.

1.7 Awards:

- 1.7.1 All awards are to be provided by the race organisers.
- 1.7.2 **Per race:** Awards will be given to 1st, 2nd and 3rd overall.
- 1.7.3 **Championship:** Championship winner, 2nd and 3rd overall will receive a trophy. To qualify for a position in the final championship results a competitor must have competed in at least 4 races. Other awards may be given at the Organisers’ discretion.
- 1.7.4 **Presentations:** Awards are to be provided for presentation at the end of each race or at the end of the meeting presentation ceremony. Class trophies will be available either from the paddock office or at a Championship co-ordinated presentation one hour after the official results have been published. Any awards not collected on the day will be forfeit.

1.7.5 DELETED

1.7.1 Title to all trophies / awards:

If any Provisional Results or Championship Tables are revised after any presentations and these revisions affect the distribution of awards, the Competitors concerned must return such awards to the HSCC in good condition within 7 days.



2. CHAMPIONSHIP EVENT MEETINGS & RACE PROCEDURES

2.1 Entries:

- 2.1.1 Competitors are responsible for registering correct and complete entries with the correct entry fee prior to the closing date for entries before each event.
- 2.1.2 Incorrect or incomplete entries (including Driver to be Nominated Entries) are to be held in abeyance until they are complete and correct and the date of receipt for acceptance of entry purposes shall be the date on which the Secretary of the Meeting receives the missing or corrected information or fee.
- 2.1.3 Any withdrawal of Entry or Driver/Car changes made after acceptance of any entry must be notified to the Meeting Organisers in writing.
- 2.1.4 The Entry Fee for each event shall be specified in the SRs and on the entry form.
- 2.1.5 Reserves will be listed in the Final List of Entries published with Final Instructions or in a Bulletin.

2.2 Briefings:

Organisers should notify Competitors of the times and locations for all briefings in the Final Instructions for the meetings. Competitors must attend all briefings.

2.3 Qualification Practice:

- 2.3.1 Should any Practice Session be disrupted, the Clerk of the Course shall not be obliged to resume the session or re-run the session; the decision of the Clerk of the Course shall be final.
- 2.3.2 Any driver who has not raced on the course in its current layout within the preceding twelve months must complete a minimum of 3 laps in the car to be raced, and in the correct session, in order to qualify.
- 2.3.3 If there is more than one race at a race meeting, for all classes the grid positions for the second race shall be determined by the finishing order of the first race.

2.4 Races:

Should any race be disrupted the Clerk of the Course shall not be obliged to resume or rerun the race (1.6.4. above applies).

2.5 Starts:

- 2.5.1 All cars will be released to form up on the grid prior to the start in formation as specified on the grid sheet.
- 2.5.2 The start will be either via a Standing or Rolling start unless otherwise stated in the event Final Instructions.

Standing Start

The minimum Countdown procedures/audible warning sequence shall be:-

- I 1 minute to start of Green Flag/Pace Lap – Start Engines/Clear Grid
- II 30 Seconds – Visible and audible warning for start of Green Flag/Pace Lap.
- III A five second board will be used to indicate that the grid is complete.
- IV The red lights will be switched on five seconds after the board is withdrawn.

Rolling start.

The minimum Countdown procedures for a rolling start /audible warning sequence shall be:



- I 1 minute to start of Green Flag/Pace Lap – Start Engines/Clear Grid
 - II 30 Seconds – Visible and audible warning for start of Green Flag/Pace Lap.
 - III The cars will be led around the circuit by a Pace car for a lap (or more if specified in the Final Instructions) in a two by two formation.
 - IV If the Clerk of the Course is satisfied that the cars are in a correct formation the lights on the pace car will be extinguished and the red lights at the start line will be turned on.
 - V Competing cars must then hold their position and speed until the red lights at the Start Line are extinguished denoting the start of the race. No overtaking or changing direction of any cars is allowed prior to crossing the Start Line.
- 2.5.3 Any cars removed from the grid after the one minute signal or driven into pits on Green Flag Lap shall be held in the pit lane and may start the race after the last car has passed the startline or pit lane exit, whichever is the later.
- 2.5.4 Any drivers unable to start the Green Flag/Pace Lap or start are required to indicate their situation as per Motorsport UK Regulation Q 12.11.2. In addition, any driver unable to maintain grid positions on Green Flag Lap, to the extent that ALL other cars are ahead of them, may complete the green flag lap but MUST remain at the rear of the last row of the grid but ahead of any cars to be started with a time delay.
- 2.5.5 In the event of any starting lights failure the Starter will revert to use of the National Flag.
- 2.5.6 Should circumstances at the event change such as, but not restricted to, Track Conditions or Weather, the Clerk of the Course may change Standing Starts to Rolling Starts. When this decision is made all affected competitors will be notified at the earliest opportunity along with being advised of the number of Pace laps.

2.6 Session Red Flag

Should the need arise to stop any race or practice, RED LIGHTS will be switched on at the Startline and RED FLAGS will be displayed at the Startline and at all Marshals Signaling Points around the Circuit.

This is the signal for all drivers to cease circulating at racing speeds, to slow to a safe and reasonable pace and to return to the pit lane, during practice, and to the starting grid area, during a race, unless otherwise directed by officials

Cars may not enter the Pits unless directed to do so. Work on cars already in the pits must cease when a race is stopped. All cars in the pitlane during a red flag period must take any restart from the pit exit.

2.7 Pits, Paddock & Pit Lane Safety:

- 2.7.1 **Pits & Paddock:** Competitors must ensure that the Motorsport UK, Circuit Management and Organising Club Safety regulations are complied with at all times.
- 2.7.2 **Pitlane:** The outer lane or lanes are to be kept unobstructed to allow safe passage of cars, the onus shall be on all drivers to take all due care and respect the pit lane speed limits.
- 2.7.3 **Refueling:** May only be carried out in accordance with the Motorsport UK Q12.25.1 – Q12.25.4 Regulations, Circuit Management Regulations and the Supplementary Regulations or Final Instructions issued for each Circuit/Meeting.
- 2.7.4 **Speed Limit:** Pit Lane Speed Limit will be 60 Km/h (37.2Mph). You are classed as being in the pitlane once the front wheels of the car have crossed the pit entry line and you must not exceed the Pitlane Speed Limit until the front wheels have crossed the pit exit line. Pitlane speed limiters are permitted.
Failure to comply with the speed limit may result in the imposition of the following penalties **for each Km/h over the Pitlane Speed Limit:**
Races: A minimum fine of £10 and/or a one-second race time penalty.



2.8 Race Finishes:

To be classified as a finisher, a car must either cross the Finishing Line or take the chequered flag in the pit lane in the interests of safety, or where a back marker has been overtaken on the winner's slowing down lap and subsequently flagged off by marshals. At circuits where such use of the pit lane represents an advantage, in terms of circuit length or speed, an appropriate time penalty will be added to the driver's race time.

After taking the Chequered Flag drivers are required to:

- I progressively and safely slow down,
- II remain behind any competitors ahead of them,
- III return to the Pit Lane Entrance/Paddock Entrance as instructed,
- IV comply with any directions given by Marshals or Officials
- V keep helmets on and harnesses done up while on the circuit or in the pit lane.

2.9 Results:

All Practice Timesheets, Grids, Race Results are to be deemed PROVISIONAL until all vehicles are released by Scrutineers after Post Practice/Race Scrutineering and/or after completion of any Judicial or Technical Procedures. (Motorsport UK regulation D26.3).

2.10 Timing Modules:

All cars must be fitted with a working Motorsport UK approved transponder. Failure may result in competitors not being accredited with a qualifying time or being disqualified from the result as per Motorsport UK Q12.8.1

No electronic equipment may be placed within five metres of any official timing line and any breach of this may result in the confiscation of the equipment concerned.

2.11 Qualification Races: If any event is oversubscribed the Organising Club may at their discretion run Qualification Races.

2.12 Operation of Safety Car: The safety car will be brought into operation and run in accordance with Section Q, Appendix 3 of the Motorsport UK Circuit Racing Regulations.

2.13 Onboard Cameras: The use of onboard cameras is permitted and recommended, but they must be fitted and declared at scrutineering for examination. Upon request any onboard footage must be made available to Clerk of the Course and or Stewards in the event of an incident, during the event.

2.14 Data Logging

The use of data loggers that record Data for post-race analysis is accepted. The use of linked data performance loggers that supply real time information in cockpit is not permitted

Multiple Races: Moved to 2.5



3. SPECIFIC CHAMPIONSHIP REGULATIONS

- 3.1 By registering for the Championship all competitors and their associates commit to positively promote and demonstrate the Motorsport UK's Respect Code which is appended to these regulations (Appendix 1).
- 3.2 Where any reports of disrespectful conduct are judged to be well founded the Championship organisers may issue warnings or require remedial actions and/or report the matter to the Championship Stewards who may impose appropriate penalties which can include loss of Championship points and/or race bans through to Championship Expulsion and referral to Motorsport UK.
- 3.3 It is imperative that we promote the safety and wellbeing of young people and adults at risk. In addition to this all participants must be aware of their behaviour and conduct at all times and abusive language and harmful behaviour will not be tolerated. Any such incidents must be reported to the Championship Coordinator and/or Safeguarding Officer who will also relay the report Motorsport UK. Details of the Motorsport UK Policies and Guidelines are available at www.motorsportuk.org/resource-centre by selecting Policies and Guidelines.



4. SPECIFIC CHAMPIONSHIP PENALTIES:

In accordance with Section C of the current Motorsport UK Yearbook.

4.1 DELETED

4.2 Additional specific championship penalties as set out in the Supplementary Regulations:

- 4.2.1 The Clerk of the Course (s) have the right to impose a Stop Go or Drive Through penalty, in accordance with Section Q12 of the *Motorsport UK General Regulations*. There is no right to appeal any such penalty.
- 4.2.2 Any competitor who is penalised under the Motorsport UK Sporting Regulations at any stage of an event may at the Clerk of the Course's discretion incur the following Championship penalty: -
The event will be counted as one of the events contributing to their Championship score and they will be excluded from the event. Additionally, the competitor will forfeit a total of points equal to those obtained for a class win even if this results in a minus total of points.
- 4.2.3 Any Competitor who is penalised under the Championship Sporting Regulations at any stage of a Championship event and receives an allocation of penalty points on their race license in accordance with Motorsport UK Regulations, will receive a Championship points deduction equal to the number of penalty points which were allocated. Should the same competitor receive penalty points at another Championship event then the number of Championship points deducted will be double the number of penalty points applied. If penalty points are applied at a third event, then the Championship points deducted will be triple this number, and quadrupled at the fourth occurrence of such a penalty etc. This may result in a driver receiving a negative score.



5. TECHNICAL REGULATIONS

5(1) INTRODUCTION:

The following Technical Regulations are set out in accordance with the Motorsport UK specified format and it should be clearly understood that, if the following texts do not clearly specify that you can do it, you should work on the principle that you cannot.

Competitors are advised to read section J of the current Motorsport UK Yearbook.

Specific regulations for Formula Ford 2000 cars and Air-Cooled Formula Super Vee cars are headed FF2000 and FSV respectively. If no such heading is present, the regulation covers ALL competing cars.

Competitors must always make prior application to the FF2000 Registrar in writing with reference to the unavailability of original pattern parts, panels etc. Each such case and application will be considered by the Series Organisers and the Eligibility Scrutineer and ruled thereon. Failure to comply may result in rejection of the car and imposition of penalties at the discretion of the Registrar.

The HSCC Historic FF2000 Championship has been conceived to provide affordable historic single seater racing which is both competitive and enjoyable for all participants. The "Spirit of the Regulations" must be respected at all times. Any competitor considered by the Series Organisers or Eligibility Scrutineer to be in breach of this Spirit is liable to exclusion from the Championship.

Any competitor failing to comply with either the letter or the spirit of the formula will be reported by the eligibility scrutineer/registrar of the Historic FF2000 Association for any further action.

Historic FF2000 is, as its name implies, a category for historic cars, being raced in a specification very close to that in which they originally competed. The organisers therefore reserve the right to disallow any developments they feel not to be in keeping with the regulations, or any actions by competitors which would result in an unacceptable increase in costs for the category.

5(2) GENERAL DESCRIPTION:

Eligible Cars: The HSCC Historic Formula Ford 2000 Championship © is open to genuine Formula Ford 2000 racing cars originally built and raced between 1/1/75 and 31/12/81. There is also an invitation classes open to Air Cooled Formula Super Vee cars built prior to 1/1/78 All cars must have current FIA or HSCC Vehicle Identification Form (VIF).

The Historic Formula Ford 2000 races are for competitors participating in Formula Ford 2000 Single Seat Racing Cars built prior to 31/12/81 (excluding the Van Diemen RF81 and Reynard 82 series cars), and the onus is on the entrant/competitor to establish this. There is also an invitation class for Formula Super Vee cars with air-cooled engines built prior to 31/12/77. All cars, prior to being accepted and registered by the Association, must comply with these regulations and the provisions of the regulations. Anything outside this must be approved by the Eligibility Scrutineer.

For the purpose of these technical regulations, the term manufacture or manufacturer refers to the manufacturer of the vehicle unless clearly specified otherwise.

Manufacturer option equipment is not permitted unless specifically stated.

Chassis is defined to mean a chassis to which bodywork and mechanical components are fixed or a monocoque bodyshell.

Class Structure for HSCC Historic Formula Ford 2000 Championship:

- Class A: Formula Ford 2000 cars built between 1/1/79 and 31/12/81 but excluding the Van Diemen RF81 and RF82 and the Reynard 82SF.
- Class B: Formula Ford 2000 cars built before 1/1/79, but excluding Reynard and Delta cars built in this period, which are eligible for Class A.
- Class C: Invitation class for Air Cooled Formula Super Vee cars built before 1/1/1978. Class C cars are not eligible for championship points.
- Class D: Invitation class for single seater racing cars which are, at the absolute discretion of the Club, considered to be compatible in performance, appearance and presentation with the Formula Ford 2000 cars around which the championship is primarily based. Class D cars are not eligible for championship points.



5(3) **SAFETY REQUIREMENTS:**

The following Articles of Motorsport UK Section K Safety Criteria Regulations will apply:-

K1; K2.1.4 Six Point; K3; Section K; K3.1.1. & K3.1; K4; K5; K6-13; K14.

Section **(K5)**: A rearward facing red warning light is mandatory and must comply with this regulation.

5(4) **GENERAL TECHNICAL REQUIREMENTS AND EXCEPTIONS:**

Cars registered for this championship must comply with Motorsport UK Technical Regulations in force at the time of manufacture. Cars may be updated to the specification of the latest model built by the manufacturer which appears in the list of eligible vehicles.

It is permitted to make any modification of which the primary purpose is safety or driver comfort.

No modifications are permitted without the specific approval of the Eligibility Scrutineer. The use of composite materials using carbon and/or Kevlar reinforcement is prohibited.

5(4).1 Vehicle Identity Papers

All vehicles must comply with their HSCC or FIA Identity Documents. Subject to their Identity Documents indicating otherwise, vehicles must comply with Technical Regulations for competitors (J5). The driver must ensure the VIF is available at scrutineering and throughout each day of each event they attend.

5(4).1 Engine Seals

In case of official protest all engines shall have provision for sealing as listed:

All engines must have provision for scrutineer's wire seals. 1/16in holes pre-drilled in readily accessible locations on installed engines must be available:

- I Sump - two holes through the cylinder block/sump joint flange, specifically a pair, on each side or diagonally opposite.
- II Cam Cover - at least two retaining screw heads must be cross drilled
- III Cam Timing Pulley - retaining bolt must be cross drilled
- IV Inlet Manifold - at least two retaining bolt heads to the cylinder head must be cross drilled.
- V Carburettor - at least two retaining nuts to the inlet manifold must be cross drilled
- VI Bell housing - at least two retaining bolts to the engine must be cross drilled to enable clutch and flywheel to be adequately sealed OR competitors must be prepared to remove either engine or transmission to enable sealing of clutch and flywheel in which case at least two clutch cover retaining bolts must be cross drilled. Failure to comply renders the engine ineligible.

5(5) **CHASSIS:**

5(5).1 FF2000: Any chassis manufactured before 31.12.81, and of a type raced in contemporary FF2000 will be eligible. In addition, Formula Ford 1600 cars, modified to FF2000 regulations will also be accepted, providing that an equivalent car ran in period. (i.e, a Royale RP24 may be modified and raced to RP25 specification). The exception to these rules is the Van Diemen RF81 series, in both FF2000 and FF1600 forms, which are specifically excluded, as are the Reynard 81FF and 82SF. A list of eligible cars is available on request.



5(5).2 **FF2000:** The chassis must be of tubular steel construction with no stress bearing panels except bulkhead and undertray. Curvature of the undertray must not exceed 2.54cm. Monocoque chassis construction is prohibited. Stress bearing panels are defined as:- Sheet metal affixed to the frame by welding, bonding or rivets or bolts or screws which have centres closer than 15.25cm. Bodywork must not be used as stress bearing panels. The use of stabilised materials, composite materials using carbon and/or Kevlar reinforcement is prohibited. The chassis specification must remain fundamentally unaltered from original manufacture. Wheelbase, track and pickup points must remain to manufacturer's specification. Ground Clearance as per **(J5.20.11)** at all times, in practice & race, including in any post practice or post race scrutineering. No engine oil or water tubes are permitted within the cockpit.

5(5).3 **FSV:** Any chassis manufactured before 31/12/77 and of a type raced in Formula Super Vee.

5(6) **BODYWORK:**

5(6).1 General

Bodywork must be of a type with a proven competition history for that type of car. It is permitted to make any modification for which the primary purpose is safety or driver comfort. Cars may be updated to the specification of the latest model built by the manufacturer which appears in the list of eligible vehicles.

5(6).2 Exterior

Wings must be of a proven period design and construction and must respect period dimensions for the chassis type in question. All other bodywork dimensions are as follows (to be read in conjunction with Section Q appendix 2 in the Motorsport UK Competitors and Officials Yearbook):-

- (A) 100cm on cars built before 31/12/77, otherwise 80cm
- (B) 100cm
- (C) 90cm. Cars built before 31/12/78 using the original bodywork shape are permitted to run period "Periscope" airboxes which may exceed this height.
- (D) 30-60cm
- (E) Front wheel rim height
- (F) 92cm
- (G) 5cm
- (H) 185
- (I) 95cm
- (J) 95cm
- (K) 135cm
- (L) 45cm
- (M) 30cm
- (N) 60cm
- (O) see 5(12)
- (R) N/A
- (S) 100cm on cars built before 31/12/77, otherwise 80cm

Enclosure of the sides and underside of the engine is prohibited.

**5(6).3 Permitted Modifications**

It is permitted to make any modification of which the primary purpose is safety or driver comfort. Cars may be updated to the specification of the latest model built by the manufacturer which appears in the list of eligible vehicles.

5(6).4 Prohibited Modifications

No modifications are permitted without the specific approval of the Eligibility Scrutineer. The use of composite materials using carbon and/or Kevlar reinforcement is prohibited.

It is not permitted to construct any suspension member in the form of an aerofoil or to incorporate a spoiler in the construction of any suspension member.

It is forbidden to add or make any aerodynamic modifications such as, for example, trim tabs, extended splitters or undertrays, unless photographic evidence can be provided that such a modification was used in period.

5(7) ENGINE:

The engine number should be visible, together with the original manufacturer's casting numbers on both block and head(s).

5(7).1 Permitted Modifications

FF2000: The only permitted engine is the Ford NE series 2 Litre SOHC with 2 Venturi carburetors with nominal bore 90.84mm + 0.5mm rebore allowance and stroke 76.95mm Production tolerances are permitted providing the total swept volume does not exceed 2025cc. Engines will be mounted upright and aligned fore and aft in the chassis.

The addition of any material be it metal, plastic or composite etc. by any means be it welding, bonding encapsulation or encasement to any component is prohibited. However, specific repair of castings may be allowed with the written approval of the eligibility scrutineer responsible for the Formula. Balancing of reciprocating and rotating parts is permitted only by removal of metal from locations so provided by the manufacturer. Pump, fan and generator drive pulleys and their retention bolts, washers and belts are free. Mechanical tachometer drives may be fitted.

Generators are optional. The use of non-standard replacement fasteners, nuts bolts, screws, studs and washers which are not connected with or which do not support any moving parts of the engine or its compulsorily retained accessories is permitted. The use of thread locking compounds is permitted. Gaskets are free except for cylinder head and carburettor to inlet manifold gaskets which must be dimensionally identical to original Ford gaskets - see note under compression ratio. Any process of cleaning may be used on any component providing the surface finish, which must remain standard, is not affected. Forced induction prohibited. The air cleaner may be removed or replaced and a trumpet fitted.

5(7).2 Cylinder Blocks

It is permitted, as means of repair, to replace damaged cylinder bores with cast iron cylinder liners, all to standard dimensions. Localised machining of the cylinder block is permitted to allow fitting of the dry sump system. The crankcase breather may be altered or removed, but all breathers must discharge into a catch tank, or back to the oil tank. Cylinder blocks may be machined to achieve deck height. The deck height, measured from the centreline of the crankshaft to the top face of the block, must be 206.8mm +0mm -3.25mm

5(7).3 Cylinder Heads

Non-standard camshaft covers are permitted providing they in no way improve the performance of the engine. Water passages are not permitted in cam covers. Standard valve spring retainers must be used, only single valve springs are permitted. Shims are permitted otherwise valve springs are free.

The only permitted camshafts are the standard Ford production camshafts for 2000SOHC NE engines, part number 1584660. The camshaft and rockers must remain entirely unmodified. They must be fully manufactured and ground by the Ford Motor Co. It is prohibited to grind camshafts



from blanks or regrind or reprofile. Tuftriding or Parkerising is permitted.

As an alternative to the Ford camshaft specified above, the FF2000 camshaft kit, as supplied by Universal Racing Services (URS), or the SC2000 camshaft kit from Kent Cams Ltd. May be used. These camshafts have been measured and recorded to ensure conformity with the standard Ford profiles. If a competitor wishes to use an alternative aftermarket camshaft, he/she can present it to the Historic FF2000 Association for conformity testing. This testing takes place periodically throughout the season at a cost of £45 per camshaft. None of the above camshafts may be reground, reprofiled or modified in any way.

A copy of the valve lift table from the 1978 RAC Motor Sport Technical Manual is available, on request, from the Championship Eligibility Registrar.

The key/keyway in the camshaft pulley may be offset. Vernier adjustment of cam timing is permitted. Cylinder head face may be skimmed.

Maximum valve lift at determined points by camshaft rotation will be established by using a low rate substitute valve spring (load characteristics 12lb at 1.417in, 30lb at 1.000in), with zero tappet clearance.

Valves and rockers must remain dimensionally identical to the standard Ford items, no reprofiling or polishing is permitted. The original 45deg. seat angle must be retained.

Maximum face diameter inlet 42.2mm Maximum face diameter exhaust 36.2mm Overall length inlet 111.15 +/- 0.5mm. Overall length exhaust 110.55 +/- 0.5mm Maximum valve stem diameter 8.4mm

It is permissible to reshape inlet and exhaust ports by removal of metal within limits. Addition of material in any form is prohibited. Maximum port dimension at manifold head face: Inlet diameter 39.5mm. Exhaust 35.5mm x 27mm Sizes may only be exceeded if the castings are oversize, in such cases the castings must be seen to be original and untouched. An external oil drain pipe from the cylinder head is permitted. The fitting of a union by drilling and tapping is permitted. It is permitted, as means of repair, to replace damaged valve guides and valve seats by replacement cast iron valve guides and cast iron valve seat inserts all to standard dimensions. Inlet and exhaust port diameter may be exceeded if the original casting is visible and untouched at the gasket face. It is further permitted to line worn valve guides with bronze sleeves, provided these sleeves are coaxial with the original guide.

Broken camshaft carriers may be repaired by means of machining the broken carrier(s) flat, and replacing with a ferrous block, screwed into, or welded to the head casting. The block may then be line bored to accept the camshaft.

Compression Ratio

The maximum compression ratio will be controlled as follows: Minimum combustion volume in cylinder head 50cc. Standard Ford cylinder head gaskets part no 70HM6051 BiA, 70HM6051 B3B, 70HM6051 GIA: minimum compressed thickness 0.9mm minimum diameter of cylinder aperture 92,0mm or dimensionally identical aftermarket gasket. Multi-layer head gaskets (ie Cometic-style) are expressly forbidden. Pistons must not protrude above cylinder block surface at TDC. Cylinder block face may only be machined flat.

5(7).4

Pistons

Pistons must be standard Ford or absolutely identical aftermarket production pistons, unmodified in any way except for balancing and as detailed.

All three piston rings must be fitted, piston rings must be standard production or similar approved pattern replacements, i.e. the compression rings must be one piece, single homogeneous material type with conventional plain gaps, chromium plating of the top ring is optional, the oil control rings must be either single piece twin land type or apex three piece (two rails and an expander).

Molybdenum faced top compression rings are permitted. To achieve balance, material may be removed from the internal surfaces at any location below the lowest point of the gudgeon pin. All external surfaces, dimensions and profiles must remain standard with the exception of the top surface of the piston crown which may be subjected to simple machining to achieve balance and



the objectives of the section entitled "Compression ratio" Minimum weight of pistons, plus rings, connection rod, connection rod bolts and nuts, less big end bearings, 1255grms

5(7).5 Connecting Rods

Connecting rods must be standard Ford part. Machining is permitted to remove metal from the balancing bosses to achieve balance only. Tuftriding, Parkerising, shot-peening, shot-blasting and polishing are permitted. It is permitted to radius the area around the big-end retaining bolt heads and nuts. Big end bolts part no. 905500 are permitted as are similar aftermarket big end bolts.

5(7).6 Crankshaft

A standard crankshaft must be used. Spot machining to achieve balance is permitted. Tuftriding Parkerising, shot-peening, shot blasting and polishing are permitted. Crankshaft minimum weight 28lbs. It is not permitted to alter the number of bearings or fit bearings of less than standard production width. Standard oversize and undersize bearings are permitted.

5(7).7 Flywheel and Clutch

The flywheel must be a standard component or the FF2000 flywheel manufactured by Damico Engines Ltd which is to original Ford specification. To achieve minimum weight and balance, materials may be removed from the originally machined surfaces, rim/flange etc. For rectification, the clutch mating face may be resurfaced. Cast surfaces must remain in original condition. Friction material is free. The clutch must be a standard Ford road car unit or aftermarket replacement of identical diameter and type, or AP Racing models CP5351-1 or CP5351-2. Sintered clutches are forbidden. Flywheel bolts are free and locating dowels are permitted. It is permitted to secure the starter ring to the flywheel. Flywheel and clutch assembly minimum permitted weight 12.5kg (including all flywheel and crankshaft securing bolts). In the event of a standard flywheel not being available, a dimensionally identical alternative, such as that manufactured by Damico Engines, is permitted.

ENGINE SEALING Moved to 5(4)

5(7).8 Prohibited Modifications

FSV: The engine must be of a cubic capacity no greater than 1600cc and consist of standard VW parts, and only components from engines of VW types 1 to 4 (excluding type 4 2000cc) are permitted.

Compression ratio is unrestricted, and the cylinder heads may be machined by removal of metal. Piston rings, camshaft, cam followers, pushrods and rocker box covers are unrestricted. Roller camshafts and cam followers are prohibited. Two double choke, or four single choke carburettors of maximum 40mm at the throttle butterfly/slide are permitted. The make of carburettor is free.

Fuel injection is prohibited. Valve springs and valve caps are unrestricted in respect of design or number. The maximum permitted valve diameters are Inlet 41mm, Exhaust 34mm. The clutch unit must originate from VW types 1 to 4, although the method of operation, types of linings and springs are unrestricted. The flywheel may be lightened, and extra location dowels may be added. Cooling fans from VW types 1 2 3 and 4 only are permitted. Fans, fan housings and cooling ducts may be modified or removed. If a fan is used, it must be driven directly by the engine.

5(7).9 Oil/Cooling System

A liquid cooling system is mandatory but radiator and water pump are free provided that the water pump is mechanically operated. (i.e. non electrical) The radiator, if housed in or incorporating a cool air scoop or deflector, must comply with bodywork regulations.

The lubrication system, external to the engine, is free. Existing standard production oilways, linings or oil grooves may be enlarged or reduced, but no additional ones are permitted with the exception of an external drain from the head to the sump. Standard friction surfaces must remain unchanged. Dry sump is permitted, oil coolers are free

5(7).10 Induction Systems

Carburettor Type: Weber 32/36 DGV & DGAV. Number on engine 1 Number of Main Venturi 2.



Maximum diameter of carburettor outlet to inlet manifold 32.0/36.0mm. Maximum diameter of Main Venturi 26.0/27.0mm

It is permitted to change jets, open both throttles together, remove cold start devices and diffuser bar, fit internal and / or external anti-surge pipes, remove seals on emission control carburettors. No other modifications are permitted, chokes must remain standard and no polishing or reprofiling is permitted.

Any means of reducing intake air temperature is prohibited. Any form of water injection is prohibited.

Flexible mounts for the carburettor may be incorporated providing they do not exceed a maximum of 25.4mm from flange to flange The bore of the casting must remain untouched and in its original condition. The carburettor seat face may be machined to horizontal in the fore and aft plane. The water passage in the inlet manifold may be blanked off or plugged.

The manifold may be machined externally sufficiently to clear the throttle mechanism in the case of both throttles being opened together.

5(7).11 Exhausts Systems

The exhaust system and manifold are free, within Vehicle Regulations.

5(7).12 Ignition Systems

Distributors are free providing they retain the original drive and location. The distributor is defined as the component which triggers the LT current and distributes the HT ignition current. The ignition timing may only be varied by vacuum and/or mechanical means. It is prohibited to use any other method or component to trigger, distribute or time the ignition. It is permitted to mount a simple indicating pointer to the engine to facilitate the timing of the distributor with respect to the crankshaft/flywheel.

5(7).1 Fuel Delivery Systems

Only the standard mechanical fuel pump for the engine is permitted. Fuel pipes are free. Fuel cooling radiators are permitted, within safety regulations, but must be mounted within the main chassis frame.



5(8) **SUSPENSIONS**

- 5(8).1 Suspension as original. Remanufactured or replacement suspension components shall be dimensionally as original, but material thickness may be changed in the interests of safety.
- 5(8).2 The suspension shall utilise only the original pick-up points unless these were modified and used on the chassis and raced in a Formula Ford 2000 race prior to 31/12/81, or Formula Super Vee race, prior to 31/12/78.
- 5(8).3 **FF2000:** All parts must be of steel or ferrous material, with the exception of hubs, hub adapters, hub carriers, bearings and bushes, spring caps, abutment nuts, anti-roll bar links, shock absorber caps and nuts. Remote reservoir and / or light alloy dampers are prohibited.
- 5(8).4 **FSV:** The front suspension, although unrestricted, must include VW Type 3 stub axles (uprights) and wheel hubs. The rear suspension, although unrestricted, must include VW axle shafts and universal (CV) joints.
- 5(8).5 No modification permitted without consultation and ratification by the Eligibility Scrutineer. The use of any additional anti squat/anti droop devices is strictly prohibited.
- 5(8).6 Dampers shall be of the same type in terms of appearance as originally fitted to the car and shall be mounted to the original mounting points. Remote reservoirs or any form of external control system are excluded. The use of more than one spring per corner is prohibited. Dampers must be steel-bodied.
- 5(8).7 Sheathing of non-ferrous dampers with a ferrous material is prohibited.
- 5(8).8 Minimum wheelbase: 2000mm
Minimum track: 1200mm

5(8).9 Modifications Prohibited

It is not permitted to construct any suspension member in the form of an aerofoil or to incorporate a spoiler in the construction of any suspension member

5(9) **TRANSMISSION:**

- 5(9).1 Gearbox and final drive must be of the type originally fitted to the car.
- 5(9).2 **FSV:** The VW gearcase in its original orientation must be used. It is forbidden to turn the gearcase through 180° axially.
- 5(9).3 The gearbox must contain not contain more than four forward gears and include an operable reverse gear, capable of being engaged by the driver whilst normally seated. The ratios are free. Rear wheel drive only is permitted. Final drive ratio is free. Torque biasing, limited slip and locked differentials are prohibited. Non-ferrous differential components are prohibited.



5(10) **ELECTRICS:**

- 5(10).1 Batteries must be of a type which does not leak acid if inverted. The location is free.
- 5(10).2 The engine must be fitted with an operable electric starter motor (compressed air starters are prohibited). The electrical system shall be fitted with a safety cut out switch as per (K8.), (Motorsport UK Technical Regulations).

5(11) **BRAKES:**

- 5(11).1 The braking system must be as that originally fitted to the car.
- 5(11).2 **FSV:** VW Type 3 front brake calipers and discs must be used. VW rear brake caliper and disc (or drum) from VW Type 3 or VW Porsche 914/4 (rear) must be used
- 5(11).3 No modifications are permitted without the specific approval of the Eligibility Scrutineer.
- 5(11).4 **FF2000:** Light alloy brake calipers and discs mounting bells are prohibited, otherwise free.

5(12) **WHEELS/STEERING:**

- 5(12).1 Rear wheel steering prohibited, otherwise free. Material is free providing it is metal.
- 5(12).2 Centre lock wheel retaining nuts must be fitted with safety ('R') clips and painted in a bright colour. Aircraft type self-locking nuts are not acceptable as an alternative.
- 5(12).3 Wheels may be constructed from aluminium alloys or magnesium alloys.
Note: Competitors are reminded that alloy/mag wheels can have a tendency to crack, especially the older ones. For safety reasons, please keep a check on your wheels.
- 5(12).4 Rim dimensions:
Front 13" dia x 6" wide maximum: Rear 13" dia x 8" wide maximum.

5(13) **TYRES:**

- 5(13).1 Only tyres as specified in 5.13.2 are permitted.
- 5(13).2 The only permitted tyres are:
AVON:
Dry Front: 6.5 /21.0 X 13 Spec no. 8814
Wet Front 160/530 R13 Spec no. 13593M
AVON:
Dry Rear 8.2 /22.0 X 13 Spec no. 8815
Wet Rear 180/565 E13 Spec no. 13594M
- 5(13).3 The use of tyre heating/heat retention devices, tyre treatments and compounds is prohibited.
- 5(13).4 A maximum of twelve slicks per driver per season ONLY are permitted. Eligibility Scrutineers reserve the right to mark tyres should they so wish. Competitors are reminded that, should they wish to fit additional new tyres beyond the allowance of twelve, it must be with the express permission of the Eligibility Scrutineer, who will first inspect the tyre to be changed.
- 5(13).5 The organisers of the Championship reserve the right to evaluate tyres during the course of the season. Any driver participating in such an evaluation will not be eligible for Championship points other than whilst using tyres in 5.13.2 above.

5(14) **WEIGHTS:**

Weight is the weight of the vehicle as it finishes the race, but excludes the driver and his equipment.



FF2000: The weight of the car shall not be less than 440kg

FSV: The weight of the car shall not be less than 400kg

5(15) FUEL TANK / FUEL:

- 5(15).1 The fuel tank should be located in the same position as that originally fitted to the car. On safety grounds, it may be relocated subject to approval by the Eligibility Scrutineer. Competitors should be aware that bag tanks are lited for 5 years from date of manufacture for FIA events only.
- 5(15).2 Fuel tank capacity is free.
- 5(15).3 Fuel must be in accordance with Motorsport UK regulations Section B Nomenclature & Definitions Pump Fuel parts (a) or (b),
- 5(15).4 Tanks outside the chassis frame must comply with FIA Spec/FT3. Inboard tanks, covered externally with fireproof coating, are acceptable for events of less than 70km. A metal tank coated with GRP does not comply. Maximum capacity 41 litres unless carried in FIA Spec/FT3 tank.

5(16) SILENCING:

All vehicles must comply with Motorsport UK **Regulation J5.17**, and are also subject to individual circuit requirements if specified in Supplementary Regulations.

On FF2000 engines a mandatory silencer, Ford part no: 9095317 must be fitted and must comply with Motorsport UK Regulation J5.17.

5(17) NUMBERS AND CHAMPIONSHIP DECALS:

- 5(17).1 Numbers must be displayed as per Section J4 and Appendix 1 Drawing 4 of the Motorsport UK General Regulations. It is a competitor's responsibility for the competing vehicle to be easily identified by all course officials .
- 5(17).2 Individual sponsors decals are limited to two per vehicle, each with a maximum size of 12" by 4" .
- 5(17).3 All competing cars must display at least two HSCC badges, one on each side of the car and one Historic FF2000 Association badge, together with championship or race sponsor stickers as required. Failure to display the required stickers by an individual competitor may result in the withholding of championship points and corresponding awards.

MISCELLANEOUS: – Moved to 5(1) and 5(4)



6. APPENDICES

The following Commercial Undertakings are not subject to the judicial procedures of either the Championship Stewards and/or the Motorsport UK /MSC

6.1 Race Organising Clubs and Contacts

HISTORIC SPORTS CAR CLUB: Silverstone Circuit, Silverstone, Towcester, Northants, NN12 8TN
(T) 01327 858400 (F) 01327 858500 email: office@hsc.org.uk
Website: www.hsc.org.uk

Championship Chairman: **Alan Morgan**

Eligibility Registrar: **Alan Morgan**

Drivers Representative: **Colin Wright**



APPENDIX 1

A socially-minded standard of behaviour is expected from everyone within the motorsport community.

By participating in a Motorsport UK event in any capacity you agree to follow the values of the Respect Code:

Motorsportuk.org/racewithrespect
[#RaceWithRespect](https://twitter.com/RaceWithRespect)

The Values

- Respect
- Fair play
- Integrity
- Good Manners
- Self-Control

I pledge to #RaceWithRespect and:

- Contribute to a welcoming and friendly environment that ensures the safety and welfare of all participants.
- Always behave with integrity and uphold fairness in the sport; play your part in keeping the sport safe through your actions
- Treat everyone with respect, regardless of their gender, ethnic or social background, language, religious or other beliefs, disability, sexual identity or other status
- Recognise that we all represent the sport and therefore have a duty to be polite and respectful to all staff, officials, fellow competitors, volunteers, as well as fans and supporters
- Respect the rules, regulations and authority of the officials and Motorsport UK

Any breach of these obligations may result in disciplinary action.