



# 750 FORMULA CHAMPIONSHIP SPORTING & TECHNICAL REGULATIONS 2021

**PUBLISHED VERSION** Page 1 of 7 – Issued date 19/01/2021

## 1: SPORTING REGULATIONS - GENERAL

### 1.1: TITLE & JURISDICTION:

The **750 FORMULA CHAMPIONSHIP** is organised and administered by the 750 Motor Club Ltd in accordance with the General Regulations of Motorsport UK (incorporating the provisions of the International Sporting Code of the FIA) and these Championship Regulations.

**1. MOTORSPORT UK Championship Permit No:**  
**CHR2021/R023**

**2. MOTORSPORT UK Championship Grade: C**

**3: Race Status:** Inter-Club /National.

### 1.2: OFFICIALS:

**1. Co-Ordinator:** G.Groombridge, Donington Park, Castle Donington, Derbyshire, DE74 2RP

☎ 01332 814548; ✉ [giles@750mc.co.uk](mailto:giles@750mc.co.uk)

**2. Eligibility Scrutineer:** R.Blackmore

**3. Championship Stewards:**

**C. Emmerson**      **T. Gregory**      **I.Sowman**

### 1.3: COMPETITOR ELIGIBILITY:

1 Entrants must:

- be fully paid up valid members of the 750 Motor Club.
- be Registered for the Championship and
- be in possession of a valid MOTORSPORT UK Entrants Licences.

2 Drivers and Entrant/Drivers must:

- Be current Members of the 750 Motor Club.
- be Registered for the Championship and
- be in possession of valid Competition Licence, (Race Club 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 ((H)26.2. and FIA ISC Article 2.3.7.b applies)
- 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.

3. All necessary documentation must be presented for checking at all rounds when signing-on.

### 1.3.4: COLLEGE CLASS ELIGIBILITY:

- The College Class will run as Class C of the Championship.
- Colleges will nominate one representative who will register as Entrant of the vehicle and will require an MOTORSPORT UK Entrants Licence. The registration fee of **£120** is payable to the 750 Motor Club upon registration of the vehicle.
- The nominated representative of the College must be a fully paid up membership card holding member of the 750 Motor Club Ltd.
- The car registered by a College may be entered by any driver authorised by that College.
- All drivers must hold a valid MOTORSPORT UK National B (or higher grade) Race Licence or be a professional driver in possession of a valid Licence (featuring an E.U flag) & medical issued by the ASN of a member country of the European Union (MOTORSPORT UK Regulation H26.2.1.)

### 1.4: REGISTRATION:

- All drivers must register for the championship by returning the Registration Form with the Registration Fee to the Coordinator prior to the Final Closing date for the first round being entered.
- The Registration Fee for the season is **£120** payable upon registration. For competitors wishing to enter a single event a registration fee of **£25** is payable and points will be awarded for this event. If further races are entered the balance of the **£120** fee must be paid.

3. Registration numbers will be the permanent Competition number for the Championship.

4. If any competitor wishes to change to a different car from the one originally registered for the championship, a completed registration form with registration fee must be sent to the Co-ordinator.

### 1.5: CHAMPIONSHIP ROUNDS:

The **750 FORMULA CHAMPIONSHIP** will be contested over the following rounds:

Date	Circuit	Round/s
4 April	Silverstone (Nat)	2
22/23 May	Donington Park	2
19/20 June	Anglesey	2
31 July	Cadwell Park	2
12 September	Brands Hatch (Indy)	2
10 October	Mallory Park	2

### 1.6: SCORING:

1. Points will be awarded to Competitors listed in the Final Results as follows:- 25; 22; 20; 18; 16; 14; 12; 11; 10; 9; 8; 7; 6; 5; 4; 3. All other finishers 2. All starters who fail to finish 1.

2. The totals from all qualifying rounds run (excluding any races which are abandoned and which are not replaced) less 2 will determine the final championship points positions.

3. Ties for end-of-season award winning places shall be resolved, when more than one competitor have equal totals, by taking into account the highest number of 1<sup>st</sup> places, 2<sup>nd</sup> places etc from the races they are counting as their best total (i.e. their finishing position in **dropped rounds** do not get taken into account). If that fails to find a winner their highest or subsequent highest dropped scores will be added to their existing total score until a conclusive result is found.

4. Additionally, drivers who, during the previous **5 3** years have not finished in the top 3 in any 750 Formula race, the top 6 in the end-of-year positions ~~or 1<sup>st</sup> in class B in the end of year positions, may register to score points in Class B as well as the overall championship. Any driver registered for Class B who finishes in the top 3 in any 750 Formula race will immediately become ineligible for Class B. For the purpose of the Class B Championship positions any points they have scored to that point will be dropped, but this will not affect any other competitors, i.e. the Class B Championship points will remain unaffected.~~ may register to score points in Class B as well as the overall Championship. Any driver who finishes 1<sup>st</sup> in the Class B Championship will be ineligible for Class B for 4 years. Any driver registered for Class B who finishes in the top 3 in any 750 Formula race will become ineligible to score additional points for the Class B Championship from the next race onwards. For the purpose of the Class B Championship positions any points they have scored to that point will be frozen but will still count towards the Class B Championship for that year. Any driver who has won the overall Championship will no longer be eligible for Class B.

5. Cars registered for Class C will only score points in Class C, awarded as per 1.6.1.

6. Where two drivers are registered in the Team Challenge and are sharing a car, their points scored (as per 1.6.1) will be combined and they will compete for the Team Challenge Awards as per 1.7.3. Each driver must contribute at least 4 scores to the team total.

### 1.7: AWARDS:

1. All awards are to be provided by the Organising Club unless agreed otherwise.

2. Per Round: Trophies to 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup>.

3. Championship: Trophies, subject to a minimum of 5 race starts, to:-

1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> & 6<sup>th</sup> overall.

1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> in class B.

1<sup>st</sup> in Class C.

Best Prepared car.

Highest placed non race winner (Jeff Ward Trophy)

Highest placed driver in a car of his own design and construction (Bill Cowley Trophy)

- Highest placed driver in his first year in the championship (Robin Reed Trophy)  
Highest placed driver in a car of his own design and construction in its first season of racing (Brian Clayton Trophy)  
Highest average qualifying position taking all rounds into account (Will Johnston Jr. Trophy).  
Team Challenge trophy for the team with the highest scores as described in 1.6.6.
- 4. Bonuses:**  
Per Round: not applicable. Championship: not applicable.
  - 5. Presentations:** Garlands and Trophies are to be provided for presentation at the end of each race. Prize money and Bonuses shall be posted to the Entrants within one month of the results being declared final after each season.
  - 6. Entertainment Tax Liability.** Not applicable.
  - 7. Title to all Trophies:** In the event of any Provisional Results or Championship Tables being revised after any provisional presentations and such revisions affecting the distribution of any awards the Competitors concerned must return such awards to the 750 Motor Club Competitions Secretary in good condition within 7 days.

## 2: CHAMPIONSHIP EVENT MEETINGS & RACE PROCEDURES

### 1. ENTRIES:

- Competitors are responsible for sending in correct and complete entries with the correct entry fee prior to the closing date for entries before each event.
- 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 Meeting Organiser receives the missing or corrected information or fee.
- Any withdrawal of Entry or Driver/Car changes made after acceptance of any entry must be notified to the Meeting Organisers in writing. D25.1.12. applies.
- The Entry Fee for each event shall be specified in the SRs and on the entry form.
- Reserves will be listed in the Final List of Entries published with Final Instructions or in a Bulletin.

**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.

### 3. QUALIFICATION PRACTICE:

- Should any Practice session be disrupted the Clerk of the Course shall not be obliged to resume or re-run the session; the decision of the Clerk of the Course shall be final.
- Each driver shall complete a minimum of 3 laps in the car to be raced, and in the correct session, in order to qualify (MOTORSPORT UK Regulations Q12.4).
- At double header meetings the grid for the second race will be set by second fastest practice times.

**4. RACES:** Should any race be disrupted the Clerk of the Course shall not be obliged to resume or rerun the race ((Q)12.15.) (1.6.4. above applies).

### 5. STARTS:

- All cars will be released to form up on the grid prior to the start in formation as specified on the grid sheet.
- The start will be via Standing start. The minimum Countdown procedures/audible warnings sequence shall be:-
  - 1 minute to start of Green Flag/Pace Lap - Start Engines/Clear Grid.
  - 30 Seconds - Visible and audible warning for start of Green Flag/Pace Lap.
  - A five second board will be used to indicate that the grid is complete.
  - The red lights will be switched on five seconds after the

board is withdrawn.

**3.** Any car removed from the grid after the 1 minute stage or driven into the pits on the Green Flag lap shall be held in the pitlane and may start the race after the last car has passed the startline or pitlane exit, whichever is the later to take the start from the grid.

**4.** Any driver 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 the 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.

**5.** In the event of any starting lights failure the Starter will revert to use of the National Flag.

**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 Signalling 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.

### 7. PITS, PADDOCK & PITLANE SAFETY:

- Pits & Paddock:** Competitors must ensure that the MOTORSPORT UK, Circuit Management and Organising Club Safety Regulations are complied with at all times.
- Pitlane:** The outer lane or lanes are to be kept unobstructed to allow safe passage of cars at all times. The onus shall be on all Drivers to take all due care and respect the pit lane speed limits.
- Refuelling:** May only be carried out in accordance with the MOTORSPORT UK General Regulations, the Organising Club Regulations, Circuit Management Regulations and the SRs or Final Instructions issued for each Circuit/Meeting.
- Speed Limit:** Pit Lane Speed Limit will be 60 km/h.

**8. RACE FINISHES:** After taking the Chequered Flag drivers are required to:

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

**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 (D)26.3.)

**10. TIMING MODULES:** The 750 Motor Club utilises transponder-based timing and competitors must have a compatible transponder fitted and working and advise the race organisers of its number prior to the event. Compatible transponders include the AMB TRANX 260 and MyLaps X2 & TR2 models.

### 11. QUALIFICATION RACES:

Should the number of competitors be oversubscribed, the organisers may use the following procedure to run qualification races. All competitors will qualify and if required the organisers will run two qualifying sessions. Competitors will be allocated into each qualifying session based on their current championship positions. Should this not be possible it will be done at the discretion of the organisers. For example, if there are 60 competitors entered for the event and we can start 30 competitors in a race, then at a double header event a total of 4 races will take place. Grid allocations will be as follows:



Race 1A The grid will be formed by the fastest 15 competitors in each qualifying session with the group setting the faster qualifying time (irrespective of weather conditions) taking the pole side of the grid. Championship points will be awarded for 1st to 30th place in accordance with 1.6.1

Race 1B The grid will be formed from the remaining competitors in the same format as that for Race 1A with the group setting the faster qualifying time again taking the pole side of the grid. Championship points will be awarded for 31st to 60th place in accordance with 1.6.1.

Race 2A The grid will be determined by the finishing order of Race 1A. However, those competitors finishing in the final 5 places in Race 1A (whether classified or not) will be relegated onto the front of the Race 2B grid with those competitors finishing in the first five places in Race 1B being promoted onto the back of the 2A grid. Points will be awarded for 1st to 30th place in accordance with 1.6.1.

Race 2B The grid will be determined by the finishing order of Race 1B. However, those competitors finishing in the final 5 places in Race 1A (whether classified or not) will be relegated onto the front of the Race 2B grid with those competitors finishing in the first five places in Race 1B being promoted onto the back of the 2A grid. Points will be awarded for 31st to 60th position in accordance with 1.6.1.

The exact qualification procedure for each event will be detailed in the Final Instructions. Grids may be re-issued should a competitor inform the Secretary of the Meeting in writing that he has withdrawn. Grids may only be re-issued (due to competitors withdrawing) a minimum of 40 minutes prior to the scheduled start time of the race.

**12. OPERATION OF SAFETY CAR:** The Safety Car will be brought into operation and run in accordance with Section Q, Appendix 2 of the MOTORSPORT UK General Regulations.

### 13. ONBOARD CAMERAS:

~~It is recommended that all competitors carry an on board, in car camera that records to an SD (or micro-SD) card that must be capable of recording HD footage that can be played back on a standard laptop. Recordings from the cameras may be used where there is an incident which is subsequently brought before the Clerk of the Course for investigation.~~

~~From 2021 it will be MANDATORY that all drivers must have an on board camera.~~

All competitors are required to carry an on board, in car camera that records to an SD (or micro-SD) card that must be capable of recording HD footage that can be played back on a standard laptop. Recordings from the cameras may be used where there is an incident which is subsequently brought before the Clerk of the Course for investigation.

It is the competitor's sole responsibility to ensure safe installation and effective operation of the camera equipment. At all times cameras must be fitted in accordance with MOTORSPORT UK regulations and be approved by the Chief Scrutineer in accordance with J.5.21 Cameras must be mounted in a position such that the steering wheel and track in clear view. The unit must always be switched on and be recording when the car is on track during any official free practice, qualification session and race.

The onus is on the competitor to ensure that the camera unit battery is charged, the camera switched on to record and manage the storage to ensure enough space is available on which to record during the above-mentioned sessions.

In the event that no recording is available when requested by the Organisers or Clerk of the Course for judicial purposes then the following penalties will be applied by the Clerk of the Course.

- First offence – Championship Reprimand
- Second Offence - Championship Points Deduction – Equivalent to an 8th place finish.
- Third Offence - Disqualification.

### 3: SPECIFIC CHAMPIONSHIP REGULATIONS

In the event of any rounds being oversubscribed the Organising Club may, in liaison with the Championship Coordinator, at their discretion run Qualification races as per 2.11 of these regulations.

At each Round of the championship Race 1 grid positions will be determined by each competitor's fastest lap time in Qualifying. The grid positions for Races 2 will be determined by the competitors second fastest lap.

### 4: SPECIFIC CHAMPIONSHIP PENALTIES:

**In accordance with Section C of the current MOTORSPORT UK Yearbook**

#### 4.1: INFRINGEMENT OF TECHNICAL REGULATIONS:

- Arising from post practice Scrutineering or Judicial Action: Minimum Penalty: The provisions of MOTORSPORT UK Regulations: C3.3.
- Arising from post race Scrutineering or Judicial Action: Minimum Penalty: The provisions of MOTORSPORT UK Regulations: C3.5.1 (a) and (b).

For infringements deemed to be of a more serious nature the Clerk of the Course will invoke the provisions of Regulation C3.5.1 (c).

#### 4.2: ADDITIONAL SPECIFIC CHAMPIONSHIP PENALTIES:

- In the case of a driver being excluded from a race, the Clerk of Course will impose the penalties set out in MOTORSPORT UK Regulation C3.5.1 a & b and may impose the penalty set out in MOTORSPORT UK Regulation C3.5.1 c.
- In order to maintain standards of conduct, the Championship Organisers will monitor all Officials/Observers reports of adverse behaviour at race meetings. If any individual is included on two such reports during one racing season the Championship Organisers will request the Clerk of Course at future race meetings to consider specific observation of that driver's conduct.
- The Clerk of Course may impose a "Stop-Go" or "Drive through" penalty during a race in accordance with MOTORSPORT UK Regulation Q.12.26.
- Any Competitor who is penalized 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 round of the Championship then the number of Championship points deducted will be double the number of penalty points applied. If penalty points are applied at a third round, 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.
- Championship Stewards are also empowered to consider any request from the Championship co-ordinator to penalize any Competitor for any breach of Championship regulations and, after holding a formal hearing if they deem it necessary, to impose a penalty in accordance with MOTORSPORT UK Regulation C.2.1.1 (subject to the rights of appeal provided for in Section C.)
- One or more of the following may be imposed by the Championship Stewards as appropriate;
  - Reprimand
  - Fine. This may be also applied in the case of a driver receiving three reprimands from the Championship Stewards in one season.
  - Time or Grid Penalties
  - Suspension from all or part of the Championship. This may also be applied in the case of a driver receiving two fines from the Championship Stewards in one season.

### 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 must work on the principle that you cannot. The fact that some modifications are mentioned as prohibited does not imply that others are allowed.

**STANDARD:** The word 'standard' used within these technical regulations as a description of components is to be interpreted as per 'Standard Part' defined in Section B – Nomenclature & definitions in the MOTORSPORT UK Blue Book. Checking will be by comparison to spare parts supplied by the manufacturer's official agent or by any other means necessary to ensure compliance. It applies to the specified component/s from the manufacturer's parts list for the model / engine shown on the entry form or registration form. No modifications permitted beyond the repair or adjustment processes specifically specified by the manufacturers' workshop manual or microfiche.' Checking will be by comparison to spare parts supplied by the manufacturer's official agent or by any other means necessary to ensure compliance.

### 5.2: GENERAL DESCRIPTION:

The **750 FORMULA CHAMPIONSHIP** is for Competitors participating in two-seater, front or rear engined, open or closed sports-racing cars.

### 5.3: SAFETY REQUIREMENTS:

The following Articles of MOTORSPORT UK Section K Safety Criteria Regulations will apply: K1.6.4 or K1.5; K2.1.3, K2.1.4; K3 – K14. Extinguishers must comply with MOTORSPORT UK regulation K 3.1.2 a). Seat belts must be FIA homologated in accordance with Q13.10.2. Towing eyes to be in accordance with MOTORSPORT UK Regulation Q13.1.3; (note the tow eye may be of either a suitable rigid or flexible material).

### 5.4: GENERAL TECHNICAL REQUIREMENTS & EXCEPTIONS:

All cars must comply with the requirements of sections J and Q of the current MOTORSPORT UK Yearbook. All vehicles must be of sound construction and mechanical condition and be well maintained.

As a minimum, two mirrors must be fitted, each with a minimum surface area of 50 sq cms and giving a clear view to the rear, one on each side of the centreline of the vehicle.

### 5.5: CHASSIS:

1. The chassis must be constructed from metal. Chassis components must not be constructed using carbon fibre, kevlar or composites containing these materials.
2. At the rear of the driver/passenger space, the chassis must be at least 76.2cm (30in) wide to the inside of the chassis panels such that it must be possible to drop into the driver/passenger space through the driver/passenger space opening at right angles to the longitudinal centre line of the car an inverted 'U' shaped member with legs 76.2cm (30in) apart (measured over the outside of the legs) held vertically so that the difference in height of the legs does not exceed 76mm (3in) when one of the legs is on the lowest floor level.
3. The longitudinal centre line of the driver's seat must be at least 17.8cm (7in) from the longitudinal centre line of the car.
4. The passenger space, must be large enough to accept fully a trapezoidal volume with front and rear faces lying on two planes, both perpendicular to the longitudinal centre line of the car and separated by 70cm (28in). The front face should be a rectangle measuring 15cm (6in) wide and 25.4cm (10in) high. The rear face should be a rectangle measuring 27.9cm (11in) wide and 25.4cm (10in) high. Nothing may be located in the passenger space except a fire extinguisher and any ballast required to comply with the minimum weight regulation.
5. The driver/passenger space must be clear of and not divided by any chassis members other than those forming the propshaft tunnel in front engined cars, roll over bar braces or for location of the gear change linkage in rear engined cars. Cars that do not have a transmission tunnel may have a vertical, longitudinal bulkhead

between the driver and the passenger space. This must be no more than 2.5cm wide and no more than 30cm high.

### 5.6: BODYWORK:

#### 1. Modifications Permitted:

##### 1. Cockpit:

- i) There must be only one cockpit opening to serve both driver and passenger space. The opening must be large enough to accept, with its longest side transversely at the rear of the opening, a horizontal quadrilateral frame with hinged joints, one side 81.3cm (32in) long, two opposite sides 45.7cm (18in) and the fourth side 63.5cm (25in). In checking, neither rear internal angle of the quadrilateral frame may exceed 92° and neither front internal angle may exceed 120°. (See appendix i. for diagram.)
- ii) In checking the cockpit opening any obstruction caused by the bracing members for a roll over bar may be ignored.
- iii) Closed cars must provide similar unobstructed area at drivers/passenger shoulder level.

**2. Passenger space:** Any cover over the passenger space and/or forming an extension to the windscreen alongside the driver must be constructed only of supple and flexible fabric and must be easily removable, or if of a rigid material to comply with Q13.2.3.

**3. Interior:** As defined above.

##### 4. Exterior:

- i) Aerofoil devices ahead of the front wheels are permitted, but must be below the top of the front wheel rims and not exceed in width the centre line of the front tyres. They must form a continuous part of the bodywork.
- ii) A rear aerofoil is permitted. Chord must not exceed 30cm (11.8in). Maximum width to be full body width or outermost track whichever is the greater.
- iii) Any rear aerofoil or bodywork must not overhang the rear of the vehicle by more than 70cm (27.5in) measured from the centre line of the rear wheels. The height of any bodywork or aerofoil must not exceed 90cm (35.4in) with the driver aboard, measured from the ground, excluding safety roll over bars, or bodywork of closed cars between the centre line of the front and rear wheels.
- iv) Any forward facing horizontal splitter attached to the lowest edge of the front bodywork may not exceed the maximum overall width of the wheels or bodywork whichever is the greater.

**5. Silhouette:** Not applicable.

**6. Ground Clearance:** As per MOTORSPORT UK regulation J5.20.11. Cars failing this ride height check on wets may be fitted with wheels and slick tyres as specified in 5.13 of these Regulations for the purpose of the ride height check.

#### 2. Modifications Prohibited:

1. **General:** Any in contravention of 5.6.1.
2. **Interior:** Any in contravention of 5.6.1.
3. **Exterior:** There shall be nothing to obstruct wholly the driver's sight from the normally seated position of another car to the front or either side.
4. **Silhouette:** Any in contravention of 5.6.1.
5. **Ground Clearance:** Any in contravention of 5.6.1.

### 5.7: SUSPENSIONS:

Suspension systems are free, subject to MOTORSPORT UK regulations and with the following exceptions: Suspension components must not be constructed using carbon fibre, kevlar or composites containing these materials.

### 5.8: ENGINE:

The engine must be a Fiat FIRE engine of 1108cc capacity and the only parts permitted are those originally fitted to the 1108cc FIRE engine or pattern parts to the same design and made of the same materials as the standard Fiat part fitted to the engine specified above.

The cylinder head must be a standard FIAT component bearing the casting number 46400108, located above number 2 exhaust port.



Two camshaft cover bolts (one on each side of the engine) must be drilled to allow the engine to be sealed by the Scrutineers. Two sump bolts (one each side of the engine) must be drilled to allow the engine to be sealed by the Scrutineers. The two sump bolts should be longer than standard so that they protrude above the sump flange block and be drilled in the extended thread area so as to ease access by the Scrutineers.

The only modifications permitted are those listed below. It is the competitor's responsibility to ensure that no prohibited modifications have been carried out whether or not they have assembled the engine.

### 1. Modifications Permitted:

i) Either the standard ferrous Fiat flywheel or a steel flywheel must be used. If the standard ferrous Fiat flywheel is used it can be modified by the removal of material only and the original manufacturer's logos must be visible on the engine side of the flywheel. If the original manufacturer's logos have been removed the flywheel must have a minimum mass of 3.5 kg. The standard Fiat ring gear must be mounted directly and solely on the Fiat flywheel. The clutch cover must be bolted to the Fiat flywheel.

If a steel flywheel is used it must have a minimum mass of 3.5 kg and the same ring gear dimensions as the standard Fiat item. The clutch cover must be bolted directly to the steel flywheel.

- ii) Lubrication system is free and may be either dry or wet sump.
- iii) Clutch Pressure plate must have a minimum diameter of 180mm or be as is/as has been fitted as standard to a Fiat FIRE engine; friction plate is free.
- iv) Rebore permitted up to + 0.6mm using standard pattern pistons only. The wear allowance on bores is 0.2mm measured at the maximum point of piston ring travel.
- v) Replacement of valve guides and valve seats is permitted with parts of standard pattern and material. Valve seat inserts must not protrude beyond the combustion chamber surface.
- vi) Metal may be removed from the crankshaft, pistons and connecting rods for balancing purposes only. In the case of pistons and connecting rods, one component must be left with completely original machining. The crankshaft can be balanced by local grinding or spot drilling only and at least one counterbalance weight must remain as standard.
- vii) Facing of the head and block is permitted within the constraints of the standard cam belt and pulley system. No other modifications to the cylinder head are permitted.
- viii) Removal of the original mounting lugs from the outside of the block is permitted for the sole purpose of facilitating engine installation.
- ix) The only permitted camshaft is the item supplied by Newman Cams (see appendix ii. of these regulations); the serial number of the camshafts must be notified to the 750 Motor Club on the championship registration form. The last 10mm of control camshaft lobes may be reduced in width to a minimum of 22.15 mm. Valve springs and shims are free but only single springs may be used and spring seats may not be machined. Offset dowels or Vernier camshaft pulley are permitted.
- x) The cylinder head may be drilled and tapped (or helicoiled) and plugged to blank the water take-off for the inlet manifold.
- xi) Helicoil inserts are permitted to repair damaged threads in cylinder block and cylinder head.
- xii) Three angle valve seats are permitted on the valve seat inserts. The valves must retain the standard Fiat shape and profile.
- xiii) Engine fasteners are free subject to being ferrous.
- xiv) Core plugs may be retained by mechanical fastening.
- xv) The standard method of locating the crank pulley to the crank may be modified for the sole purpose of locating the pulley more securely.

### 2. Modifications Prohibited:

Any not listed in 5.8.1 including but not limited to:

- Polishing or removal of metal from the inlet or exhaust ports.
- Polishing, removal or addition of material from/to the combustion chamber.
- Polishing of connecting rods.
- Reprofilng of camshafts or regrinding of camshafts from blanks
- Use of electric water pumps; the standard water pump must be used
- Lightening of engine components with the sole exception of the flywheel.

### Other engine regulations

**3. Location:** Front or rear.

**4. Oil/Water cooling:** Free within overall periphery of bodywork. Water based coolant must be used.

**5. Induction Systems:** Carburetion shall be by only one carburettor choke. Forced induction, fuel injection and external slide throttles are prohibited. Throttle operation must be solely under the control of the driver. Other than opening or closing the throttle, the carburettor may not be adjusted while the vehicle is in motion either by mechanical or electrical means.

**6. Exhaust systems:** Exhaust systems including manifold are free but must comply with MOTORSPORT UK regulations J 5.16.1 – 5.16.5.

**7. Ignition systems:** Only ignition systems that use only one trigger, inside the distributor or external, to initiate the low tension current will be permitted. Any system that requires more than one sensor or input to provide another signal/voltage for any electronic/microprocessor control system is not permitted. The use of any electronic traction control system is prohibited.

**8. Fuel delivery systems:** Free.

### 5.9: TRANSMISSIONS:

Gear selection and clutch operation must be solely under direct control of the driver. The gear linkage and clutch system must be purely mechanical (hydraulic clutch systems are permitted).

With the exception of a sensor to establish the gear position so it may be displayed to the driver, no electrical connections, switches or sensors may operate on any part of the clutch or gear controls or linkages. If a gear position sensor and display are fitted, they must use a discrete loom whose only common connection to other electrical systems may be at the power supply.

Magnesium alloy bell housings and gearbox casings are prohibited.

At least two mounting bolts must be drilled so that the gearbox can be sealed to the engine by the Scrutineers for inspection of the gearbox and the flywheel.

Automatic transmissions are prohibited. Torque biasing, locked or limited slip differentials are all prohibited.

Only the rear wheels may be driven, either a) via a live rear axle or b) via a trans axle.

### A. Live rear axle

A bevel-driven, live rear axle from a series production car must be the sole means of driving the rear wheels.

**1. Permitted modifications:** It is permitted to add brackets for mounting suspension and/or braking systems. The axle may be modified to accept longer or shorter half shafts.

**2. Prohibited modifications:** Magnesium differential casings are prohibited.

**3. Transmissions & Drive ratios:** The gearbox must not contain more than four forward gears and one reverse gear. Cars must have an operable reverse gear and all gears must be capable of being engaged by the driver whilst normally seated. Gearbox and axle ratios are free.

### B. Transaxle



For all cars not using a live rear axle, a five speed synchromesh transaxle as fitted to a transverse engine car must be the sole means of driving the rear wheels. The transmission must be mounted to the engine in its original *plane* such that the gearbox mainshaft axis must remain in line with the engine main bearings axis.

**1. Permitted modifications:** The gearbox may be rotated relative to the engine about the crankshaft axis; a spacer of up to 12mm may be used between engine and gearbox to facilitate this.

**2. Transmissions & Drive ratios:** The gearbox must not contain more than five forward gears and a reverse gear all capable of being engaged by the driver whilst normally seated. Gear box and axle ratios are free. For all cars not using a live rear axle, a synchromesh transaxle as fitted to a transverse engine car must be the sole means of driving the rear wheels

### 5.10: ELECTRICS

**1. Exterior Lighting:** Not applicable.

**2. Rear Warning Light:** An LED rear fog light to EU regulation 7, an FIA homologated LED rear warning light, or an LED stop light to EU regulation 38 is mandatory and must be mounted in accordance with MOTORSPORT UK regulations.

**3. Batteries:** An electrically powered starter motor and battery are mandatory. The starter motor must be operable by the driver whilst normally seated. The battery must be capable of repetitive starts.

**4. Generators:** A charging system is optional.

### 5.11: BRAKES

**1. Permitted Modifications:** Free, subject to 5.11.2.

**2. Prohibited Modifications:** ABS is not permitted.

### 5.12: WHEELS / STEERING

**1. Permitted Options:** Free.

**2. Prohibited Options:** Any in contravention of MOTORSPORT UK regulations.

**3. Construction & Materials:** Free.

**4. Dimensions:** Free.

### 5.13: TYRES

The use of tyre heating/heat retention devices, tyre treatments and compounds is prohibited.

**1. Wet Tyres:** Wet tyres are free but as a minimum the tread pattern must have at least four circumferential grooves of at least 7mm width equally spaced across the tyre and of minimum 1.6mm depth or be a full wet pattern as defined in appendix iii. Wet tyres must be fitted to wheel rims up to a maximum width of 8 inches.

**2. Slick Tyres:** Slick tyres must be the YOKOHAMA radial, size 160/520/R13, code no: N2669. Size and code numbers must be clearly visible.

### 5.14: VEHICLE WEIGHT:

All cars are subject to a minimum weight of 480kg including driver. Ballast (if required) must be fitted in accordance with MOTORSPORT UK regulations J5.15.1 to J5.15.4.

### 5.15: FUEL TANK / FUEL

**1. Types:** Free. A non-return valve must be incorporated in the vent system.

**2. Locations:** Free, subject to MOTORSPORT UK regulations.

**3. Fuel:** Only petrol as defined in Section B Nomenclature & Definitions, Pump Fuel a) section of the MOTORSPORT UK Yearbook for the current year and complying with BS4040, BSEN228 or BS7800 may be used; fuel which exceeds the stated RON (max) levels in Appendix 1 of Section B Nomenclature & Definitions is prohibited even if it is sold/promoted as being legal for UK Competition and/or obtainable from 'roadside' pumps. The use of additives by competitors which boost the octane rating (RON) in any petrol is prohibited. At the end of practice and the race at least 3 litres of petrol from the tank of the competing car must be available

to the scrutineers for analysis. Compliance with minimum weight for the car will be taken before the petrol is removed.

### 5.16: SILENCING:

All vehicles must comply with the relevant maximum noise limits set out in MOTORSPORT UK Blue Book regulation J. Chart 5.18.

### 5.17: NUMBERS & CHAMPIONSHIP DECALS

**1. Positions:** Race numbers must be displayed on each side of the vehicle alongside the cockpit/driver and as far forward on the front of the vehicle as possible. 750 Motor Club decals must be affixed prominently near all number backgrounds. Championship Sponsor's decals (where applicable) must be affixed in or near the positions detailed on the diagram supplied with those decals. 750 Motor Club and Championship Sponsor's decals must take preference to any other decals. Failure to comply will render the vehicle and driver ineligible to race. No decals other than those issued or approved by the 750 Motor Club are permitted. Those currently approved by the Club are:-

BWRDC	750Formula.co.uk
EBC Brakes	Registered Charities
Driver name & blood group	Make & model of car

Additionally, cars in Class C may carry the name of the College on the vehicle.

**2. Suppliers:** Sponsors and Club decals will be available at the first championship race in which the vehicle is entered.

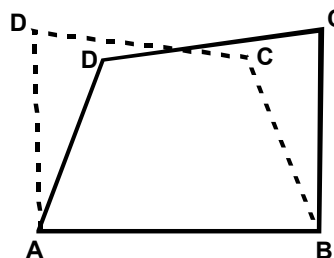
## 6. APPENDICES:

### Appendix i. Diagram re cockpit opening (NOT to scale)

ABCD represents the horizontal quadrilateral frame with hinged joints (referred to in 5.6.1.(i)) which has to fit into the cockpit opening. The solid and dotted lines show the frame at the extreme positions, dictated by the internal angles.

Dimensions of the frame are:

AB = 81.3 cms; BC & AD = 45.7 cms; CD = 63.5 cms.



### Appendix ii. Camshaft supplier

Cams are available through the club. Please contact:

Giles Groombridge,  
Competitions Manager  
The Seven Fifty Motor Club  
Donington Park  
Castle Donington  
Derbyshire  
DE74 2RP  
Tel: 01332 814548

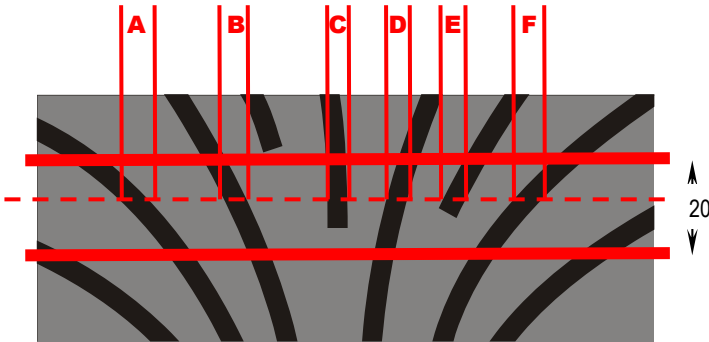
### Appendix iii. Wet tyre pattern

Any wet tyre must have a recognisable tread pattern. This tread pattern is the combination of plain surfaces and grooves extending across the breadth of the tread and round the entire circumference.

The total width of the grooves within the tread pattern when measured across any line within a 20mm circumferential length of the part of the tyre which can contact the road and is parallel to the

rotating axis of the tyre and wheel must account for at least 15% of the width of the tread and be at least 1.6mm deep. The orientation of the grooves does not necessarily have to be at 90° to the rotating axis of the wheel/tyre.

i.e. 
$$\frac{(A+B+C+D+E+F)}{\text{Tread Width}} \times 100 \Rightarrow 15\%$$



#### Appendix iv. Engine Dimensions

All dimensions in millimetres

Bore	70
Stroke	72
Maximum overbore	Subject to 5.8.1(iv)
Minimum valve stem diameter (non waisted section)	6.95
Minimum valve stem diameter (waisted section)	6.10
Cam follower diameter	34.975-34.995
Inlet valve head size	31.2-31.5
Exhaust valve head size	27.2-27.5
Valve shim thickness	3.2-4.7
Top piston ring width	1.175-1.19
Middle piston ring width	1.175-1.19
Bottom piston ring width	2.475-2.49

New chassis & bodywork are being built for 750 Formula by Martin Kemp  
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 Website: [www.racekits.co.uk](http://www.racekits.co.uk)

