



**ENDURANCE CHAMPIONSHIP**



2021

**PROVISIONAL**



TECHNICAL REGULATIONS

PRAGA CATEGORY

## 5 TECHNICAL REGULATIONS - Praga Category

### 5.1 INTRODUCTION

5.1.1 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.

5.1.2 Where references are made to “original equipment”, the term is defined as –

“Is a part, the specification, features, location and method of operation of a part are as provided when new by the motor manufacturer for the model and date of car as shown on the technical form submitted via the Britcar Endurance website”.

### 5.2 CLASSIFICATION AND BEPI

5.2.1 All cars entered into the Praga Category must comply with the technical passport issued with their car and have corresponding chassis number and chassis identification as detailed in the technical passport.

5.2.2 Any modifications to the specification and or the technical passport must be noted on the technical passport and approved in advance by the Praga nominated eligibility scrutineer.

5.2.3 Each competitor will submit the information about their vehicle by closing date before their first race weekend via the championships BEPI (Britcar Endurance Performance Indicator) registration system available on line (contact david@britcar-endurance.com for login details) – once submitted and the Technical Declaration signed.

5.2.4 Any changes to the Technical Declaration must be reported to the organisers before being allowed to qualify and race. The specification detailed on the Technical Declaration will be used by the Licenced Eligibility Scrutineer to confirm the eligibility of the vehicle against the class entered. An electronic copy of the Technical Passports will be held by the Britcar Endurance organisation and used as reference material.

5.2.5 Britcar Endurance reserves the right to add ballast, pit stop times and mandate intake restrictors or ride height during the season.

### 5.3 SAFETY REQUIREMENTS

5.3.1 As per current Motorsport UK General Regulations Section K and appendices will apply to all vehicle and personnel equipment

5.3.2 As per current Motorsport UK General Regulations the Minimum General construction requirements of competition vehicles and racing vehicles will be applied as listed in sections J and Q respectively.

### 5.3.3 Must be fitted with a Motorsport UK approved R.O.P.S

## 5.4 Eligibility of competing car

5.4.1 The championship is open to the Praga R1 model, either turbo or naturally aspirated, supplied by Praga and must comply with the technical passport issued with their car and have corresponding chassis number and chassis identification as detailed in the technical passport.

5.4.2 Any modifications to the specification and or the technical passport must be noted on the technical passport and approved in advance by the Praga nominated eligibility scrutineer.

## 5.5 EXAMINATION OF VEHICLES

5.5.1 Vehicles competing in the Championships will be classed by the following method:-

The Championship Organisers reserves the right before or after any race in the championship to designate any one or more of the competing vehicles for special eligibility scrutineering. Upon such election being made the competitor shall immediately place the vehicle under the control of the Licenced Eligibility Scrutineer and be deemed to have permitted all such scrutineering, examination and testing as the Organiser may reasonably require to be undertaken. The Organiser has the right to:-

- a) Examine the vehicle at the circuit for such period as they may reasonably require and take fuel samples and/or have the component removed by the competitor.
- b) Retain the vehicle for detailed examination at premises chosen by the Licenced Eligibility Scrutineer in conjunction with the Organisers. If the Organiser selects to retain the vehicle 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 vehicle is found to be in breach of these regulations and/or
- c) Seal the vehicle and its components in such a manner as they may choose and require the competitor at their own expense to present the vehicle at any other premises chosen by the Licenced Eligibility Scrutineer for detailed examination within a specified period and/or remove the vehicle 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.
- d) The Organisers will use a variety of possible options to check the BHP & Torque declared is correct at their discretion. These will include data / power logging devices, an associated sensor which the competitor will be expected to provide an uninterrupted power supply to and a suitable mounting point by agreement with the championship eligibility scrutineer or by testing the car on a designated fixed or mobile rolling road test equipment.

e)The championship will also use the championship designated rolling road to determine bhp. Cars can be checked at any time during a race meeting or during post session scrutineering and will consist of a minimum of 2 power runs to determine a BHP at the wheels figure. The competitor must provide suitable tools and equipment and personnel to enable the power run to take place when requested and each car must have easily accessible strapping points ahead of the drive wheels on a front-wheel drive car and rearwards of the drive wheels on a rear-wheel drive car to safely secure the vehicle to the rolling road. The competitor must advise the rolling road operator of all ecu/throttle/power maps and advise the operator how to select each map. Any subsequent discovery of non-declared maps will be reported to the scrutineers.

5.5.2 The Competitor will nominate a mechanic/technician to conduct any stripping of the engine or any required component requested by the eligibility scrutineer as per Championship Regulation Art.5.5.1 (a).

5.5.3 The Organisers reserve the right to re-inspect vehicles at any time during the course of the season.

5.5.3.1 Competitors will be personally and solely responsible for ensuring that their vehicles comply with their registration details and with these regulations at all times for each round at which they are entered. Failure to comply in either respect will be a breach of these regulations. Queries concerning eligibility should be referred in writing to the Licenced Eligibility Scrutineer at least seven days prior to an event entered to permit a ruling in advance of any meeting at which it is intended to compete.

5.5.4 In order to maximise equality of the performance, the Organisers will review the weight to power ratio coefficients after every round. Also, in order to balance performances in a fair way, the Championship Organisers reserves the right to introduce, for each of the individual entrants, any other technical restriction it may deem necessary.

## 5.6 EQUALISATION

5.6.1 The Championship organisers will endeavour to balance car performance in the classification performance of vehicles. If the car is found to be ineligible or unsuitable for its class the championship organisers have the right to reclassify accordingly. If a car moves class then points already received will NOT be allowed to be taken to the new class.

5.6.2 If a vehicle is found to be ineligible in some way then no points will be awarded but the Competitor must count the round as one of their points scoring rounds for the Championship.

5.6.3 The Championship reserves the right to use equipment to check a cars performance against their declared BEPI / Technical Passport.

5.6.4 Cars entered in the Turbo class will be balanced using minimum weights and throttle maps to approximate performance of Britcar Endurance Category Class 1 cars

## 5.7 CHASSIS

5.7.1 The original chassis is defined as the original chassis detailed in the technical passport of the car entered.

## 5.8 BODYWORK & AERODYNAMICS

5.8.1 Aerodynamics and bodywork must comply with the technical passport for the car.

### 5.8.2 GENERAL

5.8.2.1 All modifications must not infringe on the general requirements for competition / racing cars as set out in Championship Regulation Art.5.3.2.

### 5.8.3 INTERNAL

5.8.3.1 Must comply with the technical passport for the chassis entered.

### 5.8.4 EXTERIOR

5.8.4.1 Must comply with the technical passport for the chassis entered.

### 5.8.5 AERODYNAMICS

5.8.5.1 Must comply with the technical passport for the chassis entered.

## 5.9 RIDE HEIGHT

5.9 All vehicles must have a minimum ride height of 40mm throughout with the driver in the car as per Motorsport UK General Regulation Q.19.1.2. The organisers / eligibility scrutineer will designate the area within Parc Ferme or the paddock where checks will be conducted with the tyre pressure set at 1.5 bar +or – 0.1 bar.

## 5.10 ENGINE

5.10.1 Must comply with the technical passport for the chassis entered.

## 5.11 FUEL TANKS AND DELIVERY SYSTEMS

5.11.1 The vehicle may not have more than 120 litres of fuel carrying capacity.

5.11.2 Must comply with the technical passport for the chassis entered.

5.11.3 Provision must be made to be able to drain all fuel from the tank and the fuel delivery system at the request of the Scrutineers. All teams must be equipped with supplementary pipes to drain the system into churns of sufficient capacity to hold drained fuel. The point of access for draining must be as close as possible to the fuel injection rail or carburettors so that any fuel in the pipes between the fuel pumps and the engine will also be pumped out.

5.11.4 The car must finish the race with a minimum of 3 litres of fuel remaining in the fuel tank, which can be easily withdrawn from the operational tank supplying the engine at the request of the scrutineer for the purposes of fuel testing as provided by Motorsport UK General Regulations.

## 5.12 TRANSMISSION

5.12.1 Must comply with the technical passport for the chassis entered.

## 5.13 SUSPENSION –

5.13.1 Must comply with the technical passport for the chassis entered.

## 5.14 WHEELS/STEERING

5.14.1 Must comply with the technical passport for the chassis entered.

## 5.15 TYRES

5.15.1 It is a requirement that all vehicles competing in the championships must qualify and race on Goodyear Tyres only unless a comparable size is not available. Such instances must be declared to the organisers at the time of entry for the Organisers' written agreement prior to the event as to tyre brand and specifications including compound[s]. The Organisers' decision in this regard will be final and in their entire discretion.

5.15.2 The artificial heating of rims and/or tyres is **permitted** but chemical treatment is **prohibited**.

## 5.16 WEIGHT

5.16.1 Minimum weights for the classes are as follows:

- P1 Turbo: 650kg
- P2 Naturally Aspirated: 620kg

Weight is measured empty of fuel, with no driver but with all other fluids, parts and equipment required to operate.

5.16.2 The Championship reserves the right to instruct teams to add weight to equalize the performance.

## 5.17 ELECTRICAL

5.17.1 Lighting -

5.17.1.1 All competing vehicles may have working directional indicators front and rear (if fitted). Coloured lights solely for the purpose of identification may be fitted however the total lit area of these lights may not exceed 1200mm<sup>2</sup> on each vehicle.

5.17.1.2 Competition Numbers.- All competition numbers MUST be lit during night racing sessions.

5.17.2 Lighting – Headlights: - Vehicles competing in night races must be equipped with dipped beam, main beam and rear marker lights. The operating of any retractable headlights, including its energy source, may be modified. Freedom is granted with regard to the frontal glass, reflector and bulbs although glass must be protected to prevent any broken glass being dropped onto the circuit.

5.17.2.1 Vehicles may carry up to 6 forward facing lights and in a mixture of headlights and spot lights and provided that the total is an even number (to clarify this ratio - a car with twin headlights may fit 2 spotlights while a car with single head lights may fit 4 spot lights). **A single light is defined as a single enclosed light unit which may in itself contain multiple light sources.**

5.17.3 Brake lights - All vehicles must be fitted with working brake lights as per Motorsport UK General Regulation Q. 19.11.3.

5.17.4 Rear Fog Light - Vehicles must be fitted with a high intensity rain light(s). As per current Motorsport UK General Regulation K. 5 Red Warning Light.

## **5.18 BATTERIES**

5.18.1 The make and capacity of the batteries are free. Each battery must be securely fixed and covered to avoid any short-circuiting or leaks.

**5.18.2 Battery location must comply with the technical passport for the chassis entered.**

5.18.3 Generator and Voltage Regulator - A generator must be fitted and operational. Its position and driving system are free.

## **5.19 BRAKES**

5.19.1 As per current Motorsport UK General Regulation J. 5.6 Brakes.

5.19.2 Cooling of brakes front and rear is permitted: Protection shields may be removed or modified.

5.19.3 Cooling ducts may be added provided the ducting does not interfere with the steering or suspension movement. Air intake points must not extend outside the bodywork.

5.19.4 Carbon brakes are prohibited unless fitted to the original car as standard Motorsport UK General Regulation J. 5.6.1. If a Car is fitted with carbon brakes (as standard) it must be declared and will be included in the BEPI calculation.

5.19.5 ABS braking systems are prohibited unless fitted to the original car as standard Motorsport UK General Regulation Q. 19.5.1 If fitted it must be declared and be included in the BEPI calculation.

## **5.20 FUEL**

5.20.1 Fuel Grade - The Championship allows fuel to be used in accordance with the current Motorsport UK General Regulation B. Pump Fuel or FIA specification fuel in compliance with FIA Appendix J, Article 252, Article 9”.

## 5.21 SILENCING

- 5.21.1 All cars will be tested to meet the noise limit as per Motorsport UK General Regulation J. 5.17. The Limit is 105dB(A) in accordance with Motorsport UK General Regulations conducted at 0.5 metre distance at 45 degrees from the outlet with the engine running at  $\frac{3}{4}$  speed.
- 5.21.2 **Other** limits may be applied by various circuit owners

## 5.22 PNEUMATIC JACKS

- 5.22.1 Pneumatic jacks may be fitted to suitable points within the chassis of the car and must retract automatically when the air is released from an external valve outside the reach of the driver while seated. No work under the car is permitted using the pneumatic only. i.e safety devices must be attached to prevent the car dropping.

## 5.23 MANDATORY ON BOARD CAMERAS

- 5.23.1 It is the team's responsibility alone to have a fitted forward facing in-car camera positioned to provide a 'driver's eye' view that should include, where possible, the steering wheel, show the track ahead of the vehicle with a field vision of approx. 100 meters, the driver and the dashboard displaying the driver's race number.
- 5.23.2 The mounting must be of a mechanical means of attachment sufficiently robust to withstand anticipated stresses and vibration and must not present any sharp edges or projections in the vicinity of the driver's body or helmet. The mounting must be approved by the eligibility scrutineers. Motorsport UK General Regulation J. 5.21 applies.
- 5.23.3 The unit must be switched on and be recording at all times when the car is on track during any official free practice, qualification sessions and races. The onus is on the competitor to ensure that the unit's battery is charged, or its supply is operational, and the device remains operational during the above-mentioned sessions.
- 5.23.4 The memory card may be requested by the Organisers or by the Clerk of the Course or his representatives for any purpose including but not exclusively Judicial procedures under these Regulations and the recorded footage may be copied for use in broadcast or any other area deemed appropriate by the Organisers. Failure to provide the footage may lead to disciplinary measures by the Clerk of the Course and may prejudice their defence in the case of an incident."
- 5.23.5 Please also be aware of the intellectual property ownership rights referred to in Championship Regulation Art.6.3.
- 5.23.6 The use of this camera footage should not be used on Social Media to bring the series into disrepute or to engage a personal vendetta.