

### 1: SPORTING REGULATIONS - GENERAL

#### 1.1: TITLE & JURISDICTION:

The 750 Trophy Series is organised and administered by the 750 Motor Club Ltd in accordance with the General Regulations of the Royal Automobile Club Motor Sports Association (incorporating the provisions of the International Sporting Code of the FIA) and these Series Regulations.

#### 1.2: OFFICIALS:

- Co-Ordinator:** R.G.Knight, Rose Farm, Upper Street, Oakley, Diss, Norfolk. IP21 4AX. (☎ 01379 741641; ✉ 750MC@btconnect.com).
- Eligibility Scrutineer:** Any eligibility scrutineer at a race meeting.
- Series Stewards:** K.Messer. D.Wells. R.Armstrong. I.Watson.  
Any three of the above may constitute a Stewards' Panel of Enquiry

#### 1.3: COMPETITOR ELIGIBILITY:

- Entrants must be fully paid up valid membership card holding members of the 750 Motor Club Ltd and possess a valid current year's MSA Entrants Licences.
- Drivers must be fully paid up valid membership card holding members of the 750 Motor Club Ltd, be registered for the Series and hold a valid MSA 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 **H26.2.1**.
- All necessary documentation must be presented for checking at all rounds when signing-on.

#### 1.4: REGISTRATION:

- All drivers must register for the series 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 is £75.00 payable to the 750 Motor Club upon registration.
- Registrations will be accepted from 1st January 2010 until the closing date for the last round of the series.
- Registration numbers will be the permanent Competition number for the Series.
- If any competitor wishes to change to a different car from the one originally registered for the series, a completed registration form must be sent to the Co-ordinator.

#### 1.5: SERIES ROUNDS:

The **750 Trophy SERIES** will be contested over the following rounds:

Date	Circuit	Round/s
Apr 4	Mallory	2
Jun 20	Brands	1
Jly 11	Cadwell	2
Jly 31/Aug 1	Pembrey	2
Aug 29	Silverstone	1
Oct 17	Mallory	2

#### 1.6: AWARDS:

- All awards are to be provided by the Organising Club unless agreed otherwise.
- Awards Per Round:**  
Awards for 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> overall plus 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> for Class A (A7 Triple Challenge cars).  
Awards of 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> in class will be given, unless the recipient is entitled to an overall award, subject to the number of starters as follows:-  
2 to 4 starters - 1<sup>st</sup> in Class only  
5 to 7 starters - 1<sup>st</sup> and 2<sup>nd</sup> in class only  
8 or more starters - 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> in class
- Presentations:** Garlands and trophies are to be provided for presentation at the end of each race.
- Entertainment Tax Liability:** Not applicable.
- Title to all Trophies:** In the event of any provisional results being revised after any provisional presentations and such revisions affecting the distribution of any awards, the competitors concerned

must return such awards to the Co-ordinator in good condition within 7 days.

### 2: SPORTING REGULATIONS - JUDICIAL PROCEDURES

#### 2.1 Rounds:

In accordance with **Section C** of the current year's MSA Yearbook and 4.2.2. of these regulations.

### 3: SPORTING REGULATIONS – RACE MEETINGS & RACE PROCEDURES

#### 3.1: ENTRIES:

- Competitors are responsible for sending in correct and complete entries with the correct entry fees prior to the close of entry dates as per the entry forms.
- 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.
- Any withdrawal of entry or driver/car changes made after acceptance of any entry must be notified to the Secretary of the Meeting in writing. If driver/vehicle changes are made after the publication of Entry Lists with Final Instructions, the Competitor concerned will be accepted in accordance with **D25.1.12**.
- The entry fee for each round will be as per the Supplementary Regulations.
- In the event of any rounds being oversubscribed the Organising Club may, in liaison with the Series Co-ordinator, at their discretion run Qualification races. For Qualification Race procedures see 3.13 of these regulations.
- Reserves are to be nominated on the Final List of Entries published with the Final Instructions or Amendment Sheet Bulletins. Reserves will practice and replace non-qualified (including drivers practising out-of-session or qualifying by virtue of having raced at the circuit within the previous 12 months), withdrawn or retired entries in Reserve Number order irrespective of class. If reserves are given Grid Places prior to issue of the first Grid Sheets for any round, the times set in practice will determine their grid positions. If Reserves are given places after publication of the grid sheet and prior to cars being collected in the Official "Assembly Area" they will be placed at the rear of the grid and be started without any time delay. Otherwise they will be held in the Pitlane and be released to start the race after the last car to start the Green Flag Lap or last car to take the start has passed the startline or pitlane exit whichever is the later. Such approval to start **MUST** be obtained from the Clerk of Course.

#### 3.2: BRIEFINGS:

Organisers must notify competitors of the times and locations for all briefings in the Final Instructions or Official Race Day Bulletins for the meetings. Competitors must attend all briefings.

#### 3.3: PRACTICE:

Practice sessions will be as per MSA Regulations **Q4.5**. Should any practice session be disrupted, the Clerk of the Course shall not be obliged to resume the session or re-run sessions to achieve the championship criteria and the decision of the Clerk of the Course shall be final.

#### 3.4: QUALIFICATION:

Each driver should complete a minimum of 3 laps practice in the car to be raced and in the correct session in order to qualify for selection and order of precedence as set out in MSA regulations **Q4.5**. Drivers practising out-of-session or qualifying by virtue of having raced at the circuit within the previous 12 months will be placed at the back of the grid. The Clerk of the Course and/or Stewards of the Meeting have the right to exclude any driver whose practice times or driving are considered to be unsatisfactory - as per MSA Regulation **Q4.5**.

#### 3.5: RACES:

The standard minimum scheduled race distance will be 13 minutes plus 1 lap.

### 3.6: STARTS:

Unless modified by the Organising Club's Standing Regulations, the following regulations will apply:-

1. There will be a minimum elapsed period of 3 minutes from cars being released from the Assembly Area to the start of the race or, if applicable, the green flag lap.
2. Start Procedure: In normal circumstances there will be no green flag lap. A 'two minute' board will be shown on the startline; engines should be started at this stage and the grid cleared of any pit crew. A 'one minute' board will be shown, followed by a '30 second' board; a '5 second' board will be displayed; approximately 5 seconds after this board is withdrawn the red lights will be switched on; after between 2 seconds and 7 seconds they will be switched off to start the race. In the event of the failure of these lights a National Flag will be used to start the race.

In circumstances where a green flag is used, it will be waved from the startline to commence the green flag lap. The pole position driver should set a reasonable pace during this lap and slow down on approaching the startline to allow the grid to close up. Drivers should resume their correct grid positions with the minimum of delay. Any drivers unable to start the green flag lap or start the race are required to indicate their situation as per MSA regulation **Q12.13.2**. Drivers may make up any lost grid position during this green flag lap, BUT any drivers unable to maintain grid position 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.

A '5 second' board will be displayed when the grid is stationary. Approximately 5 seconds after this board is withdrawn the red lights will be switched on; after between 2 seconds and 7 seconds they will be switched off to start the race. In the event of the failure of these lights a National Flag will be used to start the race.

3. Any car removed from the grid or driven into the pits after leaving the Assembly Area will be held in the pitlane and may start the race after the last car to take the start from the grid has passed the startline or pit exit lane whichever is the later.

4. Excessive weaving to warm-up tyres - using more than 50% of the track width - and falling back in order to accelerate and practice starts, is prohibited.

### 3.7: RACE STOPS:

As per **Q5.4.3** of the current MSA Yearbook.

### 3.8: RE-SCRUTINY:

All vehicles reported involved in contact incidents during races or practice must be re-presented to the Scrutineers before continuing in the races or practice.

### 3.9: PITS AND PITLANE SAFETY:

1. Pits: Entrants must ensure that the MSA, Circuit Management and Organising Club Safety Regulations are complied with at all times.
2. Pitlane: The outer lane or lanes are to be kept unobstructed to allow safe passage of cars at all times. The onus will be on all drivers to take all due care and drive at minimum speeds in pit lanes.
3. Refuelling may only be carried out in accordance with the MSA Regulation **Q13**, Circuit Management regulations and the SRs or Final Instructions issued for each Circuit/Meeting.

### 3.10: 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 pitlane entrance as instructed, comply with any directions given by Marshals or Officials and to keep their helmets on and harnesses done up while on the circuit or in the pitlane.

### 3.11: RESULTS:

All Practice timesheets, grid sheets and 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.

### 3.12: TIMING MODULES:

The 750 Motor Club utilises AMB transponder-based timing and competitors **must** have a compatible transponder fitted and advise the race organisers of its number prior to the event. The transponder

is a TRANX 260 Direct Powered and is available from HS Sports Ltd – 01260 275708.

### 3.13: CANCELLED/ABANDONED RACES:

There may be occasions when, due to circumstances on the day, a scheduled race is not run, a race meeting is abandoned or the circuit curfew is reached. The 750 Motor Club will use its best endeavours to find space in another race meeting in the same season in order to run a replacement championship round; preference will be given to a race meeting where the affected formula is already scheduled to race. No change of vehicle or class will be permitted without the permission of the Championship Stewards and then only in exceptional circumstances.

#### A: The qualifying session for a race/s does not take place.

Entry for the replacement race will be restricted to those who were 'signed on' for the race which is being replaced. A separate qualifying session will normally be held. If no space can be found for a replacement race, the number of championship scoring rounds will be adjusted accordingly.

#### B: The qualifying session for a race/s has taken place, but the race did not come under starters orders.

Entry for the replacement race will be restricted to those who were qualified for the race which is being replaced; the grid for the cancelled race will be used for the replacement race. If no space can be found for a replacement race, the number of championship scoring rounds will be adjusted accordingly.

#### C: A race is 'red flagged' before the leader has completed two laps, but there is no time available to implement the relevant section of MSA regulation **Q5.4.1**.

The replacement race will be in accordance with the relevant section of MSA regulation **Q5.4.1**. If no space can be found for a replacement race, the number of championship scoring rounds will be adjusted accordingly.

#### D: A race is 'red flagged' after the leader has completed two laps but less than 75% of its duration, but there is no time available to implement the relevant section of MSA regulation **Q5.4.2 & 3**.

If the Clerk of Course decides that a replacement race should be run it will be in accordance with the relevant section of MSA regulation **Q5.4.2 & 3**. If no space can be found for a replacement race, a result will be declared retrospectively based on the order of crossing the finish line at one lap less than at the first time of the showing of the red flag and only cars which were under their own power at the showing of the red flag will be classified.

**If a race is 'red flagged' twice** and the second red flag is before the leader has completed two laps, the Clerk of Course may decide to rerun the race on the same day subject to circuit curfew but is not obliged to do so. If the decision is taken that it should not be rerun on the day or it cannot because of circuit curfew, it will be considered an abandoned race and the number of championship scoring rounds will be adjusted accordingly.

## 4: EVENT RACE PENALTIES:

### 4.1: INFRINGEMENT OF TECHNICAL REGULATIONS:

1. Arising from post-practice scrutineering or judicial action: Should a vehicle be found ineligible, the Clerk of Course will impose the penalty set out in MSA Regulation **C3.3**.
2. Arising from post-race scrutineering or judicial action: Should a vehicle be found ineligible, the Clerk of Course will impose the penalties set out in MSA Regulation **C3.5.1 a & b** and may impose the penalty set out in MSA Regulation **C3.5.1 c**.
3. Additional specific Championship penalties: See 4.2.2.

### 4.2: INFRINGEMENT OF NON-TECHNICAL MSA REGULATIONS and the Sporting Regulations issued for the Championship:

1. In the case of a driver being excluded from a race, the Clerk of Course will impose the penalties set out in MSA Regulation **C3.5.1 a & b** and may impose the penalty set out in MSA Regulation **C3.5.1 c**.
2. 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.

**3.** The Clerk of Course may impose a 'Stop-Go' or 'Drive through' penalty during a race, in accordance with MSA Regulation **Q12.6**.

**4.** 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 licence in accordance with MSA regulations, will receive a grid slot penalty at the next round in which they compete following the allocation of penalty points, equal to the number of penalty points which were allocated. Double headers will be considered as two separate rounds; however if the decision to allocate penalty points is delayed such that further round/s of the Championship have taken place since the offence, the grid slot penalty will be implemented at the next round in which they compete after the allocation of the penalty points. The penalty will mean that a Competitor will be moved back grid slot places from their grid position (e.g. if a Competitor with a three grid slot penalty had a qualifying time that was good enough for pole position then the Competitor will start fourth on the grid). If for any reason the imposition of this grid penalty is impractical (such as the competitor's qualifying time, starting from the pitlane etc) or the offence occurs at the final meeting of the season, a time penalty of 5 seconds will be added to the elapsed race time of the competitor.

## 5. TECHNICAL REGULATIONS

### 5.1 INTRODUCTION:

The following technical regulations are set out in accordance with the MSA 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. The fact that some modifications are mentioned as prohibited does not imply that others are allowed.

Anyone considering constructing a new car for this formula should contact the Series Co-ordinator to ensure that the concept complies with these regulations.

Cars already registered with, and competing in the 750 Trophy will be allowed to compete as long as they conform to the regulations pertinent at the time when they last competed. Newly constructed cars will be allowed as long as they are replicas of cars already eligible, or a very close copy. All newly built cars must use technology and wherever possible materials which were readily available between 1930 and 1974, relevant to the era of the car being copied.

### 5.2 GENERAL DESCRIPTION:

The 750 Trophy Series is for cars based on the side-valve Austin 7 and other cars of similar performance. There are five classes as follows:-

**Class A:** Austin Seven sports and racing cars with narrow section tyres conforming to these regulations, plus former A7 Triple Challenge cars as per section 6.1 of these regulations.

**Class B:** Austin Seven sports and racing cars with wide section tyres (Historic type cars) PLUS Austin Seven engined 750 Formula type cars as conforming to these regulations.

**Class C:** Non-Austin Seven engined cars such as 1172 cc side-valve Ford front engined cars, Reliant engined pre-1974 750 Formula cars, other vintage, PVT, Historic and Classic cars up to 1200cc, Formula Junior cars, BMC A Series, Ford OHV cars at the discretion of the Series Coordinator.

**Class D:** Historic 500cc racing cars which conform to the Eligibility and Originality Regulations of the 500 Owners' Association for the current year.

**Class I:** An invitation class which includes Historic Formula Vee cars (1300cc, single carburettor, single port head, fan cooled, drum brakes, tyres to MSA List 1A) plus other cars which, whilst not complying with the technical regulations are from the correct era or comply with the spirit of the Series. If it is found that the performance of 'Invited' cars is excessive in comparison to the other cars, the organisers reserve the right to withdraw that invitation.

### 5.3 SAFETY REQUIREMENTS:

All newly built (as against restored) cars must comply with the relevant paragraphs of the MSA Safety Regulations in the current Yearbook, section **K 1.6.2, 1.6.4 – 1.6.6; Appendix 1 Table 3, 3.1.1; 5.1, 5.2, 6; 8 – 13**. Regard should also be paid to recommendations in section **14.1 – 14.3**.

All cars regardless of class, must comply with the relevant paragraphs of the MSA Safety Regulations in the current Yearbook, section **K Appendix 1 Table 3, 3.1.1; 5.1, 5.2, 6; 8 – 13**.

Class C cars must also comply with section **K 1 – 13**. Seat belts, if fitted, must be FIA homologated.

Towing eyes must have a minimum internal diameter of 60mm; as an alternative a looped strap of suitable material may be bolted to the chassis. This does not apply to single-seater cars.

### 5.4 General Technical Requirements and Exceptions:

All cars must comply with the requirements of sections **J** and **Q19** of the current MSA Yearbook. All vehicles must be of sound construction and mechanical condition and be well maintained.

In all classes, modern type superchargers or turbo chargers are not acceptable. Fuel injection is not allowed. The use of disc brakes is not allowed unless the car when originally built was fitted with them.

**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:

**Class A:** Based on the Austin Seven A frame chassis with top hat section side members and original type front forging or a near copy of similar overall dimensions. The side members may be 'boxed' or plated in at the bottom but not 'debrimmed' or drilled for lightness. No additional bracing members (space frame) may be added.

**Class B:** The chassis is to have as the main longitudinals, the side members of a pre 1939 Austin Seven. These top hat sections may be de-brimmed and boxed by welding plates to the underside; steel section body formers or a tubular space frame superstructure may be added.

**Class C pre '74 750 Formula cars:** The chassis is to have as the main longitudinals, either the side members of a pre 1939 Austin Seven, (the top hat sections may be de-brimmed and boxed by welding plates to the underside) or, alternatively, 2"x 2"x 16 swg square section steel tubes of at least 52" length. To either type a tubular space frame superstructure may be added.

### 5.6 Bodywork:

**1. General:** Bodywork, for all classes of car, to be constructed in a safe and workmanlike manner and presented in a clean and tidy condition. There is no requirement for mudguards on non single-seater cars except to prevent contact between the driver's arm/s and the tread of any tyre, whilst normally seated in the driving seat. Classes A & B must have a windscreen or aeroscreen fitted in a normally erect position.

**2. Class A:** Bodywork, which may be original or new, is to be based on the styles produced by the Austin Motor company for both production and works competition cars and contemporary pre-1939 Austin 7 based cars with bodies produced by other manufacturers or individuals. This covers single seater, two seat and four seat types. Fibreglass replica body parts are acceptable.

**3. Class B:** Bodywork may either be as for Class A or may be of either abbreviated or full width styles, one off special bodies of similar type or two Seater sports/sports - racing type. The cockpit must measure at least 32" wide x 28" from front to back.

**4. Class C pre '74 750 Formula cars:** As MSA Vehicle Regulation with the following additional requirements. There shall be only one cockpit space for both driver and passenger, the opening of which shall be large enough to accept a horizontal quadrilateral frame with hinged joints and one side 32" long, two opposite sides 18" and the fourth side 25". In checking the cockpit opening any obstruction caused by roll bar supports or fire extinguisher may be ignored.

**5. Passenger Seats/space for sports cars (classes A & B):** Passenger seats need not be carried in any of the above classes. The passenger seat space must be suitable for an adult and remain clear apart from the intrusion of a fire extinguisher or removable roll-over bar support struts if fitted.

**6. Ground clearance:** As per MSA Regulations **J5.20.11**.

**7. Aerodynamic devices:** Wings or ground effect devices are not allowed.

### 5.7 ENGINES:

**Class A:** The engine must be based on the pre-1939 Austin Seven 747 cc. side valve design. The crankcase and cylinder block must be of the Austin design and manufacture or identical pattern part. Two and three bearing Austin crankcases are acceptable and crankshafts and con rods only from the 747 cc Reliant side valve engine may be used in the three bearing Austin crankcase, as may replica 1 1/2" or 1 5/16" replacement A7 crankshafts and rods made by Phoenix or other suppliers. Replacement rods and pistons including Renault 4 rods and pistons may be used. The engine must have a stroke of 3 inches and a bore of not exceeding 0.083" oversize to suit standard Renault 4 pistons or their equivalent. Non Austin oil pumps and water pumps may be fitted. Overhead valve conversions are banned except for the vintage LAP OHV conversion. Pre 1939 type superchargers only are allowed (vane or early Rootes type). Turbochargers are not allowed. Single or multiple 'period type' carburettors are allowed. Modern type single or twin choke carburettors not allowed. Fuel injection is not allowed. De-Siamesing of the inlet ports is not allowed. Only ignition systems that use only one trigger, inside the distributor (or magneto) 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 will not be permitted. Camshaft free - Austin gear drive to be retained.

**Class B:** Dimensions, parts and tuning modifications as for Class A but de-siamesed inlet ports allowed; carburetion free. Reliant 747 cc side valve crankcase crankshaft and con rods may be used. Reliant blocks and cylinder heads may not be used, except on an Austin 7 crankcase. Camshaft may be chain driven.

**Class C pre '74 750 Formula cars:** The engine may be (a) Reliant OHV 642cc, (b) Reliant 747cc sidevalve, (c) 747cc sidevalve Austin 7, (d) Reliant OHV 748/850cc or (e) Coventry Climax 750cc.

If the Reliant OHV 642cc engine is used, it must have a standard cylinder head casting and standard cylinder block/crankcase. The standard stroke of 2.4 inches must not be altered, nor must the bore exceed 2.28 inches giving a capacity of 642cc. Forced Induction (ie supercharging) is only permitted on engines (b) and (c) above, ie the sidevalve engines. The camshaft is free provided that it remains in the manufacturer's original position and is the sole means of operating the valves. There must be no more than two valves per cylinder, and the valves must remain parallel to each other. Carburetion shall be by only one carburettor choke. Fuel injection and external slide throttles are prohibited. The capacity of either of the sidevalve units must not exceed 803cc; OHV or OHC conversions are not allowed. 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 will not be permitted.

If the Reliant OHV 748 or 850cc engine is used, all parts must be standard Reliant, the cylinder head may be from any OHV Reliant; porting is permitted and compression ratio may be increased; on the 850cc any standard camshaft from any Reliant engine may be utilised - reprofiling/regrinding is not permitted; on the 748cc the camshaft is free; camshaft timing is free; cylinder block, liners and pistons to be standard Reliant; carburetion shall be by only one carburettor choke on an inlet manifold of free design - alternatively a standard Reliant SU carburettor on a standard Reliant manifold may be used; no restrictor plate is required on either carburettor. Exhaust manifolds are free. Oil system free, either wet or dry sump. 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 will not be permitted.

**Coventry Climax 750cc:** All parts must be standard and unmodified, with the exception of the flywheel which is free. Compression ratio may not be increased. Oil system free, either wet or dry sump. Carburetion shall be either by:- only one carburettor choke on a free inlet manifold, or two 1 1/4" SU carburettors on a modified standard inlet manifold. 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 will not be permitted.

### 5.8 Suspensions:

**Class A:** The rear axle is to be an Austin Seven with torque tube. The axle is to be suspended on quarter elliptic springs attached to the rear ends of the 'A' frame. The front axle is to be an Austin Seven rigid beam or lowered sports type Austin Seven beam type suspended on a transverse leaf spring. Front and rear shock absorbers are to be friction type or early lever hydraulic type. The wheelbase may be 6'3" or 6'9". The front track should be 3'4" and the rear track 3'4" or 3'7" as appropriate to the wheelbase.

**Class B:** The rear axle may be Austin Seven, Big 7 or BMC A' Series live axle suspended on quarter elliptic springs mounted to the rear ends of the side members or immediately on top of them or suspended on coil springs. Rear shock absorbers are free. Additional rear axle location arms are allowed. Front suspension may be by beam axle, independent swing axle or wishbones, springing medium and shock absorbers are free. No track restriction.

### 5.9 Transmissions:

Gearbox class A & B: Pre 1939 Austin 7 types with three or four forward gears plus mandatory reverse. Replacement close ratio gears may be fitted.

Gearbox Class C pre '74 750 Formula cars: Pre 1939 Austin 7 type, Reliant sidevalve or Standard Reliant type with no more than four forward gears and reverse. Replacement close ratio gears may be fitted.

### 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 directly to the rear or the underside of the rear roll hoop, within 10cms of the centreline of the vehicle. This light must be wired to the ignition switch or master switch such that it is permanently illuminated when the ignition or master switch is on.
3. Batteries: 6 or 12 volt types allowed. Starter motors - an electrically powered starter motor may be used and is recommended but not mandatory.
4. Generators: not required.

### 5.11 Brakes - Classes A & B:

1. The brakes are to be 7" diameter drum type either mechanical or hydraulic operation. Early Austin pressed steel drums are not recommended.
2. For Class B & C pre '74 750 Formula cars: a dual separate braking system is required, whether mechanical, hydraulic or combined. Disc brakes are not allowed unless the car when originally built was fitted with them.

### 5.12 Wheels/steering:

1. **Wheels**
  - (i) Class A - spoke type with Austin 7, three-stud centres. Minimum rim diameter 15". The three-stud Austin wheel attachment must be used with large, plain, heavy washers under 'locknut' wheel nuts. Original type Austin 7 brass wheel nuts and peg wheel location not allowed.
  - (ii) Class B - minimum rim diameter 13" preferably of Austin 7 type. If Austin 7 type wheel centres are used, wheel nuts and washers must be as for Class A. Austin 7 engined 750 Formula cars no restrictions.
  - (iii) Class C - no restrictions.

2. **Steering**

**Class A:** An Austin Seven steering wheel/contemporary equivalent, Austin Seven steering box or reproduction copy and column to be used. **Classes B & C:** Free.

### 5.13 Tyres:

**Class A:** Road tyres up to 145 section, racing tyres up to 5.00 section. Road or racing type low profile or soft compound tyres not allowed. Retreads not acceptable. **Cars racing under Triple Challenge regulations must use tyres as detailed in Appendix 6.8.**

**Class B & C:** Road or treaded racing type. Low profile types allowed. If 'cut' slicks are used, there must be a minimum of 3 equally spaced circumferential grooves of at least 6mm width cut to the fullness of the tread, with a minimum tread depth of 2mm. **The use of tyre heating/heat retention devices, tyre treatments and compounds is prohibited.**

### 5.14 Vehicle Weight:

(Class A & B cars only) No minimum weight.

### 5.15 Fuel tank/fuel:

A non-return valve must be incorporated in the vent system.

1. There must be a fire-proof bulkhead between the fuel tank and the cockpit.
2. Fuel lines passing through the cockpit must be rigid metal or metal braided flexible construction.
3. **Fuel:** Only petrol as defined in **Section B Nomenclature & Definitions, Pump Fuel a)** section of the MSA 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 **MSA Blue Book regulation J. Chart 5.18.**

### 5.17 Numbers and Series Decals

Race numbers must be displayed on each side of the vehicle (front doors, alongside the cockpit or on rear wing end plates) and as far forward on the front of the vehicle as possible. 750 Motor Club decals must be affixed prominently near all number backgrounds. For series with classes, class letters must be affixed near the number backgrounds. Series 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 Series Sponsor's decals must take preference to any other decals. Failure to comply will render the vehicle and driver ineligible to race. A maximum of 5 decals (in addition to Series sponsor, 750 Motor Club, car name and driver's name decals) of up to 355 sq. cms. may be repeated on opposite sides and ends of the car. These decals may not be related to form a larger name or an image.

### 5.18 Prohibited Materials:

Magnesium alloy, titanium, Kevlar and carbon fibre are prohibited. Glass fibre, plastic laminate body parts may be used.

## 6. APPENDICES

### 6.1 Austin 7 Triple Challenge cars:

1. **Description:** Austin Sevens and Austin Seven Specials of all types. There are no restrictions on tuning or chassis modification but these must not undermine the traditional look and feel of the cars.
2. **Chassis:** Must be a Pre War Austin Seven 'A' frame chassis. Both Short & Long wheelbase types are acceptable. Chassis may be lightened or strengthened and may have additional frame members added.
3. **Engine:** The engine must be based on the pre 1939 Austin Seven 747cc sidevalve type. Engines may be modified to improve performance or reliability. Non-original replacement parts – Crankshafts, Rods, Pistons, Waterpumps etc. may be fitted.
4. **Carburetion:** Single or twin carburettors of any pre-war type may be fitted, as may post war S.U.'s and Amals. Twin choke carburettors such as the DCOE Weber specifically excluded. Supercharging is allowed, using period type blowers only.
5. **Gearbox:** To be a pre 1939 Austin Seven type with 3 or 4 forward gears and mandatory reverse. Replacement close ratio gears may be fitted.

6. **Rear Axle:** Must be an Austin Seven or Big Seven type, suspended on ¼ elliptic rear springs.

7. **Wheels:** Austin Seven 3 stud type wire wheels must be fitted, washers and locknuts must replace original type brass wheelnuts. Wheel rims shall not be less than 14 inches in diameter or greater than 5 inches in width. Speedex pattern wheels are allowed on Speedex cars.

8. **Tyres:** **Any tyre, with a profile higher than 70, in the current year's MSA Blue Book List 1A or List 1B may be used and must be to MOT requirements in every respect.** Also permitted are Dunlop L or M section tyres.

**No alteration to the tyre from the manufacturer's specification is permitted. Re-cutting, re-grooving or in any other way modifying the tread pattern is not permitted. All the manufacturer's data must be clearly visible. Buffing of sidewalls to remove data is prohibited. The use of tyre heating/heat retention devices, tyre treatments and compounds is prohibited.**

9. **Prohibited Modifications:** Disc brakes, modern superchargers or turbochargers, fuel injection, microprocessor control systems and such like are not permitted.

### 6.2 Additional eligibility appendices for Class C

#### 1. Eligibility regulation for 1172 Ford SV engine cars for Class C:

A) **Chassis:** Free. Engine to be in front position, ahead of driver.

B) **Bodywork:** Two seat sports or saloon types to be constructed in a safe and workmanlike manner and be presented in a clean and tidy condition. The internal width of the cockpit must be at least 32" wide x 28".

C) **Engine:** The power unit is to be based on side valve Ford 993cc or 1172cc engine casting (Ford 8, 10 or 100E types) of any type. Modifications must not include forced induction (supercharging, turbocharging), conversion to OHV, reversal in function of the inlet and exhaust ports or the dividing of the siamesed inlet ports. Ford crankshaft to be used. Con rods are free. The standard stroke of 92.55mm must not be exceeded and the bore must not be greater than the Ford '10' 63.5mm plus 0.060" rebore allowance. Standard bore centres must be retained. Carburettors: two single or one twin choke are permitted. IGNITION: 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 will not be permitted.

D) **Suspension:** Solid axles front and rear, or IFS with solid rear axle. Springs and dampers free.

E) **Transmission:** Three or four speed conventional car gearboxes with mandatory reverse.

F) **Electrics:** as per 5.10.1; 5.10.2 & 5.10.4.

G) **Brakes:** **Solid discs up to 9" diameter, with a cast iron 2-pot calliper from a series production car may be fitted only if disc brakes were fitted in period on the front wheels;** discs may not be cross-drilled or grooved. Rear brakes are to be drums. Application may be made to the Series Coordinator for cars not complying with those restrictions and a waiver will be considered.

H) **Wheels/Steering:** No restrictions.

I) **Tyres:** Treaded road or racing - slicks not permitted.

Remould/retread tyres not permitted. If 'cut' slicks are used, there must be a minimum of 3 equally spaced circumferential grooves of at least 6mm width cut to the fullness of the tread, with a minimum tread depth of 2mm.

J) **Vehicle weight:** Minimum weight 8cwt with no allowance for topping up of fluids.

K) **Fuel tank/fuel:** as per 5.15.1; 5.15.2; 5.15.3.

#### 2. Eligibility of other Vintage, P.V.T., Historic and Classic cars up to 1200cc, Formula Junior cars, Ford OHV cars, including 750 Formula up to December 1973, excluding newly constructed cars.

A) Accepted at the discretion of the Series Coordinator and Eligibility Scrutineer.

B) All cars must comply with the relevant MSA regulations contained with sections [C(b)] & G of the current year's 'Year Book'.

### Eligibility regulations for Historic 500 cc cars for Class D:

- a) Cars must have been originally built before 31<sup>st</sup> December 1961 and must comply with the original specification, the guidelines for which are given below. (Based on the 500 Owners' Association regulations for such cars).
- b) Chassis, frame and suspension: This should be basically original and not have been subject to any major alterations. Chassis that are severely damaged and require rebuilding will be subject to inspection and proven history of the vehicle will be required.
- c) Wheels: Replacement wheels of the same diameter as original and up to 1" wider may be used.
- d) Tyres: As from 1<sup>st</sup> January 1982 the 13" wheels and tyres have been required to comply with a minimum rolling diameter and maximum profile width formulated to prevent the use of compounds which are not available to the users of 15" wheels. The tyres which are allowed are:-

#### A. Road Tyres

- (i). Radial ply tyres which are of the types listed and approved in the MSA 'Year Book' marked 125, 135, 145, 155, 165 x 15. They may be of HR or SR speed rating. They must not be marked with anything but the width size and the wheel size e.g. 145 SR 15. Therefore '70', '65' and '60' profile tyres are not eligible.
- (ii). Crossply tyres marked 560, 590, 600 and 640 x 15.

#### B. Racing Tyres

- (i). Goodyear Formula 'Vee' tyres marked 590 x 15 and 620 x 15. These tyres are no longer manufactured but many are still in use.
- (ii). Dunlop 15" L or M profile tyres marked 450 x 15, 500 x 15 or 550 x 15. Compounds and tread patterns are free.
- (iii). Dunlop Formula 'Vee' tyres marked 120/590 x 15 or 135/620 x 15 in any compound which Dunlop make them. In the very few cases

where it is possible to prove that the car was raced on 13" rims under the original formula the only tyres eligible will be Dunlop L or M profile ones.

- e) Bodywork: This should be of the original basic shape and preferably made of the same material as the original.
- f) Engine and gearbox: The types are restricted to those available at the time that the cars were raced i.e. pre - 31<sup>st</sup> December 1961. The engine must be externally, as original. Internal modifications are allowed, i.e. this permits free modification of cams, pistons, valves etc. "Replica" engines such as John Tickle Manx Norton and Modern Speedway JAPs are allowed provided that they are externally similar to the original engines; in the case of Cole crankcases - they will be permitted without modification. Twin plug heads of the period are allowed. The gearbox must retain the same number of ratios as the original but the ratios themselves are of free choice. The Norton Commando box is acceptable being basically a pre-1961 design. Clutches must be either solid disc or cork insert friction plate design. A Bewley clutch of this type may be used.
- g) Engine ancillaries: The choice of carburettor, magneto, coil/contact-breaker ignition are all free. Transistorised ignition is not allowed.
- h) Fuel and fuel additives: As per relevant Formula Junior/500 Owners Association regulations.
- i) Supercharging: Cars raced in the 'up to 500cc' class cannot be supercharged.
- j) Modifications: Original modifications to individual cars carried out before 31<sup>st</sup> December 1961, are usually accepted. All cars must comply with MSA Regulations.