

2018 CLASSIC TOURING CAR CHAMPIONSHIP

TECHNICAL REGULATIONS

YourITMan Pre-03 Touring Cars



Organised by the British Automobile Racing Club

Thruxton Circuit, Andover, Hampshire, SP11 8PN

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YourITMan Pre-03 Touring Cars

5 TECHNICAL

5.1. Introduction:

- a. The following technical regulations are set out in accordance with MSA specified format and it should be clearly understood that if the following texts do not clearly state that you can do it, you should adopt the principal that you cannot.
- b. Anything that is not explicitly authorised in writing by the Championship ~~Technical~~ Committee and anything that is not specified either in these regulations or in any Official Championship Bulletin is therefore strictly forbidden and thus will be regarded as a breach of these Technical Regulations and may be penalised as described in section 4. It should be clearly understood that technical regulations will be strictly enforced and any modification, addition, variation, tuning or removal other than specifically permitted in these regulations is prohibited.
- c. Regulations that have changed in substance from the 2017 Pre-2003 Production Touring Car Championship Technical Regulations are normally indicated by being highlighted in yellow.

~~5.1.1 Technical Queries:~~

~~Any matter affecting Technical Regulations must be put in writing to the Championship Eligibility Scrutineer, as any claim to have received clarifications or rulings on the Regulations must be substantiated by the production, on demand, of written confirmation of such rulings.~~

5.2 General Description:

- a. The CTCRC YourITMan Pr-03 Touring Cars Series is for competitors participating in two-wheel drive, four-seat saloon/hatchback or coupé cars marketed between 1st January 1993 and 31st December 2002 of which more than 5000 examples were manufactured in any 12-month period during the overall production run between these dates.
- b. All cars are subject to approval of eligibility by the Championship Organisers.
- c. Engines with more than FOUR cylinders are permitted.
- d. Engine capacity except as detailed in Championship Regulation 5.2 e. shall not to exceed 2,000cc (plus permitted overbore).
- e. The Honda 2.2litre engine is only allowed to be installed in the Honda Accord and Prelude model of vehicle. (See Regulation 5.7.1 g.)
- f. The Honda Accord and Prelude are not limited to the engine as detailed in Regulation 5.2 e. but are also permitted to utilise an engine as detailed in 5.2 d.

5.2.1 Unless specifically permitted in these regulations, all components must be to original specification.

5.2.2 Eligibility:

- a. All cars are subject to approval of their eligibility by the Championship Organisers.
- b. The responsibility to prove eligibility is that of the Competitor at all times. For clarification of a Competitor refer to the MSA Yearbook 2018 Section (B) Nomenclature & Definitions.
- c. Proof of a vehicles' eligibility may be required to be substantiated by production of documents, where issued, for the vehicle and these must be available for inspection when required.
- d. Where no such paperwork is available, the Competitor must produce written confirmation from the CTCRC Committee as to the eligibility of the vehicle model in question.
- e. The Championship Organisers in conjunction with a Licensed Eligibility Scrutineer shall determine matters as to the eligibility and the implementation which may involve photographing any part of the vehicle and performing electrical diagnostics at the scrutineer's discretion.

5.2.3 Class Structure:

5.2.3.1 The Class Structure will be as follows: -

Class A 0 to 2,000cc (Using a sequential gearbox & using slick tyres).

Class B 0 to 2,000cc (Using a non-sequential gearbox & using slick tyres).
Honda 2,200cc (subject to compliance with Regulation 5.2 e. and 5.7.1 d.)

Class C 0 to 2,000cc (Using a non-sequential gearbox).

Honda 2,200cc (subject to compliance with Regulation 5.2 e. and 5.7.1 d.)

Using any tyre listed in MSA Yearbook 2018 Regulation (L)4 List 1A and (L5) List 1B and List 1C.

5.2.3.2 Invitation Class

- a. Competitors with Vehicles not complying with these regulations may be invited to compete subject to Championship Organisers approval.
- b. Vehicles that, whilst not strictly adhering to the regulations, have been prepared sympathetically to the spirit of the championship and with Championship Organisers approval, may be invited to race under observation.
- c. Competitors wishing to race as invitation must submit a written specification of their vehicle, to the Co-ordinator. It must detail all areas where the vehicle does not comply with these regulations. This specification shall be made available to the eligibility scrutineers for pre and post event checks.
- d. invitation vehicles will be invited by the Championship Organisers on a race by race and individual vehicle basis. The vehicle must not deviate from the specification submitted, unless such changes are approved by the Championship Organisers. Any approval may be withdrawn at any time by the Championship Organisers.
- e. invitation competitors will not be eligible for:
 - i. Podium recognition
 - ii. Championship award / trophies
 - ii. Championship points.

5.2.4 Presentation:

- a. At the start of each free practice, qualifying session or race, the cars must be presented to a high standard and must be clean and in good order. The Championship Organisers reserve the right to forbid cars not meeting this requirement from taking part.
- b. Presentation of a vehicle for scrutineering is a declaration by the Competitor that the vehicle is eligible for that event.

5.2.5 Technical Checking:

- a. The Championship Eligibility Scrutineer / Championship Organisers reserve the right to inspect, test, measure, seal or impound any component fitted to or used in conjunction with any car registered in the Championship either personally or through a nominated representative. The costs of such checking shall be borne by the CTCRC but the CTCRC shall not be liable for the costs of stripping or reassembly of vehicles after the checks have been carried out. This will be the sole responsibility of the Competitor. Exceptions to this may include appeal / protest according to the MSA Yearbook 2018.
- b. Any breach of the Technical Regulations or a breach of the procedure surrounding the Technical Regulations will be the subject of a report to the Clerk of the Course.
- c. A car found to be ineligible for the championship must race only in the invitation class and no points will be scored until the vehicle conforms to the regulations.
- d. Any component sealed by an MSA Licensed Scrutineer must remain sealed and may not be tampered with in any way. In the event of a seal needing to be broken for repair or replacement, prior to doing so the Championship Eligibility Scrutineer must be informed in

writing and approve the seal being broken. Re-sealing by an MSA Licenced Scrutineer will take place after technical checks have been made at the next race meeting.

- e. If a vehicle/component is sealed for subsequent technical examination the Championship Eligibility Scrutineer, within the applicable time limit, will state to the Competitor/Competitor that he will examine the vehicle/component on a stated date and time and at a specified location and the sealed items must be made available for his inspection. These arrangements are not negotiable. If a vehicle/component is not made available for an eligibility examination as required by the Championship Eligibility Scrutineer, it will be considered as ineligible and will be reported as such to the Clerk of the Course for the application of penalties laid down under MSA Regulations and these Championship Regulations.

~~5.2.6 Technical Passport:~~

- ~~a. All Competitors are issued with a Technical Passport. This is used to record information relating to that car during the season.~~
- ~~b. The Competitor is responsible for the safe keeping of the passport, which shall be carried in the car at all times.~~
- ~~c. All cars are issued with a Technical Passport wallet.~~
- ~~d. No car is permitted to take part in an Event unless the Technical Passport is available for inspection and is a true reflection of the vehicle details.~~
- ~~e. The only person authorised to make changes to the details of the Technical Passport is the Series Eligibility Scrutineer or his appointed representative.~~
- ~~f. Missing Technical Passports will be the subject of a report to the Clerk of the Course.~~
- ~~g. Details contained within the Technical Passport must be submitted by the Competitor at the time of registration for the Championship. A Registration will not be accepted without submission of the relevant details.~~

5.3 Safety Requirements:

- 5.3.1 All MSA Yearbook **2018**, Section K, Competitor Safety Criteria Regulations, apply as relevant unless stated herein.

5.3.2 Safety Roll-Over Structures: - (K 1 to K1.8) applies

- a. All vehicles must be fitted with a safety roll-over structure as defined in the MSA Yearbook **2018** - Section K
- b. Interior fittings, trim and bodywork may be locally modified to allow fitting of the safety roll-over structure and any door bars.
- c. Cars running non-steel doors must be fitted with double door bars on the driver's side, either crossed or parallel.

5.3.3 Fire Extinguisher: (K3 to K3.5 applies):

- a. All vehicles must be equipped with a fire extinguisher. MSA Yearbook **2018** Regulation **Q 19.14.7** applies
- b. The fire extinguisher must not be disarmed in any Parc Fermé area without the specific permission of the Championship Eligibility Scrutineer. Any Competitor that is found with a disarmed fire extinguisher in Parc Fermé for whatever reason will be penalised.
- c. The following information must be clearly displayed on each fire extinguisher:
 - i) Type of extinguishant
 - ii) Weight or volume of extinguishant
- d. It is recommended that the following information is clearly displayed on each fire extinguisher:
 - i) Capacity
 - ii) Service date of extinguisher. It is recommended that it should be less than 2 years since the filling date or the last service date
- e. During Events all extinguisher systems must be in the 'ARMED' condition (i.e. be capable of being operated without the removal of any safety device) at all times while competing or practising, including post-Event scrutineering.

- f. The external triggering point must be positioned close to the circuit breaker (or combined with it) and must be marked by the letter "E" in red inside a white circle of at least 10cm diameter with a red edge in accordance with MSA Yearbook 2018 Regulation (K)3.2.2

5.3.4 Main External Circuit Breaker:

- a. A Main External Circuit Breaker in compliance with the 2018 MSA Yearbook Section (K) 8. is mandatory.
- b. The switch location must be identified by a Red Spark on a white edged blue triangle with a base of at least 12cm. and the 'On' and 'Off' positions clearly marked.
- c. The circuit breaker when 'operated' must isolate all electrical circuits, data loggers, transponders, etc.
- d. When the circuit breaker is 'operated' there must be no power source capable of keeping the engine running.
- e. The triggering system for the circuit breaker should be situated at the lower part of the windscreen mounting, preferably on the driver's side or below the rear window.

5.3.5 Lights:

Lights detailed in Championship Regulations 5.10.5 must be in working order throughout the entire Event.

5.3.6 Seat and Seat Mounting: (K 2.2. applies)

- a. The Seat and Seat Mounting shall comply with the MSA Yearbook 2018 Regulation (K) 2.2 and (K) 2.3
- b. It is recommended that the Driver's seat is a racing seat with a current FIA homologation.
- c. Additional seat padding is permitted to a maximum of 50mm. Any additional padding or covering placed on the seat must be fire retardant to FIA standard 8855-1999.
- d. The seat mountings shall be appropriate to the seat fitted (and complying with FIA Article 253.16) must be used.

5.3.7 Seat Belts: - (K 2.1. applies)

- a. Mandatory use of seat belts. MSA Yearbook 2018 Regulation Q19.14.2 applies.
- b. Seat belts fitted, the seat belts must comply with Championship Regulation 5.3.7 c. to 5.3.7 f. inclusive.
- c. The Driver's seat belts must have a current FIA homologation.
- d. It is mandatory to use seat belts, with a minimum 'four point' configuration. Complying with the 2014 MSA Yearbook Regulation 2016 (K) 2.1.2.
- e. Seat belts must be correctly adjusted at all times during events: (Two shoulder straps and one lap strap, with four anchorage points on the chassis/body shell or roll over bar of the vehicle).

5.3.8 Race Clothing: (K9.1 and K9.3 applies)

- a. Competitors are strongly advised to wear flame resistant, socks, underwear and balaclava.
- b. Flame resistant gloves and shoes are mandatory. MSA Yearbook 2018 Regulation Q10.1.(c) applies.

5.3.9 Crash Helmet.

Crash helmets must comply with the requirements of MSA Yearbook 2018 (K 10.1 to K10.4 applies).

5.3.10 FHR.

Mandatory for all forms of circuit racing with the exception of period defined vehicles (pre 1977), which will remain as a recommendation. MSA Yearbook 2018 (Q) 10.1.e. applies.

5.4 General Technical Requirements and Exceptions:

- a. All vehicles must comply with MSA General Technical Regulations and the relevant parts of Sections J & Q of the MSA Yearbook 2018 except where specified below.
- b. No component may be substituted which serves to alter the shape or size of the body shell and/or panels themselves or increases the capacity of the engine beyond that which is

permitted within these Technical Regulations. Full details of optional equipment must be submitted to the CTCRC for possible inclusion on a vehicle by vehicle basis prior to that item of equipment being fitted.

- c. Fixing components such as nuts, screws, washers, lock washers; spring washers, etc. are free and may be upgraded.
- d. It is permitted to repair faulty threads using Keen Inserts/ Helicoils. Where thread inserts are utilised the original thread diameter and pitch must be respected.
- e. Within these Technical Regulations the word “standard”, “original” or “pattern Part” used as a description of components is to be interpreted as: “The specified component from the factory or the manufacturers or importers parts list for the model or engine shown on the entry form or registration form.
- f. No modifications are permitted beyond the repair or adjustment processes specified by the factory or the manufacturer”. Eligibility checking will be by comparison to spare parts supplied by the manufacturer’s official agent.
- g. “Free” as referred to in these Technical Regulations shall mean be interpreted as “within the limitations imposed by the MSA Yearbook 2018 Regulations”.
- h. Advertising on vehicles is subject to requirements set out in MSA Yearbook 2018 Regulation **H29.1.2 & H29.1.3**.

5.5 Chassis:

- a. The chassis must be based on production model and recognisable as such. The standard floor pan, sills, bulkheads, doors and roof must remain as produced by the manufacturer in construction, except as allowed in Championship Regulations 5.5 b. to 5.5 i.
- b. The rear bulkhead (driver compartment to boot, Saloon/Coupe cars) may be made from an alternative material and may be relocated from the original.
- c. The addition of chassis material or strengthening of chassis, or chassis members, is permitted.
- d. Lightening or reducing of chassis, or chassis member strength, is prohibited.
- e. Seam welding is permitted.
- f. Space frame chassis are prohibited
- g. The floor pan, bulkheads, front and rear inner wings may be locally modified for mounting, or giving clearance to, suspension components. Inner wings may be modified to provide additional wheel/tyre clearance.
- h. The boot floor between the chassis rails rearward of the rear axle may be modified to accept fuel and oil systems and may be made from an alternative material.
- i. Transmission tunnel and tunnel apertures may be enlarged to ease the fitment of larger transmissions.
- j. Towing eyes / straps must be a contrasting colour to the surrounding area (usually either Day-Glo red or yellow) and must respect the requirements of MSA Yearbook 2018 Regulation **(Q19.1.3)**.

5.5.1 Towing eyes / straps

- a. Must be a contrasting colour to the surrounding area (usually either Day-Glo red or yellow) and must respect the requirements of MSA Yearbook 2018 (Q19.1.3).
- b. In addition to 5.5.6 a. it is strongly recommended that all cars must, wherever possible, be equipped with two front and two rear towing eyes positioned equally either side of the longitudinal centre-line. They must be clearly visible, marked with an arrow and the word “tow” and the wire painted in yellow, red or orange to contrast with the vehicle colour scheme.

The towing eyes must be made of at least 6mm diameter steel wire rope with a 6x19 wire core, each which must have a breaking-strain of at least 2 tons. Each towing eye must allow the passage of a cylinder with a diameter of 60 mm, situated 25mm forward of the adjacent bodywork - 100 mm above and below this hole must retain clearance to enable the recovery crews to attach straps and shackles.

The towing eye must be fixed to a structural part of the chassis with a minimum of M12 fixings, the inner part must be flexible in order for the towing eye to be retracted inside the bodywork profile. A “pull-cord” must be attached to the towing eye to enable the marshals

to access the wire loop. The end attached to the chassis may be either 'thimble' or 'open-loop' style.

5.6 **Bodywork and dimensions:**

5.6.1 **General:**

- a. Bodywork must be complete and standard in shape and silhouette, material and thickness on all exterior surfaces, unless detailed otherwise in Championship Regulations 5.6.3
- b. Replacement of body panels with non-original material is prohibited.
- c. It is only permitted to make holes in **bulkhead** for the passage of cables, fuel, water, oil, hydraulic, instrument or fire extinguisher lines.
- d. All redundant holes must be covered with a non - flammable material.

5.6.2 **Interior:**

- a. Floor carpets, under felt, sound deadening, headlining, front and rear parcel shelves, centre consoles, the front passenger seat, rear seats and trim in the boot/luggage compartment may be removed.
- d. The dashboard must be retained, modifications, sympathetic to the original dashboard are permitted.
- e. Instrumentation is free.
- f. The front door trim must be retained in original or other non-flammable material.
- g. Vehicles must be fitted with at least one interior rear – view mirror. The fitment of a wide angle interior rear view mirror is recommended.
- h. The driver must be located entirely to one side of the centre line of the car. Local modifications are permitted for the purposes of secure and safe mounting
- i. Heaters and interior ventilation systems may be removed.
- j. Air conditioning / climate control systems and their related hardware may be removed
- k. A strut brace between the front strut towers may be fitted.
- l. A strut brace between the rear strut towers may be fitted.
- m. It is permitted to carry out modifications to the centre tunnel for the re-routing of exhaust system. (MSA Yearbook **2018** Regulation J 5.16.1. applies)

5.6.3 **Exterior:**

- a. Reworking or modification to exterior bodywork is prohibited unless detailed otherwise in Championship Regulations 5.6.3 b. to 5.6.3 j. inclusive
- b. Any part of the arch/wing pressing folded into the wheel arch may be deformed, but not removed, to give clearance to the tyres.
- c. Bonnet lid, boot lid and door panels may be replaced by alternative material providing they exactly retain the original standard shape and outline.
- d. **Body Kits**
 - i. Cars may be fitted with BTCC / WTCC type body kits subject to compliance with Championship Regulation 5.6.3 d ii. to 5.6.3 d iv.
 - ii. Competitors wishing to run a BTCC / WTCC type body kit must submit a written specification of the kit to the Championship Organisers for approval/ rejection.
 - iii. The specification must include all homologation paperwork where applicable.
 - iv. The body kit will only be allowed, provided it has been validated in writing by the CTCRC committee.
- e. **Horizontal front splitter**
 - i. May be fitted to the bottom edge of the front bodywork.
 - ii. May not extend forward more than 100mm beyond the original lower lip.
 - iii. Is not permitted to exceed the width of the car across the front wheel arches.
 - iv. The splitter may be a separate item but must form a continuous part of the bodywork.
- f. **Rear aerofoils** (MSA Yearbook **2018** Regulation J 5.2.7 applies)

- i. They must not extend beyond the maximum width of the coachwork (excluding wing mirrors).
- ii. They must not extend beyond the rear of the rear bumper more than 100mm.
- iii. They must not extend above the maximum height of the roof.
- iv. Competitors wishing to run a rear aerofoil that does not adhere to any of Championship Regulations 5.6.3 f.i. to 5.6.3 f.ii inclusive must submit a written specification of the aerofoil to the Championship Organisers for approval/ rejection. The Championship Organisers reserves the right to withdrawn approval at any time.
- g. Headlights must be fitted in the original locations. They need not be the original headlight unit for the vehicle but must respect the requirements of Technical Regulation 5.10.5.a.i.
- h. The removal of exterior trim is allowed
- i. Side and rear window
 - i. Material is free but must comply with current MSA regulations.
 - ii. Holes may be cut in the rear or side window for de-misting.
 - lii Ducts may only be fitted to side window for cooling the driver and de-misting purposes so long as they do not impede the sight line between the competitor and the rear view mirror and nor shall they impede the competitors vision of flag signals, etc.
- j. The original mirrors may be removed but vehicles must be fitted with at least one externally mounted rear view mirror in accordance with MSA Yearbook 2018 section (Q)19.15.1
- k. Roof mounted air vents are permitted.
- l. Front underbody under tray
- m. The fitting of a front underbody tray is permitted.
 - i. The under tray must: -
 - 1. respect the ground clearance,
 - 2. Be removable.
 - 3. Be flat and create no aerodynamic influences.
 - ii. Front underbody tray may extend the whole width of the underside part of the front bumper only in front of the front wheel axis.

5.6.4 Silhouette:

The silhouette of the vehicle above the centre line of the wheels must remain as original for that model except for rear spoilers and roof mounted air vents.

5.6.5 Ground clearance:

- a. Under no circumstance can any part of the bodywork of the suspended part of the car or exhausts and silencers be below a horizontal plane passing 40mm above the ground.
- b. Will be measured with the Driver on board (wearing his complete racing apparel),
- c. Will be measured with the vehicle and driver, including minimum Weight Ballast where applicable in the condition in which they cross the Finish Line or at any other time during an Event and without the removal of any solid or fluid matter including fuel.
- d. Ride height will be measured on any reasonably flat surface as deemed by the Championship Eligibility Scrutineer or his nominated representative. In the event of any discrepancy the circuit designated flat patch will be used to make any final judgement.

5.7 Engine:

5.7.1 General:

- a. All internal engine components are free.
- b. Engines from later models may be used to meet the 2.0 litre (plus overbore) limit, but only if previously used in the same mark/ type of vehicle.
- c. An 8-valve engine may be replaced in its entirety with a 16-valve engine providing that engine was manufactured between 1st Jan 93 and 31st Dec 2003 and is of the same mark/type.
- d. The Honda 2,200cc engine referred to in Regulation 5.2 e.: -
 - i. Shall be the "H" series engine.

- ii. Is not permitted to exceed 2,200cc.
- iii. Is not permitted to be over bored. (this engine must remain "Standard dimensions")
- iv. May be from any model of that specific mark of vehicle. (Only engines used in the Honda Accord model of vehicle may be used in a Honda Accord. Only engines used in the Honda Prelude model of vehicle may be used in a Honda Prelude).
- e. It is prohibited to over bore any engine with more than 4 cylinders. ("Standard size" pistons must be used).
- f. Dry sump systems are permitted

5.7.2 Cylinder Block:

- a. The engine block casting must be based on a standard production block from a model eligible for the championship.
- b. It is permitted to remove metal from the cylinder block.
- c. It is permitted to overbore any "standard" 2,000cc., four cylinder, cylinder block up to a maximum of plus 0.065" (1.651mm).
- d. It is permitted to change the bore and stroke of any engine with a "standard production cc" of less than 2,000cc to meet 2,000cc. limit. (Example: - Alfa 1700cc boxer engine can be re-bored and stroked to give 2000cc)

5.7.3 Cylinder head(s):

- a. Cylinder head/s are free if Championship Regulation 5.7.3 c. and Regulation 5.7.3 d. are respected.
- b. The replacement or modification of all mechanical components is permitted
- c. The cylinder head must be based on a production head from a model eligible for the championship.
- d. Reverse orientation of the cylinder head is not permitted. It must be fitted in the same orientation as in original production.

5.7.4 Location:

- a. The engine must remain on the original side of the front or rear bulkhead as specified and supplied by the manufacturer for the specific model entered in the championship.
- b. The engine must be orientated as fitted in the specific model entered in the championship.

5.7.5 Engine mountings and support members may be changed for alternative units and may be chassis mounted.

5.7.6 Oil / Water Cooling:

- a. The oil/water cooling systems are free if Championship Regulation 5.7.6 b. to 5.7.6 d. inclusive are respected.
- b. Radiators are free but must remain in their original location.
- c. The fitting of additional water radiators is permitted provided they are located within the periphery of the bodywork.
- d. The fitting of additional oil coolers is permitted provided they are located within the periphery of the bodywork.
- e. Modification of the cooling system is permitted to facilitate the installation of items detailed in Championship Regulation 5.7.6 b. to 5.7.6 d. inclusive.

5.7.8 Induction Systems:

- a. Induction systems are free if Championship Regulation 5.7.8 b. to 5.7.6 g. inclusive are respected.
- b. Forced induction systems are prohibited.
- c. The number and size of throttle bodies in all classes are free.
- d. Inlet manifolds in all classes are free.
- e. Air Filters are free.
- f. It is permitted to remove air filter and air filter boxes.
- g. Air ducting/ trunking is free provided it does not extend beyond the periphery of the bodywork, ~~and does not produce a "Ram Effect"~~.

5.7.9 Ignition:

- a. The ignition systems are free.

5.7.10 Exhaust Systems:

- a. Exhaust manifolds and systems are free if Championship Regulations 5.7.10 b. to 5.7.10 d. inclusive is respected.
- b. Side exit exhausts are permitted but must exit behind the midpoint of the wheel base.
- c. It is prohibited to pass any part of the exhaust system through the driver compartment.
- d. Catalytic converters must be fitted directly after exhaust manifold on cars manufactured after 31/12/1999
- e. All cars must conform to the current MSA requirements as detailed in the MSA Yearbook 2016 J5.16

5.7.11 Seals:

- a. To allow for scrutineer's wire seals, every installed engine must have 1.6mm (1/16") holes drilled in readily accessible locations as follows: -
 - i) Sump: Cross drilled through two adjacent retaining screws or studs.
 - ii) Rocker/cam cover or head bolt: Cross drilled through two adjacent retaining screws or studs.
- b. Engines may be sealed at any time by a Licensed Eligibility Scrutineer and only by written permission in advance from the Championship Organisers or a Licensed Eligibility Scrutineer may seals be broken.

5.8 Suspensions:

- a. Suspension is free if Championship Regulation 5.8 b. is respected.
- b. The original suspension operating principle must remain unaltered.

5.8.1 Springs:

- a. Suspension springs are free if Championship Regulation 5.8.1 b. is respected.
- b. The original operating principle as fitted by the manufacturer, (coil, leaf, torsion) shall be employed.

5.8.2 Shock Absorbers

- a. Shock Absorbers are free if Championship Regulation 5.8.2 b. is respected.
- b. The original operating principle, as fitted by the manufacturer, (hydraulic, friction, lever or telescopic) must be employed.

5.8.3 Anti roll bars

Anti-roll bars including their mountings are free.

5.9. Transmissions:

- a. Clutch and clutch operating system is free.
- b. Gearbox is free if Championship Regulation 5.9 c. is respected.
- c. If a sequential gearbox is used the following shall apply: -
 - i. The vehicle must run in Class A irrespective of the engine size.
 - ii. The minimum weight, before the addition of any success ballast, will be 1150kg.
- d. Gear ratios and type are free.
- e. The final drive ratio is free.
- f. Mechanical limited slip or torque biasing differentials are permitted.

5.9.1 Traction / Launch Control

Any form of traction / launch control is prohibited.

5.10 Electrics:

- 5.10.1 Electrical equipment is free if Championship Regulation 5.10.2. to 5.10.5. inclusive are respected.

5.10.2 Vehicle Onboard Starter:

Engines are to be started at all times by the Vehicle Onboard Starter except that the use of an external portable slave battery is permitted to aid start up only in the paddock, assembly area, pit lane and on the grid.

5.10.3 Battery:

- a. The battery and starter motor must be capable of performing a number of repetitive starts.
- b. The battery makes and type is free within MSA Yearbook 2018 Regulations, (J) 5.14.1 to (J) 5.14.7 applies.
- c. The Battery position and orientation is free within MSA Yearbook 2018 Regulations, (J) 5.14.1 to (J) 5.14.7 applies.

5.10.4 Charging Circuit:

The Charging Circuit must be connected and operational all times whilst the Engine is running.

5.10.5 Lights:

- a. All cars must be fitted with the following: -
 - i) A minimum of two forward facing main headlights.
 - ii) A minimum of two rear facing red tail lights.
 - iii) A minimum of two rear facing red brake lights.
 - iv) A rear facing red high intensity fog light (or two where two are fitted as standard equipment by the vehicle manufacturer in question) MSA Yearbook 2018, Section (K) 5. applies.
- b. Lights detailed in Championship Regulation 5.10.5 a. iii) must be operated only by the brake pedal and without a delay.
- c. Lights detailed in Championship Regulation 5.10.5a. iv) must not be operated by the brake pedal.
- d. It is not permitted to tint or paint the front or rear lighting units.
- e. All lights detailed in Regulation 5.10.5 a. must be in working order throughout the entire Event and must be able to be switched on by the Driver when seated normally in the car.

5.10.6 An operative front windscreen wiper must be fitted and in full working order throughout the entire Event. MSA Yearbook 2018, Regulation (Q) 19.15.3. Applies.

5.11 Brakes:

- a. Brake systems are free if Championship Regulations 5.11 b. to 5.11 e. are respected.
- b. Carbon discs are prohibited.
- c. Forward facing fog lights mounted in, or under, the front bumper may be removed. Internal bodywork or trim behind the original fog light locations may be modified solely to allow the fitment of ducting from the original fog light locations to the front brake discs.
- d. Cars with single circuit braking must be fitted with an operational hand brake. Cars fitted with dual circuit braking are not required to have a handbrake fitted.
- e. ABS systems are prohibited, unless fitted in production in which case they must be to production specification.

5.12 Wheels / Steering:

- a. Wheel sizes and widths and construction are free if Championship Regulation 5.12 b. is respected.
- b. Wheels must fit within the confines of the bodywork in accordance with MSA regulations.
- c. Steering wheel is free subject to MSA Yearbook 2018 Regulations, ((J) 5.7.1 and (J) 5.7.2).
- d. Steering wheel mounting hubs and steering columns are free.

5.13 Tyres:

- a. Tyres are free if Championship Regulations 5.13 b. to 5.13 l. are respected.
- b. Tyres listed by the tyre manufacturer as "soft compound" tyres are **not** permitted.
- c. Vehicles in Class A and Class B may use any slick or wet weather tyre.

- d. Vehicles in Class C may only use tyres listed in MSA Yearbook 2016 Regulation (L)4 List 1A and (L5) List 1B and List 1C. In addition to 5.13.d the following tyres are permitted: - MRF ZTR
- e. Tyre tread depth must be above the 1.6mm legal limit prior to commencement of qualifying sessions or races.
- f. Tyres must fit within the confines of the bodywork in accordance with MSA regulations.
- g. The use of tyre heating / heat retention devices, tyre treatments and compounds are prohibited.
- h. Pressure regulation valves are prohibited. MSA Yearbook 2018 Regulation, ((J) 5.9.4. applies)
- i. During a Meeting, checks will be made by the Championship Eligibility / Safety Scrutineer or his appointed representative to ensure compliance with the Championship tyre regulations. Non-compliance at any time during the Event may be the subject of a report to the Clerk of the Course.
- j. It shall be the sole responsibility of the Drivers/Entrants in Class A and Class B to judge whether the track is wet enough to justify the use of wet weather tyres.
- k. The Clerk of the Course will not judge whether the track is wet enough to justify the use of wet weather tyres.
- l. Wet tyres may not be used in conjunction with dry tyres.

5.14 **Weights:**

5.14.1 **General:**

- a. The principle is to equalise the performance of the car and Driver combination. The minimum car/Driver weights excluding any success ballast, at the completion of every qualifying session and race must be in accordance with Championship Regulation 5.14.2 regardless of laps completed.
- b. It is forbidden to add any liquid(s) or other material(s) to the car, or to substitute any part(s) for a heavier one during qualifying session or race.
- c. If a Car loses a part during qualifying or a race, the weight of that part may be taken into account during eligibility checks. Following consultation, the Championship Eligibility Scrutineer will determine whether any lost part should be considered.

5.14.2 **Minimum weight:**

- a. The minimum weight is "in the condition in which the vehicle and the Competitor (wearing his complete racing apparel, scrutineered Race Suit, boots, gloves and helmet) including minimum Weight Ballast where applicable, (see Championship Regulation 5.14.4) crosses the finish line or at any other time during qualifying or race and without the addition or removal of any solid or fluid matter". For the purpose of the Regulation, qualifying or race is deemed to include any transfer to a place of post event scrutiny as directed by an official.
- b. Stickers (in 40mm white lettering) stating the cars minimum weight are to be displayed on the rear quarter windows. The minimum weight of the car should be as detailed in regulation 5.14.2
- c. The minimum Car/Driver weights for each class, excluding any success ballast, at the completion of every qualifying session and race must be in accordance with the following: -

cc	Min Weight kg
0 - 1600	1000
1601 - 1700	1025
1701 – 1800	1050
1801 – 1900	1075
1901 -2000	1100
2200 (Honda)	1150
Any vehicle using a sequential gearbox.	1150

5.14.3 **Ballast:** MSA Yearbook 2018 Regulation (section (j) 5.15 applies)

- a. Ballast, required to achieve the minimum weight and/ or success ballast as a performance equalisation measure must only be added inside the car on the front and/or rear passenger foot well.
- b. It is the competitor's responsibility to provide and fit their own ballast if it is required, and to ensure that ballast is fitted in a safe manner.
- c. Ballast must be attached to the shell/chassis via at least 4 mounting points using bolts with a minimum diameter of 8mm each with steel counter plates of at least 400 sq mm surface area and 3mm thickness. Ballast mountings must include provision for the fitting of scrutineer's wire seals.
- d. It is permitted to locate ballast within a touring car specification ballast box. The ballast box attachment to the shell/chassis must respect MSA Yearbook 2018 requirements and must include provision for the fitting of scrutineer's wire seals.
- e. The total weight of "minimum weight" or "success ballast" carried must be declared, in writing to the Championship Eligibility Scrutineer and/or his appointed representative and be in position, at all times during practice and racing.

5.14.4 Minimum weight ballast:

- a. It is permitted to carry ballast to achieve minimum weight.
- b. The minimum weight ballast shall be carried in addition to and shall not form any part of Success Ballast as defined in Championship Regulations 5.14.5

5.14.5 Success Ballast:

- a. Any vehicle may be required to carry success ballast as a performance equalisation measure. Such success ballast will be specified by the Technical Committee based upon the performance of the car in competition.
- b. The Technical Committee reserves the right to review the weight handicaps at any time during the Championship.
- c. The success ballast handicap is carried in addition to the 'Base' weight of the car as defined in Championship Regulation 5.14.2.
- d. Competitors will be informed by official bulletin of the amount of weight they must carry.
- e. The maximum success ballast allocated shall be 150kg.
- f. Any vehicle which fails to carry the success ballast specified by the Technical Committee will automatically be deemed not to comply with the Technical Regulations.

5.15 Fuel Tank/Fuel:

5.15.1 Types:

- a. Fuel tank construction is "free" subject to compliance with MSA Yearbook 2018 Requirements.
- b. Racing type safety fuel cell may be used. MSA Yearbook 2018 Regulation (K)4 applies.

5.15.2 Location:

Fuel tank/cell may be located anywhere to the rear of the driver's seat, subject to compliance with MSA Yearbook 2018 Requirements.

5.15.3 Fuel:

- a. Only 'Pump' fuel as defined in section (B) Nomenclature & Definitions of the MSA yearbook 2018 is allowed.
- b. An MSA approved additive is permitted.
- c. The introduction of any other media into the engine is prohibited.
- d. Refuelling is not permitted during qualifying, on the starting grid or during a race.

5.15.4 The fuel pump construction and positioning is "free" subject to compliance with MSA Yearbook 2016 Requirements.

5.16. Silencing:

- a. All cars must conform to the current MSA noise requirements as detailed in the MSA Yearbook 2018 Regulations J5.17 & J5.18.
- b. Silencers are free subject to compliance with 5.16 a.


5.17 Numbers and Championship Decals:

5.17.1 Positions:

- a. Race numbers must be displayed in accordance with MSA Yearbook 2018 Regulation J4 or Q11.4. **When using J4 option, Competitors must display competition numbers on a CTCRC number background.**
- b. Race numbers shall be a three-digit number. The first digit of the three-digit number will always be 1. For example, 101, 126.
- ~~c. The numbers for each rear side window, which shall be;

 - (i) A minimum of 200mm high
 - (ii) With a stroke width of at least 20mm
 - (iii) Coloured reflective yellow.~~
- ~~d. The windscreen of all cars must display the competition number accordance with MSA Yearbook 2018 Regulation Q.11.4.2. positioned on the upper area of the passenger's side of the windscreen, as follows;

 - (i) The numerals must be at least 150mm high
 - (ii) Be in the same colour and font as those displayed on the rear side windows
 - (iii) Be placed no closer than 50mm from the lower edge of the windscreen "sun-strip" and 50mm from the side edge of the windscreen.~~
- e. Only competition numbers allocated by the CTCRC Registrar are to be displayed. ~~They must be displayed in accordance with MSA regulation J4 and remain as allocated until the end of the season.~~
- f. ~~Competitors must display competition numbers on a CTCRC number background.~~ CTCRC decals and those of the series sponsors, promoters and the BARC are required to be displayed in an un-obscured position in accordance with the following table.

Item		Placement
CTCRC "classic Touring cars.com" sun strip	TBC	Top of Rear windscreen
Series Sponsor Sun strip	TBC	Top of front windscreen
Series Sponsor logos (if required - TBC)	TBC	One on each side of the car (front wing, rear door or rear quarter)
Classic Touring Car Club logo	TBC	One on each side of the car (front or rear door),
BARC Logo		One on each side of the car (front wing, rear door or rear quarter)
Class Letter (50mm White lettering)	e.g. 123 A	One on each of the rear side windows, adjacent to race numbers
Class Weight (40mm White Lettering)	e.g. 950kg	One on each of the rear side windows

- g. Decals shall be fitted as issued. They may not be cut or otherwise defaced or deformed without prior approval from the Championship Organisers.
- h. Non CTCRC approved decals such as, but not restricted to, other clubs and other championship/series decals are not to be displayed on vehicles. These should be removed or covered up.
- i. Points will ONLY be awarded to competitors correctly displaying the required decals
- j. One set of Decals may be obtained from the CTCRC nominated supplier free of charge.
- k. A charge may be levied for any extra decals required to those issued in 5.17.1 j.
- l. 5.17.1 i. & 5.17.1 j. are only applicable to current fully paid up, Racing members of the CTCRC.

5. APPENDICES

The following Commercial Undertakings are not subject to the Judicial procedures of either the Championship Stewards and/or the MSA/MSC.

6.1 The Classic Touring Car Championship is aimed at providing close racing for a wide variety of cars and it must remain a non-contact sport at all times. The Organisers acknowledge that racing incidents do happen, however there will be no acceptance of any aggressive driving of any kind. In accordance with the MSA regulations penalties will be applied to drivers who do not comply with this principle. Competitors are reminded that the majority of these cars are getting rare, to that extent parts are getting to be harder to find and most of these cars are not run on big budgets. Therefore, you are requested race accordingly, remembering this is club racing and it should be an enjoyable experience for everyone involved.

6.1.1 Social Media

Drivers and their supporters are reminded about the use of social media. Regulation 6.1.1.2 of the Championship Regulations clearly states the position and anyone found in breach of 6.1.1.2 will be dealt with accordingly. A negative or derisory comment on social media can be seen instantly by a large number of people. This may include one or more of our sponsors, hence the need for restraint. There can be, and have been, serious consequences caused by the misuse of social media. Therefore, if a driver considers that they have a genuine issue that needs resolution they should use the appropriate channel either the Championship Co-ordinator or Championship Committee

6.1.1.1

Anyone posting anything derogatory, defamatory, insulting, unfavourable or disrespectful in relation to the Championship or Series – including any of its participants, officials, partners or supporters – in any form of Social Media, would be dealt with in the same manner as if he comments had been published in the traditional print/broadcast media. In the worst instance this could mean exclusion from the championship/series, in the least it will be a deduction of points.

NB: for the avoidance of doubt the MSA may of course take any action as it considers appropriate, in addition to any action taken by the Championship Stewards.

6.2 Race Organisers and Contacts:

BARC, Thruxton Circuit, Andover, Hampshire, SP11 8PN

Contact: David Wheadon

Tel: 01264 882209

Email: dwheadon@barc.net

Drivers Representative:

Contact: Colin Gibbons

Tel: 07814 052142

Email: colin.gibbons@classictouringcars.com

Championship Eligibility Scrutineer:

Contact: