



116 SPRINT & 120 COUPE CUP

1 SPORTING REGULATIONS: GENERAL

1.1: TITLE & JURISDICTION:

The **116 SPRINT & 120 COUPE CUP CHAMPIONSHIP** is organised and administered by the 750 Motor Club Ltd in accordance with the National Competition Regulations (NCR's) of Motorsport UK (incorporating the provisions of the International Sporting Code of the FIA) and these Championship Regulations.

1. **MOTORSPORT UK Championship Permit No: CH2026/**
2. **MOTORSPORT UK Championship Grade: C.**
3. **Race Status:** Inter-Club.

1.2: OFFICIALS:

1. **Co-Ordinator:** G.Groombridge, 750MC, Donington Park, Castle Donington, Derbyshire, DE74 2BN

① 01332 814548; 📧 giles@750mc.co.uk.

Promoter: Mark Bate, 116 Racing Ltd, 196 Huddersfield Road Stalybridge. SK15 3DL.

2. **Eligibility Scrutineer:** Bob Blackmore, Deputy: S. Dockray

3. **Championship Stewards:**

T. Gregory C. Emmerson I.Sowman T. Stevens

Any three Championship Stewards will constitute a quorum. In the event of any of the Championship Stewards listed above being unavailable or being unable to consider any particular matter due to a perceived conflict of interest, the organisers reserve the right to appoint an alternative Championship Steward or, if deemed to be necessary, more than one alternative Championship Steward. NCR Ch.4 App.1 Art.1.2. The Championship Stewards can only adjudicate upon any disputes irregularities or appeals arising from the published Championship Regulations. They are also empowered to consider any request from the Championship Coordinator to penalise any Competitor for any breach of Championship Regulations and after holding a formal hearing those Stewards may impose a penalty in accordance with NCR Chapter 2 C.2.1.1 subject to the rights of Appeal to the National Court.

4. **Technical Advisor:** M. Bate

1.3: COMPETITOR ELIGIBILITY:

1 Entrants must:

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

2 Drivers and Entrant/Drivers must:

- (a) Be current Members of the 750 Motor Club and
 - (b) be Registered for the Championship and
 - (c) be in possession of valid Competition (Racing) Club Licence, as a minimum
 - (d) Or be in possession of the highest grade of national Race licence or valid FIA International Licence, together with their ASN's written consent (Motorsport UK National Competition Rules (NCR) Ch.6 App.3 Art.1) and FIA ISC Article 2.3.7.b applies)
 - (e) 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.

1.4: REGISTRATION:

1. All drivers must register for the championship by returning the Registration Form with the Registration Fee to 116 Racing Ltd (Mark Bate) 196 Huddersfield Road Stalybridge. SK15 3DL. Email info@116trophy.com, prior to the Final Closing date for the first round being entered.
2. The Registration Fee is £135 per driver payable upon registration.
3. Registration numbers will be the permanent Competition number for the Championship.



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1.5: CHAMPIONSHIP ROUNDS:

The **116 SPRINT & 120 COUPE CUP CHAMPIONSHIP** will be contested over the following rounds:

Date	Circuit	Round/s
18 April	Brands Hatch	2
23 May	Pembrey	2
20 June	Snetterton 300	2
25 July	Oulton Park	2
15 August	Silverstone Int	2
19 September	Croft	2
17 October	Donington Park	2

1.6: SCORING:

1. Points will be awarded to Competitors listed in the Final Results in each class as follows:-25; 22; 20; 18; 16; 14; 12; 11; 10; 9; 8; 7; 6; 5; 4; 3. All other finishers-2; all other starters - 1. Fastest lap per class - 1 point subject to a minimum of 2 starters in class. If there is only one starter in a class, there will be no point awarded for fastest lap.
2. Car Sharing: Drivers who share a car at a meeting where both drivers participate in a race each will be awarded the points from their race and the points of the driver with whom they share the car, but only when the sharing driver is competing in the shared car.
3. 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.
4. Ties shall be resolved using the formula in the current NCR Ch.4 App.3 Art.4.
5. Where the race distance has been reduced (2.6.) it shall still count as a full points scoring round.
6. Competitors not registered for the Championship may be permitted on an individual round basis and will:
 - (a) be deemed "Guest Competitors"
 - (b) not score points and for the purpose of points scoring will be ignored
 - (c) qualify for Event awards
 - (d) comply with the eligibility criteria as prescribed in Article 1.3. above, with the exception of 1.3.1. (b) and 1.3.2. (b), as appropriate

1.7: AWARDS:

1. All awards are to be provided by the Organising Club unless agreed otherwise.
2. Per Round: Trophies to 1st, 2nd and 3rd in each class.
3. Championship: Trophies, subject to a minimum of 5 race starts, to:-
 - 1st, 2nd, 3rd in each class.Masters Trophy (Highest placed driver over 50 years old at the time of the first race.)
Best Prepared car.
4. Presentations: Awards will be presented at the end of each event, and/or at the end of the Championship at the designated presentation ceremony.
5. Entertainment Tax Liability: {deleted}
6. If Provisional Results or Championship Tables are revised after any presentations and these revisions affect the distribution of awards the Competitors concerned must return them to the organisers in good condition within 7 days.

2: CHAMPIONSHIP EVENT MEETINGS & RACE PROCEDURES

1. ENTRIES:

1. 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.
2. Incorrect or incomplete entries (Including Driver to be Nominated Entries) are to be held in abeyance until they are complete and correct and the date of receipt for acceptance of entry purposes shall be the date on which the Meeting Organiser receives the missing or corrected information or fee.
3. Any withdrawal of Entry or Driver/Car changes made after acceptance of any entry must be notified to the Meeting Organisers in writing. NCR Ch.3 App.11 Art.1.1 applies
4. The Entry Fee for each event shall be specified in the SRs and on the entry form.
5. Reserves will be listed in the Final List of Entries published with Final Instructions or in a Bulletin.



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2. BRIEFINGS: Organisers will 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:

1. 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.
2. Each driver shall complete a minimum of 3 laps in the car to be raced, and in the correct session, in order to qualify NCR Ch.12 App.6 Art.3.1.
3. Each qualifying session will be split into 2 components (A & B.) Session A will set the grid for the first race, after 10 minutes a chequered flag will be shown, and ALL cars will return to pitlane. Shared cars will then be permitted to change driver in pitlane, with Session B commencing once all cars have returned to pitlane. Solo driven cars are requested to immediately proceed to the pit exit to await release which will be signalled via the green light. Times from Session B will determine the grid for the second race. For shared cars, drivers/entrants must inform the Race Administration Team which driver is participating in each session prior to 8.00am on the morning of the event.

4. RACES: Should any race be disrupted the Clerk of the Course shall not be obliged to resume or rerun the race NCR Ch.12 App.6 Art.9 (1.6.4. above applies).

5. STARTS:

1. All cars will be released to form up on the grid prior to the start in formation as specified on the grid sheet.
2. The start will be via Standing start. The minimum Countdown procedures/audible warnings sequence shall be:-
 - I. 1 minute to start of Green Flag Lap - Start Engines/Clear Grid.
 - II. 30 Seconds - Visible and audible warning for start of Green Flag Lap.
 - III. A five second board will be used to indicate that the grid is complete.
 - IV. The red lights will be switched on five seconds after the board is withdrawn.
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 Lap or start are required to indicate their situation as per NCR Ch.12 App.6 Art.6.11. 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 Light Panels / 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:

- 1 Pits & Paddock: Competitors must ensure that MOTORSPORT UK, Circuit Management and Organising Club Safety Regulations are complied with at all times (NCR Ch.12 App.11)
2. 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.
3. Refuelling: May only be carried out in accordance with the requirements of NCR Ch.12 App.11, the Organising Club Regulations, Circuit Management Regulations and the SRs or Final Instructions issued for each Circuit/Meeting.
4. Speed Limit: Pit Lane Speed Limit will be 60 km/h or as notified in the Final Instructions or Bulletin for the Event.

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

- I. progressively and safely slow down
- II. remain behind any competitors ahead of them,
- III. return to the Pit Lane Entrance/Paddock Entrance as instructed,
- IV. comply with any directions given by Marshals or Officials
- V. keep 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

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released by Scrutineers after Post Practice/Race Scrutineering and/or after completion of any Judicial or Technical Procedures. NCR Ch.3 App.6 Art.1.4.

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: N/A

12. OPERATION OF SAFETY CAR: The Safety Car will be brought into operation and run in accordance with NCR Ch.12 App.8 Art.2.

13. ONBOARD CAMERAS:

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 NCRs and be approved by the Chief Scrutineer in accordance with NCR Ch.7 App.9

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 ensure the SD card has enough capacity to record 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. The SD card must ONLY contain the files from the event in question

- a. First offence – ~~Championship Reprimand~~ Championship Points Deduction – Equivalent to a 10th place finish.
- b. Second Offence - Championship Points Deduction – Equivalent to a 5th ~~an 8th~~ place finish.
- c. Third Offence - Disqualification.

3: SPECIFIC CHAMPIONSHIP REGULATIONS

1. By registering for the Championship all competitors and their associates commit to positively promote and demonstrate the Motorsport UK's Respect Code.

Where any reports of disrespectful conduct are judged to be well founded the Championship organisers may issue warnings or require remedial actions and/or report the matter to the Championship Stewards who may impose appropriate penalties which can include loss of Championship points and/or race bans through to Championship Expulsion and referral to Motorsport UK.

It is imperative that we promote the safety and wellbeing of young people and adults at risk. In addition to this all participants must be aware of their behaviour and conduct at all times and abusive language and harmful behaviour will not be tolerated. Any such incidents must be reported to the Championship Coordinator and/or Safeguarding Officer who will also relay the report Motorsport UK. Details of the Motorsport UK Policies and Guidelines are available at www.motorsportuk.org/resource-centre by selecting Policies and Guidelines.

2. 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. Alternatively, at double header race meetings, should there be sufficient space within the timetable, the Organising Club may divide the grid after qualifying into 3 separate Groups. The Groups will then form 3 races whereby each competitor participates in two races. All 3 races will be eligible for full championship points.

3. The Championship co-ordinator reserves the right to request the fitting of a 750MC owned data logging system to any car prior to competition. Failure to comply will result in disqualification.

4. The championship organizers reserves the right to place a competitor's car on a mobile dynamometer whilst in parc

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ferme. Failure to comply will result in disqualification.

4: SPECIFIC CHAMPIONSHIP PENALTIES:

In accordance with the current Motorsport UK National Competition Rules (NCR) Chapter 2 and additionally:

4.1: INFRINGEMENT OF TECHNICAL REGULATIONS:

1. Arising from post practice Scrutineering or Judicial Action: Minimum Penalty: The provisions of NCR Ch.2 App.8.
2. Arising from post-race Scrutineering or Judicial Action: Minimum Penalty: The provisions of NCR Ch.2 App.8.
3. For infringements deemed to be of a more serious nature the Clerk of the Course ~~will~~ may invoke the provisions of NCR Ch.2 App.8 Art.2

4.2: ADDITIONAL SPECIFIC CHAMPIONSHIP PENALTIES

1. In the case of a driver being disqualified from a race, the Clerk of Course will impose the penalties set out in NCR Ch.2 App.8 may impose the penalty set out in NCR Ch.2 App.8 Art.2.
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 NCR Ch.12 App.10 Art.2.
4. 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 the NCRs, 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.
5. 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 NCR Ch.2 App.2 Art.4 (subject to the rights of appeal provided for in NCR Ch.2 App.5 Art.1.)
6. One or more of the following may be imposed by the Championship Stewards as appropriate;
 - a) Reprimand
 - b) Fine. This may be also applied in the case of a driver receiving three reprimands from the Championship Stewards in one season.
 - c) 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 – CLASS A "116 SPRINT CUP"

5.1: INTRODUCTION:

- a) 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.
- b) **STANDARD:** The word 'standard' used within these technical regulations as a description of components is to be interpreted as per 'Standard Part' defined in NCR Ch.1 App.1. 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. Where specifications for parts



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(e.g camshaft, final drive, gear ratios, anti-roll bars etc) are stated within table 6.3 of these regulations, they are mandatory for that make and model of car.

c) STANDARD PATTERN: The words 'standard pattern' used within these technical regulations as a description of components is to be interpreted as per 'Standard Pattern Part' defined in NCR Ch.1 App.1. Checking will be by comparison to spare parts supplied by the manufacturer's official agent or by any other means necessary to ensure compliance.

d) Homologation papers, including VO, VK or ES extensions, will not be accepted as proof of specification of any components.

5.2: GENERAL DESCRIPTION:

The 116 Trophy is for competitors participating in the BMW E87 5-Door, 5-Speed (1596cc n45 engine.) Only UK & European 2004-2006 domestic market are permitted. There are no restrictions on the transport of cars to and from the circuit.

Cars will run in one class. Non scoring "Invitational Cars" may be admitted at the discretion of the Championship organiser, The 116 Trophy technical regulations are intended to allow competitors to produce race cars that are safe, affordable and of a near identical level of performance, with the emphasis placed firmly on driver ability. Competitors are therefore asked to keep this in mind when building or modifying race cars and are encouraged to seek guidance from the Championship Co-ordinator where appropriate. A modification that gives a performance advantage at a high financial cost will almost certainly be illegal, or possibly outlawed in future regulations. Competitors seeking to gain a power advantage can expect to exceed the maximum power allowed for the 116 Trophy Championship of **130 bhp** at the flywheel, tested on a Championship nominated MAHA Dyno.

The 116 Trophy is not a development formula. **IF ITS NOT IN THESE REGULATIONS IT IS NOT PERMITTED.**

Examination of vehicles. The organisers (in addition to any other powers they may have under these regulations) reserve the right before or after any race in the Championship to designate any one or more of the competing cars for special eligibility scrutineering. Competitors must be prepared, with tools and spare parts as necessary, to enable inspection of components, or to have units sealed at the circuit for later inspection by an Eligibility Scrutineer at the Competitor's expense.

Upon such selection being made the competitor shall immediately place the car under the control of the organisers and be deemed to have permitted all such scrutineering, examination and testing as the organisers may reasonably require. The organisers have the right to:

a) Examine the car at the circuit for such period as they may reasonably require and take fuel samples.

b) Retain the car for detailed examination at premises chosen by the organisers. If the organisers elect to retain the car they shall make it available for collection by the competitor at least seven days prior to the qualification session for the next race in the Championship unless the car is found to be in breach of these regulations.

c) Seal the car and any of its components in such a manner as they may choose and require the competitor at their own expense to present the car at any other premises chosen by the organisers for detailed examination within a specified period and / or remove the car by transporter at no expense to the competitor to an appointed location. The competitor will be advised in writing of the time, date and location of the subsequent testing or eligibility examination. The overseen stripping of the engine or any required component will be undertaken by the competitor and / or mechanic / technician nominated by the competitor.

d) The scrutineer can at their discretion request the removal of any part for their further inspection and testing. If the scrutineer decides to retain any part for further inspection over a race weekend, a fully eligible replacement part will be provided by the scrutineer at the time of removal, allowing the competitor to continue racing.

e) The colour scheme for any car is free but the car must be presented in a good, clean condition and any damage sustained must be made cosmetically good, to the approval of the Championship before the next event. Failure to do so will be considered non-compliant. Cars must have all decals affixed as per the issued decal sheet The Championship will deem any cars not carrying all decals to be non-compliant.

5.3: SAFETY REQUIREMENTS:

All entrants, competitors and their vehicles must comply with the relevant articles of NCR Chapters 7 & 9

Roll cages: Only the 6-point roll cages authorised by 116 Racing LTD are permitted (see Appendix A.)

Other: Extinguishers must comply with NCR Ch.7 App 6 Art.1. Seat belts must be FIA homologated and as per NCR Ch.7 App.7.

5.4: GENERAL TECHNICAL REQUIREMENTS & EXCEPTIONS:

All cars must comply with the requirements of the current NCR Ch.7 and NCR Ch.12 App.13. All vehicles must be of sound construction and mechanical condition and be well maintained. Water hoses, oil hoses and their associated



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clips are free. Fasteners (e.g. nuts, bolts) are free. Rose Joints of any type are prohibited [except where fitted to mandatory items]. The organisers reserve the right to refuse entry from any car of which the preparation is of a poor standard (including the external appearance) and which is likely to bring the Championship into disrepute.

5.5: CHASSIS:

No chassis stiffening is permitted except that derived from the fitting of the roll cage. Seam welding is strictly forbidden. Cutting, grinding, drilling, or acid dipping to remove components or material from the chassis is strictly forbidden. It is prohibited to change the standard thickness of the shell, by dipping or sandblasting. Seam sealer may only be removed up to a maximum of 50mm from the periphery of roll cage mounting feet. It is forbidden to remove seam sealer from anywhere else on the interior or exterior of the shell.

Towing eyes must be fitted front & rear and must have a minimum internal diameter of 60mm; (note the tow eye may be of either a suitable rigid or flexible material bolted to the chassis). 1 single hole per tow wire is permitted in the front/rear bumpers. The plastic "Jack Fixture" (BMW Part No: 31 11 6 761 462) fitted to the front subframe and the 4 x plastic "Lift Supports" fitted to the vehicle sills (BMW Part No: 51 71 7 237 195) may be removed.

5.6: BODYWORK:

1. Modifications Permitted:

1. General: Mandatory fitment of laminated windscreen. Door windows and rear windscreen must be standard glass. Safety film on the glass is permitted. It is permitted to replace rear door glass with polycarbonate in order to facilitate the fitment of vents or NACA ducts to cool the driver.

2. Interior: Driver's seat must be replaced with a competition seat fitted in accordance with NCR Ch.7 App.7 Art.2. All passenger seats, floor coverings, roof lining, sound deadening materials, radio/stereo units, speakers and associated wiring may be removed. Redundant interior metal brackets such as rear seat mountings may be removed, however competitors should bear in mind that if the removal of any material results in weakening the structural integrity of any panel, then the Clerk of the Course (at their own discretion) will be fully authorised to exclude the vehicle from competing.

Spare wheel & associated parts, and all tools must be removed.

Rear plastic battery box can be removed and hole covered by a strong aluminium or carbon fibre panel. Additional instruments are permitted, but the original dash binnacle and instrument cluster, must be retained and fitted in their original positions. The main body of the standard dashboard must be retained and securely fitted in its original position, however localised trimming is permitted to allow roll cage fitment and the addition of aftermarket switchgear or pull cables. Glove box lid must be in place, hinges can be removed.

Steering wheel may be changed. Air bags must be disabled if the standard steering wheel is used. Glass sunroofs must be removed or replaced as per NCR Ch.12 App.13 Art.11.8. It is permitted to remove air-conditioning if fitted, the original heater matrix, mechanism and blower must be retained and in full working order.

An interior (standard or non-standard) rear view mirror must be fitted to the left of the driver.

Rear Doors Can Be Stripped of redundant electrics and window lifting parts. The centre console must be retained but the arm rest may be removed. If the original interior door panels are removed they must be replaced with strong aluminium or composite sheeting - this must be executed to a high standard with no sharp edges and with smooth surface.

3. Exterior: Bonnet, Front Wings, Front Bumper, Rear Bumper, Doors And Tailgates must remain standard.

Only the pre-LCI (2004 to 2007) BMW E87 ES /SE and Sport bodywork is permitted, LCI bumpers, Msport Bumpers and Side Skirts are prohibited. Door mirrors must be fitted on both sides of the vehicle, only standard OEM mirrors are permitted.

The original number of front windscreen wiper arms/blades must remain and be fully functioning, the rear wiper can be removed, all weather strips/channels must be retained.

The standard engine bay cover locking mechanism must be disabled; only bonnet pins may be used to secure the engine bay cover in the closed position. The left-hand lateral underbody shield (BMW Part No: 51757059389) must be retained in order to protect pipework on the underside of the vehicle. The engine undertray and plastic wheel arch liners may be removed.

4. Silhouette: All cars have to retain the original E87 ES/SE or Sport profile. It is permitted to remove the front fog lamps, the front and rear bumpers may not be aesthetically modified in any way and retain standard in appearance (other than for localized trimming to allow fitment of towing straps). The rear bumper must retain its diffuser insert which must not be modified in anyway.



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5. Ground Clearance: It is permitted to alter the ride height. Under no circumstances can any part of the bodywork, or suspended part of the car excluding the exhaust system, be below a horizontal plane passing 65mm above the ground. The car should be in normal racing trim with the driver aboard and steering in straight ahead position. A gauge of 65mm may be used by Scrutineers before or after races or practice to check the ground clearance; the vehicle may be stationary or moving during any testing. There is no tolerance to this measurement.

2. Modifications Prohibited:

1. General: Other than those panels detailed in 5.6.1.3 the exterior of the car must be standard for the model being raced. All of the bodysheet and any replacement body panels must be of original shape, material and thickness.
2. Interior: A full width dashboard must be used.
3. Exterior: It is not permitted to increase the width of the wheel arch by the addition of material to, or the deformation of, the outside of the wheel arch but the inside lip may be. Bonnet must remain in the normal position and, when closed, must not have any non-standard gaps at any of their edges. Fitment of tape, sealant or addition of any material of any type to close body gaps (e.g. bonnet to wing) is prohibited. It is not permitted to add any non-standard material or structure to the underbody or outer floor plan.
4. Silhouette: Any in contravention of 5.6.1.4.
5. Ground Clearance: Any in contravention of 5.6.1.5.

5.7: ENGINE:

The only permitted engine is the BMW N45 B16. All internal engine parts must be original or OEM unmodified pattern parts from the N45 B16. (No internal engine components from the N45 B20S engine are permitted)

It is the competitor's responsibility to ensure that no prohibited modifications have been carried out if they are using an engine not assembled by them. Checking of engine parts will be by comparison to spare parts supplied by the manufacturer's official agent or by any other means necessary to ensure compliance.

Drivers may be requested to take their vehicle (at their own expense) to one of the Championship designated rolling roads either prior to participation or after competing (including the 750 Motor Club mobile MAHA dyno) where the car will be power tested in order to assess whether it is compliant. Failure to comply will result in disqualification.

The designated rolling road centres for the Championship (including the 750 Motor Club mobile MAHA dyno) will all use MAHA LPS 3000 or FPS 2700 equipment. The maximum permitted power must be within the stated peak flywheel horsepower of **130bhp**, as measured on the day (please be aware, the manufacturers stated accuracy is plus/minus 2%). Drivers are advised to check the power of their cars prior to using one of the designated MAHA rolling road centres listed in Appendix C.

1. Modifications Permitted:

No modifications are permitted beyond the repair or adjustment. No other modifications are permitted beyond the repair or adjustment processes specifically specified by the manufacturers 'workshop manual. Engine and gearbox must remain in its standard location. Lowering of engine or moving towards bulkhead is prohibited. Replacement of the Standard Dual Mass Flywheel by the TTV Racing aftermarket flywheel is permitted (see Appendix A.)

2. Modifications Prohibited:

Any other than those permitted in 5.7.1. It is specifically prohibited to modify the cylinder head in anyway. Skimming the head and reboring the cylinders is prohibited. The engine block bore must measure a maximum of 84mm. The OE 72mm crankshaft must be retained. The removal of material as a means of lightening any internal engine part is prohibited. The removal or addition of materials as a means of balancing any internal engine part is prohibited. Camshaft profiles and cam timing must remain as standard.

3. Location:

Position and mounting method must be standard for the e87 N45 B16 model.

4. Oil/Water cooling:

Water radiators must remain standard, aftermarket electric fans are permitted. The standard water pump and pulley must be used. An aftermarket oil pressure sender and remote cockpit gauge is permitted, the sender must be fitted to the oil filter body housing using the OEM blank provided. It is permitted to remove the standard oil filter housing (BMW part no. 11427530668) and replace with alternative E87 1-Championship oil filter housing (BMW part no. 11427508966), in order to fit either:

- BMW heat exchanger (for hot climates) part no. 11427508967 and associated pipework.
- or



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- Aftermarket take off plate 116T001 (available from 116 Racing Ltd for registered drivers) in order to fit an aftermarket oil cooler and associated pipework.

No other modifications are permitted to the oil system.

5. Induction Systems:

The complete induction system must remain as standard

No modifications are permitted to the induction system apart from the fitment of a larger diameter BMW throttle body (BMW Part No. 13541439580 or pattern equivalent), and its associated parts. These include Air Boot (BMW Part No 13717555289 or pattern equivalent), Mass Air Flow Meter (BMW Part No 13627533853 or pattern equivalent) and Airbox (BMW Part No 13717543163). All parts must be unmodified and complete, and the standard 116i air probe must be fitted and operational. A foam or paper air filter element must be fitted and complete but the type is free, either aftermarket or BMW Part No 13717532754. The crankcase breather may vent directly to a catch tank and any holes in the air filter housing associated with the breather system may be blanked off.

6. Exhaust systems:

Exhaust systems must exit at the rear of the vehicle. The standard exhaust manifold and system must be replaced with the Klarius system (see Appendix A) which must remain unmodified. Catalytic converters must be retained, all exhaust gasses must pass through the catalytic converters, emissions testing may be carried out to ensure compliance.

7. Ignition systems:

The only ECU permitted is the 116 Championship ECU (see Appendix A.) No alternative or additional ECU is permitted; spark plugs are free. All original engine sensors must be fitted and operational. The OBD port must remain accessible and fully functional in order to allow diagnostic testing and ECU interrogation.

8. Fuel delivery systems:

It is permitted to replace the fuel lines and filter. Fuel pumps and pressure regulator must be standard and unmodified. Fuel Pressure testing may be carried out at any time to ensure that the fuel rail pressure does not exceed production limits.

5.8: SUSPENSIONS:

1. Permitted modifications:

It is a Mandatory for all cars to run with the Gaz 116 Trophy Suspension Kit including top mounts, which must be unmodified.

Anti-roll bars must be production BMW E87 ES/SE N45 116i 2004-2006 items of the following diameter bars (see Appendix A):

Front Diameter = 26.5mm, Rear Diameter = N/A. - Front anti-roll bar drop links are free.

It is permitted to fit the following E90/92/92 M3 Track Control Arms to allow a wider range of front negative camber adjustment to a maximum of -4 degrees – BMW part nos. 31102283577 (LH) and 31102283578 (RH) in addition to the following E90/92 M3 Tension Arms – BMW part nos. 31102283575 (LH) and 31102283576 (RH.) These may be BMW OEM or pattern parts but must be unmodified. Suspension bushes may be replaced with either standard rubber OEM bushes or any aftermarket polyurethane bush, the use of adjustable or eccentric bushes is permitted. It is prohibited to use solid bushes such as alloy. Rose joints are not permitted other than on top mounts supplied with the suspension kit. Maximum front castor and camber is set using the mandatory adjustable top mounts

It is permitted to add a gusset to the rear toe arms on the rear axle, this gusset must be welded in place and are available for purchase from 40 Forty Racing see Appendix A or alternatively manufactured to the exact drawing in Appendix D of these regulations.

2. Prohibited modifications:

Modifications to the suspension pick-up points are prohibited; this includes altering (including slotting) the suspension strut mounting points on the chassis and where the suspension attaches to the front and rear subframes. The use of eccentric / adjustable control arm bushes is prohibited.

Rear adjustment of castor and camber can only be set using OEM components. Front camber may not exceed 4.00 degrees Negative.

Front and Rear Strut Braces are prohibited

3. Wheelbase:

The wheelbase must be standard for the model being raced; wheels must fit into original wings front and rear without any rolling of the arches, brackets/tabs on the wing for holding the original plastic under arch trims may be folded out of the way or removed. The track may only be changed by using wheels of a maximum offset of ET20, wheel spacers are prohibited.



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5.9: TRANSMISSIONS:

1. Permitted modifications:

The only permitted gearbox options are the standard Getrag Type F 5 speed manual as fitted to the BMW E87 N45 116i 2004-2006

Dual Mass flywheels may only be replaced with original or pattern items or converted to the single mass flywheel option as shown in Appendix A.

Clutches may be replaced with aftermarket options but must be single plate only. The original manual gear lever may be replaced with any OEM BMW Part.

The standard E87 116i open diff assembly and casing must be used and unmodified in all respects including the 3.6:1 final drive ratio.

2. Prohibited modifications:

Aftermarket limited slip, locked, locking, torque biasing or spring preloaded differentials or similar are prohibited.

3. Transmissions & Drive ratios:

The use of any aftermarket traction control device is prohibited. Final drive ratio must be 3.6:1 (see 5.9.1)

5.10: ELECTRICS

1. Exterior Lighting:

Must be as per standard fitment and be fully operational including the reversing lamp.

2. Rear Warning Light:

A rear fog light to NCR Ch.7 App.5 Art.6 must be fitted and working.

3. Batteries:

Battery is free but may be relocated. A battery and electric starter motor must be fitted and be capable of repetitive starts. No external (slave) batteries may be used.

4. Generators:

A fully working standard alternator and standard pulley must be fitted and electrically connected so that the standard battery charging function is providing a charge to the on-board battery.

5. No cutting out of excess wiring from the engine loom is permitted.

5.11: BRAKES

1. Permitted modifications:

All cars must have the standard ABS / DCS system in full working order. Front brake callipers must be standard. Front brake disks Must be standard or standard pattern of a maximum diameter of 284mm.

Rear brake callipers must be standard. Rear brake disks must be standard or standard pattern of a maximum diameter of 280mm.

Brake pads are free. Deformation or removal of back plates is permitted, brake fluid is free. Flexible hoses may be replaced with aftermarket parts. The braking system must remain fully operational in all aspects at all times (excluding the handbrake.)

2. Prohibited modifications:

It is not permitted to use any drilled or grooved discs A hydraulically-operated handbrake is not permitted. Rear brake hydraulic line locks are not permitted.

5.12: WHEELS / STEERING

1. Permitted modifications:

An original, unmodified E87 116i BMW steering rack must be used. The steering lock should be rendered inoperative, unless the vehicle is driven to the circuit on the highway.

2. Prohibited modifications: No machining or other modification of the road wheels are permitted. Power assistance of the steering may not be disabled, the standard PAS pump and pulley must be used.

3. Construction & Materials: Magnesium wheels are prohibited. The only permitted wheel options are OEM 16" BMW wheels as per 5.12.4 or Revolution CR10 wheels as per 5.12.4 which are available from Demon Tweeks (contact Nick Smith – Tel: 01978 663064 Email: nicks@demon-tweeks.co.uk)

4. Dimensions: 16" x 7"J et20 only.

5. Wheel Spacers: Wheel spacers are prohibited; competitors should ensure that wheel bolts are of sufficient length to adequately secure each wheel. Wheel hubs may be fitted with conversion studs to accept wheel nuts.

5.13: TYRES



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1. The only permitted tyres for the competitor is the Nankang NS2-R supplied by Nankang UK (see Appendix A) in 205/45/16 size. All tyres must be bought from the official 116 Championship supplier and have the specific 116 Trophy markings (see Appendix A.) The original tread pattern must remain visible at all times, and with a minimum tread depth of 1.6mm. No shaving or buffing is allowed. The use of tyre heating/heat retention devices, chemical tyre treatments and compounds is strictly prohibited.

5.14: VEHICLE WEIGHT:

1220 kgs including driver and race personal equipment.

Random checks will be carried out during the season and no car should ever be below this minimum weight.

5.15: FUEL TANK / FUEL

1. Types: Standard 52L tank must be fitted, it is permitted to fit a dry break refuelling system to the standard filler neck in accordance with NCR Ch.7 App.4. The standard fuel filler cap can be removed to facilitate fitment of this system.
2. Locations: Tank must be in standard position.
3. Fuel: Only fuel as defined in NCR Ch 8 App. 1 Art 1.7 may be used. Fuel which exceeds the stated RON (max) levels in NCR Ch 8 App. 1 Art 1.7a 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 teams 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.

5.16: SILENCING:

All vehicles must comply with the relevant maximum noise limits set out in NCR Ch.7 App.8.

5.17: NUMBERS & CHAMPIONSHIP DECALS

1. **Positions:** The race numbers for each rear side window shall be;

- (i) A minimum of 200mm high
- (ii) With a stroke width of at least 20mm
- (iii) Coloured Day-Glo yellow.

In addition, the windscreen of all cars must display the competition number 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.

750 Motor Club decals must be affixed prominently. Championship Sponsor's decals (where applicable) must be affixed in or near the positions mandated by the organisers. 750 Motor Club and Championship Sponsor's decals must take preference to any other decals. Drivers may be requested to remove decals that are viewed as conflicting with official Championship Sponsors. Failure to comply will render the vehicle and driver ineligible to race.

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

6: TECHNICAL REGULATIONS – CLASS B "120 COUPE CUP"

6.1: INTRODUCTION:

a) 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. By registering from the Championship, you agree to abide to regulations and random checks by 120 Coupe Cup officials and by scrutineers. The fact that some modifications are mentioned as prohibited does not imply that others are allowed.

b) **STANDARD:** The word 'standard' used within these technical regulations as a description of components is to be interpreted as per 'Standard Part' defined in NCR Ch.1 App.1. Checking will be by comparison to spare parts supplied by the manufacturer's official agent or by any other means necessary to ensure compliance.

STANDARD PATTERN: The phrase 'standard pattern' used within these technical regulations as a description of components is to be interpreted as per 'Standard Part' defined in NCR Ch.1 App.1. Checking will be by comparison to spare parts supplied by the manufacturer's official agent or by any other means necessary to ensure compliance.



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6.2: GENERAL DESCRIPTION:

The 120 Coupe Cup is for competitors participating in the BMW E82 3-Door, 5-Speed (2000cc n43 b20 engine.) Only UK & European domestic market cars in right hand drive are permitted. There are no restrictions on the transport of cars to and from the circuit.

Cars will run in one class. Non scoring "Invitational Cars" may be admitted at the discretion of the cup coordinator, The 120 Coupe Cup technical regulations are intended to allow competitors to produce race cars that are safe, affordable and of a near identical level of performance, with the emphasis placed firmly on driver ability. Competitors are therefore asked to keep this in mind when building or modifying race cars and are encouraged to seek guidance from the Championship Organiser where appropriate. A modification that gives a performance advantage at a high financial cost will almost certainly be illegal, or possibly outlawed in future regulations. Competitors seeking to gain a power advantage can expect to exceed the maximum power allowed for the 120 Coupe Cup Championship of 195bhp 190 bhp at the flywheel, tested on a Championship nominated MAHA Dyno.

The 120 Coupe Cup is not a development formula. **IF ITS NOT IN THESE REGULATIONS IT IS NOT PERMITTED.**

Examination of vehicles. The organisers (in addition to any other powers they may have under these regulations) reserve the right before or after any race in the Championship to designate any one or more of the competing cars for special eligibility scrutineering. Competitors must be prepared, with tools and spare parts as necessary, to enable inspection of components, or to have units sealed at the circuit for later inspection by an Eligibility Scrutineer at the Competitor's expense.

Upon such selection being made the competitor shall immediately place the car under the control of the organisers and be deemed to have permitted all such scrutineering, examination and testing as the organisers may reasonably require. The organisers have the right to:

- a) Examine the car at the circuit for such period as they may reasonably require and take fuel samples.
- b) Retain the car for detailed examination at premises chosen by the organisers. If the organisers elect to retain the car they shall make it available for collection by the competitor at least seven days prior to the qualification session for the next race in the Championship unless the car is found to be in breach of these regulations.
- c) Seal the car and any of its components in such a manner as they may choose and require the competitor at their own expense to present the car at any other premises chosen by the organisers for detailed examination within a specified period and / or remove the car by transporter at no expense to the competitor to an appointed location. The competitor will be advised in writing of the time, date and location of the subsequent testing or eligibility examination. The overseen stripping of the engine or any required component will be undertaken by the competitor and / or mechanic / technician nominated by the competitor.
- d) The scrutineer can at their discretion request the removal of any part for their further inspection and testing. If the scrutineer decides to retain any part for further inspection over a race weekend, a fully eligible replacement part will be provided by the scrutineer at the time of removal, allowing the competitor to continue racing.
- e) The colour scheme for any car is free but the car must be presented in a good, clean condition and any damage sustained must be made cosmetically good, to the approval of the Championship before the next event. Failure to do so will be considered non-compliant. Cars must have all decals affixed as per the issued decal sheet The Championship will deem any cars not carrying all decals to be non-compliant.

6.3: SAFETY REQUIREMENTS:

All entrants, competitors and their vehicles must comply with the relevant articles of NCR Chapters 7 & 9

Roll cages: Only the 6-point roll cage supplied by 116 Racing LTD is permitted (see Appendix B.)

Other: Extinguishers must comply with NCR Ch.7 App 6 Art.1. Seat belts must be FIA homologated and as per NCR Ch.7 App.7.

6.4: GENERAL TECHNICAL REQUIREMENTS & EXCEPTIONS:

All cars must comply with the requirements of the current NCR Ch.7 and NCR Ch.12 App.13.

All vehicles must be of sound construction and mechanical condition and be well maintained. Water hoses, oil hoses and their associated clips are free. Fasteners (e.g. nuts, bolts) are free. Rose Joints of any type are prohibited [except where fitted to mandatory items]. The organisers reserve the right to refuse entry from any car of which the preparation is of a poor standard (including the external appearance) and which is likely to bring the Championship into disrepute.

6.5: CHASSIS:

DRAFT VERSION

Issued date 23/01/2026



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No chassis stiffening is permitted except that derived from the fitting of the roll cage. Seam welding is strictly forbidden. Cutting, grinding, drilling, or acid dipping to remove components or material from the chassis is strictly forbidden. It is prohibited to change the standard thickness of the shell, by dipping or sandblasting. Seam sealer may only be removed up to a maximum of 50mm from the periphery of roll cage mounting feet. It is forbidden to remove seam sealer from anywhere else on the interior or exterior of the shell.

Towing eyes must be fitted front & rear and must have a minimum internal diameter of 60mm; (note the tow eye may be of either a suitable rigid or flexible material bolted to the chassis). 1 single hole per tow wire is permitted in the front/rear bumpers. The plastic "Jack Fixture" (BMW Part No: 31 11 6 761 462) fitted to the front subframe and the 4 x plastic "Lift Supports" fitted to the vehicle sills (BMW Part No: 51 71 7 237 195) may be removed.

6.6: BODYWORK:

1. Modifications Permitted:

1. General: Mandatory fitment of laminated windscreen. front Door windows must be standard glass. Safety film on the glass is permitted. It is permitted to replace rear door glass and Rear Screen with plastic to facilitate the fitment of vents to cool the driver From ACW Motorsport Plastics 0750171383

2. Interior: Driver's seat must be replaced with a competition seat fitted in accordance with NCR Ch.7 App.7 Art.2.

~~K2-2~~ All passenger seats, floor coverings, roof lining, sound deadening materials, radio/stereo units, speakers and associated wiring may be removed. Redundant interior metal brackets such as rear seat mountings may be removed, however competitors should bear in mind that if the removal of any material results in weakening the structural integrity of any panel, then the Clerk of the Course (at their own discretion) will be fully authorised to exclude the vehicle from competing.

Spare wheel & associated parts, and all tools must be removed.

Rear plastic battery box can be removed and hole covered by a strong aluminium or carbon fibre panel

Rear metal parcel shelf and centre roof spar can be removed to facilitate the fitment of the mandatory rollcage

Additional instruments are permitted, but the original dash binnacle and instrument cluster, must be retained and fitted in their original positions. The main body of the standard dashboard must be retained and securely fitted in its original position, however localised trimming is permitted to allow roll cage fitment and the addition of aftermarket switchgear or pull cables. Glove box lid must be in place, hinges can be removed.

Steering wheel may be changed. Air bags must be disabled if the standard steering wheel is used. Glass sunroofs must be removed or replaced as per NCR Ch.12 App.13 Art.11.8. It is permitted to remove air-conditioning if fitted, the original heater matrix, mechanism and blower must be retained and in full working order .

An interior (standard or non-standard) rear view mirror must be fitted to the left of the driver.

Rear Doors Can Be Stripped of redundant electrics and window lifting parts. The centre console must be retained but the arm rest may be removed. If the original interior door panels are removed they must be replaced with strong aluminium or composite sheeting - this must be executed to a high standard with no sharp edges and with smooth surface.

3. Exterior: , Front Wings, Front Bumper, Rear Bumper, and Doors must remain standard. Bonnet and Rear Trunk can be replaced with single skin fibreglass ,from ABS Panels LTD 07968 818302

Only The BMW E82 ES /SE and MSport bodywork is permitted,. Door mirrors must be fitted on both sides of the vehicle, only standard OEM mirrors are permitted

The original number of front windscreen wiper arms/blades must remain and be fully functioning,, all weather strips/channels must be retained.

The standard engine bay cover locking mechanism must be disabled; only bonnet pins may be used to secure the engine bay cover in the closed position. The left-hand lateral underbody shield (BMW Part No: 51757059389) must be retained in order to protect pipework on the underside of the vehicle. The engine undertray and plastic wheel arch liners may be removed.

4. Silhouette: All cars have to retain the original E82 ES/SE or Sport profile. It is permitted to remove the front fog lamps, the front and rear bumpers may not be aesthetically modified in any way, and retain standard in appearance (other than for localized trimming to allow fitment of towing straps). The rear bumper must retain its diffuser insert which must not be modified in anyway.

5. Ground Clearance: It is permitted to alter the ride height. Under no circumstances can any part of the bodywork, or suspended part of the car excluding the exhaust system, be below a horizontal plane passing 65mm above the ground. The car should be in normal racing trim with the driver aboard and steering in straight ahead position. A gauge of 65mm may be used by Scrutineers before or after races or practice to check the ground clearance; the vehicle may be stationary or moving during any testing. There is no tolerance to this measurement.



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2. Modifications Prohibited:

1. General: Other than those panels detailed in 5.6.1.3 the exterior of the car must be standard for the model being raced. All of the bodyshell and any replacement body panels must be of original shape, material and thickness.
2. Interior: A full width dashboard must be used.
3. Exterior: It is not permitted to increase the width of the wheel arch by the addition of material to, or the deformation of, the outside of the wheel arch but the inside lip may be. Bonnet must remain in the normal position and, when closed, must not have any non-standard gaps at any of their edges. Fitment of tape, sealant or addition of any material of any type to close body gaps (e.g. bonnet to wing) is prohibited. It is not permitted to add any non-standard material or structure to the underbody or outer floor plan.
4. Silhouette: Any in contravention of 5.6.1.4.
5. Ground Clearance: Any in contravention of 5.6.1.5.

6.7: ENGINE:

The only permitted engine is the BMW N43 B20. All internal engine parts must be original or OEM unmodified pattern parts from the N43 B20. (No internal engine components from the N45 B20S engine are permitted)
It is the competitor's responsibility to ensure that no prohibited modifications have been carried out if they are using an engine not assembled by them. Checking of engine parts will be by comparison to spare parts supplied by the manufacturer's official agent or by any other means necessary to ensure compliance.
Drivers may be requested to take their vehicle (at their own expense) to one of the Championship designated rolling roads either prior to participation or after competing (including the 750 Motor Club mobile MAHA dyno) where the car will be power tested in order to assess whether it is compliant. Failure to comply will result in disqualification.

The designated rolling road centres for the Championship (including the 750 Motor Club mobile MAHA dyno) will all use MAHA LPS 3000 or FPS 2700 equipment. The maximum permitted power must be within the stated peak flywheel horsepower of ~~190bhp~~ 195bhp. Drivers are advised to check the power of their cars prior to using one of the designated MAHA rolling road centres listed in Appendix C.

1. Modifications Permitted:

No modifications are permitted beyond the repair or adjustment. No other modifications are permitted beyond the repair or adjustment processes specifically specified by the manufacturers' workshop manual. Engine and gearbox must remain in its standard location. Lowering of engine or moving towards bulkhead is prohibited. Replacement of the Standard Dual Mass Flywheel by the TTV Racing aftermarket flywheel is permitted (see Appendix B.) OEM BMW Connection Rods with Part Nos. 11247589533 may be used. Aftermarket Connecting Rod bolts are permitted.

2. Modifications Prohibited:

Any other than those permitted in 5.7.1. It is specifically prohibited to modify the cylinder head in anyway. Skimming the head and reboring the cylinders is prohibited. The engine block bore must measure a maximum of 84mm. The OE 90mm crankshaft must be retained. The removal of material as a means of lightening any internal engine part is prohibited. The removal or addition of materials as a means of balancing any internal engine part is prohibited. Camshaft profiles and cam timing must remain as standard.

3. Location:

Position and mounting method must be standard for the e82 N43 B20 2007 to 2012 model.

4. Oil/Water cooling:

Water radiators must remain standard, aftermarket electric fans are permitted. The standard water pump and pulley must be used. An aftermarket oil pressure sender and remote cockpit gauge is permitted, the sender must be fitted to the oil filter body housing using the OEM blank provided. It is permitted to remove the standard oil filter housing (BMW part no. 11427530668) and replace with alternative E82 1-Championship oil filter housing (BMW part no. 11427508966), in order to fit either:

- BMW heat exchanger (for hot climates) part no. 11427508967 and associated pipework.
- or
- Aftermarket take off plate 116T001 (available from 116 Racing Ltd for registered drivers) in order to fit aftermarket oil cooler and associated pipework.

It is permitted to fit the uprated Sump Baffle, Windage Tray and Oil Pick Up Kit supplied by 116 Racing (see Appendix B.)



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5. Induction Systems:

The complete induction system must remain as standard

No modifications are permitted to the induction system apart from the fitment of a larger diameter BMW throttle body (BMW Part No. 13541439580 or pattern equivalent), and its associated parts. These include Air Boot (BMW Part No 13717555289 or pattern equivalent), Mass Air Flow Meter (BMW Part No 13627533853 or pattern equivalent) and Airbox (BMW Part No 13717543163). All parts must be unmodified and complete, and the standard 120i air probe must be fitted and operational. A foam or paper air filter element must be fitted and complete but the type is free, either aftermarket or BMW Part No 13717532754. The crankcase breather may vent directly to a catch tank and any holes in the air filter housing associated with the breather system may be blanked off.

6. Exhaust systems:

Exhaust systems must exit at the rear of the vehicle. The standard exhaust manifold and system must be replaced with the Klarius system (see Appendix B) which must remain unmodified. Catalytic converters must be retained, all exhaust gasses must pass through the catalytic converters, emissions testing may be carried out to ensure compliance.

7. Ignition systems:

The only ECU permitted is the 120 Coupe Cup Championship ECU (see Appendix B.) No alternative or additional ECU is permitted; spark plugs are free. All original engine sensors must be fitted and operational. The OBD port must remain accessible and fully functional in order to allow diagnostic testing and ECU interrogation.

8. Fuel delivery systems:

It is permitted to replace the fuel lines and filter. Fuel pumps and pressure regulator must be standard and unmodified. Fuel Pressure testing may be carried out at any time to ensure that the fuel rail pressure does not exceed production limits.

6.8: SUSPENSIONS:

1. Permitted modifications:

It is a Mandatory for all cars to run with the Gaz 120 Coupe Cup Suspension Kit including top mounts, which must be unmodified.

Anti-roll bars must be production BMW E82 ES/SE Msport N43 120i items of the following diameter bars (see Appendix B):

Front Diameter = 26.5mm, Rear Diameter = 12mm/13mm. - Front and Rear anti-roll bar drop links are free. and must be functional at all times

It is permitted to fit the following E90/92/92 M3 Track Control Arms to allow a wider range of front negative camber adjustment to a maximum of -4 degrees – BMW part nos. 31102283577 (LH) and 31102283578 (RH) in addition to the following E90/92 M3 Tension Arms – BMW part nos. 31102283575 (LH) and 31102283576 (RH.) These may be BMW OEM or pattern parts but must be unmodified. Suspension bushes may be replaced with either standard rubber OEM bushes or any aftermarket polyurethane bush, the use of adjustable or eccentric bushes is permitted. It is prohibited to use solid bushes such as alloy. Rose joints are not permitted other than on top mounts supplied with the suspension kit. Maximum front castor and camber is set using the mandatory adjustable top mounts

It is permitted to add a gusset to the rear toe arms on the rear axle, this gusset must be welded in place and are available for purchase from 40 Forty Racing see Appendix B or alternatively manufactured to the exact drawing in Appendix B of these regulations.

2. Prohibited modifications:

Modifications to the suspension pick-up points are prohibited; this includes altering (including slotting) the suspension strut mounting points on the chassis and where the suspension attaches to the front and rear subframes.

Rear adjustment of castor and camber can only be set using OEM components and by replacing BMW 33 322 240 6291 for a fully adjustable rose jointed arm in alloy or steel. Front camber may not exceed 4.00 degrees Negative.

Rear camber may not exceed 3.00 degrees Negative

Front and Rear Strut Braces Are Prohibited

3. Wheelbase:

The wheelbase must be standard for the model being raced; wheels must fit into original wings front and rear without any rolling of the arches, brackets/tabs on the wing for holding the original plastic under arch trims may be folded out of the way or removed. The track may only be changed by using wheels of a maximum offset of ET20, wheel spacers are prohibited.

6.9: TRANSMISSIONS:

1. Permitted modifications:



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The only permitted gearbox options are the standard Getrag Type F 6 speed manual as fitted to the BMW E82 N43 120i 2007-2012

Dual Mass flywheels may only be replaced with original or pattern items or converted to the single mass flywheel option as shown in Appendix B.

Clutches may be replaced with aftermarket options but must be single plate only. The original manual gear lever may be replaced with any OEM BMW Part.

The standard E82 120i open diff assembly and casing must be used and unmodified in all respects including the 3.7:1 final drive ratio.

2.Prohibited modifications:

Aftermarket limited slip, locked, locking, torque biasing or spring preloaded differentials or similar are prohibited.

3.Transmissions & Drive ratios:

The use of any aftermarket traction control device is prohibited. Final drive ratio must be 3.7:1 or 3.9: 1(see 5.9.1)

6.10: ELECTRICS

1.Exterior Lighting:

Must be as per standard fitment and be fully operational.

2.Rear Warning Light:

A rear fog light to NCR Ch.7 App.5 Art.6 must be fitted and working

3.Batteries:

Battery is free but may be relocated. A battery and electric starter motor must be fitted and be capable of repetitive starts. No external (slave) batteries may be used.

4.Generators:

A fully working standard alternator and standard pulley must be fitted and electrically connected so that the standard battery charging function is providing a charge to the on-board battery.

5. No cutting out of excess wiring from the engine loom.

6.11: BRAKES

1. Permitted modifications:

All cars must have the standard ABS / DCS system in full working order. Front brake callipers must be standard or BMW part number 34 111 676 90 93/4 alloy (57mm / 25mm), Front brake disks Must be standard or standard pattern of a maximum diameter of 284mm.

Rear brake callipers must be standard or BMW part number 34 167 686 97/8 (42mm / 20mm.) Rear brake disks must be standard or standard pattern of a maximum diameter of 280mm.

The Brake Master Cylinder can be changed to BMW part number 34 336 785 664/5 (25mm 20mm)

Brake pads are free. Deformation or removal of back plates is permitted, brake fluid is free. Flexible hoses may be replaced with aftermarket parts. The braking system must remain fully operational in all aspects at all times (excluding the handbrake.)

2.Prohibited modifications:

It is not permitted to use any drilled or grooved discs A hydraulically-operated handbrake is not permitted. Rear brake hydraulic line locks are not permitted.

6.12: WHEELS / STEERING

1.Permitted modifications:

An original, unmodified E82 120i BMW steering rack must be used. The steering lock should be rendered inoperative, unless the vehicle is driven to the circuit on the highway.

2.Prohibited modifications:

No machining or other modification of the road wheels are permitted. Power assistance of the steering may not be disabled, the standard PAS pump and pulley must be used.

1.Construction & Materials: Magnesium wheels are prohibited. The only permitted wheel options are OEM 16" BMW wheels as per 5.12.4 or Revolution CR10 wheels as per 5.12.4 which are available from Demon Tweeks (contact Nick Smith – Tel: 01978 663064 Email: nicks@demon-tweeks.co.uk)

2.Dimensions: 16" x 7"J et20 only.

3.Wheel Spacers: Wheel spacers are prohibited; competitors should ensure that wheel bolts are of sufficient length to adequately secure each wheel. Wheel hubs may be fitted with conversion studs to accept wheel nuts.



116 SPRINT & 120 COUPE CUP

6.13: TYRES

The only permitted tyres for the competitor are the Nankang AR1 supplied by Nankang UK (see Appendix B) in 205/45/16 size and the Uniroyal Rainsport 5 in 205/45/16 83V size. All Nankang tyres must be bought from the official 120 Coupe Cup Championship supplier and have the specific 120 Coupe Cup markings (see Appendix B.) The original tread pattern must remain visible at all times, and with a minimum tread depth of 1.6mm. No shaving or buffing is allowed. The use of tyre heating/heat retention devices, chemical tyre treatments and compounds is strictly prohibited.

6.14: VEHICLE WEIGHT:

1220 kgs Including driver and all race gear

Random checks will be carried out during the season and no car should ever be below this minimum weight.

6.15: FUEL TANK / FUEL

1. Types: Standard 52L tank must be fitted, it is permitted to fit a dry break refuelling system to the standard filler neck in accordance with NCR Ch.7 App.4. The standard fuel filler cap can be removed to facilitate fitment of this system.
2. Locations: Tank must be in standard position.
3. Fuel: Only fuel as defined in NCR Ch 8 App. 1 Art 1.7 may be used. Fuel which exceeds the stated RON (max) levels in NCR Ch 8 App. 1 Art 1.7a 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 teams 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.

6.16: SILENCING:

All vehicles must comply with the relevant maximum noise limits set out in NCR Ch.7 App.8.

6.17: NUMBERS & CHAMPIONSHIP DECALS

1. Positions: The race numbers for each rear side window shall be;

- (i) A minimum of 200mm high
- (ii) With a stroke width of at least 20mm (iii) Coloured Day-Glo yellow.

In addition, the windscreen of all cars must display the competition number 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.

750 Motor Club decals must be affixed prominently. Championship Sponsor's decals (where applicable) must be affixed in or near the positions mandated by the organisers. 750 Motor Club and Championship Sponsor's decals must take preference to any other decals. Drivers may be requested to remove decals that are viewed as conflicting with official Championship Sponsors. Failure to comply will render the vehicle and driver ineligible to race.

3. Suppliers: Sponsors and Club decals will be available at the first Championship race in which the vehicle is entered.



7. APPENDICES:

SEE NEXT PAGE. If it isn't on this list please contact the 116 Racing Ltd to confirm you can fit the part in question.

Appendix A: Mandatory & Optional Parts – CLASS A “116 Sprint Cup”

Mandatory Parts	Supplier	Contact
MSA Approved ROPS GRID (Gosling Racing – Independent Design) OR Custom Cages Part (BM1B/22NA)	116 Racing	07465 424912
116 Trophy Exhaust System	Klarius	07967 645522
116 Trophy Suspension Kit	Gaz Shocks	01268 724585
Nankang NS2-R Tyres (set of 4)	Nankang UK	0121 5005010
116 Trophy ECU	End Tuning	07967 603576
Optional Parts	Supplier	Contact
116 Trophy Primary Silencer Box Delete Pipe	Klarius	07967 645522
116 Trophy Sump Baffle	JC Racing	01845 527777
Lightweight Flywheel	TTV Racing	01473 730996
Rear Toe Arm Gussets (Pair)	40 Forty Racing	07825 7558443
BMW E90/E92 M3 Track Control & Tension Arms	BMW	N/A
Heat Exchanger (For Hot Climates)	BMW	N/A
Revolution CR10 Wheels	Demon Tweeks	01978 663064
Race Door Cards (carbon effect) full kit	R.C.D.C	07860 216772
Powerflex Suspension Bushes	116 Racing	07465 424912

**116 SPRINT & 120 COUPE CUP****Appendix B: Mandatory & Optional Parts – CLASS B “120 Coupe Cup”**

Mandatory Parts	Supplier	Contact
MSA Approved ROPS Custom Cages Part (BM120 220NA)	116 Racing	07465 424912
120 Coupe Exhaust System	Klarius	07967 645522
120 Coupe Suspension Kit	Gaz Shocks	01268 724585
Nankang AR1 Tyres (set of 4)	Nankang UK	0121 5005010
120 Coupe Cup ECU	End Tuning	07967 603576
Optional Parts	Supplier	Contact
Lightweight Flywheel	TTV Racing	01473 730996
Rear Toe Arm Gussets (Pair)	40 Forty Racing	07825 7558443
BMW E90/E92 M3 Track Control & Tension Arms	BMW	N/A
Heat Exchanger (For Hot Climates)	BMW	N/A
Upgraded Sump Baffle & Oil Pick Up Kit	116 Racing	07465 424912
Revolution CR10 Wheels	Demon Tweaks	01978 663064
Race Door Cards (carbon effect) full kit	R.C.D.C	07860 216772
Powerflex Suspension Bushes	116 Racing	07465 424912



Appendix C: Nominated Rolling Roads

**Marlin Motor Engineers
(Milton Keynes)**

Unit 4-5 Wellington Place
Bletchley
Milton Keynes
Buckinghamshire
MK3 5NA
Tel: 01908 366256

**Revivals
(Duxford)**

Revivals Garage
Lodge Road
Thriplow, Royston
Herts
SG8 7RN
Tel: 01763 208043

750 Motor Club (Mobile Dyno)

Donington Park
Castle Donington
Derbyshire
DE74 2RP

**TI Motorsport
(Stoke)**

TI Motorsport LTD
Tegiwa House
Sutherland Road
ST3 1HZ
Tel: 01782 950315

**Alive Tuning
(Louth)**

Unit 1 & 2
Meridien Centre
Belvoir Way
Fairfield Industrial Est.
Louth
Lincolnshire
LN11 0LQ
Tel: 01472 812900

Raceworx Performance Centre (Scotland)

Unit 2
Block 1 Hunting Park,
Livingston
EH54 5QS
Tel: 07483 161958

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Appendix D: Rear Toe Arm Gusset


