

# **Sophos Global GT Lights**

## **Championship Regulations 2010**

Issued *January 2010*

### **1.0 GENERAL TECHNICAL REQUIREMENTS AND EXCEPTIONS**

1.1 Only cars fully in compliance with these technical regulations shall be permitted to take part in the Championship.

1.2. The design rights and drawings of all components manufactured specifically and solely for Global GT Light car are owned by Graham Hathaway Engineering Ltd. The approved supplier for Ireland is Global GT Lights Ireland

1.3 Global GT Light cars and components, including spares manufactured and supplied, may only be supplied by Global GT Lights Ireland.

1.4 It is the entrant's responsibility to use only eligible components. The Eligibility / Safety Scrutineer on duty has the responsibility for checking that cars comply with the Technical Regulations and may invite a representative of Global GT Lights Ireland to assist in verifying the source of components. Thereafter the Scrutineers decision shall be final and binding. Cars found to be in breach of the Technical Regulations will be the subject of a written report by the Eligibility/Safety Scrutineer to the Clerk of the Course for the appropriate action to be taken.

1.5 From time to time it may be necessary to approve an alternative equivalent to a part. These will be notified by Global GT Lights Ireland, in an official bulletin to these regulations as eligible for the Global GT Lights cars and all championships.

### **2.0 CHASSIS**

2.1 Only chassis bearing a Global Chassis Plate are eligible.

The chassis and engine frame must remain unaltered from the 2000 specification supplied by Graham Hathaway Engineering Ltd. Rollover bar height extensions can only be supplied & fitted by Global GT Lights Ireland. No additional riveting or bonding of the side / floor panels is permitted.

Should the chassis become damaged replacements must be purchased through Global GT Lights Ireland. The Eligibility Scrutineer, reserves the right to disallow a repaired car which does not appear to be have been properly repaired.

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### **3.0 BODYWORK**

3.1 The bodywork including the rear wing assembly, size, position, aerodynamic shape and dimensions must remain unaltered. Replacement body panels and rear wing assembly must be purchased from Global GT Lights Ireland, and may be labeled / marked.

3.2 Drivers seat is free within scope of MSA/MSI yearbook Regulations.

3.3 Mirrors. Manufacture is free provided there are two, one each side of the cockpit and each complies with MSA J.20.15.1

### **4.0 ENGINE**

4.1 The engine is a standard, un-tuned Yamaha 600cc Thundercat or FZR.

All engines must be sealed and recorded prior to the start of the season. Cars must be available for engine power checks at any time at the request of Championship Eligibility Scrutineer. Any engine found un sealed or with broken seals, will be subject to a power check if the performance is deemed to be suspect. The cost of initial & any further power checks is to be paid by the competitor. Test location to be advised.

4.2 The maximum power output permitted is 98 B.H.P. in 6th gear, measured at the gearbox output sprocket.

### **5.0 ENGINE COOLING**

The cooling system, under tray, electrical water pump and mountings, to remain standard and supplied by Global GT Lights Ireland.

Type and manufacture of coolant is free.

Oil cooling is permitted and supplied by Graham Hathaway Engineering Ltd.

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### **6.0 INDUCTION SYSTEMS**

Standard carburetors must be fitted and may not be modified. Standard air boxes from either engine must be used. Air filter element is free but must be fitted in the air box. If a Thundercat air box is used it may be fitted with air intake pipes, supplied by Global GT Lights Ireland

Carburetor jetting is free. Inlet manifolds must remain as standard.

### **7.0 EXHAUST SYSTEM**

The exhaust system must remain standard and supplied by Global GT Lights Ireland. Sound must not exceed 105db

### **8.0 IGNITION SYSTEMS**

The ignition system & ECU system must remain standard as supplied by Yamaha with no modifications. The eligibility scrutineer may supply a replacement ECU that the competitor must change to on request.

### **9.0 FUEL DELIVERY SYSTEM:**

The fuel delivery system must remain as supplied.

### **10.0 SUSPENSION**

10.1 The suspension system must remain standard as manufactured and supplied by Global GT Lights Ireland. Parts may be labeled / marked for identification.

10.2 Toe in, camber, caster and ride height may be altered within the standard adjustment parameters provided. The minimum ride height/ground clearance under any part of the car is **4cm** with the driver aboard.

10.3 Springs rates are fixed

10.4 Dampers. Tech 2000, Dynamic Suspension and Ohlins supplied by Global GT Lights Ireland may be used.

10.5 A 16mm or 19mm front roll bar must be fitted and supplied by Global GT Lights Ireland

10.6 An Optional 16mm rear roll bar and mountings may be fitted and supplied Global GT Lights Ireland.

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### **11.0 TRANSMISSION**

11.1 Only the standard Yamaha 6 speed sequential gearbox is permitted. Final drive ratios supplied by Graham Hathaway Engineering Ltd. Engine sprocket to be 14 teeth. Axle sprocket to be 46 teeth. Gearbox ratios may not be changed and will be checked when engines are submitted for power testing.

11.2 Clutch assembly must remain as standard with the exception of drive plates and pressure plate springs.

### **12.0 ELECTRICS**

12.1 All electrical equipment must remain as standard and supplied by Graham Hathaway Engineering Ltd.

12.2 An effective rear red warning light must be fitted.

12.3 Modification to the charging system is not permitted. The alternator must be fully operational and deliver a suitable charge when the engine is running.

12.4 Lap timer and data logging may be fitted complying with MSA/MSI regulations.

### **13.0 BRAKES**

13.1 The braking system must remain as standard. Upgrade kit is available only from Global GT Lights Ireland for pre 2000 cars. This must be fitted in accordance with the supplied instructions without modification.

13.2 Brake pad make and material is free but must fit, in unmodified calipers supplied by Global GT Lights Ireland.

13.3 The brake discs must be steel and may not be modified as supplied by Global GT Lights Ireland.

### **14.0 WHEELS/ STEERING**

14.1 Wheels (7" x 13") and steering must remain standard. Supplied by Global GT Lights Ireland.

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### 15.0 TYRES

15.1 The Control Tyre from Avon must be used; these are numbered and purchased from the approved agent in Ireland Alan Byrne.

Position	Tyre Size	Pattern
Front	7.0/20.0-13	Slick
Rear	7.0/20.0-13	Slick
Front	160/530R13	Wet
Rear	160/530R13	Wet

Quantities of tyres are not restricted for Ireland

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

### 16.0 VEHICLE WEIGHT

16.1 Minimum weight is **450kg inclusive of driver** and car, in the condition in which it crosses the finishing line or at any time during the competition and/or practice.

16.2 Any car and driver combination that has achieved a time of sub **59 second lap** on the Mondello national circuit in 2007 or subsequent years must have a vehicle and driver minimum weight of **470kg** crossing the finish line or at any time during the competition and/or practice.

16.3 Any car and driver combination that has achieved a time of sub **58 second lap** on the Mondello national circuit in 2007 or subsequent years must have a vehicle and driver minimum weight of **480kg** crossing the finish line or at any time during the competition and/or practice.

16.4 If ballast is required to achieve the minimum weight, this must be in form of single lead sheet or bar attached to the front slope of the seat pan in a maximum mass of 10kg. The attachment must be with nuts and bolts which must be drilled to allow wire seals to be applied by the Formula Eligibility / Safety Scrutineer.

16.5 All cars must be weighed at least once in any race meeting.

16.6 Class coordinator will keep the Scrutineer informed of the times and weights for cars and driver combinations.

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### **17.0 FUEL TANK/FUEL**

17.1 FUEL TANK: The fuel delivery system & tank size is as supplied by Graham Hathaway Engineering Ltd. & must comply with MSA/MSI Safety Criteria requirements.

17.2 LOCATION: The existing fuel tank mounting points must be used and the position of the fuel tank must remain in the approved location, as supplied by Graham Hathaway Engineering Ltd.

17.3 FUEL: The only permitted fuel is unleaded / super unleaded pump fuel to BS 7800, in conformance with MSA Technical Regulations, Appendix P. Definition of super unleaded pump fuel. Additives are not permitted.

17.4 Fuel testing may be carried out at any time before, during or after a competition on the instructions of the Clerk of the Course or Scrutineer.

### **18.0 NUMBERS/DECALS**

18.1 All cars must be identified by numbers and backgrounds displayed in the approved position, the side numbers must be on the front section just behind the front wheel arch. The front number must be between the vent and the front screen. No other position is acceptable. All backgrounds and number sizes must be as defined by MSI

18.2 Any supplied Sponsors decals must be displayed in the positions specified by the Championship coordinator on both sides, front and rear of the car to qualify for points.

18.3 The sponsor's decals will be provided by the Championship Organisers, whereas Entrants are responsible for supplying numbers.

### **19. APPENDICES**

19.1 The approved agent in Ireland is ***Global GT Lights Ireland***

19.2 All parts must be purchased from Global GT Lights Ireland.

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### 20.0 VEHICLE PRESENTATION:

20.1 The presentation of the car is fundamental to the profile of the championship/series its sponsors and its audience. Therefore in considering whether to permit any car to race, ant any point during the season, the organisers will regard as paramount the presentation of the car. In taking into account its appearance inherent in which is the standard of its presentation (including interior), they can exclude any car which they consider may prejudice the reputation of the championship / series or is otherwise unacceptable This will include where the car is presented at a race event bearing accident damage sustained at a previous event and which has not been subject to the completion of a full and proper repair. Note: A double header can be regarded as one event for the purposes of this regulation.

20.2. Vehicles, Decals and Overalls/Patches. - Competitors overalls be clean and maintained to a reasonable standard, patches should be affixed in instructed locations and cars deemed to be of an unacceptable standard of presentation may not be permitted to race.

20.3. Promotional activities - Competitors may be asked and will be expected to participate in championship promotion activities at the circuits, as requested by the organisers

The rules should be interpreted, that if it does not say you can do it then you cannot.

After all championship rounds the competitor with the highest points score will be deemed to be the champion.

Scrutineer: Mr Neil Wilson  
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