CAR & BIKE DRAG RACING YEARBOOK





Julian@eurodragster.com



Julian@julianhunt.net





INDEX

Page			
2	The Basics of Drag Racing		
5	Supplementary Regulations	SR	
5	Organisation	-	
5	Officials and Their Duties		
5	Competitors		
6	Vehicles		
7	Scrutineering		
7	Noise Control Regulations		
9	Pits, Paddock and Track		
9	Practice and Qualification		
10	Penalties		
10	Instructions and Communications to	o Compet	titors
10	Jurisdiction		
10	Race Procedures		
17	Points & Related Programmes		
19	Drag Race Competition Licences	5	
22	General Safety Regulations	GSR	
26	Engine	GSR1	
34	Drive Train	GSR2	
41	Brakes & Suspension	GSR3	
44	Frame	GSR4	
62	Tyres & Wheels	GSR5	
63	Interior	GSR6	
64	Body	GSR7	
66	Electrical/Control	GSR8	
68	Support Group	GSR9	
74	Driver	GSR10	
78	Class Regulations		
78	Junior Dragster	JR	
91	ET Bracket	ET	
102	Super Modified	SM	
109	Super Street	SST	
117	Super Gas	SG	
124	Street Eliminator	SE	
128	Super Comp	SC	
135	Competition Eliminator	CE	
135	Dragsters	D	
143	Altered Cars	A	
154	Jet Cars	JC	
157	Top Methanol Funny Car	TMFC	
157	Top Methanol Dragster	TMD	
158	Pro Stock	PS	
159	Pro Modified	PM	
173	Top Fuel Dragster	TF	
173	Top Fuel Funny Car	FC	
175	Charts & Formulas		

1

175 Bike Rule Book

The Basics of Drag Racing

WHAT IS A DRAG RACE?

In basic terms, a drag race is an acceleration contest from a standing start between two vehicles over a measured distance. The accepted standard for that distance is either a quarter-mile (402.336m) or an eighth-mile (201.168m). These contests are started by means of an electronic device commonly called the

"ChristmasTree". Upon leaving the starting line, each contestant activates a timer which is, in turn, stopped when the same vehicle reaches the finish line. The start-to-finish clocking is the vehicle's ET (elapsed time), which serves to measure performance and often serves to determine handicaps during competition.

WHO CAN COMPETE?

Virtually anyone can compete in drag racing. Drivers are required to have a valid Motorsport UK Licence, and must be capable of the safe operation of the vehicle. The vehicle must meet basic safety criteria (i.e.: have good brakes, be equipped with a seat belt, etc.). This applies to most street able type vehicles. Faster, all-out race cars must meet more stringent requirements as outlined throughout this rule book, and drivers of Dragsters, Altereds, etc., must hold the appropriate Licence.

WHO WINS WHAT?

A drag racer's primary objective is to become the overall winner of the category of competition in which his/her car is classified. A series of two-car, tournament-style eliminations are conducted. The losing vehicle in each race is eliminated, while the winning drivers progress into succeeding rounds of competition. This series of races continues until one winning driver remains. That driver is declared the category's winner.

RESPONSIBILITY

Prime responsibility for the condition and operation of a vehicle in competition rests with the vehicle's owner and driver. The track operator's and the organising clubs main concern is that of providing a place to conduct events. FIA produces guidelines based on experience gained in the production of events each year and circulates valid information to help perpetuate the sport and maintain good organisation. Total responsibility for drag racing's progress, however, must be shared by everyone associated with the sport. Close observance of the standards set forth in this rule book, the Motorsport UK Yearbook and the FIA Drag Racing Appendix in the FIA Yearbook is an important fundamental.

2



ET HANDICAPPED RACING

While some racers choose to race vehicles they build to certain specifications to fit into a certain Motorsport UK class (outlined elsewhere in this rule book), an ever-growing number of racers choose to race in categories divided on the basis of performance or ET (elapsed time) Brackets. This is known as ET Handicap racing. This form of drag racing offers a good starting point for the novice wishing to become involved in the sport. However, thousands of drag racers in the world enjoy ET Handicap Racing so much that they have participated in it for many years. In this form of racing, two vehicles of varying performance levels can race on a potentially even basis. The anticipated elapsed times for each vehicle are compared, with the slower car receiving a head start equal to the difference of the two. With this system, virtually any two vehicles can be paired in a competitive drag race. For example: car "A" has been timed at 17.78, 17.74 and 17.76 seconds for the quarter-mile (402.336m), and the driver feels that a "dial-in" of 17.75 is appropriate. Meanwhile, the driver of car "B" has recorded elapsed times of 15.27, 15.22 and 15.26 on the same track and he has opted for a "dial-in" of 15.25. Accordingly, car "A" will get a 2.5-second head start over car "B" when the "Tree" counts down to each car's starting green light. If both vehicles cover the quarter-mile in exactly the predetermined elapsed time, the win will go to the driver who reacts quickest to the starting signal. That reaction to the starting signal is called "reaction time". Both lanes are timed independently of one another, and the clock does not start until the vehicle actually moves. Because of this, a vehicle may sometimes appear to have a mathematical advantage in comparative elapsed times but actually lose the race. This fact makes starting line reflexes extremely important in drag racing.

THE STARTING SYSTEM

Essentially, drag racing is a pairing of two vehicles against one another in a race through a straightaway course. Hence, the start is the key to its uniqueness, because all races start from a standstill. Today's modern starting system, commonly referred to as the "Tree", is a product of continued development, designed to provide each competitor with the fairest start possible. The system features a vertical series of lights, displaying a visual countdown for each driver. Most drivers try to make their move between the last amber light going off and the green light coming on. Technique in staging and starting is one of the most vital skills an ET Handicap drag racer can develop, since a majority of races are won or lost at the starting line. Close observation and lots of practice pays off.

Due to the accuracy of the timing system at Santa Pod Raceway, all elapsed times, for the purposes of qualifying, eliminations and reaction times (for Junior Dragster), during qualifying, will be measured to 1/10000th of a second. The TSI Delay Tree Mode for the TSI Race Net System is in operation during all Permitted events, the system is used in the following classes, Super Pro ET, Pro ET, Sportsman ET, Comp Eliminator, VW Sportsman & Pro and ET Bike.

MOTOLIS DOLLANG

The system is in place to stop the use of delay boxes or other electronic devices that have been designed to be activated by the driver reacting to the turn on of the first Amber Light on the Christmas tree. The TSI Delay Tree Option has been specifically designed to stop driver cheating in the "No Electronics allowed" type classes.

When enabled, the Delay Mode of operation will randomly delay the turn on of the first Amber Light of the Christmas Tree between 70 thousands to 150 thousands of a second. When selected, the Tree is automatically placed in a .5 second, Full Tree Mode with the first amber bulb delayed.

There is no Delay Mode for a Pro Start Tree.

When the Delay Mode is active, both first Ambers are delayed regardless of which Mode is active (Eliminations, Qualify, Time Trials or Q & E) or if Dial Ins have or have not been entered.

TIMING METHODS

Two separate performances are monitored for each run: the elapsed time and the speed. On an elapsed time run the car first leaves the starting line, connecting the beam which activates the electronic timer. As the car continues through the course, the timer records the elapsed seconds and fractions of seconds until the car breaks the finish line beam and stops the timer. Top speed is determined by the car breaking one additional light beam, at the finish line.

WHAT IS "BREAK-OUT" AND/OR "RED LIGHT"?

Should a driver go quicker than his/her predetermined ET "dial-in" it is a "break-out," and grounds for disqualification. In the case of both vehicles making runs under their dial-ins, the win goes to the driver who breaks out the least. Another form of disqualification is a foul start (or "red-light"). This happens when the driver reacts to the "Tree" too quickly and drives away from the starting line before the green "go" signal. Should dual infractions occur, say a red-light and then a break-out, the red-light would be classified as the worst infraction.

FINAL TEXT

The final texts for these regulations shall be the English version should any dispute arise over their interpretation. The rules for the classes covered by this publication (The White Book) are compiled by the Motorsport UK UK Drag Racing Committee and any disputes or requests for clarifications should be addressed to the chairman of the committee. Philip Evans. (p.evans@atlanticfluidtech.com). The final text for Top Fuel, Pro Stock, Top Methanol Dragster and Top Methanol Funny Car shall be the English current version of the FIA DRAG RACING REGULATIONS published in the current FIA YEAR BOOK, with changes published in the FIA monthly Bulletin.

(C)]

MOTOLIS DOLLANG

SR Supplementary Regulations

1. ORGANISATION

1.1 The General Regulations of the Motor Sport Association Ltd (incorporating the provisions of the International Sporting Code of the FIA) and any subsequent amendments officially promulgated and issued and these Specific Regulations shall apply.

1.2 Unless stated hereafter, Organisers must comply with Section D and S of the General Regulations.

1.3 For any Technical or Safety criteria not provided for by the Specific Regulations the current NHRA or FIA Rule book shall be deemed to be the source of reference.

2. OFFICIALS AND THEIR DUTIES

2.1 Unless stated hereafter, Officials must comply with Section G of the General Regulations.

2.2 The Race Director shall have the same responsibilities, duties and powers of a Clerk of the Course and absolute discretion in general conduct and control of the event and the application of penalties for any infringement by participant or vehicle.

2.3 Subject to the prescriptions of the General Regulations the decision of the Clerk of the Course shall be final. See also Motorsport UK Competitors Yearbook Section: C.

3. COMPETITORS

3.1 Unless stated hereafter, Competitors must comply with Section H, K & S of the General Regulations.

3.2 Participant shall be deemed to be any person within the meaning of Sections H.1, H.32 and H.33 of the General Regulations.

3.3 The display of any identification, badge or pass will be deemed to identify the person concerned with the entrant and will imply their acceptance of these regulations.

3.4 Entrants and Drivers must ensure they have a Competition Licence valid for the event and category of vehicle (See d Drag racing competition licence section.

3.5 Entrants and drivers must ensure they have a Medical Certificate valid for the event and category of vehicle.

5



3.6 Where a driver is required to make an observed run prior to taking part in the competition (7.1 and 7.2) it is the driver's responsibility to report this fact when signing on and await the instructions of the Race Director.

3.7 The Race Director may forbid a driver to take part in competition for reasons of safety or any apparent deficiency in performance.

3.8 A driver may not drive more than one vehicle in the same category at the same event.

3.9 Any driver deemed to have driven in a manner not compatible with general safety or whose behaviour or actions is prejudicial to the interests of the organisers or motor sport generally may be immediately excluded from the meeting. (See Section O of the General regulations).

4. VEHICLES

4.1 Unless stated hereafter, vehicles must comply with Section J, K^* and S, of the General Regulations.

4.1.1 Trucks or Commercial Vehicles are prohibited to take part in Drag Races without prior approval of the Motorsport UK. Series production truck vehicles of up to 1 ton payload permitted.

4.1.2 Junior Dragsters may not be included in any event without the prior approval of the Motorsport UK.

4.2 Classification, unless otherwise stated in the ASR's, shall be as prescribed in the Specific Class Regulations.

4.3 Annual registration of vehicles and drivers with Organising Clubs is mandatory.

4.4 Registration must be submitted on the official Race Vehicle Registration form issued by each Organising Club. Forms which are amended, incomplete or defaced are invalid.

4.5 Re-registration may be required for any change made to the classification of vehicle.

4.6 Vehicles may be given a permanent race number for the year.

4.7 Numbers must be displayed in accordance with the specific class format; affixed in such a way to ensure their durability and legibility and be of sufficient contrast to their background. They shall be subject to the approval of Chief Timekeeper.

 \mathbb{O}

MOTOLIS DOLLAN

4.8 The naming of vehicle will be subject to the approval of each Organising Club. Duplication of names will not be permitted.

4.9 Decals must be displayed as required by the event or series organiser.

4.10 Vehicles must be in clean and presentable condition throughout an event. Personnel attending a competing vehicle should be aware of the same considerations.

5. SCRUTINEERING

5.1 In presenting a vehicle for scrutineering, entrants will be deemed to have accepted the conditions of entry and these regulations and that the vehicles and personnel within their jurisdiction will comply with the regulations throughout the meeting. All major changes made to a vehicle (i.e. engine or suspension change) must be reported to scrutineering and may require the vehicle to be re-scrutineered.

5.2 Entrants will be required to sign mandatory indemnities.

5.3 No vehicle is permitted to take part in practice or a race without the approval of the Chief Scrutineer.

5.4 Race Director may require:-

5.4.1 The eligibility of an entrant, driver or vehicle to be checked at any time or prescribed place before or during the meeting or afterwards subject to the entrant being notified not later than half an hour after the publication of a valid provisional result.

5.4.2 A vehicle to be re-scrutineered at any time throughout the meeting.

5.4.3 A vehicle to be dismantled to ensure it complies with the regulations.

5.4.4 An entrant to supply such components and or samples as may be required.

5.4.5 A driver to be medically examined for reasons of safety,

5.4.6 A car to practice before its eligibility is verified.

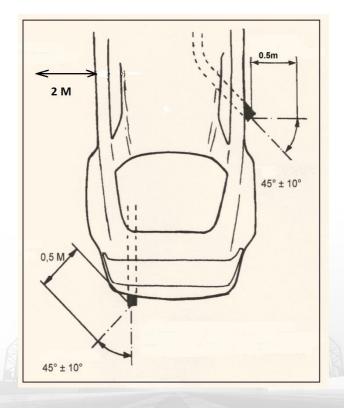
5.5 NOISE CONTROL REGULATIONS Mandatory noise limits are in force on certain classes. The Motorsport UK Scrutineer will be testing vehicles and advising competitors if they do not comply with the noise limits. The noise level will be measured using calibrated equipment positioned at ½ metre from the end of the exhaust pipe(s), at 45 degrees to the axis of the exit pipe.

7

iii) motorsport uk

(See diagram) The tests will be conducted at an engine speed of 4000 rpm. Where more than one exhaust outlet is present, the test will be repeated for each exhaust and the highest reading will be used. Alternatively the test may be conducted at 2.0m from the edge of the vehicle at 90° to the centre line of the vehicle, with the microphone 1.2m above the ground. Measurements will be made outdoors with no large reflecting objects (e.g. walls etc.) within 3.0m (in the 0.5m test) or within 10.0m (in the 2.0m test). Background sound levels should be at least 10dB (A) below the measure level.

The limit for Junior Dragster, Sportsman ET and VW Sportsman ET is **113Dba** at 0.5 metres or **103 Dba** at 2.0 metres. For Street Eliminator, Pro ET, Super Gas, Super Street Car and VW Pro the limit is **120 Dba** at 0.5 metres and **110 Dba** at 2 metres.



8



6. PITS, PADDOCK AND TRACK

6.1 Fuel.

6.1.1 The handling and storage of fuel must comply with the law and local fire regulations.

6.1.2 The SR's shall specify the requirements of GR's Q13.1.1 to Q 13.1.4, inclusive,

6.1.3 The fuelling and draining of vehicles outside a designated fuelling area is forbidden.

6.1.4 The engine must be stopped during fuelling and the driver must vacate the vehicle.

6.1.5 The vehicle must be clear of any fuel handling or storage when starting the engine.

6.1.6 The entrant must ensure that throughout fuelling a person will stand by the vehicle with an adequate fire extinguisher.

6.2 Engine starting and warm-ups.

6.2.1 It is mandatory for a driver or competent crew member to be seated in the normal driving position at any time the engine is running.

6.3 Medical and Rescue (See F and Section S5)

6.3.1 The Rescue Unit and the Ambulance must be positioned to ensure unobstructed access to the course.

6.3.2 An emergency vehicle equipped specifically for firefighting with the following minimum equipment:

22lb (9kg) dry power fire extinguishers 2 fire resistant blankets 6ft x 6ft (2m x 2m) 2 pairs fire resistant/industrial gloves.

7. PRACTICE AND QUALIFICATION

7.1 A new driver who has not previously held a Competition Licence will be subject to a cockpit orientation (blindfold) test.

7.2 A driver may be required to make runs under observation at any time.

9

 \mathbb{O}

MOTOLIS DOLLARS

8. PENALTIES

8.1 Exclude from the meeting any vehicle or driver found to be ineligible at any time before, during, or after qualifying or racing.

8.2 A specific penalty mentioned in these regulations does not preclude the imposition of additional penalties as deemed appropriate.

9. INSTRUCTIONS AND COMMUNICATIONS TO COMPETITORS

9.1 Any additional instructions published will be deemed to be an Appendix to and have the same powers as these Regulations.

10. JURISDICTION

10.1 The general conduct and control of a meeting will be governed by the Powers of the Officials and the Judicial Procedure prescribed and published in the General Regulations and any subsequent amendments officially promulgated and issued and shall supersede all other Regulations.

10.2 The Stewards of the Meeting may implement decisions on any matter not provided for by these Regulations.

11. RACE PROCEDURES

11.1 FIA Competition Numbers

All contestants in Top Methanol Funny Car, Top Methanol Dragster, Pro Stock, Funny Car and Top Fuel are required to display a permanent FIA driver number at all events.

11.1.2 Motorsport UK Competition Numbers

See SR 4.6 and 4.7.

11. 2 Burnouts

All pre-race burnouts are restricted to designated areas, using water only. If a contestant's car should break on a burnout and cannot back up or be pushed back, it is not permitted to turn on the track and drive back to the starting line. Crossing the centre line during a burnout is not a disqualification. Fire burnouts are strictly prohibited. No person is permitted to hold or touch cars during burnouts.

Top Fuel, Funny Car, Pro Stock, Pro Mod are allowed two (2) burnouts across the starting line under power. Top Methanol Dragster, Top Methanol Funny Car, Comp Eliminator, Super Comp and ET Cars running 7.49 (*4.49) sec or quicker are allowed one burnout across the starting line under power. Length and time duration must be reasonable and, in concert with the opponents procedures. Super Gas, Super Street and all ET categories (except for ADV. ET) may not cross the starting line on any burnout; stationary burnout limit: Five seconds.

10



11.2.1 Staging

Once a car reaches the front of the staging lanes for a run, it must be prepared to fire and race. Vehicles in TF, FC, TMD and TMFC classes once started and having moved into the burnout area - may not re-start engines.

In order to be a legitimate race winner, a contestant's car must selfstart and self-stage. This rule also applies to single runs.

Push-starting or push-staging a vehicle is prohibited. Staging must be done under the vehicle's own engine power.

The application or use of any device, mechanical or electronic that permits the driver to ascertain the position of their vehicle in relation to the starting line is prohibited. Only visual observation of track equipment may be used to ascertain the vehicle's position.

The practice referred to as "deep staging is prohibited in the Super Comp, Super Gas and Super Street categories (permitted in all other categories). Both pre-stage and stage lights must be activated to constitute a legal start in those categories. In dual deep-stage situation, both competitors will be disgualified- except in the final round of competition, in which case the two finalists will be rerun. When staging for any of the Super categories or ET Brackets, both contestants must have their pre-stage lights activated before either may advance into the stage beams, however if the first driver has activated both the pre-stage and the stage beams and the second driver chooses to go into both the pre-stage and the stage beams the official starter can declare it as a legal start. If both drivers of a race leave the line before the start system is activated-both are disgualified. A driver on a single run leaving before the starting system is activated would advance; however, any ET's posted would be void for lane choice or other considerations. THE FINAL STAGING MOTION, USING APPLIED POWER, MUST BE IN A FORWARD MOTION GOING FROM PRE-STAGED TO STAGED POSITION.

A reasonable amount of time will be allowed for drivers to stage. The time limit will be determined in the sole and absolute discretion of the Official Starter. Failure to stage upon the Starter's instructions is possible grounds for disqualification. After proper staging and receiving the Starter's signal to go, it is not allowable to re-stage for a second time. Any driver leaving the starting line before the start system is activated, including drivers on a single run, will have their time disqualified for the run.

11.2.3 Starting System

Top Fuel, Funny Car, Pro Stock, Pro Mod, Top Methanol Dragster, Top Methanol Funny Car, Super Comp, Super Gas, Super Street utilise the three-amber "Pro Start" Tree.

All amber lights are activated simultaneously with a four-tenths of a second delay to green (except for Super Street which have a fivetenths of a second delay to green). Competition Eliminator utilise a full tree-amber countdown with five-tenths delay between lights.

11.3 Qualifying

In order to constitute an official qualifying attempt, all cars must self-start and self-stage. Competitors must have a valid elapsed



time recorded under engine power to be placed into eliminator competition whether the first round ladder pairings are determined by qualification times or by random selection. A contestant cannot drive more than one car in the same category at the same event. Vehicles must remain in the category entered, with one registered driver for the duration of the event. The Clerk of the Course has the option of allowing driver or vehicle changes, but only under the following conditions:

1) All previous event times are void for vehicles and drivers involved.

2) Vehicle must pass a technical and safety scrutineering inspection.

3) Changes must be made, and driver must re-qualify, during the normal schedule, as posted, for the event. No changes are permitted after qualifying has been completed.

4) Driver must stay within original eliminator category entered, and have proper credentials to drive replacement vehicle.

5) Only one change permitted during the course of an event.

Replacement vehicle must be of same class and category.

In the event of identical qualifying elapsed times in Top Fuel, Funny Car, Pro Stock, Pro Mod, Top Methanol Funny Car and Top Methanol Dragster, the driver with the faster top speed, recorded on the qualifying runs in question, will be awarded the higher qualifying position.

All qualifiers in Top Fuel, Funny Car, Pro Stock, Top Methanol Dragster, Top Methanol Funny Car, Pro Mod, Competition categories must have a valid elapsed time recorded to be placed into eliminator competition. Qualifying order Super Categories and ET Bracket: For all drivers that have a ET that is the same as the class index/personal dial in index, or slower, the time closest to that index is used to determine qualifying position. For drivers that have E.T.'s that are quicker than the class index/personal dial in index, the slowest time is awarded the higher qualifying position.

In the event of identical qualifying elapsed time within 1/1000 of a second, the driver who made the run first will receive the better qualifying position. If qualifying cannot take place, random pairing will be used.

If weather conditions or other event delays should disrupt posted lane rotation for qualifying runs, the Clerk of the Course has the option of reassigning lanes as necessary for remaining runs. Every effort will be made to see that qualifying contestants have the opportunity to run in each lane.

11.3.1 Ladders

Category pairings are based upon established FIA "Ladder" charts. Qualifying elapsed times determine ladder positions (16-car TF, FC, PRO, PM, TMD, and TMFC fields at FIA / Motorsport UK Events, example: 1 Vs 16; 2 Vs 15; 3 Vs 14; 4 Vs 13; 5 Vs 12; 6 Vs 11; 7 Vs 10; and 8 Vs 9). Once established, pairings are not changed unless clerk of the course determines there is adequate justification for a change. In situations where fields are not filled, such as 14 cars entering for a 16-car field, a 14-car ladder would be utilised, not a 16-car ladder. In Competition Eliminator, the Super categories and in ET categories the progressive Sportsman

12

ເເວັ

MOTOLICIAN MOTOLICA

ladder system is used in which the top half of the field is matched to the lower half. (1 Vs 17; 2 Vs 18; 3 Vs 19 etc. in 32 car fields). In competition Eliminator the all run system is in use for 32 or less qualified drivers. The first round pairings would be determined by the first 32 qualification elapsed times. In the Super categories and ET Bracket the all run system is used. There may be two methods of establishing first round pairings at events. This would be either by qualification elapsed times or by random selection of first round pairings. Championship Regulations or Supplementary Regulations will specify which method is to be used at which event.

11.3.2 Handicapping

Competition Eliminator handicapping is based upon the European Index system. Handicap margins can be determined simply by comparing individual Class index elapsed time factors.

11.3.3 Competition Index Control (CIC)

In attempt to control runaway Index situations in Competition Eliminator, CIC will be in effect at all events. Any contestant running -.50 or quicker during elimination's (not during qualifying or time trials) will have their Index adjusted by the amount they exceed -.50 for the following round of elimination's.

Any competitor running -.610 or greater in elimination's will cause there class Index to be permanently adjusted, by an increment equal to the second decimal of the infraction, following the event as follows:

ET under Index	Adjustment of Index
0,610 - 0,619	0,01 sec
0,620 - 0,629 sec.	0,02 sec
0,630 - 0,639 sec.	0,03 sec
0,640 - 0,649 sec.	0,04 sec
0,650 - 0,709 sec.	0,05 sec
0,710 - 0,719 sec.	0,06 sec
0,720 - 0,729 sec.	0,07 sec
0,730 - 0,739 sec.	0,08 sec
0,740 - 0,749 sec.	0,09 sec
0,750 sec. Or more	0,10 sec

In cases where two cars of the same class are paired, the race is conducted on a heads-up basis, regardless of any CIC considerations.

11.3.4 Break-Out Rules

In Super Comp, Super Gas, and Super Street categories, the break-out rules are enforced at any event except as follows:

- 1) When an opponent foul starts or crosses a boundary line.
- 2) On a single run.
- 3) When both drivers run under their Index, the driver that is the least under is the winner.
- 4) If two contestants run under by the same margin (with elapsed times extended to a thousandth of a second), the driver crossing the finish line first is the winner.

ll)

MOTOLIS DOLLANG

11.3.5 Single Runs

In situations where a driver is making a single run, he is considered the winner once he stages and receives the start signal. If a competitor crosses the boundary line on a single run, the elapsed time is voided for lane choice determination.

11.3.6 Alternates

Once qualifying has concluded and a ladder has been established, pairings will not be changed. However, should a qualified car and driver be unable to make the first round of elimination's (not reach the bleach box), an alternate will be inserted in their place. The quickest non-qualifier will take the first available space, the second quickest non- qualifier the next available space and so on. When and if this would happen is at the sole discretion of the race director/ clerk of the course.

11.3.7 Lane Choice

In the Top Fuel, Funny Car, Pro Stock, Pro Mod, Top Methanol Funny Car, Top Methanol Dragster and Competition Eliminator categories, lane choice is determined by elapsed times. The driver with the better qualifying ET gets first-round lane choice, and in subsequent rounds, lane choice goes to the driver with the lower ET in the previous round. In all other categories lane choice will be given to the driver who was closest to his/her index in qualifying and during competition lane choice will be given to the driver who was closest to his/her index in qualifying and during competition lane choice will be given to the driver who was closest to his/her index during the previous round. In the event of a rain off during qualifying or a dead heat in the previous round of competition then competing drivers are to determine lane choice by a coin flip or a random draw. In the event of a push back due to a track incident, the competitor with lane choice can change his/her preference up to the point that their vehicle is driven into the bleach box.

11.4 Penalties

One of the rarities at an event is the situation in which two cars are disgualified during the same elimination race. In most cases, both offending contestants are disgualified. Those situations include: both drivers crossing the boundary lines, or both drivers leaving the line before the start system is activated. Should a driver receive a red-light foul start, and the opposing driver cross the lane boundary line, the latter infraction would prevail and the driver committing the foul start would be reinstated. In determining lane boundary crossing violations, it is considered a disqualification when any portion of a tyre completely crosses the painted line surface. In cases where both opponents cross the centre line or outside line, both drivers will be disqualified. In situations where multiple boundary lines are utilised, the line directly adjacent to the competitors racing lane will be used for reference. Anytime it has been judged that excessive braking has resulted in the loss of control as to cause contact with the guard-rail, light fixtures, or crossing the centre boundary lines - INCLUDING PAST THE FINISH LINE - the contestant will be disqualified. Intentional crossing of boundary lines to leave the track or to avoid depositing

motorsport uk

debris on track is not grounds for disqualification. Additional grounds for disqualification, fines, suspensions, and/or expulsions are: 1) contact with guard-rail, barriers, or any other track fixture (rubber cones when used are considered visual aids, not fixtures); 2) unsportsmanlike conduct, improper language, or conduct detrimental to racing; 3) any condition considered unsafe, unfair, or out of order. If a driver is disqualified during competition for any reason prior to the actual start of a race, he cannot be reinstated.

Any driver and/or pit crew member found to be under the influence of alcoholic beverages or drugs, regardless of the amount, will be excluded from the event. Such a condition may be cause for suspension, fine and/or revocation of competition privileges.

Refer to Motorsport UK Competitors Year Book (Blue Book) regarding penalties, protests and appeals.

11.4.1 Blue Line

Should a crew member of a vehicle touch the vehicle after its front wheels have crossed the blue line in the starting line area, this will result in the automatic disqualification of that vehicle.

11.5 National Drag Racing Record Procedures

The standard of excellence of performance in drag racing is the National Record. These records are established under controlled conditions at authorised record events throughout the season. ET and Speed Records can be set in Top Fuel, Funny Car, Pro Stock, Pro Mod, Top Methanol Dragster, Top Methanol Funny Car and in each Index classes in Competition Eliminator. Each record run is made under close observation of starting procedures, running, finish, and timing. Each car is thoroughly inspected to determine its compliance with class requirements, including weight, engine displacement, mechanical limitations, and fuel checks where necessary. In a sport where records play such a vital role, every effort is made to maintain their accuracy and validity. In order to insure the validity of all new records, a backup performance of within one percent of the new mark is required at the same event. In the event that two runs exceed the existing record but are not within one percent of each other, the quicker time or faster speed will be acceptable as the backup for the slower time, which will stand as the new record.

Elapsed time records will be recorded and listed to the thousandth of a second. Speed records will be to the hundredth of a mile-perhour. If two contestants tie for the elapsed time record to the thousandth of a second at the same event, the tie-breaker will be the fastest mile-per-hour reading for the run that established the record. In the event a tie still exists, the contestant accomplishing the record run earlier in the event will be awarded the record. If the record is tied at a later race, the record will stay with the driver who set it first. Similarly, if two contestants tie for the speed mark, the tie-breaker will be the quickest elapsed time on the run that established the new National Record. Speed marks may be set independent of elapsed time record; records may only be set in qualifying and elimination, and only until the driver is eliminated from further competition; previous runs allowable as one-percent record backup. A contestant cannot set records with one vehicle, then compete in elimination's with another vehicle. Only the driver holding the record at the conclusion of the event will be credited with the record. A driver setting and then losing a record at the same event will not receive credit for establishing a record.

11.5.1 Timing Equipment

A full electronic timing system is required, incorporating a handicap facility, individual Elapsed Time and Terminal Speed details for each lane, accurate to .001 second and .01 mile per hour (.016 km/h) respectively.

A full "Christmas Tree" starting system should be used, with three amber lights.

a) Pre-Stage Beam: Located 7 inches (17.8 cm) before the Stage Beam. Its only purpose is to show the competitor that the vehicle's front wheel is approaching the Stage Beam.

b) Stage Beam: Located 13 3/8 inches (34.2 cm) before the Guard Beam, it indicates that the vehicle is in the correct position for the start. The Stage Light should activate when the leading edge of the vehicle's front wheel breaks the Stage Beam. The Stage Beam also serves to start the ET timers as the wheel clears the beam, and activates the red "foul" light in the event of the wheel clearing that beam prior to the green light showing.

c) Guard Beam: Ensures that no vehicle has an excessive amount of roll-out (movement required to leave the Stage Beam). If the Guard Beam is broken at the same time as the Stage Beam, and the starting sequence has been initiated, the timers and the red "foul" light will be activated if the green light is not showing.

d) Finish Line Beam: The Elapsed Time Beam is located at the Finish Line.

e) Speed Traps: These are located 66 feet (20.12 m) prior to and at the Finish Line in each lane.

f) Photocell Heights: Ideally, light sources should be mounted as close as possible to the level of the track surface with the filament in the vertical position. The roll-out at the Start Line should be equal for both lanes, and all beams should be parallel.

11.6 POINTS AND RELATED PROGRAMMES 11.6.1 Professional Championships / Series

Contestants in the Top Fuel, Funny Car, Pro Stock, Pro Modified Top Methanol Funny Car and Top Methanol Dragster:

Points awarded as follows:

winner	100
Runner-up	80
Semi-final loser	60
Quarter-final loser	40
Eight-final loser	20

Cont....

16

 (\bigcirc)

MOTOLICIAN MOTOLICA

Additional points are awarded as follows:

10 points to all contestants - 1 qualifying run required.

20 points will be awarded for establishing an official Motorsport UK national ET record. No points awarded for establishing an official Motorsport UK national Speed record.

Qualifying positions earn points as follows:

1st	8
2nd	7
3rd	6
4th	5
5th & 6th	4
7th & 8th	3
9th through 12th	2
13th through 16th	1

11.6.2 Sportsman Championships / Series

See: Regulations for each Championship.

11.6.3 Points - General

If at the season end a tie exists in a series, it shall be resolved as follows. If, after step one is followed a tie still remains, additional steps are to be followed until tie is broken.

A. Review full season of elimination racing between tied contestants. Driver with most "head to head" victories wins ties.B. Review full season of elimination racing. Driver with most rounds won wins ties.

C. Apply tie breaker points to full season of event competition as follows:

Event Win	5
Runner-Up	3
Semi Finalist	2
Quarter Finalist	1
Driver with most points wins	tie.

D. By decision of Motorsport UK

All points are awarded to the driver and cannot be transferred under any circumstances. Points are not transferable from one category to another. No part of an event can be rescheduled.

If the event is disrupted due to weather or other conditions, after eliminations of that category are in progress, points will be awarded to previous whole round of elimination's completed.

Attempts to set Low Elapsed Time will not be permitted after qualifying ends, with the exception of those cars remaining in category competition. The final run on which a driver is eliminated will be allowed as a Low Elapsed Time. For a driver to be eligible to earn points or prizes, they must display sponsors decals/stickers on their race vehicles as requested by Organising Club, Promoter, and/or sponsor- championship co-ordinators.

Any contestant excluded for major mechanical noncompliance loses all points for that particular event.

((C)))

MOTOLICIAN CONTRACTOR

11.6.4 Alternates

Once qualifying has concluded and a ladder has been established, pairings will not be changed. However, should a qualified car and driver be unable to make the first round of elimination's (not reach the burn out water area), an alternate will be inserted in their place. The quickest non-qualifier will take the first available space, the second quickest non-qualifier the next available space and so on. When and if this would happen is at the sole discretion of the race director/ clerk of the course. Under normal conditions, all firstround points and cash awards will remain with the qualified driver. Alternates will not be eligible for any round points, regardless of how far they advance past round one. The cash awards paid to the alternate will be less the amount paid to the original qualifier.

www.motorsportuk.org

18



Drag Race Competition Licences

1. GENERAL

1.2 Drivers Licences will be specifically endorsed for the category of vehicle they are permitted to drive.

1.2.1 For categories running an elapsed time of 11.50 seconds or slower, no endorsement is required.

1.2.2 A new licence holder, before taking part in any Competition, must meet the requirements prescribed in paragraph 2 or as may be required by the observing panel.

1.2.3 Drivers who have competed within the previous 24 months of the event and have a representative performance and known level of competence may be given the relevant endorsement without being required to qualify as in paragraph 2.

1.3 A driver may not drive a vehicle of a higher category than for which a current endorsement applies but may drive any vehicle of a lower category.

1.4 A driver may be required to make runs under observation at any time irrespective of the endorsement held.

1.5 A category endorsement has no validity for or within any other type of event.

1.6 A driver must retain all Licences and endorsements to substantiate any application for category or licence upgrading.

2. ENDORSEMENTS

2.1 A panel of not less than three qualified persons, including the Motorsport UK Steward, shall observe and assess a driver's capability for the category of the application.

2.2 For each category class A and B a driver must:-

- 1. Complete a cockpit orientation test (blindfold)
- 2. Complete a cockpit escape test in under 8 seconds
- 3. Complete a parachute packing
- 4. Be conversant with the start procedure, start correctly and run under power for approximately 55 yards (1/32 mile)
- 5. Make one half pass (1/8 mile) under power
- 6. Make one moderate run (3/16 mile) under power

7. Make a full run (1/4 mile) representative of the performance expected within the category.

2.3 For each category class C, D, E and F a driver must:-

1. Complete a cockpit orientation test (blindfold)

19

) motorsport uk

- 2. Complete a cockpit escape test in under 8 seconds
- 3. Complete a parachute packing (if required by class regulations)
- Be conversant with the start procedure, start correctly and run under power for approximately 55 yards (1/32 mile)
- 5. Make one half pass (1/8 mile) under power
- 6. Make a full run (1/4 mile) representative of the performance expected within the category.

2.4 For category class G and H a driver must:-

- 1. Complete a cockpit orientation test (blindfold)
- Be conversant with the start procedure, start correctly and run under power for approximately 55 yards (1/32 mile)
- 3. Make one half pass (1/8 mile) representative of the performance expected within the category
- 4. Make a full run (1/4 mile) representative of the performance expected within the category.

2.5 Jet Car Licensing

A valid Motorsport UK competition licence is mandatory. In order to be allowed to run within a permitted event the following tests will have to be completed in the presence of a licensed driver and the race director:

- Two full passes without the afterburner activated.
 - Three half passes with afterburner activated.
 - Five full passes up to maximum speed.

2.6 Subject to satisfactory fulfilling these conditions the Motorsport UK Steward is empowered to endorse the Licence for the relevant category.

3. UPGRADING

3.1 To obtain a Drag Race Licence of a higher grade than currently held, a driver must apply to the Motorsport UK Race Executive and provide written evidence of their competence to substantiate the application.

3.2 Drag Race Licence will not be valid for any other type of event.

4. FOREIGN NATIONALS

4.1 Within the territory of the Motorsport UK, a Competitor must hold either:-

4.1.1 An International grade licence when entered in an International status event,

or

20

()

MOTOLISPORT OK

4.1.2 An EU Licence issued by a European ASN bearing the correct inscription and EU logo.

4.2 Irrespective of the grade of Licence or the issuing ASN, it is mandatory for a Competitor to submit with their entry for an event a declaration of competence but this shall not absolve the Competitor from any additional conditions required by the Organisers or the Motorsport UK.

4.3 Except for an International status event, organisers are only permitted to accept an entry from a holder of a Licence issued by a European ASN bearing the correct inscription and EU logo.

5. LICENCE GRADES

- "A" Top Fuel
- "B" Fuel Funny Car
- "C" Top Methanol Dragster
- "D" Top Methanol Funny Car
- "E" Pro Modified, Pro Stock, Full bodied and Funny Cars ET Cars running 7.49 (*4.49) seconds or quicker, Competition Altered A/A, B/A, AA/A, BB/A, AT/A, BT/A, AN/A, BN/A
- "F" ET Dragsters or Altereds running 7.49 (*4.49) seconds or quicker, Competition Dragster A/D, B/D, AA/D, BB/D, BN/D
- "G" Super Comp, Super Pro ET, Heavy ET, Super Gas and all other Competition Eliminator classes not stated above
- "H" Super Street, Pro ET, Sportsman ET, Street ET





Brad Jackson 2018 S/Pro Champion

GSR General Safety Regulations

Each car, regardless of class or category, must complete and satisfactorily pass inspection of a qualified Scrutineer before being allowed to make a trial run or participate in any event

Throughout this Appendix, a number of references are made for particular products to meet certain specifications (i.e.: FIA, SFI, SNELL, DOT, etc.). It is important to realise that these products are manufactured to meet certain specifications, and upon completion, that manufacturer labels his product as meeting that spec. Therefore, except as outlined under SFI or FIA requirements, any change to the product voids that certification; under no circumstances may any certified product be modified, altered or in any way vary from the as-manufactured condition; such a practice is in violation of the FIA, SFI, SNELL, DOT, etc., program and in so doing voids such certification.

Cars that are imported and/or built to more current SFI Specs than outlined in this rule book shall be deemed to comply with required regulations even if not specifically outlined in this rule book. Members will be informed of changes of Spec as soon as possible and the changes incorporated in subsequent issues of the rule book.

For Top Methanol Funny Car, Top Methanol Dragster, Pro Stock, Funny Car and Top Fuel the current FIA Drag Racing rules in the FIA Yearbook with its changes in the monthly FIA Bulletin applies at all times. All text in this rule book regarding these classes is for guidance only.

22



GSR 0:1 EXPIRATION PERIODS SFI SPECIFICATIONS, QUICK-GUIDE

	QUICK-G		
		EXPIRATION PERIOD For specifics see class regulations	
SFI Spec. No.	DESCRIPTION	7.50 & Quicker or Comp classes with prefix A or B	All other classes included in this rulebook.
1.1	Replacement Flywheels and Clutch Assemblies	2 Years	4 Years
1.2	Multiple Disc Clutch Assemblies	2 Years	4 Years
1.3	Nitro-Methane Drag Race Multiple Disc Clutch Assemblies	1 Year	1 Year
1.4	Methanol Drag Race Multiple Disc Clutch Assemblies	1 Year	1 Year
1.5	Multiple Disc Clutch Assemblies for Supercharged, Nitrous Oxide-injected, and Turbocharged Vehicles	1 Year	1 Year
2.1A	Rear Engine Dragster Roll Cage – 5.99 Seconds & Quicker (Methanol)	FIA Only	FIA Only
2.2C	Front Engine Dragster Roll Cage – 5.99 Seconds & Quicker	FIA Only	FIA Only
2.3Q	Rear Engine Dragster Chassis Structure (Top Fuel) – 6.29 Seconds & Quicker (Top Fuel)	FIA Only	FIA Only
2.4C	Front Engine Dragster Roll Cage - 6.00 to 7.49 Seconds	3 Years	3 Years
2.5C	Rear Engine Dragster Roll Cage - 6.00 to 7.49 Seconds	3 Years	3 Years
2.6A	Front Engine Dragster Roll Cage - 7.50 Seconds & Slower	N/A	3 Years
2.7C	Rear Engine Dragster Roll Cage - 7.50 Seconds & Slower	N/A	3 Years
3.2A	Driver Suits (3.2A/1, 3.2A/3, 3.2A/5)	N/A	N/A
3.2A	Driver Suits (3.2A/15,3.2A/20	5 Years	5 Years
3.3	Driver Accessories Arm Restraints (2.3) Shoes (3.3/5) Drag Boots (3.3/15, 3.3/20) Gloves(3.3/5, 3.3/15, 3.3/20) Helmet Skirts(3.3/5) Hoods/Balaclavas (3.3) Neck Collar (3.3)	N/A	N/A
4.1	Automatic Transmission Shields, Rigid Type	5 Years	5 Years
4.1	Automatic Transmission Shields, Flexible Blanket Type	5 Years	5 Years

23



6.1	Containment Bellhousing for SFI 1.1 & 1.2 two disc maximum Clutch Assemblies or SFI 1.1 & 1.2 three disc (8-inch disc maximum) Clutch Assemblies used only on naturally aspirated vehicles	5 Years	5 Years
6.1W	Passenger Car Replacement Containment Bellhousing with adjustable Clutch Window for SFI 1.1 & 1.2 Single Disc Clutch or two disc (8-inch dia, Maximum) Clutch Assemblies Used Only on Naturally Aspirated Vehicles	2 Years	2 Years
6.2	Containment Bellhousing for SFI 1.3 & 1.4 Clutch Assemblies	2 Years	2 Years
6.3	Containment Bellhousing for SFI 1.2 greater than two disc Clutch Assemblies used on naturally aspirated vehicles or SFI 1.1 & 1.2 Clutch Assemblies used on supercharged/nitrous injected vehicles	2 Years	2 Years
7.1	Lower engine Containment Device	5 Years	1 Year
7.2	Lower Engine Containment Device	5 Years	N/A
9.1	Sport Compact Bellhousing Blanket	5 Years	5 Years
10.1E	Funny Car Roll Cage (Alcohol, Advanced ET, etc)	See Class Rules	See Class Rules
10.2	Altered Car Roll Cage – 6.00 to 7.49 Seconds	3 Years	3 Years
10.3	Altered Car Roll Cage – 7.50 Seconds & Slower	3 Years	3 Years
10.4	Side Steer Roadster Roll Cage, 7.50 Seconds E.T. and Slower	3 Years	3 Years
10.5A	Fuel Funny Car Chassis	FIA Only	FIA Only
11.1	Cable Breakaway Devices	See Class Regs	N/A
14.1	Supercharger Restraint Devices	2 Years	2 Years
14.2	Methanol Supercharger Restraint Devices	4 Years	4 Years
14.21	Screw Type Supercharger Restraint Devices	4 Years	4 Years
14.3	Nitro-Methane Fuel Supercharger Restraint Devices	2 Years	2 Years
14.4	Containment Valve Covers/Valve Cover Shields	FIA Only	FIA Only
14.5	Supercharger intake manifold blanket	FIA Only	FIA Only
15.1	Drag Race Drive Wheels	N/A	N/A
15.2	Drag Race Front Wheels	N/A	N/A
15.3	High Horsepower Drag Race Drive Wheels	2 Years	2 Years
15.4	Top Fuel and Funny Car Drag Race Drive Beadlock Wheels	1 Year	1 Year
16.1	Driver Restraint Assemblies	2 Years	2 Years

24

16.5	Driver Restraint Assemblies	2 Years	2 Years
17.1	On Board Fire Extinguishing Systems	2 Years (6 Years Max)	2 Years (6 Years Max)
18.1	Crankshaft Hub Harmonic Dampers	N/A	N/A
23.1	Supercharger Pressure Relief Assemblies	2 Years	N/A
24.1	Youth Helmets	N/A	N/A
25.1H	Full Bodied Car Tube Chassis Roll Cage - 7.49 Seconds and Quicker; 2,800 Lbs. Maximum	3 Years	3 Years
25.2B	Full Bodied Car Tube Chassis Roll Cage - 7.49 Seconds and Quicker; 3,200 Lbs. Maximum	3 Years	3 Years
25.3C	Full Bodied Car with Aftermarket Body Shell and Tube Frame, OEM Body Shell and OEM Frame with OEM or Modified Floorpan and Firewall, or Uni-body with OEM or Modified Floorpan and Firewall Roll Cage- 6.50 to 7.4 Seconds ET, 3,600 lbs Maximum	3 Years	3 Years
25.4C	Full Bodied Car Tube Chassis Roll Cage - 7.50 to 8.49 Seconds; 3,600 Lbs. Maximum	3 Years	3 Years
25.5D	Full Bodied Car Stock or Modified/OEM Floor pan and Firewall with OEM Frame or Uni-Body Construction - 7.50 to 8.49 Seconds; 3,600 Lbs. Maximum	3 Years	3 Years
25.6	Full Bodied Car/Truck Stock or Modified OEM Floor pan and Firewall with OEM Frame or Uni-body Construction - 7.99 to 8.49 Seconds; 5000 Lbs. Maximum.	3 Years	3 Years
27.1	Window Nets	4 Years	N/A
28.1	Fuel Cells	N/A	N/A
29.1	Automatic Transmission Flexplates	3 Years	3 Years
29.2	High Horsepower Automatic Transmission Flexplates	3 Years	3 Years
30.1	Automatic Transmission Flexplate Shields	5 Years	5 Years
31.1	Flame Resistant Motorsports Helmets	N/A	N/A
34.1	Screw Type Superchargers	3 Years	3 Years
38.1	Head and Neck Restraint Systems	5 Years	5 Years
40.1	Abrasion Resistant Driver/Rider Suits	N/A	N/A

41.1	Motorsports Helmets	N/A	N/A
42.1	Steering Wheel Quick Disconnect/Release	N/A	N/A
43.1	Drive Shafts	N/A	N/A
45.1	Roll Cage Padding	N/A	N/A
46.1	Nitro-Methane Fuel Motorcycle Engine Restraint Device	2 Years	2 Years
49.1	Top Fuel Rear Wing Assemblies	FIA Only	FIA Only
54.1	Non-Flammable Thermal Barrier Fire Extinguishing Coatings	Annual Recoating	Annual Recoating
61.1	Turbochargers	2 Years	2 Years

Class Rules and General Safety Rules have always priority over this quick-guide. For TF, FC, TMFC, TMD, PM and any other class not covered in this rule book see the current FIA regulations or special class regulations.

ENGINE: GSR 1

GSR 1:1 COOLING SYSTEM

All cooling systems/radiators must be installed in the stock location for body style used. Front engine Dragsters must have system installed in front of engine. Rear engine dragsters with radiator mounted in front of engine must install a deflector from frame rail to frame rail and to the top of the roll cage. Portion above top rail may be width of rear roll cage bars. **See GSR 4:3 DEFLECTOR PLATE**

GSR 1:2 ENGINE

Classes limited to automotive engines only unless otherwise stated under Class Requirements. Contestants in weight-to-cubic-inch (weight to cubic centimetre) classes must claim cubic inch (cubic centimetre) displacement of engine used. No allowance for overbore; any part of a cubic centimetre (cubic inch) is rounded off to the next highest inch (i.e.: 301.2 = 302). If engine size is changed during a race, competitor must report to scrutineering before a run is attempted. Crankshaft centrelines must not exceed 610 mm (24inch) from ground in any class, except OEM trucks, maximum height 914 mm (36-inches). Engine must be mounted to frame by a minimum of two 10 mm (3/8-inch) diameter grade 5 (or Class 8.8) bolts.

Valve train must incorporate conventional automotive coil spring design; use of pneumatic-type valve trains is prohibited in all classes.

All classes, with the exception of ET cars slower than 10.99 seconds (*6.99), the use of a cast iron harmonic balancer is prohibited; units meeting SFI Spec 18.1 (always recommended on V8 engine) or steel billet harmonic balancer made in one piece mandatory. All cars with pressed-on front harmonic balancers must have such installed to prevent accidental loss (i.e.: drilled and bolted).

26

((C)))

MOTOLICIES OF AN ANDROLOGICAL MARCHARGE CONTRACTOR OF AN ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF AN ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OFTA ANTRACTOR O

GSR 1.2.1 ROTARY ENGINE

For classification of engine size of rotary engines, the actual engine size is multiplied by 2.2

GSR 1.2.2 DIAPER

For cars running 7.50 second ET or quicker, a Lower Engine Containment Device (diaper) meeting SFI Spec 7.1 or 7.2 is mandatory. Either a diaper or an under tray containing a non-flammable oil absorbent liner is recommended for all other vehicles.

GSR 1:3 EXHAUST

All cars must be equipped with exhaust collectors, headers or stacks installed to direct exhaust out of car body to rear of car, away from driver and fuel tank. Exhaust stacks must have a metal connecting strap to prevent loss of one or more stacks during competition. If silencers are used, they must be securely attached to exhaust system and car body or frame. Flexible tubing or flex pipe prohibited in all categories.

GSR 1:4 FLASH SHIELDS

Carburettor inlet must not be openly exposed. In place of hood, carburettors must be equipped with a flash shield or velocity stacks which cover the top, back and sides, preventing fuel from being siphoned into the air stream or blown into driver's face.

Additionally, any car that is driven, not towed, through the pits, with open stack(s) not protected by hood or scoop, must have screening installed on open stack(s) to prevent items from entering stack.

GSR 1:5 FUEL SYSTEMS

Location

All fuel tanks, lines, pumps, valves etc., must be outside of the driver's compartment and within the confines of the frame and/or steel body. Fuel tanks located in front of grille must be protected against collision damage by the frame or by a protection-bar with

minimum dimension 32.0 x 3.0 mm mild steel or (1 ¼ x 0,065 inch) chrome moly 4130, Titanium grade 9 or Docol R8 tubing. (i.e.: steel nerf bars, frame rail extensions, etc.). Cool cans in full-bodied cars, must be mounted a minimum of 152 mm (6-inches) forward of firewall. Fuel blocks must be located at least 152 mm (6-inches) forward of the flywheel/bell housing area.

Tanks

All tanks must be mounted inside the body-line and isolated from driver compartment by a firewall completely sealed to prevent any fuel from entering the driver's compartment. When permitted by class regulations, fuel tanks located outside body and/or frame must be enclosed in a steel tube frame constructed of minimum

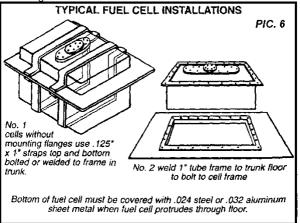
32.0 x 3.0 mm mild steel or (1 $\frac{1}{4}$ x 0,065 inch), (1.65 mm) chrome moly tubing. All fuel tanks must have a pressure cap and be vented outside of body. A positive-locking screw-on fuel tank cap is mandatory on all open-bodied cars. Insulated fuel tanks prohibited. When used, fuel cells must have a metal box protecting

27

 (\bigcirc)

MOTOLICIAN MOTOLICA

the part of the cell which is outside of body lines or trunk floor excluding hose connection area in rear. See PIC. 6



Lines

All non-OEM fuel lines (including gauge and/or data recorder lines) must be metallic, steel-braided or FIA accepted "woven pushlock". A maximum of 305 mm (12-inches) (front to rear) of non-metallic or non-steel braided is permitted for connection purposes only; individual injector nozzle lines are excluded. Fuel lines (except steel braided lines) in flywheel/bellhousing area must be enclosed in a 406 mm (16-inch) length of steel tubing, 3.2 mm (1/8-inch) minimum wall thickness, securely mounted as a protection against fuel line rupture. It is mandatory that fuel lines passing supercharger drive belts be steel braided FIA accepted woven pushlock fuel line: Aeroquip FC300, FC332 and Aeroquip Star Lite 200. Contact FIA for updates. Fuel lines must not be routed in the driveshaft tunnel.

Pumps/valves

Cars with non-OEM type mechanical fuel pumps must have a quick-action fuel shut off valve within easy reach of driver and located in main fuel line between the fuel tank and the carburettor and/or injectors. Fuel recirculation systems not part of normal fuel/pump system prohibited. All cars in Competition Eliminator, Pro Stock and Pro Mod must be equipped with a drain valve located between the fuel tank and carburettor(s) or fuel injector to facilitate removal of fuel samples for fuel check purposes.

Fuel/air

Any method of artificially cooling or heating fuel prohibited (i.e.: cool cans, ice, Freon, wet rags, etc.), except as noted in Class Requirements. Cool cans, wet towels etc. are permitted in ET Handicap classes, Super Street, Super Gas and Super Comp. Wet towels, rags, ice etc. must be removed before vehicle leaves staging area. Ambient temperature air only; cooling or otherwise changing the conditions of the intake air prohibited.

28

 (\bigcirc)

MOTOLES DOLL OK

GSR 1:5.1 INTERCOOLER

Addition of fuel to intake air before intercooler prohibited.

GSR 1:6 GASOLINE/ PETROL

Gasoline/ Petrol is defined for purposes of this Appendix as a mixture of hydrocarbons only. Non-hydrocarbons which do not increase the specific energy of the gasoline/ petrol are allowed to the extent that they do not exceed 0.15% by volume and are blended in the gasoline by the refiner or fuel manufacturer.

Gasoline/ petrol is a good electrical insulator, or dielectric, and its relative effectiveness as an insulator is represented by its Dielectric Constant. The average D.C. for the hydrocarbons which comprise gasoline/ petrol is 2.025. This is defined as a reading of "0" with the FIA/ Motorsport UK Fuel Check meter.

Gasoline/ petrol is tested and certified at FIA/Motorsport UK events through the application of various chemical analyses as considered appropriate by Fuel Check personnel. Gasoline/ petrol in a vehicle may be checked before use in competition. It is recommended to check unknown Gasoline/ petrol before competition use.

GSR 1.6.1 FIA/Motorsport UK Fuel Specifications See: FIA Year Book and Motorsport UK Year Book.

GSR 1.6.2 NITROMETHANE

It is mandatory that all nitromethane fuel must contain a marker dye that will change colour when the fuel becomes sensitised or contaminated. Due to impending legislation regarding the supply of Nitromethane and its possible misuse by subversive organisations, the following measures have been agreed with the Special Counter Terrorism Security department of the Home Office.

- Any NM fuel container not in service (actually being used) shall not be within sight or reach of the general public. After use all NM fuel containers holding any measure of NM shall be hidden away.
- When a team vacates its pit area all NM fuels will be securely locked away or the pit area where the NM is stored is to be manned by an adult at all times to prevent unwanted intervention.
- All NM fuels are to be securely locked away overnight.
- Any NM container carrying marks such as; Fuel, Nitro, Nitromethane, NM, any numbers followed by the percentage sign (e.g. 88%), CH3NO2, UN1261, or any other marks indicating that the content is NM should have such marks removed and replaced with an alternative description and where necessary still conform to current hazard labelling requirements. (Consult fuel supplier if in doubt).

29

 \mathbb{O}

MOTOLICIES OF AN ANDROLOGICAL MARCHARGE CONTRACTOR OF AN ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF AN ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OFTA ANTRACTOR O

Any possessor of NM must;

a). Refuse all requests to onward sell, supply or hand over NM to any persons, organisations or bodies not known to them.

b). Not donate, volunteer, lend, make available to or offer NM to any persons, organisations or bodies not known to them.

• If you notice anything that you may be connected with terrorist activity...call the Anti-Terrorist Hotline without hesitation on 0800 789321.

GSR 1:7 LIQUID OVERFLOW

All cars in competition with any type of water overflow capable of spilling water must have a catch-can to accumulate the excess liquids and not leak onto the track. Minimum catch-can capacity: 0,5 litre (1 pint) Catch-can must be securely fastened; i.e. bolted, clamped. Overflow may be routed into headers on cars that are supercharged or burn nitromethane or alcohol.

GSR 1:8 METHANOL

Methanol is a clear, colourless liquid with a mild odour at ambient temperatures. Methanol is sold in two Grades: A and AA and either grade is acceptable for use in FIA and Motorsport UK competition. Racers should ensure that the Methanol they purchase meets the U/M standard of purity. The purity standards for each grade are shown in the table below.

SPECIFICATIONS FOR PURE			
Property	Grade A	Grade AA	
Methanol content;			
weight percentage, minimum	99.85	99.85	
Acetone and aldehydes;			
parts per million, maximum	30	30	
Acetone; parts per million,			
maximum	20		
Acid (as acetic acid),			
parts per million, maximum	30	30	
Water content	1500	1000	
parts per million, maximum	1500	1000	
Specific gravity; 20°C	7928	7928	
Permanganate time; minutes	30 Characteristic	30	
Odour Distillation range at 1010 h Da	Characteristic		
Distillation range at 1010 hPa (760 mm Hg)	not more than	1°C including	
(700 mm rig)	64.4±0.1°C at	•	
Colour; platinum-cobalt	04.4±0.1 C at	700 mining	
scale, mix	5	5	
Appearance	clear-colourles	-	
Residual on evaporation,		0	
g/100 ml	.001	.001	
Carbonisable impurities;			
Colour platinum-cobalt scale,			
maximum	30	30	
	30		



Methanol is tested and certified at FIA/Motorsport UK events through the application of various chemical analyses as considered appropriate by Fuel Check personnel who reserve the right to exchange Methanol from the tank of any vehicle waiting in the staging lanes for a control fuel and to take away the samples for analysis. To be considered legal, Methanol used FIA/Motorsport UK competition must meet the U.S. Federal standards of purity. Any deviation from these standards because of impurities (beyond the limits established in the U.S. Federal specification) in the fuel sample will result in disqualification. Since Methanol is a hygroscopic substance, it readily absorbs moisture from the air which rapidly renders Methanol illegal as a fuel for use in FIA competition. Racers are cautioned to keep Methanol containers tightly capped at all times to minimise the absorption of water. Racers are encouraged to have Fuel Check personnel check samples of their Methanol any time there may be doubt as to its purity.

GSR 1:9 NITROUS OXIDE

Nitrous oxide allowed in ET classes, Super Street, Super Gas, Super Comp, Comp Eliminator AN/A, BN/A, CN/A, DN/A, BN/D and Pro Modified. See specific Class Requirements & Specifications. The use of any agents other than nitrous oxide as part of, or mixed with, this pressurised fuel system is strictly prohibited. All bottles must be securely mounted, and only gas cvlinders certified for use at the working pressure of the system as a fuel reservoir (also applicable to any vehicle with a pressurised gas system) permitted. All receiving cylinders should have rupture disc or safety valve to prevent over pressurisation. The bottle to solenoid supply pipe should be of steel or high quality steel braided Teflon hose e.g. Aeroquip and securely fastened every 6" (15.24 cm) with non-combustible clips and fasteners. Cars running 12 seconds or slower can use system manufacturers approved and supplied nylon pipe.

It must be routed outside the vehicle on closed cockpit cars and on open cockpit cars as far from the driver as possible. Where it passes the driver it must be of continuous length between front and rear bulkheads. All fittings must be of a screwed sealing type. .All systems must include a device which prevents the system being activated before the throttle is operated. A 'Warning Light' clearly labelled N2O must be wired into the solenoid circuit so that it is illuminated when the N2O system is armed. Nitrous oxide bottle(s) located in driver compartment must be equipped with a relief valve and vented outside of the compartment. System must be commercially available and installed per manufacturers recommendations. Bottle may not be mounted in engine compartment.

31

((C)))

MOTOLICIAN MOTOLICA

Advisory check: Generally check for leaks whilst the cylinder is turned on to verify gas tight connections. The shut off solenoid must be checked (with the gas cylinder turned on) by fully opening the throttle momentarily to determine whether N2O is being discharged (all nitrous lines must be disconnected and discharged



into the open air, and all fuel solenoids must be electrically unplugged). The throttle must then be released to about half throttle and held in that position. This should release the solenoid, which is activated by the throttle switch and cut off the flow of gas. Further checks should be made to ensure that any slight hiss of

escaping gas can be detected. All vehicles using a bottle of nitrous oxide must bear a mark in accordance with *(illustration PIC. 2.)*

The mark will be clearly visible and will be located in a place which is not likely to be damaged in the event of an accident and which is near to the competition number. Venting and refilling of N2O bottles should be undertaken with extreme caution. External heating of bottle(s) with open flame prohibited, only heating with hot water or electric blanket for the purpose permitted.

GSR 1:10 OIL SYSTEM

Accu-sump, dry sump tanks, oil filters, oil supply lines, etc., prohibited in driver compartment and outside of frame and/or steel body/fenders. Oil pressure gauge and line permitted in driver compartment. Metal or steel braided line is mandatory, maximum 5 mm (3/16-inch) inside diameter. Power enhancing additives prohibited.

GSR 1:11 PROPYLENE OXIDE

The use of propylene oxide is prohibited in all categories.

GSR 1:12 SUPERCHARGER ROOTS-TYPE:

Maximum size permitted 14-71; 19-inch (483 mm) maximum rotor case length; 11 1/4-inch (286 mm) maximum case width; 1/4-inch (6.35 mm) minimum case thickness; 1/4-inch (6.35 mm) minimum front plate thickness; .300-inch (7.6 mm) minimum rear plate thickness. Maximum rotor cavity diameter is 5.840 inches (148.34 mm). Rotor helix angle may not exceed that of a standard 71-series GM-type rotor, 4 degrees per inch (1.5748°/cm). Maximum overdrive may not exceed 70 per cent. Aluminium studs (supercharger to manifold) mandatory, any OEM street-type Supercharger permitted.

See GSR: 1.12, 1.13, 2.13 and 4.8.

32

ແດງ

MOTOLISPORT OK

See GSR 1.13 and Class requirements for manifold burst panel and restraint specifications.

ROOTS-TYPE HIGH HELIX:

It must adhere to same maximum case dimensions and maximum rotor cavity diameter as standard Roots. Rotor helix angle may not exceed 6.5- degrees per inch (2.559°/cm), and 123.5 degrees total over 19-inch (483 mm) maximum rotor length. Use of High Helix supercharger is permitted for cars running 7.50 or quicker. Maximum overdrive may not exceed 70 per cent. Aluminium studs (supercharger to manifold) mandatory.

See GSR 1.13 Class requirements for manifold burst panel and restraint specifications.

SCREW-TYPE:

It must meet SFI Spec 34.1. Maximum case length 16-inches

(406 mm); maximum case width 16-inches (406 mm); minimum case and front plate thickness 1/4-inch (6.35 mm); minimum rear plate thickness .300-inch (7.6 mm). Use of Screw-type supercharger is permitted for cars running 7.50 or quicker or when OEM fitted equipment. Under no circumstances may a screw supercharger overdrive exceed the manufacturers/SFI testing maximums. Manifold burst panel meeting SFI Spec 23.1 (in addition to supercharger panel) and restraint device meeting

SFI Spec 14.21 mandatory. Aluminium studs (supercharger to manifold) mandatory. Overdrive limits, as determined appropriate by FIA or Motorsport UK, are subject to adjustment at any time as dictated by performance.

ALL SUPERCHARGERS:

Variable multi-speed supercharger devices prohibited regardless of supercharger type. A belt guard or other protection device is required when fuel and/or oil lines pass supercharger drive belt area.

GSR 1:13 SUPERCHARGER RESTRAINT DEVICE & BURST PANEL

A Supercharger restraint system meeting SFI Specs is mandatory per class requirements. Super Pro Cars running Nitromethane require SFI 14.2, PM require an SFI 14.2 restraint, Comp Eliminator & ET cars running 7.49 (*4.49) or quicker Roots type require an SFI 14.2 restraint.

If running Methanol or, regardless of fuel, quicker than 7.50, Manifold Burst Panel meeting SFI Spec 23.1 mandatory. ET cars quicker than 7.50 with Screw-type require SFI 14.21 & manifold burst panel meeting SFI Spec 23.1 (in addition to panel in Supercharger)

All other Competition Eliminator, Super Street, Super Gas, Super Comp and Methanol burning ET cars require SFI 14.1. Supercharger restraint straps must be covered with a fire-resistant material. The restraint straps and fuel lines must be installed such

33

) motorsport uk

that when the straps are fully extended no load is placed on any of the fuel lines.

Restraint system must be updated at year intervals as per spread sheet under GSR: 0:1 from date of manufacture. See also Class Requirements.

GSR 1:14 THROTTLE

Regardless of class, each car must have a foot throttle incorporating a positive-acting return spring attached directly to the carburettor/injector throttle arm. A positive stop or override prevention must be used to keep linkage from passing over centre, sticking in an open position. In addition to return springs, some means of manually returning the throttle to a closed position by use of the foot must be installed on all altered linkage systems except hydraulically or cable-operated systems. Per Class Requirements - Throttle control must be manually operated by driver's foot, electronics, pneumatics, hydraulics or any other device may in no way affect the throttle operation. In certain classes timed throttle stops are permitted that use pneumatics or electronics to modulate the throttle after initial launch. Electronic operation of the throttle is allowable where fitted as an OEM system applicable to the vehicle concerned. In this circumstance the return spring requirement is waived where it is impractical to accommodate this. FIA or Motorsport UK accepted hand controls for the physically challenged permitted. Commercially available cable throttle systems are allowed. Choke cables and brazed or welded fittings on steel cable are prohibited. No part of throttle linkage may extend below frame rails.

GSR 1:15 VENT TUBES, BREATHERS

Mandatory as outlined in Class Requirements, permitted on all cars. Where used, the tubes must terminate into an acceptable, permanently attached catch-tank with a minimum capacity of 3.8 litres (one US gallon) per engine (except as noted in Class Requirements). The catch-tank must be baffled to keep overflow off track. A sight glass or tube is recommended to verify that tank is empty prior to run. Breather/vent tubes must be mechanically secured (tie-wraps prohibited) to the fittings and fittings locked at both ends.

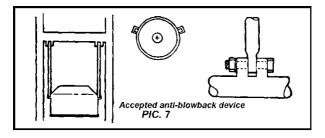
DRIVE TRAIN: GSR 2 GSR 2:1 ANTI-BLOWBACK DEVICE

If mandated by Class Requirements a brace or device must be installed that will prevent the Flywheel Shield or adapter shield from being blown rearward in the event of flywheel and/or clutch explosion. Material required is 4130 chrome moly, 4130, Docol R8 (or Reynolds 531), minimum size is 22.2 mm (0.875-inch) O.D. x 2.1 mm (0.083-inch) wall tubing with 10 mm (3/8-inch) fasteners. Ball-lock pins prohibited. **See illustration PIC. 7**.

34

 (\bigcirc)

MOTOLICIES OF AN ANDROLOGICAL MARCHARGE CONTRACTOR OF AN ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF AN ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OFTA ANTRACTOR O



GSR 2:2 AXLE-RETENTION DEVICES

All cars, except some ET cars as noted in Class Requirements, must be equipped with a satisfactory means of rear-axle retention; minimum .120-inch (3 mm) aluminium retainer or 0.090-inch (2.3 mm) steel bearing retainer is mandatory. Stock 'C' clip axle retention prohibited as outlined in class requirements.

GSR 2:3 CLUTCH

Each in competition, except those with car automatic transmissions, must be equipped with a foot-operated clutch incorporating a positive stop to prevent clutch from going over centre or past neutral as in the case of centrifugal units. All pedals must be covered with non-skid material. FIA accepted hand controls for physically challenged permitted. All slider clutches must meet SFI Spec 1.2, 1.3 or 1.4 as outlined under Class Requirements. If Class Requirements call for an SFI Spec 1.2 Clutch, an SFI Spec 1.5 clutch can be used. Multi-disc clutch assemblies for Non-OEM supercharged, nitrous-oxide injected, and non OEM Turbocharged vehicles must meet SFI Spec 1.3, 1.4 or 1.5 and must utilise an SFI Spec 6.2 or 6.3 Flywheel Shield, except as noted in Class Regulations

GSR 2:4 DRIVELINE

For all full-bodied and open-bodied cars running between 7.50(*4.50) and 13.99(*8.50), in place of a cross member located behind but within 6 inches(150mm) of the centre of the front universal joint: A driveshaft loop is mandatory on all cars, except those running 11.49(*7.35) seconds or slower equipped with street tyres. See Class Regulations

Full-bodied cars 7.49(*4.49) and quicker with OEM floor removed/replaced: Each end of the driveshaft must have a round 360-degree driveshaft loop within 6inches(150mm) of the universal joint, a driveshaft tube is also required. See Class Regulations.

Open-bodied cars 7.49(*4.49) and quicker where the driveshaft passes any part of the drivers body: Each end of the driveshaft must have a round 360-degree driveshaft loop within 6 inches (150mm) of the U/Joint, a driveshaft tube is also required. The driveshaft tube must extend the full length of the portion of the driveshaft that is adjacent to the driver's body or extend to within 6 inches (150mm) of the centreline of the rear U/Joint. For centre

35

iii) motorsport uk

steer cars with the driver seated above the driveshaft, in lieu of a driveshaft tube, a plate above the driveshaft with a minimum thickness of .120-inch(3.00mm) steel or titanium with a minimum of 4 attachment points to the chassis, using 5/16 Grade 8 Bolts, or welded or 1/4inch push/pull pins. This plate must be as wide as the seat. See Class Regulations.

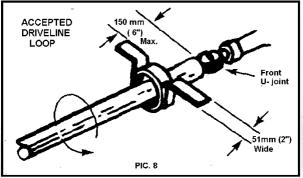
For all cars with a driveshaft without universal joints that passes any part of the driver's body: Each end of the driveshaft must have a full 360 degree cover of 1/16 inch (1.5mm) Steel or 1/8 inch (3.00mm) aluminium. The rear cover must surround the coupler. The front cover must surround the driveshaft from the rear of the reverser to the end of the splicer sleeve in the area of the driver's legs. All covers must be securely mounted to either the frame, a cross-member, the reverser or the third member.

DRIVESHAFT LOOP DEFINITION:

360 degrees of enclosure ¼ inch (6.00mm) minimum thickness and 2 inches (51.00mm) wide, or 7/8 inch (21.00mm) x .065inch (1.55mm) welded steel tubing, securely mounted to the frame or frame structure where available (or to the OEM floor or rocker box where a frame does not exist) and located within 6inches (150.00mm) of the front or rear U/J for support of the shaft in case of U/J failure.

DRIVESHAFT TUBE DEFINITION:

Driveshaft must be covered by a 360degree round, oval or tapered tube, covering the front universal joint and extending rearward a minimum of 12inches (300.00mm). Minimum thickness of tube is .050inch (1.250mm) steel or titanium. Driveshaft tube must use a minimum of four attachment points to the chassis using 5/16inch SAE Grade 8 bolts or welded or 1/4inch push/pull pins. A two-piece tube assembly is permitted using a minimum of six 3/8 inch SAE Grade 8 bolts. See *PIC.* 8.



GSR 2:5 FLYWHEEL

The use of stock-type cast iron flywheels and/or pressure plates prohibited. The use of aluminium flywheels in Top Fuel and Funny



Car is prohibited. Units meeting SFI Spec 1.1, 1.2, 1.3 or 1.4 are mandatory except as noted in the Class Requirements.

GSR 2:6 FLYWHEEL SHIELD & MOTOR PLATE: General

Absolutely no modifications to as-manufactured design are permitted on SFI Spec 6.1, 6.2 and/or 6.3 flywheel shields and/or liners. Titanium bell housings must be re-inspected and re-certified yearly. SFI 6.2 and 6.3 steel bell housings must be re-inspected and re-certified every two years in Top Fuel, Funny Car, Top Methanol Dragster, Top Methanol Funny Car, Pro Stock, Pro Mod and ET cars running 7.49 (*4.49) or quicker. In all other classes reinspection required every four years. SFI 6.1 steel bell housings must be re-inspected and re-certified every five years in ET cars running 7.49 (*4.49) or quicker, in all other classes every ten years. The flywheel shield must be fastened to the engine and motor plate with a full complement (all available engine bolt holes or as specified by the manufacturer) of grade 8 (or Class 12.9) bolts or high-strength studs. The use of Cap Head bolts to fasten the shield to engine or motor plate, to fasten covers, etc., is prohibited. All bolts (not studs or nuts) used for flywheel shield mounting, covers, etc., must be identifiable as to grade; all nuts and bolts associated with flywheel shield mounting, covers, etc., must be full standard depth, width, etc. (reduced thickness bolt heads, hollow bolts, half nuts, thin wall nuts, etc., prohibited). Maximum depth of flywheel shield is 8 5/8-inches (219 mm) except TF and FC, maximum depth 9.4-inches (239 mm) (inside) Maximum thickness of all motor plates, mid-plates, mounting plates installed between engine and flywheel shield is 1/2-inch (12.7 mm). All covers and fasteners associated with the flywheel shield must be installed prior to starting engine at any time, including warm-ups. Maximum spacing between flange fasteners in the flywheel shield is 7-inches (178 mm). Chemical milling or any other structure weakening procedures are prohibited. Welding to repair a flywheel shield is prohibited unless it is performed by the manufacturer and recertified by the manufacturer prior to use. Cooling holes in the motor plate are limited to a maximum of two 2-inch (51 mm) diameter holes (to be outside of the oil pan area). SFI 6.2 flywheel shields may have one 2-inch (51 mm) maximum diameter hole in the bottom of the back face of the shield. The opening in the motor plate for the crankshaft flange may not exceed the crankshaft flange diameter by more than 1-inch (25.4 mm).

GSR 2:7 FLYWHEEL SHIELD:

Top Fuel & Funny Car

TF and FC cars equipped with a clutch must have a flywheel shield (bellhousing) that meets SFI Spec 6.2 and is labelled accordingly. A one-piece motor plate constructed of 1/4-inch (6.35 mm) minimum thickness 4130 chrome-moly 4130 or Docol R8 (or Reynolds 531) steel and fitting between the engine and flywheel shield according to the requirements of SFI Spec 2.2C, 2.3P or 10.5A is required. The motor plate must be attached to the chassis at the four corners with at least two welded mounting points utilising minimum 3/8-inch (9.53 mm) diameter grade 8 (or

37



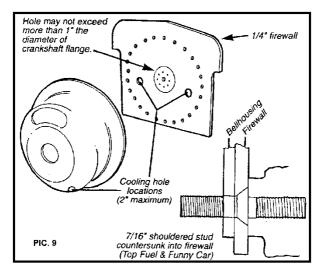
Class12.9) bolts and full nuts. The remaining two motor plate mounting points must be at least saddles fitting around the frame rails and secured with aircraft-type clamps or bolts (hose clamps prohibited).

The flywheel shield and motor plate are to be fastened to the engine by at least seven high strength steel (or titanium) 7/16-inch (11.1 mm) diameter shouldered studs countersunk 3/4-inch (19.1 mm) outside diameter into the engine side of the motor plate and threaded into the engine 3/4-inch (19.1 mm) minimum and nuts (of a similar material) above the centreline of the crankshaft. The motor plate must be fastened to the flywheel shield with at least eight 7/16-inch (11.1 mm) diameter grade 8 (or Class 12.9) bolts or high strength steel alloy (or titanium) studs and nuts also be fastened to the motor plate by four 3/4-inch (19.1 mm) diameter grade 8 (or Class 12.9) shoulder bolts or high strength steel (or titanium) fasteners and nuts; one in each quadrant as required by SFI Spec 2.3P or 10.1.E.

A minimum .090-inch (2.3 mm) 4130 chrome moly 4130 or Docol R8 (or Reynolds 531) steel or titanium liner as required by the manufacturer must be fitted to the flywheel shield. It must be welded together so that it will fit into the body of the flywheel shield and rotate in order to absorb energy. A 1/4-inch (6.35 mm) bolt may be threaded into the body of the flywheel shield to secure the liner(s) from movement during normal use. At least five fasteners, 3/8-inch (9.53 mm) diameter minimum, must be used to secure aftermarket planetary transmissions (and/or reversers) to the flywheel shield. 1/2-inch (12.7 mm) thick rings, bosses, or nuts must be welded, or otherwise secured inside the back face of the flywheel shield through which the fasteners must be secured. As described in section GSR 2:6, any modifications or alterations to the bellhousing by anyone other than the original manufacturer, are prohibited. Flywheel Shield must be recertified by the original manufacturer or his agent following modification. Clutch adjustment slots, maintenance holes and covers, etc. must be installed by the original manufacturer. See PIC. 9.

38

MOTOLESOOLT OK



GSR 2:8 FLYWHEEL SHIELD: Top Methanol Dragster & Top Methanol Funny Car

TMD and TMFC cars equipped with a clutch must have a flywheel shield that meets SFI Spec 6.2 and is labelled accordingly. All requirements for TMD and TMFC bellhousing installations are the same as TF & FC with the following exceptions:

A one-piece motor plate constructed of 1/4-inch or 6mm minimum thickness 2024T3 (or A-U4G1, AlCuMg2, L.97, L.98), 6061T6 (or H20) or 7075T66 (or A-Z5GU, AlZnMgCu1.5, L.95, L.96) or 6082T6 aluminium (or steel) and fitting between the engine and flywheel shield according to the requirements of SFI Spec 2.2C, 2.1A or 10.1E is required. The motor plate must be attached to the chassis with at least two welded mounting points utilizing minimum 3/8-inch (9.53 mm) diameter grade 8 (or Class 12.9) bolts and nuts. All other motor plate mounting points must be at least saddles fitting around the frame rails and secured with aircraft-type clamps or bolts (hose clamps prohibited).

The flywheel shield and motor plate are to be fastened to the engine by at least seven 3/8-inch (9.53 mm) diameter grade 8 (or Class 12.9) bolts or high strength steel (or titanium) studs threaded into the engine, 3/4-inch (19.1 mm) minimum, and nuts of a similar material, above the centreline of the crankshaft. The

motor plate must be fastened to the flywheel shield with at least eight 3/8-inch (9.53 mm) diameter grade 8 (or Class 12.9) bolts or high strength steel alloy (or titanium) studs and nuts below the centreline of the crankshaft. The flywheel shield must also be fastened to the motor plate by four 3/4-inch (19.1 mm) diameter grade 8 shoulder bolts or high strength steel (or titanium) fasteners and nuts; one in each quadrant s required by SFI Spec 2.3K or 10.1D.

As described in Section 2.6, any modifications or alterations to the bellhousing by anyone other than the original manufacturer are

()

MOTOLISCOLL

prohibited. Shield must be recertified by the original manufacturer or his agent following modification. Clutch adjustment slots, maintenance holes and covers, etc. must be installed by the original manufacturer.

GSR 2:9 FLYWHEEL SHIELD:

Competition cars, **equipped with a single or dual disc clutch**, must have a flywheel shield that meets SFI Spec 6.1, 6.2 or 6.3 and is labelled accordingly. Competition cars equipped with a multi (more than two) disc clutch must be equipped with a flywheel shield that meets SFI Spec 6.2 or 6.3 and is labelled accordingly.

As described in section 2:6, any modifications or alterations to the bellhousing by anyone other than the original manufacturer are prohibited. Flywheel Shield must be recertified by the original manufacturer or his agent following modification. Clutch adjustment slots, maintenance holes and covers, etc. must be installed by the original manufacturer.

A motor plate of 1/8-inch (3.2 mm) minimum thickness steel, titanium, or 2024T3 (or A-U4G1, AlCuMg₂, L.97, L.98), 6061T6 (or H20) or 7075T6 (or A-Z5GU, AlZnMgCu_{1.5}, L.95, L.96) or 6082T6

aluminium is required. The flywheel shield must be fastened to the engine and motor plate with a full complement (all available engine bolt holes or as specified by the manufacturer) of minimum 3/8inch (9.53 mm) diameter grade 8 (or Class 12.9) bolts or high strength steel studs above the centreline of the crankshaft. The motor plate must be fastened to the flywheel shield with at least eight 3/8-inch (9.53 mm) diameter grade 8 (or Class 12.9) bolts or high strength steel alloy (or titanium) studs and nuts below the centreline of the crankshaft. An opening in the motor plate for an alternative starter location is permitted but it may not exceed 2inches (51 mm) in diameter and when such an opening is present only one cooling hole is permitted in the motor plate.

GSR 2:10 FLYWHEEL SHIELD: Other Classes

Other class cars, except as noted in the ET Handicap Section, using a clutch, must be equipped with an SFI Spec 6.1 (single-disc clutch) or 6.2 or 6.3 (multi-disc clutch) flywheel shield labelled accordingly, complete with motor plate and full complement of bolts (all available engine bolt holes or as specified by manufacturer) of minimum 3/8-inch (9.53 mm) diameter grade 8 (or Class 12.9) bolts or high strength steel alloy studs above centreline of crankshaft. The motor plate must be fastened to the flywheel shield with at least eight 3/8-inch (9.53 mm) diameter grade 8 (or Class 12.9) bolts or high strength steel alloy studs and nuts below the centreline of the crankshaft. Modifications or repairs to the flywheel shield prohibited except if performed and recertified by manufacturer.

Exceptions to this rule: Volkswagen and Porsche boxer engine cars are not required to have a shield when they are normally aspirated and gasoline burning, and Porsche engines must use a steel billet flywheel in lieu of a flywheel shield. Some engines for which an SFI 6.1 or 6.2 Spec adapter shield is not commercially available, must be equipped with a flywheel shield made of 1/4-

 \mathbb{O}

MOTOLIS DOLLANG

inch (6.35 mm) minimum thickness steel plate, securely mounted to the frame or frame structure and completely surrounding the bellhousing 360 degrees. The flywheel shield shall not be bolted to either the bellhousing or engine. The flywheel shield must extend forward to a point at least 1-inch (25.4 mm) ahead of the flywheel and 1-inch (25.4 mm) to the rear of the rotating components of the clutch and pressure plate. Other engines, where an SFI 6.1, 6.2 or 6.3 flywheel shield is not available, may use an SFI 6.1, 6.2 or 6.3 flywheel shield from another application and mount it to a motor plate which is mounted to the engine block at all available bolt holes. Use of Titanium flywheel shields is permitted.

GSR 2:11 REAREND

Welded spider gear rear-ends prohibited in all classes. Fourwheel-drive allowed in all ET car classes. Aftermarket axles and axle-retention device mandatory on TF, FC, TMD, TMFC, Competition Eliminator, Super Comp, Super Gas and 10.99 (*6.99) or quicker ET cars; also mandatory on any car (regardless of class or ET) with a spool. <u>Rear axle must be fully floating or live on</u> **any vehicle quicker than 6.50 seconds or faster than 210 mph.**

GSR 2:12 TRANSMISSION

All cars and trucks in competition except motorcycle or snowmobile powered dragsters, must be equipped with a reverse gear.

GSR 2.13 TRANSMISSION, AFTERMARKET PLANETARY

A transmission shield covering transmission and reverser that meets SFI Spec 4.1 is mandatory if engine burns Nitromethane,

Methanol or is supercharged, or on any overdrive unit. Air shifter bottles must be stamped with DOT -1800 pound or at a 124 bar rating (minimum), and be securely mounted (no tie wraps or hose clamps). At least three bolts, 3/8-inch (9.53 mm) minimum, must be used to secure aftermarket planetary transmissions to the Flywheel Shield, except as noted in Top Fuel, Funny Car, Top Methanol Dragster and Top Methanol Funny Car.

GSR 2:14 TRANSMISSION, AUTOMATIC

Any Non-OEM floor-mounted automatic transmission shifter must be equipped with a spring loaded positive reverse lockout device to prevent the shifter from accidentally being put into reverse gear. Functional neutral safety switch mandatory. All

transmission lines must be metallic or high-pressure type hose. Triple barb hose fittings or aftermarket JIC/AN hose ends reusable or crimp mandatory.

All vehicles running quicker than 10.99 seconds (*6.99) or faster than 217 km/h (135 mph) and using an automatic transmission must be equipped with a transmission shield meeting SFI Spec 4.1 and labelled accordingly. "Blanket" type shield, appropriately labelled as meeting SFI Spec 4.1 permitted. All non-blanket type shields must incorporate two (or one, per manufacturer's instructions) 3/4-inch (19.050 mm) x 1/8-inch (3.2 mm) straps that bolt to the shield on each side, and pass under the transmission

 (\bigcirc)

MOTOLIS DOLLANG

pan, or transmission pan must be labelled as meeting SFI Spec 4.1.

COMPETITION ELIMINATOR, SUPER COMP, SUPER GAS and 9.99 (*6.36) or quicker ET cars, and 217 km/h (135 mph) or faster ET cars using an automatic transmission must be equipped with a Flexplate meeting SFI Spec 29.1 or 29.2 and covered by a Flexplate Shield meeting SFI Spec 30.1. Air Shifter bottles certified for use at the working pressure (minimum 124 bar rating) or DOT-1800 mandatory. All receiving cylinders should have rupture disc or safety valve to prevent over pressurisation. All bottles must be securely mounted (hose clamps and/or tie wraps prohibited).

BRAKES & SUSPENSION: GSR 3 GSR 3:1 BRAKES

Brakes on each car, regardless of class, must be in good working order with two-wheel hydraulic brakes on rear wheels as a minimum requirement. Lightening of backing plates, brake drums and/or brake shoes by cutting or trimming metal prohibited. Cooling or lightening holes may not be drilled in cast iron disc brake rotors. Aluminium rotors prohibited. If hand brake is used, brake handle must be inside car's body or driver compartment. Brake lines must be steel, steel braided or DOT (DIN/ISO) approved flexible and routed outside the frame rail, or enclosed in a 16-inch (406 mm) length of 1/8-inch (3.2 mm) minimum wall thickness steel tubing securely mounted where line(s) pass the flywheel bellhousing area also, not routed in the driveline tunnel. All brake lines must be attached to chassis as per OEM-style; hoses must have mounting brackets; no tie wraps, tape, etc. All brake lines on any rear-engine car must be protected inside of tubing or be braided steel construction where they pass the engine. Automated and/or secondary braking systems prohibited; application and release of brakes must be a direct function of the driver; electronics, pneumatics or any other device may in no way affect or assist brake operation. All pedals must be covered with non-slip material. FIA accepted mechanical anti-lock braking systems (ABS) permitted in all classes. If brake system includes a differential pressure switch, line-lock installed on front brakes must have solenoid installed after the differential switch. All line-locks (electric or hydraulic) must be self-returning to normal brake operating mode. All master cylinder reservoirs situated in the driver's compartment must be covered to prevent leakage onto the driver in the event of an upset.

GSR 3:2 SHOCK ABSORBERS

Each car in competition must be equipped with one operative shock absorber for each sprung wheel. Shock absorbers may be either hydraulic or friction type, securely mounted and in good working order. (See Class Requirements.)

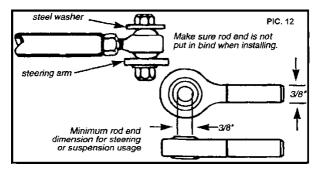
GSR 3:3 STEERING

Each car's steering system must be secure and free of defects. All welded parts must have additional visible reinforcement. Only

42



conventional automotive steering systems are permitted; flexible steering shafts prohibited. All rod ends must be a minimum of 3/8-inch (9.53 mm) shank diameter and must be installed with flat washers to prevent bearing pull out **See: PIC 12**.



Hollow rod ends are prohibited. All steering boxes, sectors and shafts must be mounted to the frame or suitable crossmember and cannot be mounted in any case to the Flywheel Shield, motor plate or firewall. It is recommended that they be mounted behind the Flywheel Shield. A secondary steering shaft stop must be installed to prevent long steering shaft from injuring driver in case of frontal impact (i.e.: collar or U-joint pinned at crossmember, bracket, etc.). Commercially available quick-disconnect steering wheels permitted (except as noted in Class Requirements). All fasteners should be Hex Grade 5 (9.8) or better, clearly identifiable. **No Cap Heads or Set Screws.**

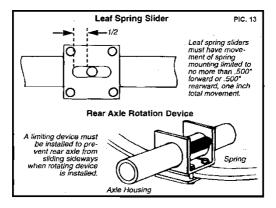
GSR 3:4 SUSPENSION

All cars must have a full suspension system of the type produced by an automobile manufacturer (i.e.: springs, torsion bars, etc.). Rigid-mount front and/or rear axles are permitted when so indicated in Class Requirements. All rod ends must be installed with flat washers to prevent bearing pull-out. Hollow rod ends are prohibited. Three-wheel vehicles are not eligible for competition in any class. Radius rods are not required on front axles which are rigidly mounted 18-inches (457 mm) or less from king pin axis. Any front suspension using a beam or tubular axle must have radius rods attached to frame. **See PIC: 13.**

43

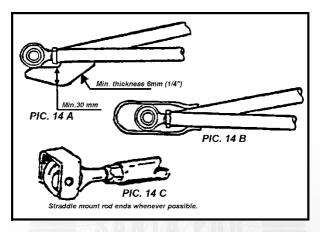
()

MOTOLISCOLL



GSR 3:5 TRACTION BAR ROD ENDS

Minimum requirement for rod ends on the front of all ladder-type traction bars is 3/4-inch (19.1 mm) thread 5/8 (16.87 mm) bore steel. A rod end strap to keep ladder bar secured in event of rod end failure mandatory in all classes. All traction devices that are not attached at front (i.e. slapper bars, etc.) must have a U-bolt or strap to prevent them from coming in contact with track. *See PIC:* **14A, 14B and 14C**



GSR 3:6 WHEELIE BARS

Some classes limit length of wheelie bar, see Class Requirements. All wheelie bars, regardless of class, must have non-metallic wheels (i.e.: rubber, plastic). Using wheelie bar wheels as "fifth wheel" sensing device prohibited.



MOTOLEDOLT OK

FRAME: GSR 4

GSR 4:1 ALIGNMENT

Each car in competition, regardless of class, must have sufficient positive front-end alignment to ensure proper handling of car at all speeds.

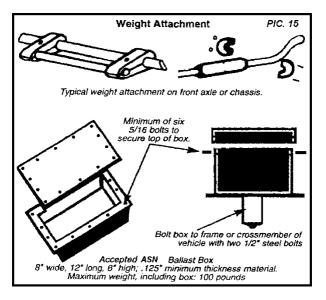
GSR 4:2 BALLAST

As permitted in Class Requirements. Any material used for the purpose of adding to a car's total weight must be permanently attached to the car's structure and must not extend behind or in front of the car's body or above the rear tires. No liquid or loose ballast permitted (i.e.: water, sandbags, rocks, shot bags, metal weights, etc.). Weight boxes (2 maximum) made of 1/8-inch (3.2 mm) material (see illustration - PIC. 15) may be constructed to hold small items such as shot bags, lead bars, etc., as long as box and contents do not weigh more than 100 pounds (45,36 kg) or as outlined in Class Requirements. The box must be securely fastened to the car's frame or crossmember with at least two 1/2inch (12.7 mm) diameter steel bolts. Any liquid other than engine fuel being used, located behind the front firewall, (on a front engine car) is considered ballast, and is prohibited. To permit "making a class" due to the difference in scale calibration, a maximum removable weight of 100 pounds (45.4 kg) (or as outlined in Class Requirement) is permitted. Removable weight must be securely mounted to the frame or frame structure by a minimum of two 1/2inch (12.7 mm) diameter steel bolts per 100 pounds (45.4 kg), or one 3/8-inch (9.53 mm) bolt per 5 pounds (2.3 kg). Hose clamps, wire, strapping, tape, tie wraps etc. for securing weight or ballast prohibited. See illustration for attachment method. Recommended forms of ballast are: 1) Heavier gauge steel floors such as 16 or 18-gauge (1.30 or 1.00 mm) (heavier gauge and/or plate steel prohibited); 2) Frame reinforcing cross members; or 3) The addition of protective equipment such as roll bars, flywheel shield, etc. If additional ballast is needed, and is permitted according to class requirement, it must be permanently attached to frame, bolted with two 1/2-inch (12.7 mm) diameter bolts per 100 pounds (45.36 kg), with nuts welded to bolts. Maximum amount of removable and/or permanent ballast, regardless of class, is 500 pounds (227 kg), except for Junior Dragster only 25 pounds (11,3 kg)

45

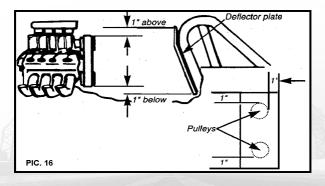
((C)))

MOTOLESOOLT OK



GSR 4:3 DEFLECTOR PLATE

All rear-engine cars must have a deflector plate to protect driver and fuel tank from engine. Plates must be made of minimum 1/8inch (3.2 mm) aluminium or .060-inch (1.5 mm) steel or titanium. On supercharged cars, must extend from top blower pulley to bottom pulley and be at least 1-inch (25.4 mm) wider than each pulley. Other cars must have plate covering from shoulder height to bottom of chassis. On any enclosed engine/driver configuration a full bulkhead must be installed completely sealing the driver from the engine. Minimum attachment for any plate is four 5/16-inch (7.9 mm), Grade 5 (or Class 9.8) bolts. See 1:1 COOLING SYSTEM for additional requirements. **See PIC. 16**.



46

iii) motorsport uk

GSR 4:4 FRAMES

TF, FC, PS, PM, TMD, TMFC, COMPETITION ELIMINATOR. SUPER COMP, SUPER GAS, and 9.99 or quicker ET chassis (see Class Requirements) must have a serialised chassis sticker affixed to frame before participating in any event. Chassis certifications are available through SFI Chassis Inspectors. For TF, FC, TMD, TMFC, PS, PM chassis inspection every 12 months mandatory. Note that for ET Cars running 6.00 (*3.66) seconds or slower, a chassis inspection every 36 months is mandatory. For all nonroad-going cars, except 11.00 or slower, Motorsport UK logbook is mandatory. Grinding of welds prohibited. Plating of the chassis is prohibited on all cars manufactured after January 2003 unless otherwise noted in class requirements, painting is permitted. All butt welds must have visible reinforcement (i.e. sleeve and rosette welds). Pressurisation of frame rails, roll bar or roll cage in lieu of air bottles is prohibited. Visible reinforcement around any hole in any SFI Spec chassis (not just the roll cage) is mandatory. Reinforcement must be of at least the same cross sectional area as the hole, at least .049 inch (1.2 mm) thick chrome moly, 4130 or Docol R8 and completely welded around the outside.

See 4:10 ROLL BARS and 4:11 ROLL CAGES.

GSR 4:5 GROUND CLEARANCE

Minimum 3-inches (76 mm) from front of car to 12-inches (305 mm) behind centreline of front axle, 2-inches (51 mm) for remainder of car, except oil pan and exhaust headers where permitted. When allowed under Class Requirements, devices used for anti-rotation purposes (i.e.: wheelie bars) are exempt from the two-inch (51 mm) clearance rule.

GSR 4:6 NON-DESTRUCTIVE TEST CERTIFICATES

Non-destructive test inspection certificates may be required by the Scrutineer on any altered or welded parts.

GSR 4:7 MOUNTING HARDWARE

Hose clamps and tie wraps may only be used to support hoses and wires; all other components must be welded, bolted, aircraft clamped etc. All Dzus fastener must be metallic.

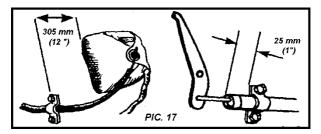
GSR 4:8 PARACHUTES

If outlined in Class Requirements, it is mandatory to have a braking parachute produced by a recognised drag racing parachute manufacturer. Scrutineers may observe the proper operation of the parachute and inspect for worn or frayed shroud lines, ripped or dirty canopies and worn or ragged pilot chutes. Parachute release cable housings should be mounted solidly to frame tube or other suitable member no further back than 1-inch (25.4 mm) from the control. The release cable outer, must be attached within 12-inches (305 mm) of the parachute pack, and in a manner that will allow the inner cable to release the chute. When supercharged and/or using nitromethane as a fuel, it is mandatory that the parachute pack and unpacked shroud lines be protected with fire-resistant material from the mounting point into the pack. Parachutes must have their own independent mounting. The use of ball-lock pins for parachute mounting and/or strop

 (\bigcirc)

MOTOLICIES OF AN ANDROLOGICAL MARCHARGE CONTRACTOR OF AN ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OFTA ANTRACTOR O

anchorage are prohibited. See Class Requirements regarding use of two parachutes. Such applications require separate shroud-line mounting points for each parachute system. *See PIC.* **17.**



GSR 4:9 PINION SUPPORT

All cars using an open driveline must have radius arms, traction bars or some suitable pinion support to prevent rear end housing rotation. It is recommended that a torque tube, steel, 1/8-inch (3.2 mm) minimum wall thickness, be used to enclose all drivelines.

48









Quick-guide, Roll bar/ cage.

Quick-guide, Roll ball d	In accordance with illustration PIC.					
CLASS	18	19	20	21-22	23-26	27-29
Junior Dragster	See	See section Junior Dragster				
ET> 12.00	С			O ¹⁾	O 2)	O ³⁾
ET 10.00 - 11.99 *	0			O ¹⁾	O 2)	O ³⁾
ET 8.50 – 9.99		0	0	O 1)	O 2)	O ³⁾
ET 7.50 or slower	Dragsters could meet SFI spec 2.6/2.7					
ET 7.50 or slower	Full-bodied cars could meet SFI Spec 25.4B or 25.5B or 25.6.					
ET 6.00 – 8.49	Roll cage/ chassis meeting SFI Spec. 2.5C. 2.4C, 10.2 or 25.1G					
SST with OEM frame/ floor	0	0				
SST with integrated Chassis			0			O ³⁾
SG with OEM frame/ floor		0				
SG with integrated Chassis			0			O ³⁾
SC Altered type-1				0		
SC Altered type-2 with OEM frame/ floor		0				
SC Altered type-2 with			0			O ³⁾
integrated Chassis			U			0 -,
SC Dragster					0	
Comp Altered type -1. A/A,						
B/A, AA/A, BB/A, AT/A, AN/A,	Roll cage/ chassis meeting					
BN/A.	SFI	SFI Spec. 10.1E, 10.2				
Comp Altered type-1.				0		
All other classes.						
Comp Altered type-2. A/A,						
B/A, AA/A, BB/A, AT/A, AN/A, BN/A	Roll cage/ Chassis meeting SFI Spec 25.1G					
Comp Altered type-2. All other			O ⁴⁾			O ³⁾
classes Integrated						
chassis/roll cage.						
Comp Dragster A/D, B/D,	Roll cage meeting SFI Spec 2.4C/2.5C					
AA/D, BB/D, BN/D	excl. wing and rear-end mountings, or 2.4C $^{\scriptscriptstyle 3)}$					
Comp Dragster all other			13		O 4)	
classes.						
Pro Modified		See current FIA rules.				
Pro Stock	See current FIA rules.					
Top Methanol Funny Car		See current FIA rules.				
Top Methanol Dragster		See current FIA rules.				
Funny Car	See current FIA rules.					
Top Fuel	See current FIA rules.					

*Stock bodied (i.e. completely standard closed body) production cars manufactured from 2010 or newer, running no quicker than 10.00 seconds, having no modifications other than modified exhaust, air intake filter systems and/or remapped ECU can run without a roll bar.

50

) motorsport uk

O = Mandatory

C = Mandatory on convertibles and cars without top.

- 1): Illustrations 21-22 Altereds, Funny cars
- 2): Illustrations 23-26 Dragsters
- 3): Illustrations 27-29 Roadsters

4): It is recommended that these chassis is built to meet SFI Specs.

<u>Class rules and General Safety Rules always have priority</u> over this guick-guide.

Top Methanol Funny Car, Top Methanol Dragster, Pro Stock, Funny Car and Top Fuel Eliminator follow FIA International Drag Racing Rules in the FIA Year Book, together with all changes published in the monthly FIA bulletin.

GSR 4:10 ROLL BARS

All roll bars must be within 6-inches (152 mm) of the rear, or side, of the driver's head, extend in height at least 3-inches (76 mm) above the driver's helmet with driver in normal driving position, and be at least as wide as the driver's shoulders or within 1-inch (25.4 mm) of the driver's door. Roll bar must be adequately supported or cross-braced to prevent forward or lateral collapse of roll bar. Rear braces must be of the same diameter and wall thickness as the roll bar and intersect with the roll bar at a point not more than 5-inches (127 mm) from the top of the roll bar. Sidebar must be included on driver's side. The side bar must pass the driver at a point midway between the shoulder and elbow. All vehicles with OEM frame must have roll bar attached to frame; installation of frame connectors on uni-body cars does not constitute a frame and therefore it is not necessary to have the roll bar attached to the frame. Uni-body cars with stock floor and firewall (wheel tubs permitted) may attach roll bar with 6-inch (150mm) x 6-inch (150mm) x 0.125-inch (3.2mm) steel plates on top and bottom of floor bolted together with at least four 3/8-inch (10mm) bolts and nuts or weld main hoop to rocker sill area with 0.125-inch (3.2 mm) reinforcing plates. All 4130 chrome moly tube welding must be done by approved TIG Heliarc process; mild steel (or ST51) welding must be approved MIG wire feed or TIG heliarc process. Welding must be free of slag and porosity. Any grinding of welds prohibited. See illustration (PIC. 18). Roll bar must be padded anywhere driver's helmet may contact it while in driving position. Adequate padding must have minimum 1/4-inch (6.35 mm) compression or meet SFI Spec 45.1.

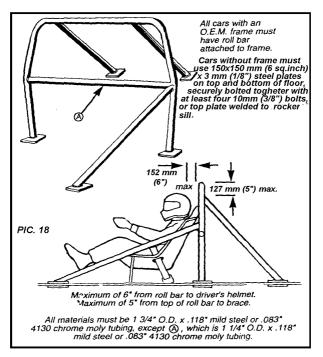
51

 \mathbb{O}

MOTOLESOOLT OK

GSR 4:10.1 MATERIAL & DIMENSION ROLL BAR

Roll bar must be made of minimum O.D. of 1 $\frac{3}{4}$ inches (45mm) x 0.118 inch (3.00mm), or minimum OD 1 $\frac{3}{4}$ inches (45mm) x 0.083inch (2.1mm) chrome moly.



GSR 4:11 ROLL CAGE

Roll Cage: All cage structures must be designed in an attempt to protect the driver from any angle, 360-degrees and be fully welded. All 4130 chrome moly tube welding must be done by approved TIG heliarc process; mild steel tube welding must be approved MIG wire feed or TIG heliarc process. Welding must be free of slag and porosity. Any grinding of welds prohibited. Roll Cage must be padded anywhere the driver's helmet may contact it while in the driving position. In Competition eliminator where SFI Spec on chassis is required, Pro Modified, Top Methanol Funny Car, Top Methanol Dragster, Pro Stock, Funny Car and Top Fuel padding must meet SFI Spec.45.1 See GSR 4:4 FRAMES for chassis certification procedures.

Open Bodied Cars

See illustrations (PIC. 21, 22, 23, 24, 25, 26, 27, 28 and 29).

When driver is in driving position in an open bodied car, roll cage must be at least 3-inches in front of helmet. Cars without cross member above driver's legs must have a strap or device to prevent legs from protruding outside chassis. On front-engine dragsters,

 (\bigcirc)

MOTOLES DOLL OK

seat uprights and back braces must be arranged such that a flat surface passed over any two adjacent members will not contact the driver seat or containment. Additional uprights, max 30-degrees from vertical, must be added until this criterion is satisfied. When non-vertical uprights or "running W" side bay designs are used (diagonals installed at greater than 30-degrees from vertical), adjacent roll cage diagonals must be the same size as that required for the upright. Motor mount and/or rear end uprights (except rear engine dragster) may be rectangular tubing, 1 3/4-inch x 1-inch x 0.058-inch (44.5 x 25.4 x 1.5 mm) chrome moly or 0.118 inch mild steel minimum.

Full Bodied Cars

See illustrations (PIC. 19, 20)

On full bodied car, with driver in driving position, helmet should be in front of main hoop. If helmet is behind or under main hoop, additional tubing same size and thickness as roll cage must be added to protect driver. Main hoop may be laid back or forward but driver must be encapsulated within the required roll cage components.

All cage structures must have in their construction a cross bar for seat bracing and as the shoulder harness attachment point; cross bar must be installed, not above and no more than 4-inches (102 mm) below the driver's shoulders. On 2 door road legal cars slower than 8.50 seconds the seat bar may be bolted in, as per diagram 20a. All required rear braces must be installed at a minimum angle of 30-degrees from vertical, and must be welded in. Side bar must pass the driver at a point midway between the shoulder and elbow.

Unless an OEM frame rail is located below and outside of driver's legs (i.e. '55 Chevy, '65 Corvette, etc.) a rocker or sill bar, minimum 1 5/8-inch (41.2 mm) x 0.083-inch (2.1 mm) chrome moly or 0.118inch (3.0 mm) mild steel or 2-inch x 2-inch x 0.058-inch (50.8 x 50.8 x 1.5 mm) chrome moly or mild steel rectangular, is mandatory. In any car with a modified floor or rocker box within the roll cage uprights (excluding six square feet (0.56 square meter) of transmission maintenance opening) rocker bar must be installed below and outside of driver's legs, and must tie into the main hoop, the forward hoop, frame, frame extension or side diagonal. Rocker bar may not tie into swing out side bar support. If rocker bar ties into side diagonal more than 5-inches (127 mm) (edge to Edge) from forward roll cage support or main hoop, a 1 5/8-inch (41.2 mm) x 0.083 (2.1mm) chrome moly or 0.118 (3.0 mm) mild steel brace/gusset is mandatory between the diagonal and forward roll cage support or main hoop.

Swing out bar permitted on OEM full bodied car 8.50 seconds and slower.

 a. 15/8-inch (41.2 mm) O.D. x 0.083-inch (2.1 mm) chrome moly or 0.118-inch (3.0 mm) mild steel minimum. Bolts/pins must be 3/8-inch (9.5 mm) diameter steel, minimum and in double shear at both ends.

 (\bigcirc)

MOTOLICIAN CONTRACTOR

53

- b. Male or female clevises permitted. Male clevis must use two minimum, 1/8-inch (3.2 mm) thick brackets (chrome moly or mild steel) welded to each roll cage upright; Female must use minimum 1/4-inch (5.4 mm) thick bracket (chrome moly or mild steel) welded to each roll cage upright. Pins must be within 8inches (204 mm) of the vertical portion of both the forward and main hoops. A half cup backing device must be welded to the vertical portion of the main hoop (inward side) or the upper end of the swing out bar (outward side), minimum 0.118-inch (3.0 mm) wall (chrome moly or Mild steel) extending at least 1 5/8-inch (41.2 mm) past the centre of the pins. A clevis assembly utilising a minimum 0.350-inch (8.9 mm) thick male components and two minimum 0.175-inch (4.45 mm) thick female components may use a 1/2-inch (12.7mm) diameter grade 5 bolt(9.8), and does not require a half cup backing device.
- c. Sliding sleeves of 1 3/8-inch (35 mm) x 0.083-inch (2.1 mm) chrome moly or 0.118 (3.0 mm) mild steel, with minimum 2inch (51 mm) engagement, are permitted in lieu of the upper pin/cup.
- d. All bolt/pin holes in the swing out bar must have at least one hole diameter of material around the outside of the hole.

For all dragsters, funny cars and other cars requiring a funny car or dragster style roll cage, the upper roll cage members must be arranged such that a flat surface passes over any two adjacent members will not contact the driver's helmet while the helmet is held in contact with the inner side of the same roll cage members. If the roll cage members do not satisfy this criteria, head/helmet guards of 1 inch x 0.058-inch (25.4 x1.50 mm) chrome moly or 1 inch x .118 inch (25.4 x 3.00mm) round tube until the criteria is satisfied.

If the OEM firewall has been modified (in excess of 1 square foot (929 cm2) for transmission removal, not including bolted in components) a lower windshield or dash bar of $11/4 \times 0.058$ -inch (32 x 1.5 mm 4130 chrome moly or $11/4 \times 0.118$ (32 x 3.0 mm) mild steel is mandatory connecting the forward cage support.

Unless attaching to a OEM floor or frame, the minimum requirements for a frame member to which a roll cage member is attached are 1 5/8-inch x .118-inch mild steel or .083-inch chrome moly round tubing, or 2-inch x 2-inch x 0.058-inch mild steel or chrome moly rectangular.

T45 tubing may be used for chassis/roll bar construction. If used, it must conform to the same requirements as 4130 chrome moly, eg, welding and wall thickness specifications. When used it must be presented to the tech inspectors in an unpainted state for approval.

54

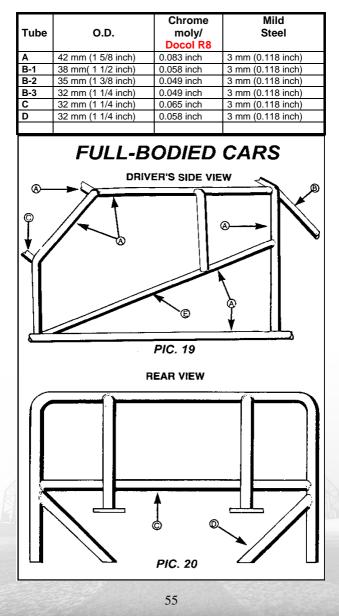
(C)))

MOTOLIS DOLLANG

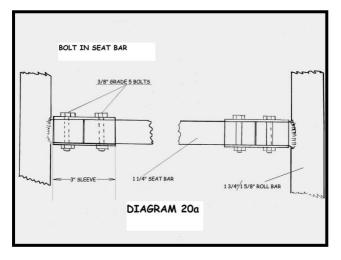
GSR 4.11.1 FULL BODIED CARS IN ET CLASSES, SST, SG, SC AND ALTERED CARS TYPE-2.

EXCEPT WHERE SFI SPECS ARE MANDATORY, (8.49 seconds and quicker).

Roll cage must be manufactured in steel or chrome moly tubing. Minimum dimensions as in table for Pic 19 and 20 below.







All cars with an OEM frame must have roll cage welded to frame. **B-** If A, two bars any length

If B1, 30" or less; must attach within 5-inches from top of main hoop.

If B2 minimum 4 bars. At least 2 bars must attach to horizontal portion of main hoop.

If B3 minimum 6 bars. At least 2 bars must attach to horizontal portion of main hoop.

- D- 32 mm (1 1/4") x 1.47 mm (0.058") 4130 chrome moly or 3mm (0.118") mild steel, mandatory when main hoop welded to plates on floor, must be connected to sub frame.
- E- May substitute an "X" brace of 38 mm (1 1/2") x 1.65 mm (0.065") 4130 chrome moly or 38 mm (1 1/2") x 3 mm (0.118") mild steel.
- F- The passenger side Diagonal can be 1 $\frac{1}{2}$ x 0.065" chrome Moly or 1 $\frac{1}{2}$ x 0.118" mild steel.

Alternative main frame

In SST, SG, SC(except dragster), ET cars slower than 8.50 seconds (except dragsters) and type 2 Altered cars in Competition Eliminator classes B to H and CC, DD, and DT; the main frame can be made of rectangular tubing minimum $60 \times 40 \times 3 \text{ mm}$ (2 ½" x 1 ½" x 0.118").

56

) motorsport uk

GSR 4:11.2 ROLL CAGE ALL OTHER CARS 8.50 or slower, (EXCEPT WHERE SFI SPECS ARE MANDATORY (8.49 seconds and quicker)). Rear engine Dragsters 8.50 or slower can alternatively meet SFI spec 2.7C.

tube	O.D.	Chrome moly/ Docol R8	Mild Steel
Α	38 mm (1 1/2 inch)	0.065 inch	3 mm (0.118 inch)
A1	38 mm (1 1/2 inch)	0.058 inch	3 mm (0.118 inch)
В	42 mm (1 5/8inch)	0.065 inch	3 mm (0.118 inch)
С	35 mm (1 3/8 inch)	0.058 inch	3 mm (0.118 inch)
D	32 mm (1 1/4 inch)	0.058 inch	3 mm (0.118 inch)
	29 mm (1 1/8 inch)	0.065 inch	3 mm (0.118 inch)
D1	26 mm (1 inch)	0.049 inch	3 mm (0.118 inch)
Е	19 mm (3/4 inch)	0.058 inch	3 mm (0.118 inch)
	26 mm (1 inch)	0.049 inch	3 mm (0.118 inch)
E1	16 mm (5/8 inch)	0.058 inch	3 mm (0.118 inch)
F	32 mm (1 1/4 inch)	0.058 inch	3 mm (0.118 inch)
	35 mm (1 3/8 inch)	0.049 inch	3 mm (0.118 inch)
G	16 mm (5/8 inch	0.058 inch	3 mm (0.118 inch)
Н	26 mm (1 inch)	0.058 inch	3 mm (0.118 inch)
I	32 mm (1 1/4 inch)	0.049 inch	3 mm (0.118 inch)

Notes regarding numbers in illustrations PIC. 21-26:

- #1. Rear engine dragster, 5 or 6 points attachment use tubing code A. Funny Car, Altereds and Front engine Dragster with 6 points attachment use tubing code A, or with 5 points attachment use tubing code B. If using 5 points attachment upper frame rail must me tubing A1.
- #2 If over 457 mm (18 inches), dimension A becomes B, and C becomes A1.
- #3 If an X or K is used then E1, otherwise E.

#4 If lower frame rails transition onto back brace uprights, there must be a tubing code D1 crossmember between back brace uprights (rear seat crossmember), min.127mm (5 inches) max. 254 mm (10 inches) above lower frame rails.

- #5 Kidney upright.
- #6 Helmet bars in all vehicles, 1" x .058" C/M or 1" x .118" M/S.

N.B. Mild steel, chrome moly or Docol R8 or SFI chassis options for vehicles 7.50 secs or slower;-SFI 2.7C Rear Engine Dragster

- SFI 2.6A Front Engine Dragster
- SFI 10.3 Altered
- SFI 10.4 Side Steer Roadster

SFI 25.4B Tube frame Car 3600lbs max

SFI 25.5B OEM frame Car 3600lbs max

57

I motorsport uk



RACE PROVEN EXPERTISE IN DESIGN AND FABRICATION



PHOTO COURTESY OF IVAN SANSOM & ROSE HUGHES

HIGH QUALITY CHASSIS WORK IN CHROME MOLY AND STEEL ALUMINIUM INTERIOR WORK AXLE SPECIALISTS CUSTOM FABRICATION WORK

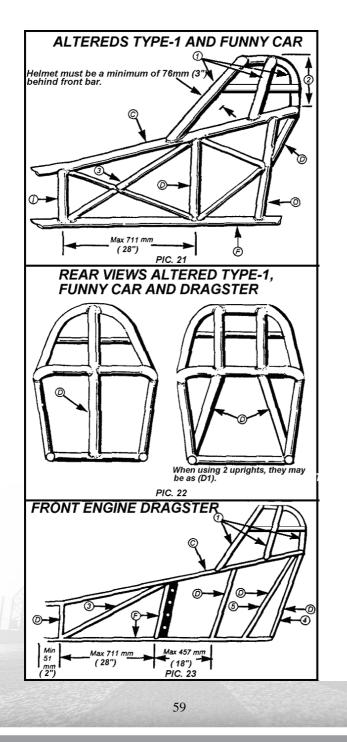
SUPPLIERS OF HIGH QUALITY MATERIALS

AUTHORISED DEALERS FOR: STRANGE ENGINEERING, MARK WILLIAMS, MOSER, MOTIVE GEAR, WELD RACING, LENCO, JAZ PRODUCTS, SPEEDFLOW, BMRS MAGNAFLOW, REID, SIMPSON, STROUD SAFETY, FLAMING RIVER, ROCK BATTERIES TRICK TITANIUM, BROWELL BELLHOUSINGS, TSR TRANSMISSIONS, HOOSIER, RACEPAK, MSD, TORCO OILS

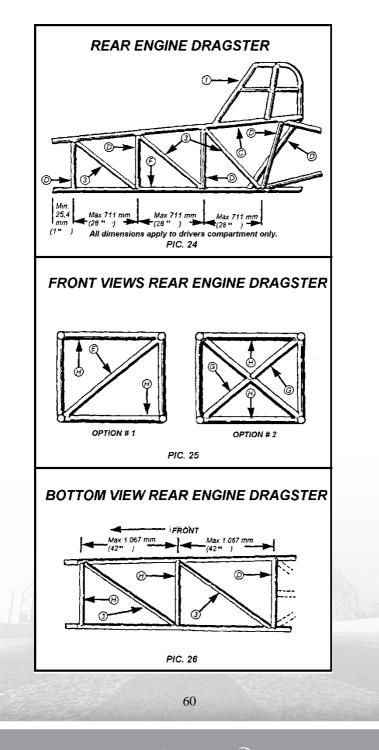
PHONE 01256 880589 FAX 01256 883057 EMAIL <u>robinson_racecar@yahoo.co.uk</u> Website www.robinson-race-cars.co.uk

58

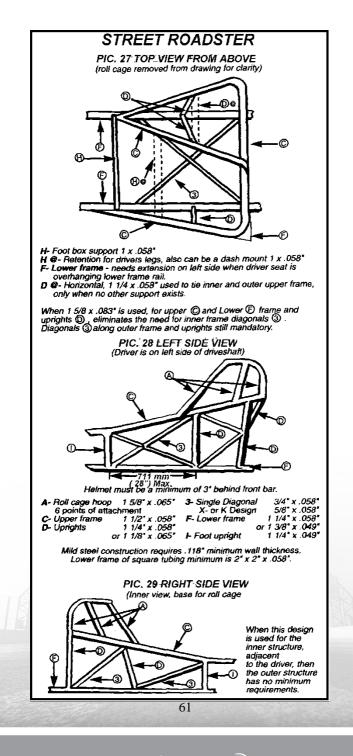
in motorsport uk







www.motorsportuk.org 🔊 motorsport uk









(Photo courtesy of Julian Hunt)



TOP QUALITY RACE CAR FABRICATION 01268 571077 www.chris-isaacs.com

www.facebook.com/pages/Chris-Isaacs-Race-Cars/290167604333168

62



GSR 4:11:3 <u>Cars with engine behind rear axle</u> centreline.

Cars running 8.50secs – 12.99 seconds to have 6 point roll cage per GSR 4:11.

All cars with altered roofs such as roof chops, cabriolets, and "Webasto type" sunroofs to have 6 point cage per GSR 4.11 regardless of E.T.

All cars running 14.99secs or quicker with GRP or non-metallic "flip fronts" must have 6 point roll cage per GSR 4:11.

All cars running 13.00secs to 14.99secs to have roll bar per GSR: 4.10.

Any car running quicker than 8.49 secs must be fitted with a roll cage conforming to the relevant SFI spec.

GSR 4:12 WHEELBASE

The minimum is 2286 mm (90-inches). The exception to this is a car running no quicker than 9.99 (*6.32) seconds and which is based on a production vehicle having an original wheelbase of less than 2286 mm (90-inches). This vehicle must retain the original manufactures wheelbase. Maximum wheelbase variation from left to right is 25.4 mm (1-inch), unless otherwise noted in Class Requirements.

TYRES & WHEELS: GSR 5

GSR 5:1 TYRES

Tyre will be visually checked for condition, pressure, etc., and must be considered free of defects by the technical inspector prior to any run. All street tyres must have a minimum of 1.6 mm, 1/16 inch) tread depth. Temporary spares, space saver spares, farm implement or trailer tyres prohibited. Metal, screw-in valve stems mandatory in tubeless tyres, front and rear, on cars running 11.00 sec or quicker. If not stated otherwise under class rules, cars running 200 km/h (124 mph) or faster must be equipped with front tyres classified minimum "HR" or with racing tyres type frontrunners.

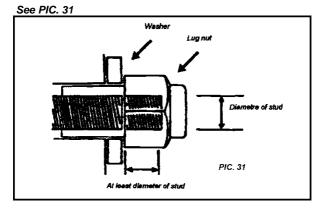
GSR 5:2 WHEELS

Hubcaps must be removed for scrutineering. A check will be made for loose lugs, cracked wheels, worn or oversize lug- holes, and condition of spindles, axle nuts, cotter pins, etc. Snap-on hubcaps are prohibited on any class car. Each car in competition must be equipped with automotive type wheels with a minimum 12-inches (305 mm) diameter unless Class Requirements stipulate otherwise. Motorcycle wheels or lightweight automotive wire wheels must be equipped with .100-inch (2.5 mm) minimum diameter steel spokes, properly cross-laced to provide maximum strength. All spoke holes in rim and hub must be laced. Omissions to lighten wheels prohibited. All wheel studs must project into the

illi motorsport uk

hex portion of the lug nut by a distance equal to one diameter of the stud.

Steel lug nuts are mandatory. Maximum rim width on any car: 16inches. No rear wheel discs or covers allowed in any category.



INTERIOR: GSR 6 GSR 6:1 DRIVER COMPARTMENT

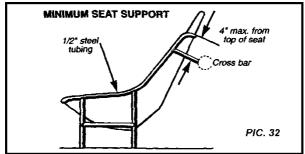
All interior panels (firewalls, floors, wheel tubs, doors, etc.) within the driver compartment of enclosed-cockpit cars where the driver is located behind the engine must be constructed of materials other than magnesium. Driver compartment of any enclosed or full bodied car must be totally sealed from engine. All holes in firewall must be sealed with aluminium or steel. Openings around all linkages, lines, wires, hoses, etc. must be minimised. **See also GSR 7.5.**

GSR 6:2 UPHOLSTERY, SEATS

The driver's seat of any car in competition must be constructed, braced, mounted, and upholstered so that it will give full back and shoulder support. The driver's seat must be supported on the bottom and back by the frame or cross member. Except as noted in SFI specifications, seats must be bolted with four bolts with nuts and washers on the bottom and one bolt in the rear into crossbar; all bolts must go into frame or cross braces, ball-pins for seat attachment prohibited. All seats must be upholstered, or as noted under Class or SFI Requirements. Properly braced, framed, supported and constructed seats of aluminium, Fiberglas or double layer poly (accessory seats) or carbon fibre are allowed. Single layer Fiberglas seats must have steel tube framework, 1/2-inch (12.7 mm) min outside diameter, for support. Aftermarket aluminium seats must have reinforced head rest. Magnesium seats prohibited. **See PIC. 32**

64

Contension (Contension of the contension of the



GSR 6:3 WINDOW NET

A ribbon type or SFI spec 27.1 mesh type window net is mandatory on any full-bodied car required by the rules to have a roll cage. Window net must be securely mounted on the inside of the roll cage, with the permanent attachment at the bottom. All attachment points must be designed in an attempt to protect the driver and avoid contact with the track surface or guard wall/guard rail. Eyelets, clips, dog leash, hose clamps, etc. prohibited. Penetration of webbing, except as performed by manufacturer, prohibited. Any modification to net must be performed by manufacturer. See Class Requirements for any deviations.

BODY: GSR 7 GSR 7:1 ADVERTISING

FIA and/or Motorsport UK reserve the right to regulate the advertising which appears on the body of any car participating in FIA and/or Motorsport UK events.

7:2 AIR FOILS, WINGS

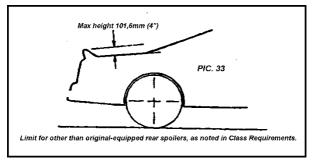
Air foils, canards, wings, and spoilers other than original factory equipment will only be allowed in open-bodied class cars (i.e.: Dragster, Street Roadster, and Altered) or as noted in Class Requirements. A positive locking device to prevent movement is mandatory. No part to be within 6-inches (152 mm) of rear tires. Spring-loaded spoilers, wings or canards prohibited. Adjustment of air foils, wings or spoilers during run prohibited.

NOTE: A spoiler is mounted directly to the deck lid of the vehicle, such that air only passes on the top side of the device. An air foil or wing is mounted on stands, struts or pedestals, such that air passes over the top and underneath the device. Minimum fastener size on all front wings, canards, etc. is 1/4-inch (6.35 mm). Ball lock pins prohibited. *See PIC. 33*

65

 (\bigcirc)

MOTOLICIAN MOTOLICA



GSR 7:3 COMPETITION NUMBERS

Any car competing at FIA and/or Motorsport UK events must display the driver's Competition number. Numbers must be a minimum 152 mm (6-inches high) and 38 mm (11/2-inches) wide. Class designation letters must be a minimum 76 mm (3-inches) high and 25.4 mm (1-inch) wide. Driver's competition number and class designation must be displayed in a legible manner in a contrasting colour to the vehicle's background colour, or light colour on windows, in a prominent position, and be clearly visible to the Tower personnel. Class and numbers must be in the form of permanent decals or paint. The use of shoe polish in any form is prohibited.

GSR 7:4 FENDERS/MUDGUARDS

All vehicles in all classes must have re-rolled or beaded edges on altered fenders. Flaring or spreading external fender lines prohibited. Front fenders may not be "drooped" on full fendered cars, except as noted in Class Requirements.

GSR 7:5 FIREWALLS

Each car in competition must be equipped with a minimum 0.032inch (0.8 mm) aluminium or 0.024 (0.6 mm) steel firewall, extending from side to side of the body and from the top of the engine compartment's upper seal (hood, cowl, or deck) to the bottom of the floor and/or belly pan. Firewall must provide a bulkhead between the engine and/or fuel tank and driver compartment. All openings must be sealed with metal. In certain instances fibreglass, carbon fibre or other composites may be used. See Class requirements or consult the FIA/Motorsport UK. Use of magnesium prohibited.

GSR 7:6 FLOORS

All cars without floors must be equipped with floor pans made of steel or aluminium which must extend the full length and width of the driver compartment to the rear of the driver's seat. Cars equipped with floors or belly-pans made of Fibreglass or other breakable material must have metal subfloors. In all cars with OEM Fiberglas floors, a crossmember (minimum 51 mm (2-inches) x 51 mm (2-inches) 2.1 mm (0.083-inch) wall thickness square tubing) must be installed between frame rails for proper driver's seat, seat

iii) motorsport uk

belt, shoulder harness and crotch strap installation. Belly pans and subfloors enclosing engine or driver compartment must contain suitable drain holes so that liquids and foreign matter cannot collect, thus creating a fire hazard. Minimum 0.8 mm (0.032-inch) aluminium or 0.6 mm (0 .024-inch) steel. In certain instances, an FIA/ Motorsport UK accepted panel made of composite material may be substituted for steel or aluminium. Contact FIA/Motorsport UK for list of accepted composite panels. Use of magnesium prohibited.

GSR 7:7 HOOD/BONNET SCOOP

On full-bodied cars, where allowed, hood scoop may not extend more than 11-inches (279 mm) above height of original hood surface. On open-bodied, front-engine cars, scoop may not extend more than 11-inches (279 mm) above height of carburettor top. Scoop may have one inlet opening only. **See Class requirements** *for additional restrictions.*

GSR 7:8 WINDSCREEN

On open-bodied cars, or any other class car without a windscreen, a metal or other fireproof deflector must be installed. Minimum size on Street Roadster and Altered class cars is 5-inches (127 mm) x 12-inches (305 mm). The deflector should divert wind, liquids and foreign matter over the driver's head, be securely mounted and installed in such a manner that it does not obstruct the driver's frontal view in any way.

GSR 7:9 WINDSCREEN, WINDOWS

Windscreens and/or windows on all cars, when called for under Class Requirements, must be of safety glass, Plexiglas, Lexan (Polycarbonate), or other shatter-proof material. Windscreens and/or windows must be clear, without tinting or colouring, except when OEM factory-tinted safety glass is fitted. Competition number decals are allowed on any window, windscreen or back light, except as noted in Class Requirements. Tape of any kind prohibited on any windscreen or window.

ELECTRICAL/CONTROL: GSR 8 GSR 8:1 BATTERIES

All batteries must be securely mounted. Rear firewall of 0.6 mm (0 .024-inch) steel or 0.8 mm (0 .032 inch) aluminium (including package tray) required when battery is re-located in trunk. In lieu of rear firewall, battery may be located in a sealed 0.6 mm (0.024-inch) steel or 0.8 mm (0.032-inch) aluminium or FIA accepted poly box. If sealed box is used in lieu of rear firewall, box may not be used to secure battery, and must be vented outside of body. A maximum of two automobile batteries, or 68 kg (150 pounds) combined maximum weight (unless otherwise specified in Class Requirements) is allowed. Metal battery hold-down straps mandatory. Strapping tape prohibited. Hold-down bolts must be minimum thread dia 10 mm (3/8-inch) if battery is relocated from stock and other than stock hold-downs are used. (J hooks prohibited or must have open end welded shut.

GSR 8:2 DELAY BOXES/DEVICES

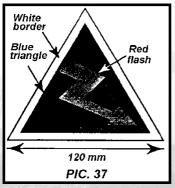
A Delay Box or Delay Device is defined as any device (electric, electronic, pneumatic, hydraulic, mechanical, etc.) built for the express purpose of creating a delay between release of transbrake or line-lock button, or release of foot or hand brake, or release of clutch pedal/lever, and the resultant action of the vehicle. Delay Device may only display delay amount dialled in, analogue or digital display allowed. See Class requirements for number of boxes/devices permitted. Delay device may only serve to create a pre-set delay between release of Trans brake, line-lock, etc. and resultant action of vehicle. Delay device may only be connected to systems; i.e. Trans brake, and/or line-lock, and/or clutch, dependant on vehicle, and throttle stop. Delay device connected to shift timers, data recorders, or any other equipment prohibited. Wiring of delay box/device must be fully visible, labelled and traceable to Scrutineer. Only delay boxes/devices fitting this description will be allowed.

Any system that does not fit the above description is prohibited, and must be corrected before the vehicle will be passed through pre-event scrutineering. Further, discovery of a prohibited device at any time following pre-event scrutineering will be grounds for immediate disqualification from the event, loss of all FIA and /or Motorsport UK points for the season, and suspension from all FIA, Motorsport UK and/or National Championship Drag Racing Events for remainder of season. Additional penalties may be imposed in accordance with the FIA and/or Motorsport UK International and/or National Sporting Code. (See 9:1 COMPUTERS, 9:2 DATA RECORDERS)

GSR 8:3 IGNITION

Each car in competition must have a positive-action on/off switch, capable of de-energising the entire ignition system, in good working order, located within easy reach of the driver. "Momentary contact" switch prohibited. Magneto `kill button'-type switches are prohibited.





Mandatory when battery is relocated. or as outlined in Class Requirements. An electrical power cut-off switch (one only) must be installed with the switch on the rear most part of the vehicle and be easily accessible from outside the car body. The cut-off switch must stop all functions electrical including magneto The ignition. positions must be clearly indicated

MOTOLES DOLL OK

68

(C)]

with the word "OFF". If switch is "push/pull" type, push must be the action for shutting off the electrical system, pull to turn it on. Any rods or cables used to activate the switch must be minimum 1/8-inch (3.2 mm) diameter. Plastic or keyed switches prohibited. Switches and/or controls must be located behind rear wheels on rear engine dragsters. The external control switch for this cut-off switch will be clearly indicated by a red flash inside a white-edged blue triangle with a base of at least 120 mm. See illustration PIC. **37**.

GSR 8:5 STARTERS

All cars must be self-starting. Rollers and/or push starts prohibited.

GSR 8:6 TAIL LIGHTS

All vehicles in ET, SST, SG, SC and Comp Eliminator must have as minimum requirement one working tail light for night operations. Strobe, flashing, high intensity, laser, infrared, photo sensitive or other light emitting/receiving device prohibited. Any type of lights that may distract other drivers are prohibited. Also see Class Requirements.

SUPPORT GROUP: GSR 9

GSR 9:1 COMPUTER

Except those computers installed on stock vehicles by the new vehicle manufacturers for the proper operation of such vehicles, no vehicles may be equipped with computers which in any way effect the operation of the vehicle. Subject to class requirements, OEM or OEM-type electronic fuel injection permitted. Traction control is now permitted. All related wiring, sensors, etc. must be identifiable to the Scrutineer. A computer is defined as any device (electrical, mechanical, pneumatic, hydraulic, etc.) that activates any function of, or in any way affects the operation of, the vehicle based on measurement, sensing, processing, etc., of any data related to the performance of the vehicle. Display or transmission of any data gathered or processed, to the driver or any remote location (telemetry), is prohibited (see 9:2 DATA RECORDERS).

GSR 9:1:1 AUTOMATED SHIFTERS

Per class requirements timed or rpm activated shifters and the like permitted, but all automated functions must be pre-set before the run. Timer may only display timer amount dialled in, analogue or digital display permitted. Devices may be removed at any time at discretion of FIA or Motorsport UK.

GSR 9:2 DATA RECORDERS

Data recorders may be used to record functions of a vehicle, so long as they do not activate any function on the vehicle. Data Recorder may not be activated by the throttle, clutch, brake, etc., mechanisms nor by the Christmas tree, radio transmitters, sensing of wheel speed, inertia, laser device, or transmission of track position, must be activated by separate switch. Fifth wheel sensing

69

devices prohibited on all vehicles (includes wheelie bar wheels). All lines sensing flow, pressure, etc., of fuel or oil must be metallic or steel braided. Transmission or display of data gathered or processed by data recorder, to the driver or any remote location, prohibited. Data may only be reviewed (print out, replay, etc.) after the run.

Any device (mechanical, hydraulic, pneumatic, electrical, optical, etc.) other than OEM type, which assists in determining track location of the competitor's own vehicle or opponent's vehicle is prohibited. Only OEM style mirrors, mounted in conventional fashion, permitted.

Discovery of a device which displays indicates or transmits "on track" or "track location", elapsed time type data will be grounds for immediate disqualification from the event. Additional penalties may be imposed in accordance with the FIA and/or Motorsport UK International and/or National Sporting Code.







ANDY ROBINSON RACE CARS CAN ASSIST YOU WITH ALL YOUR SAFETY EQUIPMENT NEEDS.

WE CAN ADVISE AND SUPPLY YOU WITH PERSONAL SAFETY EQUIPMENT INCLUDING RACE SUITS, HELMETS, GLOVES, BOOTS AND HANS DEVICES.

WE CAN SUPPLY VEHICLE SAFETY EQUIPMENT INCLUDING ENGINE DIAPERS, BLOWER RESTRAINTS, TRANSMISSION BLANKETS, HARNESSES, WINDOW NETS AND ROLL BAR PADDING.

WE ARE EUROPEAN DEALERS FOR IMPACT RACE PRODUCTS, STROUD SAFETY, TAYLOR MOTORSPORTS AND SIMPSON.



WE CAN ALSO ASSIST YOU WITH SFI RECERTIFICATION. ANDY ROBINSON RACE CARS CAN RECERTIFY PRODUCTS FROM TAYLOR MOTORSPORTS AND STROUD SAFETY IN HOUSE. CALL US ON +44 1256 880589



71



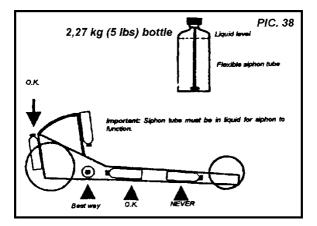
GSR 9:3 FIRE EXTINGUISHER / SUPPRESSION SYSTEM

On-board fire-extinguisher system is mandated under certain Class Requirements. If a hand-held fire extinguisher is carried on board the vehicle, it must be mounted in a secure manner; flipopen type clamps prohibited. DRY POWDER PROHIBITED.

On-board fire suppression systems must be manually controlled (pull-type only on FC and TMFC) Cold Fire 302 or Fire X plus and mounted per manufacturer's specifications with the primary nozzle(s) directed in an attempt to protect the driver. Other agents classified by the FIA/Motorsport UK as Acceptable Total Flooding Agents (Feasible for Use in Occupied Areas) may be used, contact FIA/Motorsport UK for listing. Lines must be mounted within the frame rails. Fire suppression bottle activation cables must be installed inside frame rail where cables pass engine/bellhousing area. Bottles must be certified for use at the working pressure and permanently mounted (no hose clamps or tie wraps). In the case of more than one bottle, each bottle must have its own distribution tubing and nozzles. The use of bottles, nozzles or tubing other than that recommended by the manufacturer is prohibited. Nozzle placement is extremely important; two nozzles are placed at the front of the engine, one on each side, and one nozzle is located in the driver compartment near the steering column, minimum. Upon activation of the system the contents of the bottle(s) must be totally discharged; partial-discharge systems prohibited. The bottles must be mounted in such a manner that should an explosion or failure of any mechanical component of the vehicle occur, the bottles will be protected from flying parts. Also, the position of the bottles in the vehicle must be high enough that they cannot come into contact with the track surface following loss of a tire or wheel. They should be protected from excessive temperature and mounted rigidly to the vehicle. See PIC. 38 Remote cables must be metallic (plastic or plastic-wrapped cables prohibited) and installed so they are protected in the event of an upset or collision. Follow the manufacturer's recommendations regarding installation, especially on bend radius and protection from crimping or kinking. All fire suppression systems must use steel lines, steel or aluminium distribution nozzles and must be equipped with a pressure gauge. All bottles must be identified with a gross loaded weight figure. It is the responsibility of the competitor to weigh the bottle prior to each event. If there is an external lever for activating the extinguishers, this must be indicated with a mark which complies with illustration PIC. 39

72

MOTOLESOOLT OK



GSR 9:4 JACKS & JACKSTANDS

No work may be done under any car in the pit area while the car is supported by only one jack. Additional safety devices such as jack stands are mandatory to provide additional protection in the event of jack failure. Failure to observe this rule is grounds for immediate disqualification. TF, FC, PS, PM, TMD and TMFC must use cradles/jack stand devices that attach to the frame (conventional jack stands prohibited) when working on and/or running engine in pits with vehicle in a raised position. Jack stand devices must be constructed as to provide a minimum ground clearance of 178 mm (7-inches) as measured from the ground to the outer diameter limit of the rear tires.

GSR 9:5 LIFTING DEVICES

Any form of mechanical, hydraulic or other leverage-type device for raising a car's driving wheels off the starting line surface is prohibited.

GSR 9:6 OVERSIZE TRAILERS

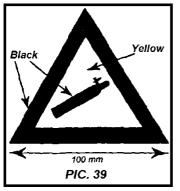
Those contestants utilising semi-tractor/trailer equipment (18 wheelers) must close lift gate type rear doors after unloading/loading procedures are completed. Also, all extended ramps must be stowed after use. Maximum length of trailer and truck is 20 meters (65 feet). The Maximum width of trailer and awning combination is not to exceed 22-feet (6.705m).

73

Contension (Contension of the contension of the

GSR 9:7 PRESSURISED BOTTLES

Only gas cylinders/bottles certified for use at the working pressure (minimum 124 bar rating) of the system as a fuel reservoir



permitted (also applicable to any vehicle with a pressurised gas system). All receivina cylinders should have rupture disc or safety valve to prevent over pressurisation. All bottles must be securely mounted (hose clamps and/or tie wraps prohibited).

GSR 9:8 PUSH BARS

Push or tow starts prohibited.

GSR 9:9 TOW VEHICLE

Any vehicle used as a tow vehicle must have the driver's Competition Number displayed on the tow vehicle. Limit of six crew members in push-tow vehicle. Crew members must be inside cab or completely inside bed or truck, not to be seated on tailgate, standing on running boards or otherwise not completely inside vehicle.

GSR 9:10 TWO-WAY RADIO COMMUNICATION

The use of two-way radios for the purpose of voice communication between driver and crew is acceptable in all classes. Telemetry may in no way be used for gathering data or performing control functions.

GSR 9:11 WARM-UPS

It is mandatory that a driver be seated in the car in the normal driving position any time the engine is running. The practice of Trans brake testing, converter stalls, line lock testing, and/or transmission warming is prohibited in all classes, in all areas of the event except in starting line approach areas beyond staging, or unless vehicle is on jack stands. Non-compliance is ground for disqualification. TOP FUEL, FUNNY CAR AND ANY VEHICLE USING NITROMETHANE FUEL: When starting this category of vehicle in the Pit Area - the car must be fully within the assigned space. NO PART OF THE REAR TYRE MAY EXTEND PAST THE END OF YOUR TRAILER. When occupying the "end spot" pit space, or if the neighbouring trailer does not completely shield your car, it is mandatory to park a tow truck/car along-side the race car while the engine is running.

 (\bigcirc)

MOTOLICIAN MOTOLICA

DRIVER: GSR 10

(ALSO, REFER TO FIA INTERNATIONAL SPORTING CODE, (APPENDIX L) AND Motorsport UK COMPETITORS YEAR BOOK (BLUE BOOK))

GSR 10:1 APPAREL

Each member of a participant crew must be fully attired when present in the staging, starting and competition areas of the race track. Shoes are mandatory. Shorts, bare legs, tank tops, or bare torsos are prohibited when driving in any class.

GSR 10:2 APPEARANCE

Vehicles participating in drag racing events must be presentable in appearance at all times; those considered improperly prepared may be rejected by the Scrutineer and/or the Clerk of the course /Race Director. The appearance of personnel attending contestant vehicles is equally important, and is subject to the same considerations.

GSR 10:3 ARM RESTRAINTS

Where mandated by Class Requirements, arm restraints must be worn and adjusted in such a manner that driver's hands and/or arms cannot be extended outside of roll cage and/or frame rails. Arm restraints shall be combined with the driver restraint system such that the arm restraints are released with the driver restraints, Refer to manufacturer for instructions.

GSR 10:4 LICENCES

See Drag Race Competition Licence section.

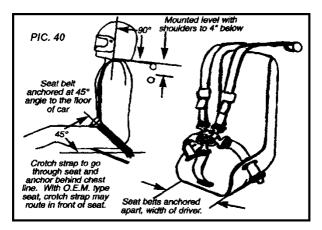
GSR 10:5 DRIVER RESTRAINT SYSTEMS

SFI Spec 16.1, 16.5 or FIA Spec 8853/98 and 8853/2016 are acceptable for all classes except T/F and TF/FC (SFI 16.1 only). FIA Homologated belts have a 5 year life, SFI 16.1 and 16.5 a 2 year life. Note that 3" belts intended for use with head and neck restraint systems can have a 2" section where they run over the shoulders but the belts must be presented with the restraint device to the scrutineer. All seat belt and shoulder harness hardware must be produced by the same manufacturer, and originally designed to be used with each other. For harness installation, see illustration (PIC 40). Cars using OEM or OEM-type seat may route crotch strap in front of seat instead of through seat. Only those units that release all attaching points in one motion are permitted. When arm restraints are worn with a restraint system that utilises a "latch lever", a protective cover must be installed to prevent arm restraint from accidentally releasing the latch lever. Protective cover not required if system utilises "duck-bill" latch hardware. All harness sections must be mounted to the frame, or a cross member, or reinforced mounting, and installed to limit the driver's body travel both upward and forward. Seat belts may not be wrapped around lower frame rails.

 (\bigcirc)

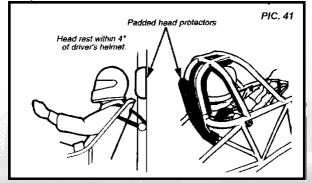
MOTOLIS DOLLANG

It is acceptable that all seats be mounted vertically and incorporate a compatible crotch strap. Under no circumstances may bolts be inserted through belt webbing. Check manufacturer's mounting instructions.



GSR 10:6 HEAD PROTECTOR

In any car where a roll bar, or roll cage is installed, a head pad must be provided at the back of the driver's head and constructed in an attempt to prevent whiplash upon impact. The roll bar or cage must be padded wherever it may come in contact with the driver's helmet. Adequate padding should be 6 mm (1/4-inch) thick or meet SFI Spec 45.1. For chassis that have to meet SFI chassis specs, padding meeting SFI 45.1 is mandatory. The use of weather stripping and similar thin or low impact resisting materials is prohibited. A padded roll bar or cage alone is not acceptable as a padded head protector unless it is within 102 mm (4-inches) of the driver's helmet. A seat that incorporates a reinforced head rest is acceptable. **See PIC 41.**



76

 \mathbb{O}

MOTOLISCOLL

GSR 10:7 HELMETS & GOGGLES

See Motorsport UK Competitors Year Book (Blue Book).

Drivers of any open bodied car wearing an "open face" helmet, must wear protective goggles. Modifications to helmet/visor/shield are prohibited. All helmets must have the appropriate certification sticker affixed inside the helmet. See also class requirements. The use of built in Pneumatic Helmet removal systems is recommended.

GSR 10:8 NECK COLLAR

Must be commercially produced neck collar designed for racing. Two different types of collars are commercially available - a full 360-degree "donut" type or a pull-together "horseshoe" type - see Class Requirements for type specified.

Modification according to manufacturer's recommendations, to fit helmet and driver's neck/shoulder spacing, permitted. It must be worn as per manufacturer's recommendations and must meet SFI Spec 3.3 as per Class Requirements. SFI 38.1 or FIA Homologated head and neck device can be used and is mandatory in all vehicles exceeding 200 mph.

From January 2019 Hans type devices are recommended in all vehicles exceeding 150mph and will become mandatory in 2020.

GSR 10:9 OCCUPANTS

No more than one person is permitted in any car during any run. All occupants of push cars must be inside of car or pickup in a seated position while push car is in operation. Any time a car is started, whether in the pits, staging lanes, with self-starter, or anywhere else on the race facility, a competent driver must be in the driver's seat, unless coupler or driveline is removed. Noncompliance is grounds for disqualification.

GSR 10:10 PROTECTIVE CLOTHING

Drivers are required to have as minimum requirements protective clothing labelled as meeting the following standards as per specific Class Requirements:

3.2A/20 FC / TMFC / TF / PM

3.2A/5 or FIA Standard 8856-2000, 8856-2018 ET (7.50 – 9.99), S/Pro, Pro/Et, S/G, S/C

3.2A/1 or FIA Standard 8856-2000, 8856-2018 SST, ET (10.00 or slower)

Junior Dragster use 3.2A/1 or FIA Standard 8856-200, 8856-2018.

Exceptions as outlined below.

Supercharged front-engine open-bodied car or any car with a torque converter in the driver compartment (i.e.: one without a floor over the transmission) must have a 3.2A/15 suit or as per Class Requirements.

77

 (\bigcirc)

MOTOLICIAN MOTOLICA

All "suits" include a head sock, gloves and boots (3.2A/20 suit) or shoes (3.2A/15 suit). Suit can be one piece, or separate jacket and pants in the case of SFI approval. Jacket and pants must each be labelled as meeting SFI Spec. All gloves must have a full layer of Nomex inside the glove. Leather palm gloves without a full layer of Nomex separating leather from driver's hand prohibited. Drivers in all open bodied front engine cars with open face helmet must wear a breather style face mask and protective goggles. Drivers in all open-bodied cars must wear SFI spec 3.3 fire-resistant gloves. Drivers of any open bodied car wearing an "open face" helmet must wear "racing type" protective goggles and a dual eye port, flame retardant balaclava. If a "closed face helmet" is worn a balaclava is still required. See class Requirements.

GSR: 10:11 SEAT BELTS

All cars not required by Class Requirements to use an SFI/FIA Spec driver restraint system must be equipped with an accepted quick release-type driver seat belt. Belts must be securely fastened to the frame, crossmember or reinforced mounting so that all fittings are in a direct line with the direction of pull. Seat belts may not be wrapped around lower frame rails (or any frame rail or crossmember). Steel castings of the type recommended by FIA, or U-bolt-type mounts are accepted. If used for installation, flat steel plates must be a minimum of 1/4-inch (6.35 mm) thickness and have rounded edges to prevent cutting seat belts. Under no circumstances can belts be installed with bolts through webbing. In all cars with Fiberglas floors, a crossmember of minimum 2-inch (51 mm) x 2-inch (51 mm) x .083-inch (2.1 mm) wall thickness square tubing must be installed between frame rails for proper driver's seat belt installation.

(See 10:5 DRIVER RESTRAINT SYSTEM).

78



Car Class Regulations

JUNIOR DRAGSTER



Caitlin Wilson 2018 J/D Champion

Junior Dragster racing is restricted to competition in half-scale dragsters over a maximum distance of an eighth-mile. Competition is designed to be conducted on an E.T dial-your-own format or a pre-set index on a heads-up breakout basis. Breakout rules apply. Pairings are decided on reaction times from qualifying or by random. Drivers between 8 and 9 years are restricted to 12.90 seconds.

CLASS DESIGNATIONS

AGE REQUIREMENTS: Drivers may compete in the Motorsport UK Junior dragster racing class from the day of their 8th birthday through to 31st December in the year of their 18th birthday.

Junior Stock: 8th birthday to 31st December in the year of their 18th birthday. Dial in restricted to 11.90 based on E.T. dial your own or heads up basis; break out rules apply.

Junior Modified: 10th birthday to 31st December in the year of their 18th birthday. Dial in restricted to 8.90 based on E.T. dial your own or heads up basis; break out rules apply.

Junior Modified Advanced: 13th birthday to 31st December in the year of their 18th birthday. Dial in restricted to 7.90 based on E.T. dial your own or heads up basis; break out rules apply.

See section 7.1.7 in the RAC Motorsport UK Blue Book for Parent/Guardian Entrants Licence regulations which apply to all competitors under the age of 18.

For all Classes

In qualifying a driver has to stage and receive a reaction time to count as a qualifying run.

79

iii) motorsport uk

If a driver runs below the restricted dial in time the qualifying run will be disallowed.

A driver running quicker than 0.2 seconds under the minimum dial in E.T. for their class, at any time during an event, will receive one warning.

If the same racer runs quicker than 0.2 seconds under the minimum dial in E.T. for their class again at the same event then he or she will be excluded from the event.

A driver running quicker than 0.4 seconds under the minimum dial in E.T. for their class or exceeding 85 mph at any time during an event will be immediately excluded from that event.

The above penalties will be imposed regardless of whether the infraction(s) occur during qualifying or eliminations.

If a driver has no previous experience in Junior Dragster Racing he or she must successfully demonstrate driving proficiency prior to competition.

REQUIREMENTS AND SPECIFICATIONS

ENGINE 1: JR1

JR 1.1 CAMSHAFT

Any camshaft permitted; any size valve, but must retain stock valve guide location. Any valve spring permitted.

JR.2 Engine

All vehicles restricted to a maximum of one rear-mounted, five horsepower single-cylinder single-spark-plug flathead configured four-cycle engine from a recognised OEM, except in stock where an overhead valve configuration is also permitted.

Motorsport UK accepted aftermarket block permitted which must retain the original five horsepower engine block configuration. Porting, polishing and relieving of block, boring of cylinder, machining of deck surface permitted. After market cylinder head is permitted.

Adding material to deck surface, installing a spacer between the block and cylinder head, or any other modification designed to increase the effective deck height of the cylinder is prohibited.

Accepted after-market engines: Metro racing flathead, McGee racing flathead, Tecumseh flathead, LPW racing products monster racing block, JR race car flathead and Pure power racing flathead. All accepted after-market engines must not exceed 271.5mm (10.6875inches) from base to deck. Any measurement that exceeds that limit is prohibited.

JR 1. 3 EXHAUST

The exhaust outlet must be directed to the rear or downward, away from driver and engine. Noise limits apply for JM & JMA cars only, or JS cars using alcohol engines, the 113db limit will be enforced. A standard silencer is available from the organising club for fitment to JM and JMA dragsters.

See SR 5.5

80

 (\bigcirc)

MOTOLICIES OF AN ANDROLOGICAL MARCHARGE CONTRACTOR OF AN ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF AN ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OFTA ANTRACTOR O

JR 1.4 FUEL

Restricted to gasoline, alcohol, or gasohol. Nitrous oxide and/or propylene oxide and/or nitromethane prohibited.

JR 1.5 FUEL SYSTEM

Any naturally aspirated carburettor. Fuel injection prohibited.

Auxiliary vacuum fuel pump permitted; must be pulsed from manifold only. Pressurised fuel systems prohibited. Fuel tank must be located behind driver below the shoulder hoop of the roll cage and be securely mounted. The maximum capacity of the fuel tank or cell is 3.78 litres (1 US gallon). Fuel tank/cell must be equipped with a screw-on or positive locking cap. All vents must be routed downward and away from driver. Open hole(s) in fuel tank/cell prohibited.

JR 1.6 IGNITION SYSTEM

Battery ignition systems prohibited.

JR 1.7 OIL SYSTEM

Oil additives, with the intent of producing power prohibited.

JR 1.8 STARTER

Pull rope or remote starter mandatory. Any driver activated/ operated starting system prohibited.

JR 1.9 SUPERCHARGER, TURBOCHARGER

Prohibited.

JR 1.10 THROTTLE

All vehicles must be equipped with a positive throttle return spring, which shall close throttle when released. Throttle control must be manually operated by the driver's foot: Electronics, Pneumatics, hydraulics, or any other device may in no way affect the throttle operation. Throttle stops, other than mechanical (i.e., a positive stop under throttle pedal), are prohibited. Must be securely mounted (no tie wraps.)

JR 1.11 VENT TUBES, BREATHERS

Where used, must be securely fastened (no tie wraps). Container/catch tank must be designed to prevent spillage onto racing surface (no open-top containers).

DRIVE TRAIN: JR 2 JR 2.1 BELT/ CHAIN GUARDS

All cars must be equipped with a guard to cover the width and at least the top run to the forward and trailing centre line of the sprockets of any belts or chains. Plastic belt guard permitted. Chain guards must be minimum 1.5mm (.060inch) steel or 2.2mm (.090inch) aluminium. Must be securely mounted (no tie wraps). Moving engine/drive train parts must be protected by frame rails or guards.

81

()

MOTOLICIAN MOTOLICA

JR 2.2 CLUTCH

A maximum of one dry centrifugal-type engine clutch allowed. Chain or belt drive only. Axle clutches prohibited. Clutch cover guard that provides 180-degree coverage over the top of the clutch made of 2.2mm(.090inch) 2024T3, 6061T6 or 7075T6 aluminium or

1.5mm (.060inch) steel is required.

JR 2.3 FLYWHEEL

After market billet flywheel or Motorsport UK accepted aftermarket flywheel shield mandatory, unless original stock carburettor is used, when either an aftermarket billet or stock steel flywheel is allowed. Cast aluminium flywheel prohibited. Keyway modifications permitted. Lightening or modifications to stock flywheel prohibited.

JR 2.4 TRANSMISSION

Gear-type prohibited. Torque converter belt assembly units permitted.

BRAKES AND SUSPENSION JR 3

JR 3.1 BRAKES

Two rear wheel hydraulic drum or disc brakes, or Motorsport UKaccepted mechanical brakes are mandatory. Hydraulic brake lines must be steel or steel braided. High-pressure brake hose must be used with steel line for vibration connections. Front brakes permitted, but only in conjunction with rear brakes. Live axle may have brakes on one wheel only if 175mm (7-inch) minimum go kart puck-type disc brake is used. Use of drive sprocket as a brake rotor is prohibited. Drilling of brake components is prohibited. Steel disc brake rotors are required and must be a minimum of 175mm (7inch) diameter with a 6.4mm (1/4-inch) thickness minimum; Dual steel brake rotors, 150mm (6-inch) diameter with a 5mm (3/16inch) minimum thickness or aluminium brake rotor, 280mm (11inch) diameter with a 6.4mm (1/4inch) minimum thickness. Linelocks prohibited. Hand brake permitted, but must be directly coupled to foot brake. Hand brake cannot be independent of, or in lieu of foot brake. Application and release of brakes must be a direct function of the driver, electronics, pneumatics, or any other device may in no way affect or assist brake operation.

JR 3.2 SUSPENSION

Suspension permitted; maximum upward suspension travel 50mm (2-inches).

JR 3.3 STEERING

Set screw steering shaft couplers/attachments prohibited. All components must have positive "through" bolt connections; no roll or pressed pins, no ball-lock pins, set screws, etc. All rod ends must be installed with flat washers to prevent bearing pull-out. Flexible steering shaft prohibited. Minimum spindle diameter 12.7mm (1/2-inch) Cars running 8.89 to 7.90 must have rack and pinion steering only.

82

 (\bigcirc)

MOTOLICIAN MOTOLICA

JR 3.4 WHEELIE BARS

Permitted. Using wheelie bar wheels as a "fifth-wheel" sensing device prohibited.

FRAME: JR 4

JR 4.1 ALIGNMENT

Each car in competition must have sufficient positive front- end castor to ensure proper handling of car at all speeds.

JR 4.2 BALLAST

Maximum amount of removal ballast 11.3kg (25pounds). Maximum amount of total ballast (removable plus permanent ballast) is 45.4 kg (100 pounds). Removable ballast must be secured to frame with minimum one 10 mm(3/8-inch) diameter bolt per 2.3 kg (5 pound) weight, or two 10 mm (3/8 inch) bolts for weights of 4.5-11.3kg(10-25 pounds) hose clamps, wire, strapping, tape, tie wraps, etc. prohibited. If additional ballast is needed, it must be permanently attached to frame, bolted with minimum one 10mm (3/8 inch) diameter bolt per 2.3 kg (5 pound) weight, or two 10mm (3/8 inch) diameter bolt per 2.3 kg (5 pound) weight, or two 10mm (3/8 inch) diameter bolt per 2.3 kg (5 pound) weight, or two 10mm (3/8 inch) bolts for weights of 4.5-11.3 kg (10-25 pounds) with nuts welded to bolts. Ballast must be in the form of metal plates, bars, straps, etc., attached as described above. A steel pipe filled with shot may be substituted; this must have screw-on, sealed cap(s). Ballast prohibited in cockpit. Disguised ballast prohibited. No part of ballast may be installed higher than top of rear tires.

JR 4.3 DEFLECTOR PLATE

A deflector plate of minimum 1.5mm(1/16 inch) aluminium must be installed between roll cage and engine extending from lower frame rail to the top of driver's helmet. Portion between shoulder hoop and top of helmet must be minimum 176mm (7 inches) wide, may be narrowed or rounder above the helmet. Two- piece plate permitted with no air gap between the two. Carbon fibre prohibited.

JR 4.4 GROUND CLEARANCE

Minimum 76mm (3 inches) from front of car to 300.5mm (12 inches) behind centreline of front axle, 51mm (2inches) for remainder of car.

JR 4.5 MOUNTING HARDWARE

Hose clamps and tie wraps may be used only to support hoses and wires; all other components must be welded, bolted, aircraft clamped, etc. All self- locking fasteners must be metallic.

JR 4.6 ROLL CAGE

Construction must conform to standard dragster configuration as outlined in illustration with minimum 5-point roll cage mandatory. It is mandatory that the Roll Cage is Inspected for conformity and that a Numbered Label is applied to the upper chassis tube. The vehicle will then be included in the SPRC Chassis Database.

When the driver is in the driving position, the roll cage must be at least 76 mm (3 inches) in front of helmet. Helmet bars (3/4-inch OD x .058-inch chrome moly 4130, Docol R8 tubing or 3/4-inch x

83

.083- inch mild steel, or 1/2-inch x .090-inch flat strap) are required between the secondary upper roll cage hoop and the upper roll cage rear braces on each side of the car. If the centre-to-centre distance between the upper roll cage rear braces exceeds 6 inches, then an additional helmet bar is required between the back braces.

Roll cage hoops, upper frame rails, and lower frame rails must be minimum 28.5mm (1.125 inch) diameter by 2mm (.083 inch) wall thickness round mild steel tubing. Uprights must be minimum 22 mm (0.875 inch) by 2 mm (.083-inch) Diagonals must be minimum 19 mm (0.750 inch) by 2 mm (.083 inch) Within the driver compartment (from foot box to back seat), the maximum distance between uprights is 508 mm (20 inches) Foot box must incorporate a minimum 19 mm (0.750 inch) by 2mm (.083 inch) diagonal. Note 1.5mm (.058-inch) chrome moly 4130, Docol R8 may be used in place of 2 mm (.083 inch) mild steel. Chrome moly 4130 or Docol R8 mandatory on any car running between 8.889 and 7.90 Roll cage must be padded wherever it may come in contact with driver's helmet. Adequate padding should provide approximately 6 mm (1/4 inch) compression, Weather Strip prohibited. All cage structures must be designed in an attempt to protect the driver from any angle, 360 degrees. All chrome moly 4130 or Docol R8 welding must be done by approved

TIG Heliarc process; mild steel welding must be approved MIG wire feed or TIG Heliarc process. Welding must be free of slag and porosity. Any grinding of welds prohibited

JR 4.7 WEIGHT

Minimum weight (without driver or driver apparel/equipment) is 102 kg (225 pounds)

JR 4.8 WHEELBASE

Minimum 2286 mm (90 inches), Maximum 3810mm (150 inches) Maximum wheelbase variation from left to right, 51mm (2 inches).

TYRES AND WHEELS JR 5 JR 5.1 TYRES

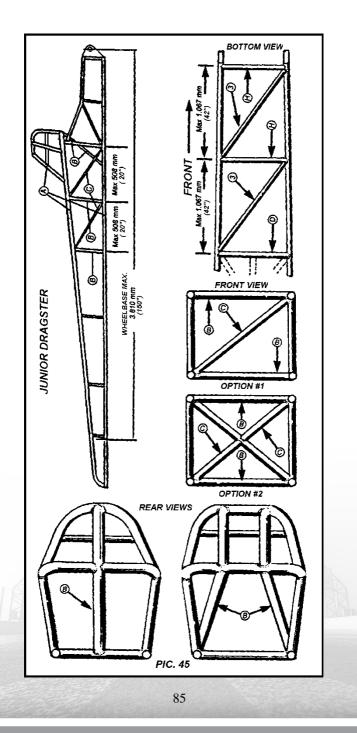
Rear tyres minimum 457mm (18inch) diameter by 190mm (7.50 inches) wide, as noted by size designation on sidewall of tire or by physical measurement at widest or tallest point. All front tyres must have manufacturer's ratings. All tyres must be pneumatic; no solid tyres. Tyres will be visually checked for condition, pressure, etc, and must be considered free of defects by the Scrutineer prior to any run.

JR 5.2 WHEELS

Front wheels minimum 127mm(5 inches) diameter; minimum spindle diameter 12.7mm(1/2 inch) Spindle nut must utilise a split pin or be of the Nyloc type. Wire spoke wheels must utilise 2.54mm (.100 inch) minimum diameter steel spokes. Rear wheels minimum 203mm (8inch) diameter. Modifications to any wheel prohibited. The use of "spinner" style wheels or any designs that incorporate movable pieces while the vehicle is in motion are prohibited.

(C)]

MOTOLICIAN MOTOLICA





INTERIOR JR6 JR 6.1 FOOT- BOX BULKHEAD

All cars must be equipped with a bulkhead in front of the driver's feet, minimum 0.6mm (.024inch) steel or 0.8mm (0.32inch) aluminium. Bulkhead must be directly in front or directly behind foot box diagonal.

JR 6.2 SEAT

Properly braced, framed and supported seat constructed of aluminium or fibreglass mandatory.

JR 6.3 SHEET METAL

Driver compartment interior must be aluminium, steel, fibreglass or carbon fibre. Magnesium prohibited.

JR 6.4 UPHOLSTERY

Optional.

BODY JR 7

JR 7.1 AIR FOILS, WINGS

A positive locking device to prevent movement is mandatory. No part may come in contact with tire or wheel at any time. Springloaded spoilers, wing or canards prohibited. Adjustment of air foils, wings or spoilers during run prohibited. Ball lock pins prohibited.

JR 7.2 BODY

Body and cowl must be constructed of aluminium, fibreglass or carbon fibre and extend forward to foot- box bulkhead. Driver compartment, frame structure, roll cage and body must be designed to prevent driver's body or limbs from making contact with wheels, tires, exhaust system or track surface. Body may not cover top of engine, wheels or tires. Front overhang not to exceed 380mm (15inches) measured from centreline of front spindle to forward most point of car. Body must be of accepted dragster style/ design but for 2011 a junior funny car class will be established (see JR 7.2.1) Only OEM Style mirrors, mounted in the conventional fashion permitted. Cover or canopy over cockpit prohibited.

JR 7.2.1 JUNIOR FUNNY CAR

Funny cars bodies are acceptable provided the design has been approved by the Technical Committee prior to competition. Junior Dragster construction regulations will apply. Twin cylinder engines allowed. Maximum front overhang 25", minimum height (roof) 35", Maximum height (roof) 40", Minimum roof hatch opening 15"x 10".

JR 7.3 COMPETITION NUMBERS

Each car in competition must display the driver's permanent number. They must be a minimum size 100mm (4inches). Driver's competition number and class designation must be displayed in a legible manner in a contrasting colour to the vehicle's background colour, or light colour on windows, in a prominent position and be clearly visible to the tower personnel.

86

 (\bigcirc)

MOTOLIS DOLLANG

JR 7.4 FLOOR

Full floor, mounted on top of lower frame rail cross braces, extending from the driver's seat forward to 150mm(6 inches) past pedals, mandatory.

JR 7.5 WIND DEFLECTOR

All cars must be equipped with a wind screen or deflector to direct foreign matter over the drivers head.

JR 7.6 WINGS

Wings must be bolted to frame structure. Pit pin attachment prohibited.

ELECTRICAL JR 8 JR 8.1 BATTERIES

Dry cell batteries only permitted. Maximum total weight allowed is 2.3kg (5 pounds). They must be securely mounted outside the driver's compartment.

JR 8.2 BUTTONS/SWITCHES

Entrants will be allowed to use a total of two buttons in the cockpit. One of these switches/ buttons is for the master cut-off, which cannot be momentary; the second is available for anything other than a momentary cut-off. A mechanical kill switch operated from the cockpit is allowed.

JR 8.3 DELAY BOXES/ DEVICES

These are prohibited.

JR 8.4 IGNITION SHUTOFF

A positive shutoff, located within easy reach of driver, mandatory. Shutoff switches must be positive action (no "momentary contact" switches) and must be clearly labelled "on" and "off". A second shutoff switch, located on the deflector plate 76mm(3 inches) or less from the top of the roll cage, within easy reach of crew member or race official mandatory. Second shutoff switch may not come in to contact with driver. All connections must use eyelet and screw type connections. Push on type connectors prohibited. A wire tie, minimum 150mm (6 Inches) long must be attached to the spark plug wire within 25mm (1 inch) of the spark plug.

SUPPORT GROUP JR9 JR 9.1 COMPUTERS

Prohibited. A computer is defined as any device (electrical) mechanical, pneumatic, hydraulic, etc.) that activates any function of or in any way affects the operation of the vehicle based on measurement sensing processing etc, of any data related to the performance of the vehicle. Display or transmission of any data gathered or processed, to the driver or any remote location is prohibited.

87

ແດງ

MOTOLICIES OF AN ANDROLOGICAL MARCHARGE CONTRACTOR OF AN ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF AN ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OFTA ANTRACTOR O

JR 9.2 DATA RECORDERS

A data recorder may be used to record engine rpm, engine temperature, exhaust temperature and jack-shaft sensor data, may not activate or initiate any function of the vehicle. Data recorder may not be activated by the throttle, brake or other mechanisms or by the Christmas tree radio transmitter sensing of wheel speed, inertia, laser devise or transmission of track position. They must be activated by separate switch. Transmission or display of data gathered or processed by data recorder to the driver (during the run) or any remote location is prohibited. Data may be reviewed after the run.

Discovery of a device that displays or transmits `` on track`` or ``track location``- type data will be grounds for immediate disqualification from event, loss of all points for the season , and suspension from all junior dragster racing events for remainder of season. Additional penalties may be imposed at the discretion of SPRC.

JR 9.3 GAUGES

Tachometer, engine- temperature and cylinder-head-temperature gauge permitted. Playback type gauge(s) permitted. Download capabilities classify unit as a data recorder and it must be relocated outside driver compartment (see also Data recorders) Analogue or digital display permitted. Gauges (display) may not be mounted on steering wheel.

JR 9.4 ELECTRONIC CONTROLS

Prohibited. Electronic controls may in no way affect any functions (i.e. line-locks, clutch, throttle, brakes, etc) All controls must be a function of the driver.

JR 9.4.1 REV LIMITERS

Prohibited. The use of these devices as a down-track rpm (speed) controller is prohibited. See GSR: 8.3.

JR 9.5 LIFTING DEVICES

Any form of mechanical, hydraulic, or other leverage-type device for raising a car's driving wheels off the starting-line surface is prohibited.

JR 9.6 STAGING AID/DEVICES

Mechanical, hydraulic, electric, pneumatic and similar devices to aid staging vehicle prohibited. Shutoff switches must be positive action (No momentary contact switches) and must be clearly labelled "on" and "off".

JR 9.7 TOWING

Anytime a junior dragster is being towed, the driver must be seated in the cockpit. No passengers. No full-size tow vehicles permitted. A fluorescent or brightly coloured flag attached to junior dragster anytime vehicle is towed, mandatory. Minimum height above ground when attached 1.5m (5 feet). A junior dragster may not be

88



pushed by a motorised vehicle. Tow strap may not be attached to any portion of the roll cage.

JR 9.8 TWO - WAY RADIOS

Prohibited. Any communication to and/ or from the driver or any telemetry signals between driver/vehicle and/or any remote location prohibited. Use of two - way communication by driver and/or any crew member to any remote location prohibited . Use of headset or handheld radios by crew members in the starting up line area is prohibited.

JR 9.9 WARM - UPS

Vehicle must be off ground and have a qualified junior dragster racing driver seated in the cockpit any time the engine is running.

DRIVER JR 10 JR 10.1 AGE REQUIREMENTS

The minimum age is 8 years. Drivers 8 and 9 years old are restricted to 11.90 or slower E.T. Drivers 10-12 years restricted to 8.90 or slower E.T. Drivers 13-18 years old whose cars meet advanced class criteria restricted to 7.90 or slower E.T. and 85 mph or slower. Drivers 13-18 years old whose cars do **NOT** meet advanced class criteria restricted to 8.90 or slower E.T.

JR 10.2 APPAREL

Each member of a participant crew must be fully attired when present in the staging, starting and the competition areas of the racetrack. Shoes are mandatory.

JR 10.3 APPEARANCE

Vehicles participating in drag racing events must be presentable in appearance at all times; those considered improperly prepared may be rejected by the technical inspector. The appearance of the personnel attending contestant vehicles is equally important and is subject to the same considerations.

JR 10.4 ARM RESTRAINTS

Mandatory. Must be worn and adjusted in such a manner that driver's hands and/ or arms cannot be extended outside of roll cage and/or frame rails. Arm restraints shall be combined with the driver restraint system such that the arm restraints are released with the driver restraints. Refer to manufacturer for instructions.

JR 10.5 CREDENTIALS

Motorsport UK competition licence mandatory when taking part in competition.

89

((C)))

MOTOLIS DOLLANG





Championship Winning Race Cars

Dragster Chassis Door slammer Chassis Sportsman 4 Link Kits Axle Narrowing Diff Set Ups Custom Roll Cages Performance Plumbing 4130 Tubing Stockists

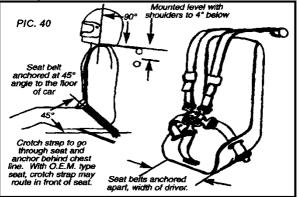




Contraction motorsport uk

JR 10.6 DRIVER RESTRAINT SYSTEM

A 5-point 45 mm (1.75inch) wide driver restraint is mandatory. All restraints must be supplied with a makers label showing the Date of Manufacture. This will be checked by the Scrutineers and be valid for 5 Years. All seat- belt and shoulder-harness installations must be mutually compatible and originally designed to be used with each other. For harness installation, see the maker's instructions. Only units that release all five attachment points in one motion are permitted. When arm restraints are worn with a restraint system that uses a "latch lever" a protective cover must be installed to prevent arm restraint from accidentally releasing the latch lever. Protective cover not required if system uses "duck-bill" latch hardware. All harness sections must be mounted to the frame, cross member or a reinforced mounting and installed to limit driver's body travel both upward and forward. Wrapping of belts around lower frame rail prohibited. Under no circumstances are bolts inserted through webbing permitted for mounting.



JR 10.7 HELMET

Mandatory. Either a full face helmet shield or goggles mandatory. See Motorsport UK Competitors year book (Blue book) 8 to 11 year old Drivers in Junior Stock are permitted to wear a Snell Kart CMR Helmet with a mandatory Fireproof Balaclava.

JR10.8 NECK COLLAR

Mandatory: Must be a commercially produced neck collar designed for racing. Two different types of collars are available, a full 360degree "donut" type or a pull- together "horseshoe" type. Modification according to manufacturer's recommendations, to fit helmet and driver's neck/shoulder spacing permitted. They must be worn as per manufacturer's recommendations.

JR 10.9 PROTECTIVE CLOTHING

All drivers are required to wear a jacket and full length pants meeting SFI Spec 3.2A/1, or FIA Standard 8856-2000, 8856-2018 Overalls, shoes, socks and gloves. Nylon or nylon type clothing and open toe shoes prohibited. Shorts, bare legs, tank tops or bare torsos prohibited.

91

 (\bigcirc)

MOTOLIS DOLL OK

ET BRACKET RACING. STOCK-BODY VEHICLES. ALTERED-BODY VEHICLES. FUNNY CARS AND DRAGSTERS.



Felicity Gibbs 2018 Sportsman ET Champion

Each race track has the option of substituting its own selection of class titles, time limits and competition style. All cars must be checked and comply with safety rules for the time it is running. If a car is running quicker than what it is inspected for it must return to tech, to be checked for the quicker safety category. Since quartermile (402.336m) elapsed times would not apply for eighth-mile (201.168m) racing, a style of competition not uncommon to E.T. Handicap Racing, some pertinent quarter-mile elapsed times are converted to eighth-mile (201.168m) figures: 9.90 = *6.30; 10.00 = *6.40; 11.00 = *7.00; 12.00 = *7.50; and 14.00 = *8.60.

NOTE: Asterisk (*) indicates eighth-mile (201.168m) equivalent.

Timed vehicle control devices (counters, time displays, etc.) except as outlined under Class Requirements, are prohibited. The display or transmission of track location, time/distance data, etc. is prohibited. Data recorders (except for "playback" type tachometers) are prohibited in all ET Brackets. Computers (except for OEM) are prohibited in all ET Brackets.

ET CARS

DESIGNATIONS Four safety categories.

ET I	6.00 to 7.49 (*3.66-4.49)
ETII	7.50 to 11.99 (*4.50-7.49)
ETIII	12.00 to 13.99 (*7.50-8.59)
ET IV	14.00 or slower (*8.60 and slower)
For Starting nu	mbers: See GSR: 7.3

Please note these four safety categories are used to decide the level of safety construction rules.

92

iii) motorsport uk

For the 2019 Championships the racing categories in ET Brackets are: Super Pro ET 6.00-8.99, Pro ET 9.00-11.99 and Sportsman ET 12.00 or slower.

Electric OEM cars are allowed but Motorsport UK eligibility rules apply, apply to organisers for details.

REQUIREMENTS AND SPECIFICATIONS ENGINE: ET 1 ET 1.1 ENGINE

One internal-combustion reciprocating automotive-type or one motorcycle engine permitted. Motorcycle powered vehicles without reverse may not burnout across starting line. The use of a cast iron harmonic balancer is prohibited in any car running 10.99 (*6.99) or quicker; units meeting SFI Spec 18.1, or steel billet harmonic balancer made in one piece mandatory. On all ET cars running 7.49 (*4.49) or quicker; units meeting SFI Spec. 18.1 mandatory. **See GSR: 1.2.** All supercharged, turbocharged and Nitrous oxide ET cars running 7.49 (*4.49) or quicker must be equipped with lower engine ballistic restraint with absorbent lining meeting SFI Spec. 7.2. It is recommended that all vehicles are fitted with a diaper or under tray. If restraint is not 51mm (2 inches) above the ground a shield securely attached to the bottom frame rails must be used.

ET 1.2 EXHAUST SYSTEM

Competition exhaust permitted. Exhaust must be directed out of car to rear, away from driver and fuel tank. On supercharged cars with full-body, burning methanol double pipe or thermal wrapped insulated headers mandatory: insulation must extend to start of bend in headers at bottom of body. Noise limits are in force for Sportsman ET, VW Sportsman ET, and Pro ET. See SR 5.5 and GSR: 1.3.

ET 1.3 FUEL

Gasoline/petrol, methanol, ethanol and diesel accepted. Nitrous Oxide in accordance with *GSR: 1.9* permitted. *See GSR: 1.6, 1.6.1, 1.8, 1.9 and 1.11.*

ET 1.3a NITROMETHANE

Permitted in Super Pro; These Rules apply: Supercharged or Injected engines only. Maximum nitro percentage is 90%. Roots Superchargers limited up to 8/71, no High Helix. SFI spec 23.1 Pressure Relief Assembly mandatory. Supercharger Restraints SFI Spec 14.2 mandatory. Parachute Shrouds and Packs to have flameproof covering. Driver Restraint to be flameproof covered. Driver Suits Gloves & Boots to be SFI Spec 3.2A/20. SFI Spec 3.3/10 Helmet Skirt is required. Closed cars must have a SFI Spec 17.1 Fire Suppression System fitted, also a Fresh Air Breathing System. See also GSR 1.6.2

93

 (\bigcirc)

MOTOLICIES OF AN ANDROLOGICAL MARCHARGE CONTRACTOR OF AN ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF AN ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OFTA ANTRACTOR O

ET 1.4 FUEL SYSTEM

All fuel tank filler necks located inside trunk must have filler neck vented to outside of body. Vented caps prohibited. All batteries, fuel lines, fuel pumps or filler necks located inside trunk require complete bulkhead of at least .024-inch (.6mm) steel or .032 (.8mm) aluminium to isolate driver compartment from trunk. Fuel lines must be located outside driver compartment. Fuel tanks not to be higher than top of rear tires. **See GSR: 1.5. And 1.5.1**

ET 1.5 LIQUID OVERFLOW

Catch-can mandatory for coolant overflow; 0.5 litre (one pint) minimum capacity. See GSR: 1.7.

ET 1.6 NITROUS OXIDE

Commercially available nitrous oxide permitted, including supercharged and turbocharged engines. Nitrous bottles in the driver's compartment must be equipped with a relief valve and vented outside of the driver's compartment. Bottles must be permanently mounted (no hose clamps or tie wraps). Hoses from bottle(s) to the solenoid must be high-pressure steel braided hoses. External heating of the bottle(s), other than with the use of an approved electric blanket, is prohibited. **See GSR 1.9 and 9.7.**

ET 1.7 SUPERCHARGER, TURBOCHARGER

Permitted on Methanol, petrol, racing-gas, diesel. See GSR: 1.12, 1.13, 2.13 and 4.8.

ET 1.8 VALVE COVERS

Cast or fabricated metal valve covers, using all attachment bolt holes, mandatory on supercharged methanol burning cars.

ET 1.14 THROTTLE

Throttle stops are allowed.

DRIVE TRAIN: ET 2 ET 2.1 CLUTCH, FLYWHEEL, FLYWHEEL SHIELD

Flywheel and clutch meeting SFI Spec 1.1, 1.2, 1.3 or 1.4 and flywheel shield meeting SFI Spec 6.1, 6.2 or 6.3 mandatory in all cars running 7.49 (* 4.49) or quicker. Flywheel shield meeting SFI Spec 6.2 or 6.3 mandatory in all supercharged or turbocharged cars and all cars using nitrous oxide running 7.49 (* 4.49) or quicker. Flywheel shield meeting SFI Spec 6.2 or 6.3 mandatory on all cars running 7.49 (* 4.49) or quicker using SFI Spec 1.2 clutch with more than 2 discs or SFI Spec 1.3, 1.4 or 1.5 clutches with two discs maximum. Flywheel shield meeting SFI Spec 6.2 mandatory on all cars running 7.49 (* 4.49) or quicker using SFI 1.3 or 1.4 clutches with more than two discs. Flywheel and clutch meeting SFI Spec 1.1 or 1.2 (2-disc maximum) and flywheel shield meeting minimum SFI Spec 6.1, 6.2 or 6.3 mandatory in all car running 9.99 (*6.39) to 7.50 (*4.50). Cars running 11.99 (*7.49) to 10.00 (*6.40) or cars with rotary engines must be equipped with a flywheel shield made of 6.35 mm (1/4-inch) minimum thickness

94

 (\bigcirc)

MOTOLESOOLT OK

steel plate surrounding the bell housing 360 degrees or a flywheel shield meeting SFI Spec 6.1,6.2 or 6.3. *See GSR: 2.3, 2.5, 2.6 and 2. 10*

ET 2.2 DRIVELINE

OEM production line all-wheel-drive vehicles permitted. Drive shaft loop required on all cars running 13.99 (*8.59) or quicker (except vehicles running 12.00 (*7.50) or slower equipped with street tyres.) **See GSR: 2.4**

ET 2.3 REAREND

After market axles and axle-retention device mandatory on any car running 10.99 (*6.99) or quicker and any car with locked differential. Cars running 10.99 (*6.99) or quicker that weigh more than 2,000 pounds (907 kg) and have independent rear suspension without upper and lower (both) control arms must replace swing axle rear end with conventional rear end housing (example 1963 through 1982 Corvette.) Cars with independent rear suspension using upper and lower (both) control arms may retain swing axle assembly, regardless of weight must have 360 degree, minimum 1-inch wide by 1/4-inch thick axle retention loop on each axle. Alterations to cross members permitted when independent rear suspension is replaced. For supercharged methanol burning ET cars running quicker than 7.49 (*4.49), and all cars quicker than 6.50 seconds or exceeding 210 mph, an aftermarket full-floating or live axle assembly is mandatory. See GSR 2.2 and 2.11.

ET 2.4 TRANSMISSION, Automatic

Spring-loaded, positive reverse lockout device and functional neutral switch mandatory. A transmission shield meeting SFI Spec 4.1 mandatory on any car running 10.99 (*6.99) or quicker or any car exceeding 135 mph (217km/h). Automatic transmission flex plate meeting SFI Spec 29.1 and flex plate shield meeting SFI Spec 30.1 mandatory on cars running 9.99 (*6.39) or quicker or any car exceeding 135 mph (217 km/h). **See GSR: 2.14**.

ET 2.5 TRANSMISSION, After Market Planetary

Transmission shield meeting SFI Spec 4.1 mandatory on any supercharged vehicle. See GSR: 2.13

BRAKES & SUSPENSION: ET 3 ET 3.1 BRAKES

Four-wheel hydraulic brakes mandatory on any full bodied car running 7.99 (*4.99) or quicker. Minimum two rear-wheel (one calliper per wheel) hydraulic brakes mandatory on Dragsters, Funny Cars, and any car running slower than 7.99 (*4.99) seconds. Dragsters running slower than 10.99 (*6.99) with a total car weight of 1,000 pounds (454 kg) or less and a one piece rear axle may use a single brake rotor with dual callipers. Hand brake, if used must be located inside of body or drivers compartment **See GSR: 3.1.**

 \mathbb{O}

MOTOLESOOLT OK

ET 3.2 STEERING

See GSR: 3.3 and 4.1.

ET 3.3 SUSPENSION, Altereds, Dragsters

Full automotive-type front suspension mandatory. Rigid mounted rear axles permitted. Minimum one hydraulic shock absorber per sprung wheel. Suspension optional on cars weighing 2,350 pounds (1066 kg) or less with 120-inch (3.05m) or more wheelbase. **See GSR: 3.2, 3.4 and 3.5.**

ET 3.4 SUSPENSION, Stock-bodied cars

Full automotive-type suspension mandatory. Minimum one operating hydraulic shock absorber per wheel. Lightening of stock components prohibited. Rigid mounted suspensions prohibited. See GSR: 3.2, 3.4, and 3.5.

ET 3.5 WHEELIE BARS

Permitted, wheels must be non-metallic. See GSR: 3.6.

FRAME: ET 4

ET 4.1 BALLAST Permitted. See GSR: 4.2.

ET 4.2 DEFLECTOR PLATE

Mandatory on rear-engine Dragsters. See GSR: 1.1 and 4.3.

ET 4.3 GROUND CLEARANCE

Minimum 3 inches (76mm) from front of car to 12inches (305mm) behind centreline of front axle, 2inches (51mm) for remainder of car, except oil pan and exhaust headers. **See GSR: 4.5.**

ET 4.4 PARACHUTE

Mandatory on any car with top speed in excess of 240 km/h (149 mph). See GSR: 4.8.

ET 4.5 ROLL BAR

Roll bar mandatory in all cars running 10.00 (*6.40) to 11.99 (*7.49) and in convertibles running 11.00 (*7.00) to 13.99 (*8.59). Permitted in all cars. *See GSR: 4.4, 4.10, 4.10.1, 4.10.2 and 10.7.* **ET 4.6 ROLL CAGE**

Roll cage mandatory in cars running 10.00 (*6.40) or quicker, or any car exceeding 135 mph (217.2 km/h), and in convertibles running 10.99 (*6.99) or quicker. Exception: Full bodied cars, with unaltered firewall, floor and body (from firewall rearward, wheel tubs permitted), running between 10.00 (*6.40) and 10.99 (*6.99) roll bar permitted. Cars running between 6.00 (*3.66) and 9.99 (*6.39) must have chassis inspected every three-years by the ASN and have a serialised sticker affixed to frame before participation. Must conform to specs for body style used, as listed in *GSR. See GSR: 4.4, 4.11, 4.11.2, and 10.7*.

 (\Box)

MOTOLISCOLL

ET 4.6.1 ROLL CAGE ET Cars

Cars running 8.49 (*5.09) - 7.50 (*4.50)

Door slammer spec:

SFI 25.4B Full Tube Chassis M/S or Chrome Moly 4130 or Docol R8 (3600lbs) Max.

SFI 25.5C Full Bodied car Stock or Modified/OEM Floor pan and firewall with OEM Frame or Unibody construction.(3600lbs) Max. SFI Spec 25.6 Full bodied car/truck Stock or Modified OEM floorpan and firewall with OEM Frame or Unibody construction. 7.99 to 8.49 (5000lbs) Max.

Funny Car and Altered Spec: SFI 10.3 Rear Engine Dragster: SFI 2.7C Front Engine Dragster: SFI 2.6A Side Steer Roadster: SFI 10.4

Cars running 7.49 (*4.49) or quicker

Full Bodied car chassis must meet SFI Spec 25.1G, 25.2B, 25.3B. Funny Car chassis must meet SFI Spec. 10.1E, 10.2.

Rear-engine Dragster chassis must meet SFI Spec. 2.5C.

Front-engine dragster chassis must meet SFI Spec 2.2C or 2.4C. Chassis must be inspected every three-years by ASN and have a serialised sticker affixed to cage before participation.

ET 4.7 WHEELBASE

Minimum 2286mm (90-inches), unless car has original engine in original location and is shorter in original. Maximum wheelbase variation from left to right: 25.4mm (1-inch). Dragsters: 51mm (2-inches). Minimum front tread width: 660mm (26-inches) on any Dragster.

TYRES & WHEELS: ET 5

ET 5.1 TYRES

Racing slicks permitted. Minimum diameter of 13-inches on front tyres of any Dragster. See GSR: 5.1

ET 5.2 WHEELS

Must be automotive-type wheels suitable for street use. Minimum wheel size: 13-inches (330mm) (unless originally equipped with smaller wheels and vehicle is equipped with original engine). Wheel studs must be threaded into hex portion of lug nut a distance at least equal to the diameter of the stud. Automotive-type wire wheels or motorcycle wheels acceptable on front axle only of Dragsters weighing 816 kg (1,800 lbs.) or less. See GSR: 5.2.

INTERIOR: ET 6

ET 6.1 SEATS

Properly braced, framed and supported seats constructed of aluminium, composite material, double layer poly, fibreglass or carbon fibre (automotive accessory seats) permitted. *See GSR: 6.2.*

ET 6.2 SHEET METAL

97

((C)))

motorsport UK

Driver compartment interior must be aluminium, steel or fibreglass. Magnesium prohibited. *See GSR: 6.1. And 7.5*

ET 6.3 UPHOLSTERY

Optional.

ET 6.4 WINDOW NET

Mandatory in any full-bodied car required by the rules to have a roll cage, or in cars running 9.99 (*6.39) or quicker, or any car exceeding 135 mph (217 km/h) and in convertibles running 10.99 (*6.99) or quicker. **See GSR: 6.3.**

BODY: ET 7

ET 7.1 AIRFOIL, Altereds, Dragsters

A positive-locking device mandatory on all airfoils. Side-mount canard-type wings permitted. No part of wing may be within 6-inches (152mm) of a tire. Front overhang not to project more than 30-inches (762mm) forward of front spindle. Movement of any air foils/wings during run prohibited.

See GSR: 7.2.

ET 7.2 AIR Foils, Full-bodied Cars.

Non OEM aerofoils or wings permitted on stock bodied vehicles, must be permanently attached to frame or roll cage. Nonadjustable during run. See GSR: 7.2.

ET 7.3 BODY, Altered-body vehicles

May be chopped, channelled, sectioned, streamlined, etc. Sedan delivery, 1-ton max trucks or sedan pickups (Ranchero, El Camino) permitted. Fibreglass bodies permitted. Door hinges on any lift-off door must have safety pins or locks.

ET 7.4 BODY, Dragsters

Body and cowl must be constructed of metal, fibre or composite material and extend forward to firewall. Driver compartment must be designed to prevent driver's body or limbs from making contact with wheels, tyres, exhaust system or track surface if an incident should occur. Sub-flooring inside, but independent of car body, is mandatory in Dragsters which allow driver's legs to rest on belly pan or chassis. On front-engine cars, intake scoop may not extend more than 11-inches (279 mm) above height of carburettor top. Front wheel fairings prohibited.

ET 7.5 BODY, Stock-bodied vehicles

Must have full top and windshield. All full-bodied cars must have two driver exits. Four stock production fenders mandatory, fibreglass duplicates permitted. Fenders may be trimmed for tire clearance, altered fenders must have edges re-rolled or beaded.

ET 7.6 FIREWALL Mandatory. See GSR: 1.1, 4.3, 6.1, and 7.5.

98

 (\bigcirc)

MOTOLICIES OF AN ANDROLOGICAL MARCHARGE CONTRACTOR OF AN ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF AN ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OFTA ANTRACTOR O

ET 7.7 FLOOR

Mandatory. See GSR: 6.1 and 7.6.

ET 7.8 HOOD

Optional. Carburettors must be covered by flash shield or scoop. Hood scoop may not extend more than 11-inches (279 mm) above height of hood surface. *See GSR: 1.4 and 7.7.*

ET 7.9 WINDSHIELD, WINDOWS,

Altereds, Dragsters

Optional. Windscreen mandatory. See GSR: 7.8.

ET 7. 10 WINDSHIELD, WINDOWS, Stock-bodied vehicles

Mandatory must be in good condition and free from cracks. May be replaced with shatterproof material, 1/8-inch (3.2 mm) minimum thickness. Windshield may not be cut for scoops, carb, etc. Windshield/window tint must meet the applicable government requirements. Windows must be closed during races, need not be operable. Identification decals permitted on rear quarter windows, rear window, and upper corner passenger side front windscreen. **See GSR: 7.8 and 7.9**.

ELECTRICAL: ET 8

ET 8.1 BATTERY

Batteries must be securely mounted, may not be located in driver compartment. See GSR: 8.1.

ET 8.2 DELAY BOX/ DEVICE

Delay boxes are prohibited. Any vehicle also used for competition in a class where they are allowed must have them removed before entering ET competition. **See GSR: 8.2.**

ET 8.3 IGNITION

Timed ignition interruption devices (stutter boxes) prohibited. Starting line and/or "high side" rev limiters permitted. Two-Steps, Rev Limiters or any other rpm limiting devices are legal unto themselves. **However use of these devices as a down-track rpm (speed) controller is prohibited.** See GSR: 8.3.

ET 8.4 MASTER CUT-OFF

Mandatory on any car with a battery running 9.99 (*6.39) or quicker, or any car exceeding 135 mph (217.2 km/h) or on any car where the battery is relocated into the trunk area. See GSR: 8.4.

ET 8.5 TAIL LIGHTS

Must have one functional tail light for night operations. Flashing, blinking or strobe lights prohibited. *See GSR: 8.6.*

99

ແດງ

MOTOLIS DOLLAN

SUPPORT GROUP: ET 9

ET 9.1 COMPUTER

Prohibited. See GSR: 9.1.

ET 9.1.1 AUTOMATED SHIFTERS

Permitted. See GSR 9.1.1

ET 9.3 FIRE EXTINGUISHER SYSTEM

Permitted, must be securely mounted. See also GSR: 9.3

ET 9.4 TOW VEHICLES

Permitted for ET cars running 11.99 (*7.49) or quicker only. See GSR: 9.9.

ET 9.5 WARMUPS

See GSR: 9.4 and 9.11.

DRIVER: ET 10

ET 10.1 ARM RESTRAINTS

Mandatory in open-bodied cars running 11.99 (*7.49) or quicker. See GSR: 10.3.

ET 10.2 CREDENTIALS

Drag Race Licence mandatory. See GSR: 10.4.

ET 10.3 DRIVER RESTRAINT SYSTEM

Seat belt of at least three-point type mandatory in ET 111 and slower. Three-inch driver restraint system meeting SFI Spec 16.1, 16.5 or FIA standard 8853/98, 8853-2016 mandatory in cars running 11.99 (*7.49) or quicker. All belts used in front-engine supercharged or turbocharged cars burning alcohol/methanol must be covered with a fire-resistant covering. **See GSR: 10.5, 10.5.2, 10.6. And 10.11**

ET 10.4 HEAD PROTECTOR

Mandatory on any car with a roll bar or cage. See GSR: 10.6 and 10.7.

ET 10.5 HELMET

See *GSR: 10.7* and Motorsport UK Competitors year book (Blue book).

ET 10.6 NECK COLLAR

Mandatory in all cars running 10.99 (*6.99) or quicker, neck collar meeting or SFI Spec. 3.3. Cars running 7.49 (*4.49) seconds or quicker or faster than 200 mph, SFI 38.1 or FIA Homologated standard 8858-2002, 8858-2010 head and neck restraints are mandatory. *See GSR: 10.8.*

100

()

MOTOLIS DOLLANG

ET 10.7 PROTECTIVE CLOTHING 7.50 SECONDS OR SLOWER:

Shorts, bare legs, tank tops, or bare torsos are not acceptable when driving in competition. Gloves are mandatory.

All un-blown vehicles running 10.00 (6.40) seconds or slower: All drivers, jackets, pants, gloves, boots or suit meeting SFI spec 3.2A/1 or FIA standard 8856-2000, 8856-2018 mandatory.

Vehicles running 9.99 (*6.39) to 7.50 (4.50) seconds or any vehicle exceeding 135 mph: Jacket and pants or suit meeting SFI spec 3.2A/5 or FIA standard 8856-2000, 8856-2018 mandatory.

All Open Body Vehicles running 11.99 to 10.00: In addition to suit and pants or suit as outlined above gloves meeting SFI spec 3.3/1 or FIA standard 8856-2000, 8856-2018

All Open Body Vehicles.

Arm restraints mandatory.

Dune-Buggy or Dune-buggy type vehicles, running 12.00 (*7.50) seconds or slower: Jacket and pants or suit meeting SFI spec 3.2A/1 or FIA standard, gloves meeting SFI spec 3.3/1 or FIA standard 8856-2000, 8856-2018 mandatory.

Front Engined, supercharged or turbocharged, open bodied car, OR Any Car with a torque converter in drivers compartment (no floor covering transmission)- jacket and pants or suit meeting SFI spec 3.2A/15, gloves meeting and boots or shoes meeting SFI spec 3.3/5 or FIA Standard 8856-2000, 8856-2018 mandatory.

9.99 (*6.39) to 7.50 (4.50) seconds Front engine open bodied or closed bodied car without an OEM or steel firewall, with nitrous oxide or supercharger or turbocharger: Jacket and pants or suit meeting SFI spec 3.2A/15, gloves and shoes/boots meeting SFI spec 3.3/5 or FIA Standard 8856-2000, 8856-2018 mandatory.

ET 10.7.1 PROTECTIVE CLOTHING, 7.49 to 6.00 SECONDS.

Front engine, supercharged or turbocharged, closed bodied car, OR any car with an automatic transmission in driver compartment (no floor covering transmission): Jacket and pants or suit meeting SFI spec 3.2A/15, gloves meeting SFI spec 3.3/5 or FIA Standard 8856-2000, 8856-2018 and boots or shoes meeting SFI spec 3.3/15 mandatory.

Front engine, supercharged or turbocharged open bodied car: Jacket and pants or suit meeting SFI spec 3.2A/20, gloves SFI spec 3.3/5 or FIA Standard 8856-2000, 8856-2018 and boots or shoes meeting SFI spec 3.3/15 mandatory.

101

 (\bigcirc)

MOTOLICIAN MOTOLICA

Front engine car equipped with nitrous oxide: Jacket and pants or suit meeting SFI spec 3.2A/15, gloves and boots or shoes meeting SFI spec 3.3/5 or FIA Standard 8856-2000, 8856-2018 mandatory.

Rear engine car equipped with nitrous oxide and/or turbocharged or supercharged: Jacket and pants or suit meeting SFI spec 3.2A/15, gloves and boots or shoes meeting SFI spec 3.3/5 or FIA Standard 8856-2000, 8856-2018 mandatory.

Naturally aspirated car: i.e. all others: Jacket and pants, or suit meeting SFI spec 3.2A/5, or FIA standard 8856-2000, 8856-2018 and gloves and boots meeting SFI spec 3.3/5, or FIA standard 8856-2000, 8856-2018 mandatory.





SUPER MODIFIED

For safety and construction regulations for this class please see ET Bracket class regulations, specifically ETI or ETII depending on performance.

A heads up no breakout eliminator embracing the use of both naturally aspirated and nitrous oxide enhanced engines, clutch style transmissions and data logging combined with limited tuning.

DESIGNATION

SM, followed by car number For Starting numbers: See GSR: 7.3

REQUIREMENTS AND SPECIFICATIONS ENGINE: SM 1

SM 1.1 CARBURETTOR

Any automotive carburettors with any internal modifications permitted. Any mechanical fuel injection system permitted. Maximum 8 throttle bores. No electronic fuel injection. No superchargers. No turbochargers.

SM 1.2 CYLINDER HEADS

Hemi, canted valve or wedge heads permitted. No overhead camshafts. Production style canted valve or wedge heads will be defined by the intake port roof height. Any canted valve or wedge head that measures 3.05" or less, measured vertically to the highest point of the intake port entry on the intake face with the head laid flat on its head gasket surface, shall be classed as production style. All other types of canted valve or wedge heads shall be classed as Raised-port style. All heads must be cast with water jackets. No billet heads. No port plates. All heads must retain original valve cover height and profile. A maximum of 2 valves per cylinder allowed. Small block engines may use wedge head only with minimum 20 degree angle as measured between valve head and head gasket face.

SM 1.3 INTAKE AND EXHAUST VALVES

Any material may be used but with maximum head diameter as follows, Intake: Raised-port and all Hemi heads: 2.40" Production canted valve heads: 2.30" Small Block engines: 2.10" All Rover and Wildcat: 2.10" Tolerance .010" Exhaust: **Minimum** exhaust valve head diameter can be calculated as follows: Intake valve head diameter x .75

103

 (\bigcirc)

MOTOLIS DOLLANG

SM 1.4 VALVE SPRINGS

Single or dual valve springs only may be used (not including flat wound dampers) with a maximum O.D. as follows, Big Block engines: 1.650" Small Block and Rover engines: 1.55" Tolerance .025" measured as installed with valve seated

SM 1.5 CRANKSHAFT STROKE

Minimum stroke in inches for all engine combinations can be calculated as follows, Cylinder bore x .862 Stroke tolerance .005"

SM 1.6 CYLINDER BLOCK

All cylinder blocks, **excluding** standard Rover and Wildcat Rover, must retain their standard pre 1980 head bolt pattern. All blocks must retain standard cylinder bore and lifter spacing. No dry sump systems. Maximum bore size as follows, Big Block engines: 4.650" Small Block engines: 4.190" Rover based engines: 4.070" Tolerance .005"

SM 1.7 NITROUS OXIDE

Any commercially available nitrous oxide system may be used in conjunction with the following size supply bottles, All Big and Small Block engines: 1 X 5lb bottle Rover based engines: 1 X 10lb bottle

Big Block Nitrous Engines - Maximum of 2 nitrous solenoids with maximum .090" orifice per solenoid and 2 fuel solenoids, all of which must open simultaneously. (This will be verified by tech inspectors confirming that earth wires from all solenoids share a common earthing point and live wires share a common feed).

Small block engines- May use 1 extra nitrous solenoid with a maximum 0.078" diameter orifice and 1 extra fuel solenoid. These must again fire simultaneously but can be fired independently of first 4 solenoids. "Solenoids" include, but are not limited to, electronic, hydraulic and pneumatic devices to manipulate flow to the nitrous and nitrous fuel system. During any technical inspection the inspectors decision as to what is and is not a solenoid will be final.

Up to two purge solenoids are permitted and must vent exclusively to atmosphere behind carburettors and outside of all bodywork. Solenoids must be mounted in a position suitable for easy tech access.

Nitrous bottle in driver's compartment must be equipped with a relief valve and vented outside of driver's compartment. Bottle must be permanently mounted (no hose clamps or tie wraps). One dash 4 or dash 6 supply line only. Must be appropriate length (no

104

 (\bigcirc)

MOTOLICIAN MOTOLICA

storage coils). External heating of bottle other than with electric blanket for the proper use prohibited. No Push systems. See GSR: 1.9 and 9.7

SM 1.8 ENGINE SETBACK

Maximum 10 percent of finished wheelbase, measured from the centre-line of front spindle to front spark plug whole.

SM 1.9 EXHAUST SYSTEM

Competition type exhaust systems required. Exhaust gases must be directed out of the car body, rearward, away from driver and fuel tank.

SM 1.10 LIQUID OVERFLOW

Mandatory. See GSR: 1.7

SM 1.11 FUEL

Gasoline/petrol, methanol and ethanol accepted. Only nitrous oxide in accordance with GSR: 1.9 permitted. See GSR: 1.6, 1.6.1, 1.8, 1.9 and 1.11.

SM 1.12 FUEL SYSTEM

All fuel cells must have pressure cap and be vented to outside of body. Fuel cells mounted inside trunk require complete bulkhead of at least .024" (.6mm) steel or .032" (.8mm) aluminium to isolate driver compartment from trunk. Fuel lines must be located outside of driver's compartment. Fuel tanks are not to be higher than that of rear tyres. Front mounted cells permitted, must be protected from collision damage by the frame or by a protective bar of minimum dimensions 1 1/4" o.d. x .065" chrome moly 4130, Docol R8 or 1 1/4" o.d. x .118" mild steel tubing **See GSR 1.5.**

DRIVE TRAIN: SM 2

SM 2.1 CLUTCH, FLYWHEEL, FLYWHEEL SHIELD

Maximum 2 disc clutch. Pressed steel clutch cover plates only. Flywheel and clutch must meet SFI spec. 1.1 or 1.2. Flywheel shield must meet SFI spec 6.1 or 6.3. Clutch release must be manually operated by the driver's foot. Electronics, pneumatics, hydraulics or any other device may in no way affect the clutch operation. **See GSR: 2.3, 2.5, 2.6 and 2.10**

SM 2.2 DRIVELINE

Drive shaft loop mandatory. See GSR: 2.4

SM 2.3 REAREND

No independent rear suspension. After market axles and axleretention device are mandatory. See GSR: 2.2 and 2.11.

105

()

MOTOLIS DOLLANG

SM 2.4 TRANSMISSION, automatic

Maximum of 5 forward speeds. Spring-loaded, positive reverse lockout device and functional neutral switch mandatory. Transmission shield meeting SFI spec 4.1 mandatory. Automatic transmission flex-plate meeting SFI spec 29.1 and flex-plate shield meeting SFI spec 30.1 mandatory. *See GSR: 2.14.*

BRAKES AND SUSPENSION: SM 3

SM 3.1 BRAKES

Four wheel disc brakes mandatory. See GSR: 3.1

SM 3.2 STEERING

See GSR: 3.3 and 4.1

SM 3.3 SUSPENSION

Full automotive-type suspension is mandatory. Minimum one operating hydraulic shock absorber per wheel. Lightening of stock components prohibited. Rigid mounted suspensions prohibited. **See GSR: 3.2, 3.4 and 3.5.**

SM 3.4 WHEELIE BARS

Permitted. Wheels must be non-metallic. See GSR: 3.6.

FRAME: SM 4

SM 4.1 BALLAST

Permitted. See GSR: 4.2

SM 4.2 GROUND CLEARANCE

Minimum 3 inches (76mm) from front of car to 12 inches (305mm) behind centre line of front axle, 2 inches for remainder of car, except oil pan and headers. **See GSR: 4.5**

SM 4.3 PARACHUTE

Mandatory. See GSR: 4.8

SM 4.4 ROLL CAGE

All cars must have chassis inspected every 3 years by the ASN and have serialised sticker affixed to frame before participation. See GSR: 4.4, 4.11 and 4.11.1

SM 4.5 WHEELBASE

Minimum 90 inches (2286mm) Cars Maximum 115 inches (2921mm) Trucks maximum 125 inches (3175mm)

106



TYRES AND WHEELS: SM 5

SM 5.1 TYRES

Racing slicks permitted. See GSR: 5.1

SM 5.2 WHEELS

Must be automotive type wheels suitable for street use. Maximum rim diameter 15 inches. Wheel studs must be threaded into hex portion of lug nut a distance at least equal to the diameter of the stud. **See GSR: 5.2**

INTERIOR: SM 6

SM 6.1 SEATS

Properly braced, framed and supported seats constructed of aluminium, composite material, double layer poly, fibreglass or carbon fibre (automotive accessory seats) permitted. *See GSR:* 6.2

SM 6.2 SHEET METAL

Driver compartment interior must be aluminium, steel or fibreglass. Magnesium prohibited. See GSR: 6.1 and 7.5

SM 6.3 WINDOW NET

Mandatory. See GSR: 6.3

BODY: SM 7

SM 7.1 AIRFOILS

Non OEM. Aerofoils or wings permitted. Must be permanently attached to frame or roll cage. Non-adjustable during run. See GSR: 7.2

SM 7.2 BODY

All cars must have full body. Original OEM body or replica shell mandatory. Chopping, channelling, sectioning or other alterations to contour length or width permitted as long as the body can be identified with original appearance. One piece bodies prohibited. Funny car bodies prohibited. Driver must sit on either left or right side of driveshaft. There must be two driver exits.

SM 7.3 FIREWALL Mandatory. See GSR: 1.1, 4.3, 6.1 and 7.5

SM 7.4 FLOOR

Mandatory. See GSR: 6.1 and 7.6

107



SM 7.5 WINDSHIELD, WINDOWS

Mandatory. Must be in good condition and free from cracks. May be replaced with shatterproof material, 1/8" (3.2mm) minimum thickness. *See GSR: 7.8 and 7.9*

ELECTRICAL: SM 8

SM 8.1 BATTERY

Batteries must be securely mounted, may not be located in driver compartment. See GSR: 8.1

SM 8.2 MASTER CUT OFF

Mandatory. See GSR: 8.4

SM 8.3 TAIL LIGHTS

Must have one functional tail light for night operations. Flashing, blinking or strobe lights prohibited. See GSR: 8.6

SUPPORT GROUP: SM 9

SM 9.1 COMPUTER/DATA RECORDERS

Data recorders permitted. See GSR 9.1 and 9.2

SM 9.1.1 AUTOMATED SHIFTERS

Permitted See GSR 9.1.1

SM 9.2 FIRE EXTINGUISHER SYSTEM

Mandatory. See GSR: 9.3

SM 9.4 TOW VEHICLES

Permitted. See GSR: 9.9

SM 9.5 WARMUPS

See GSR: 9.4 and 9.11

DRIVER: SM 10

See GSR 10.1, 10.2, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9, and 10.10.

SM WEIGHT BREAKS

Minimum weight - Big Block, 2,300lbs Small block 2,250lbs Rover Wildcat heads, 2,150lbs Rover standard heads, 1,850lbs Big block engines using production heads- normally aspirated 3.80 lbs. /cubic inch.

108

iii) motorsport uk

Big block engines using raised port heads- normally aspirated 4.33 lbs. /cubic inch.

Big block engines using production heads- using nitrous oxide 5.07 lbs. /cubic inch.

Big Block engines using raised port heads- using nitrous oxide 5.53 lbs. /cubic inch.

Small block and Rover V8 engines-using nitrous oxide 5.84 lbs. /cubic inch.

All big block engines using nitrous oxide restricted to 0.600" net intake valve lift measured at zero lash (0.025" tolerance). Cars using clutch add 225 lbs.





SUPER STREET CAR



Dave Cherrett 2018 S/Street Champion

DESIGNATION:

S/ST, preceded by car number. For Starting numbers: **See GSR: 7.3**

Designed as an entry level category and patterned after the popular Super Gas concept with a 10.90 (6.90 eighth mile) index 0.5 second Pro Tree. Reserved for full-body cars, with full fenders, hood, grille, top, windshield and functional doors. Coupes, Sedans, Sports cars, Street Roadsters, Vans, Pickups, Estates and Panel trucks permitted. Open wheel Altereds, Dragsters, Funny Cars, or motorcycles prohibited. Minimum weight including driver: 8-cylinder cars 998 kg (2200 lbs.) 6-cylinder cars, 907 kg (2000 lbs.) 4-cylinder and rotary cars, 544 kg (1200 lbs.)

Any other timed vehicle control devices (counters, time displays, etc.) except as outlined under Class Requirements, are prohibited. Display or transmission of track location, time/ distance data, etc. prohibited.

REQUIREMENTS AND SPECIFICATIONS ENGINE: SST 1 SST 1.1 ENGINE

SSI 1.1 ENGINE

Any automotive engine permitted. Supercharger, turbocharger and nitrous oxide permitted, but never as combination.

Cast harmonic balancer prohibited. Harmonic balancer meeting SFI spec 18.1, or steel billet harmonic balancer made in one piece mandatory. *See GSR: 1.2.*

SST 1.2 EXHAUST SYSTEM

Maximum two outlets, pointed away from the driver and fuel tank. Mandatory noise limits apply. See SR 5.5 and GSR: 1.3.

110



SST 1.3 FUEL

Only Gasoline/Petrol, methanol, ethanol and diesel meeting Motorsport UK specifications permitted. Nitrous oxide permitted. See GSR: 1.6, 1.6.1, 1.8, 1.9 and 1.11.

SST 1.4 FUEL SYSTEM

Aftermarket fuel tanks or cells permitted. (Recommended)

Must be located outside driver's compartment. If fuel tank or filler neck is in trunk, a bulkhead of at least minimum .8 mm (.030 inch) aluminium or steel must be used between trunk and driver compartment and tank must be vented to outside of car. Fuel distribution blocks may not be mounted on the engine fire wall. **See GSR: 1.5 and 1.5.1**

SST 1.4.1 INDUCTION

Any induction permitted. Electronic fuel injection must be a "closed system, i.e. only monitor's engine functions, does not monitor vehicle speed, wheel speed, etc.

SST 1.5 LIQUID OVERFLOW

Minimum catch-can capacity 0.5 litres (1-pint). Mandatory. See GSR: 1.7

SST 1.6 NITROUS OXIDE

Commercially available nitrous oxide permitted, including supercharged and turbocharged engines. Nitrous bottles in the driver's compartment must be equipped with a relief valve and vented outside of the driver's compartment. Bottles must be permanently mounted (no hose clamps or tie wraps). Hoses from bottle(s) to the solenoid must be high-pressure steel braided hoses. External heating of the bottle(s), other than with the use of an approved electric blanket, is prohibited. **See GSR 1.9 and 9.7.**

SST 1.7 SUPERCHARGER, TURBOCHARGER

Permitted only when gasoline, petrol, methanol, ethanol or diesel is used as fuel. Restricted to standard Roots type. See GSR: 1.12, 1.13, 2.13 and 4.8.

SST 1.8 THROTTLE

Throttle control must be manually operated by driver's foot. Electronics, pneumatics, hydraulics, lasers or any other devices may in no way affect the throttle operation. Timed throttle stops, which are pre-set before the run permitted. See GSR: 1.14

SST 1.9 VALVE COVERS

Cast or fabricated metal valve covers using all attachment bolt holes mandatory.

111

 \mathbb{O}

MOTOLICIES MOTOLICE

DRIVE TRAIN: SST 2 SST 2.1 CLUTCH. FLYWHEEL. FLYWHEEL SHIELD

Flywheel and clutch meeting SFI Spec 1.1, 1.2, 1.3, or 1.4 (2-discs maximum) mandatory. Flywheel shield meeting SFI Spec 6.2 or 6.3 mandatory on all cars using SFI Spec 1.3 or 1.4 clutches. Flywheel shield meeting minimum SFI Spec 6.1 mandatory on all other cars. Cars with rotary engines must be equipped with a flywheel shield made of 6.35 mm (1/4-inch) minimum thickness steel plate surrounding the bell housing 360 degrees or a flywheel shield meeting SFI Spec 6.1, 6.2 or 6.3. **See GSR: 2.3, 2.5, 2.6 and 2.10.**

SST 2.2 DRIVELINE

Driveline loop mandatory. See GSR: 2.4

SST 2.3 REAREND

After market axles and axle retention device mandatory on any car running 10.99 (*6.99) or quicker and any car with locked differential. Cars running 10.99 (*6.99) or quicker that weigh more than 2000 pounds (907 kg) and have independent rear suspension without upper and lower (both) control arms must replace swing axle rear end with conventional rear end housing

(Example 1963 to 1983 Corvette). Cars with independent rear suspension using upper and lower (both) control arms may retain swing axle assembly regardless of weight. Cars must have 360 degree, minimum 1-inch wide by ¼-inch thick retention loop on each axle. Quick-change and/or locked differential permitted. **See GSR 2.2 and 2.11.**

SST 2.4 TRANSMISSION, AUTOMATIC

Spring-loaded, positive reverse lockout device and functional neutral safety switch mandatory. Trans brake permitted. Automatic transmission flex plate meeting SFI Spec 29.1 recommended. See GSR: 2.14.

SST 2.5 TRANSMISSION SHIELD, AUTOMATIC

Automatic transmission shield meeting SFI Spec 4.1 recommended. See GSR: 2.14.

BRAKES & SUSPENSION: SST 3

SST 3.1 BRAKES

Four-wheel hydraulic brakes mandatory. See GSR: 3.1

SST 3.2 STEERING

Conventional steering system only. Minimum steering wheel diameter, 279 mm (11 inch). See GSR: 3.3 and 4.1.

112

((C)))

MOTOLICIES MOTOLICE

SST 3.3 SUSPENSION

Must have automotive-type front suspension commonly used by an automobile manufacturer. Must have one operating hydraulic shock absorber for each sprung wheel. **See GSR: 3.2, 3.4 and 3.5**

SST 3.4 TRACTION BARS

Permitted. See GSR: 3.5.

SST 3.5 WHEELIE BARS

Permitted. Wheels must be non-metallic. See GSR: 3.6.

FRAME: SST 4

SST 4.1 BALLAST

Permitted. See GSR: 4.2.

SST 4.2 BUMPERS

Optional.

SST 4.3 FRAME

See GSR: 4.4.

SST 4.4 GROUND CLEARANCE

Minimum 76 mm (3 inch) from front of car to 305 mm (12 inch) behind centreline of front axle, 51 mm (2 inch) for remainder of car, except oil pan and exhaust headers. **See GSR: 4.5.**

SST 4.5 PARACHUTE

Permitted. See GSR: 4.8.

SST 4.6 ROLL CAGE, ROLL BAR

Mandatory*. Type depending on body style. See GSR: 4.4, 4.10, 4.10.1, 4.11, 4.11.1, 4.11.2, 10.6 and 10.7.

*Stock bodied (i.e. completely standard closed body) production cars manufactured from 2010 or newer, running no quicker than 10.00 seconds, having no modifications other than modified exhaust, air intake filter systems and/or remapped ECU can run without a roll bar.

SST 4.7 WHEELBASE

Minimum wheelbase 2286 mm (90 inch). Maximum wheelbase 3048 mm (120 inch) unless otherwise produced by automobile manufacturer. Maximum wheelbase variation from left to right: 25 mm (1 inch).

TYRE & WHEELS: SST 5

SST 5.1 TYRES Racing slicks permitted. Front tyres See GSR: 5.1.

113



SST 5.2 WHEELS

Wire or motorcycle wheels prohibited. Minimum wheel size 13inches (unless originally equipped with smaller wheels and vehicle is equipped with original engine). **See GSR: 5.2**

INTERIOR: SST 6 SST 6.1 SEATS

Properly braced, framed and supported seats constructed of aluminium, Fiberglas, double layer poly or carbon fibre (automotive accessory seats permitted). One seat mandatory. *See GSR: 6.2.*

SST 6.2 SHEET METAL

Driver's compartment interior must be aluminium or steel. Magnesium prohibited.

SST 6.3 TONNEAU COVER

Covers over driver compartment and/or pickup bed permitted if driver entry or exit is not restricted.

SST 6.4 UPHOLSTERY

Optional.

SST 6.5 WINDOW NET

Mandatory in full bodied car when roll cage is required. See GSR: 6.3.

BODY: SST 7

SST 7.1 BODY

Must be full-bodied car. Coupes, Sedans, Sports cars, Street Roadsters, Vans, Pickups, Estates and Panel trucks permitted. Fiberglas bodies permitted. Door hinges on any lift-off door must have safety pins or locks. Cars with top and windshield must have two driver exits. Convertibles and cars that came with removable tops may run without top. Tops may be chopped. Cars without tops do not require working doors. Bodies may be channelled or sectioned. Street Roadsters, Sports Cars and Convertibles may remove top and windshield. Bodies may be set back. Body rear wheel opening may not extend into door opening. On full-bodied cars, hood scoop may not extend more than 279 mm (11 inch) above height of original hood surface. **See GSR: 1.4 and 7.7.**

SST 7.2 FENDERS

Mandatory. Lightweight replacement fenders permitted. Front fenders may be lengthened to fit extended wheelbase. Rear fenders may be cut for tire clearance. Altered fenders must have edges re-rolled or beaded. On roadsters it is allowed to raise the rear fenders by as much as the body has been lowered over the frame. Front inner fenders permitted.

SST 7.3 FIREWALL Mandatory. See GSR: 6.1 and 7.5.

114

((()))

MOTOLICIAN CONTRACTOR

SST 7.4 FLOOR

Mandatory. See GSR: 7.6.

SST 7.5 STREET EQUIPMENT

One working taillight is mandatory. Headlights recommended, may be required at some race tracks. *See GSR: 8.6*

SST 7.6 SPOILERS/ WINGS

Rear spoiler permitted. Non-OEM wings except Motorsport UK approved prohibited on all body styles. Roof-mounted spoilers, other than original for body used, prohibited. Front air dams or spoilers permitted on Street Roadsters, may not project more than 762 mm (30-inches) ahead of front spindle centreline. Any adjustment or movement during run prohibited. See GSR: 7.2.

SST 7.7 TOP

Tops may be removed if car came with removable top. Convertibles may run with top down. Top may be chopped on other cars.

SST 7.8 WINDSCREEN

Convertibles and roadsters may remove windshield, mandatory on all others. Cars without a windshield must have a metal or other flame-proof windscreen installed. **See GSR: 7.8.**

SST 7.9 WINDSHIELD, WINDOWS

Cars with top and windshield must be equipped with all windows. All windshields and windows except for windscreen must be clear, factory tinted safety glass or clear Plexiglas or other shatterproof material, 3 mm (1/8-inch) minimum thickness. Plexiglas in windscreen prohibited, must be made of polycarbonate (Lexan or equal). Original Safety glass permitted. Identification decals permitted on rear quarter windows, rear window and upper corner passenger side front windscreen. **See GSR: 7.9.**

ELECTRICAL: SST 8

SST 8.1 BATTERIES

All batteries must be securely mounted with metal hold-downs outside the driver compartment. See GSR: 8.1.

SST 8.2 DELAY BOX/ DEVICE

Permitted, one box/ device only, attached to trans-brake, shift timer and/or throttle timer only. Any other attachment prohibited. Delay box may only display delay amount dialled in, analogue or digital display permitted. All direct wiring must be clearly identifiable to tech inspector.

See GSR: 8.2.

115

 (\bigcirc)

motorsport uk

SST 8.3 IGNITION

Timed ignition interruption devices (stutter boxes) prohibited. Starting line and/or "high side" rev limiters permitted. Two-Steps, Rev Limiters or any other rpm limiting devices are legal unto themselves. However use of these devices as a down-track rpm (speed) controller is prohibited. See GSR: 8.3 and 8.5.

SST 8.4 MASTER CUT-OFF

Mandatory. See GSR: 8.4.

SUPPORT GROUP: SST 9

SST 9.1 COMPUTER

Prohibited. See GSR: 9.1 and 9.2

SST 9.1.1 AUTOMATED SHIFTERS

Permitted. See GSR: 9.1.1

SST 9.2 TOW VEHICLES

Prohibited.

SST 9.3 FIRE EXTINGUISHER SYSTEM

Permitted, must be securely mounted. See also GSR: 9.3 SST 9.4 WARM-UPS See GSR: 9.4 and 9.11.

DRIVER: SST 10

SST 10.1 ARM RESTRAINTS

Mandatory in all open-bodied cars. See GSR: 10.3.

SST 10.2 LICENCE

Drag Race Licence mandatory. See GSR: 10.4.

SST 10.3 DRIVERS LOCATION

Driver's main torso must be positioned on the left or right side of the driveshaft in original location. Seat may be moved rearwards maximum 254 mm (10 inch) from original location but driver must remain in front of differential.

SST 10.4 DRIVER RESTRAINT SYSTEM

Four piece driver restraint system mandatory in all cars with roll bar. Three-inch driver restraint system meeting SFI Spec 16.1, 16.5 or FIA Standard 8853/98, 8853-2016 mandatory in car with roll cage.

See GSR: 10.5.

SST 10.5 HEAD PROTECTOR Mandatory. See GSR: 10.6.

116



SST 10.6 HELMET

See GSR: 10.7 and Motorsport UK Competitors year book (Blue book).

SST 10.7 NECK COLLAR

Mandatory. SFI 38.1 or FIA Homologated head and neck restraint device can be used. *See GSR: 10.8.*

SST 10.8 PROTECTIVE CLOTHING

All drivers, jackets or suit meeting SFI spec 3.2A/1 or FIA standard 8856-2000, 8856-2018 mandatory.

Front engine, supercharged or turbocharged, open bodied car, OR any car with an automatic transmission in drivers compartment (no floor covering transmission) - jacket and pants or suit meeting SFI spec 3.2A/15, gloves and boots or shoes

meeting SFI spec 3.3/5 or FIA Standard 8856-2000, 8856-2018 mandatory.

See GSR: 10.10.





SUPER GAS



Stuart Doignie 2018 S/Gas Champion

DESIGNATION:

S/G, preceded by car number. For Starting numbers: See GSR: 7.3

A 9.90 standard index (6.30 eighth mile). Reserved for full-body cars, with full fenders, hood, grille, top, windshield and functional doors. Bumpers optional. Grille may be replaced by flat panel. Coupes, Sedans, Sports cars, Street Roadsters, Vans, Pickups, Estates and Panel trucks permitted. Open wheel Altereds, Dragsters, Funny Cars, or motorcycles prohibited.

Any other timed vehicle control devices (counters, time displays, etc.) except as outlined under Class Requirements, are prohibited. Display or transmission of track location, time/ distance data, etc. prohibited.

REQUIREMENTS AND SPECIFICATIONS ENGINE: SG 1

SG 1.1 ENGINE

Any automotive engine permitted. Supercharger, turbocharger and nitrous oxide permitted, but never as combination.

Cast harmonic balancer prohibited. Harmonic balancer meeting SFI spec 18.1, or steel billet harmonic balancer made in one piece mandatory. See GSR: 1.2.

SG 1.2 EXHAUST SYSTEM

Maximum two outlets, pointed away from the driver and fuel tank. Mandatory noise limits apply. See SR 5.5 and GSR: 1.3.

SG 1.3 FUEL

Only Gasoline/Petrol, Methanol, ethanol and diesel meeting Motorsport UK specifications permitted. Nitrous oxide permitted. See GSR: 1.6, 1.6.1, 1.8, 1.9 and 1.11.

118

iii) motorsport uk

SG 1.4 FUEL SYSTEM

Aftermarket fuel tanks or cells permitted. (Recommended) Must be located outside driver's compartment. If fuel tank or filler neck is in trunk, a bulkhead of at least minimum .8 mm (.030 inch) aluminium or steel must be used between trunk and driver compartment and tank must be vented to outside of car. Fuel distribution blocks may not be mounted on the engine fire wall. . See GSR: 1.5 and 1.5.1

SG 1.4.1 INDUCTION

Any induction permitted. Electronic fuel injection must be a closed system, i.e. only monitors engine functions, does not monitor vehicle speed, wheel speed, etc.

SG 1.5 LIQUID OVERFLOW

Minimum catch-can capacity 0.5 litres (1 pint). Mandatory. See GSR: 1.7

SG 1.6 NITROUS OXIDE

Commercially available nitrous oxide permitted, including supercharged and turbocharged engines. Nitrous bottles in the driver's compartment must be equipped with a relief valve and vented outside of the driver's compartment. Bottles must be permanently mounted (no hose clamps or tie wraps). Hoses from bottle(s) to the solenoid must be high-pressure steel braided hoses. External heating of the bottle(s), other than with the use of an approved electric blanket, is prohibited. **See GSR 1.9 and 9.7.**

SG 1.7 SUPERCHARGER, TURBOCHARGER

Permitted only when gasoline, petrol, methanol, ethanol or diesel is used as fuel. Restricted to standard Roots type. See GSR: 1.12, 1.13, 2.13 and 4.8.

SG 1.8 THROTTLE

Throttle control must be manually operated by driver's foot. Electronics, pneumatics, hydraulics, lasers or any other devices may in no way affect the throttle operation. Timed throttle stops, which are pre-set before the run permitted. **See GSR: 1.14**

SG 1.9 VALVE COVERS

Cast or fabricated metal valve covers using all attachment bolt holes mandatory.

DRIVE TRAIN: SG 2

SG 2.1 CLUTCH, FLYWHEEL, FLYWHEEL SHIELD

Flywheel and clutch meeting SFI Spec 1.1, 1.2, 1.3, or 1.4 (2-discs maximum) mandatory. Flywheel shield meeting SFI Spec 6.2 or 6.3 mandatory on all cars using SFI Spec 1.3 or 1.4 clutches. Flywheel shield meeting minimum SFI Spec 6.1 mandatory on all other cars. Cars with rotary engines must be equipped with a flywheel shield made of 6.35 mm (1/4-inch) minimum thickness steel plate surrounding the bell housing 360 degrees or a flywheel

119



shield meeting SFI Spec 6.1, 6.2 or 6.3. See GSR: 2.3, 2.5, 2.6 and 2.10.

SG 2.2 DRIVELINE

Driveline loop mandatory. See GSR: 2.4

SG 2.3 REAREND

After market axles and axle retention device mandatory on any car running 10.99 (*6.99) or quicker and any car with locked differential. Cars running 10.99 (*6.99) or quicker that weigh more than 2000 pounds (907 kg) and have independent rear suspension without upper and lower (both) control arms must replace swing axle rear end with conventional rear end housing (example 1963 to 1983 Corvette). Cars with independent rear suspension using upper and lower (both) control arms may retain swing axle assembly regardless of weight. Cars must have 360 degree, minimum 1-inch wide by ¼-inch thick retention loop on each axle. Quick-change and/or locked differential permitted. See GSR 2.2 and 2.11.

SG 2.4 TRANSMISSION, AUTOMATIC

Spring-loaded, positive reverse lockout device and functional neutral safety switch mandatory. Trans brake permitted. Automatic transmission flex plate meeting SFI Spec 29.1 recommended. **See GSR: 2.14.**

SG 2.5 TRANSMISSION SHIELD, AUTOMATIC

Automatic transmission shield meeting SFI Spec 4.1 recommended. See GSR: 2.14.

BRAKES & SUSPENSION: SG 3

SG 3.1 BRAKES

Four-wheel hydraulic brakes mandatory. See GSR: 3.1

SG 3.2 STEERING

Conventional steering system only. Minimum steering wheel diameter, 279 mm (11 inch). Butterfly steering wheels prohibited. See GSR: 3.3 and 4.1.

SG 3.3 SUSPENSION

Must have automotive-type front suspension commonly used by an automobile manufacturer. Rigid-mount front axles permitted if wheelbase is 3048 mm (120 inches). Shock absorbers optional. Rear Suspension optional. With rear suspension shock absorbers mandatory in rear. **See GSR: 3.2, 3.4 and 3.5**

SG 3.4 TRACTION BARS

Permitted. See GSR: 3.5.

SG 3.5 WHEELIE BARS

Permitted. Wheels must be non-metallic. See GSR: 3.6.

120

) motorsport uk

FRAME: SG 4

SG 4.1 BALLAST Permitted. See GSR: 4.2.

SG 4.2 BUMPERS

Optional.

SG 4.3 FRAME

See GSR: 4.4.

SG 4.4 GROUND CLEARANCE

Minimum 76 mm (3 inch) from front of car to 305 mm (12 inch) behind centreline of front axle, 51 mm (2 inch) for remainder of car, except oil pan and exhaust headers. **See GSR: 4.5.**

SG 4.5 PARACHUTE

Mandatory on cars running faster than 240 km/h (149 mph). See GSR: 4.8.

SG 4.6 ROLL CAGE

Mandatory. Type depending on body style. Chassis must be checked every three years. See GSR: 4.4, 4.11, 4.11.1, 4.11.2, 10.6 and 10.7.

SG 4.7 WHEELBASE

Minimum wheelbase 2286 mm (90 inch). Maximum wheelbase 3048 mm (120 inch) unless otherwise produced by automobile manufacturer. Maximum wheelbase variation from left to right: 25 mm (1 inch).

TYRE & WHEELS: SG 5

SG 5.1 TYRES

Racing slicks permitted. Front tyres See GSR: 5.1.

SG 5.2 WHEELS

Wire or motorcycle wheels prohibited. Minimum wheel size 13inches (unless originally equipped with smaller wheels and vehicle is equipped with original engine). **See GSR: 5.2.**

INTERIOR: SG 6

SG 6.1 SEATS

Properly braced, framed and supported seats constructed of aluminium, Fiberglas, double layer poly or carbon fibre (automotive accessory seats permitted). One seat mandatory. *See GSR: 6.2.*

SG 6.2 SHEET METAL

Driver's compartment interior must be aluminium or steel. Magnesium prohibited.

121



SG 6.3 TONNEAU COVER

Covers over driver compartment and/or pickup bed permitted if driver entry or exit is not restricted.

SG 6.4 UPHOLSTERY

Optional

SG 6.5 WINDOW NET

Mandatory. See GSR: 6.3.

BODY: SG 7

SG 7.1 BODY

Must be full-bodied car. Coupes, Sedans, Sports cars, Street Roadsters, Vans, Pickups, Estates and Panel trucks permitted. Fiberglas bodies permitted.

Door hinges on any lift-off door must have safety pins or locks. Cars with top and windshield must have two driver exits. Convertibles and cars that came with removable tops may run without top. Tops may be chopped. Cars without tops do not require working doors. Bodies may be channelled or sectioned. Street Roadsters, Sports Cars and Convertibles may remove top and windshield. Bodies may be set back. Rear wheel opening may not extend into door opening. On full-bodied cars, hood scoop may not extend more than 279 mm (11 inch) above height of hood surface. **See GSR: 1.4 and 7.7.**

SG 7.2 FENDERS

Mandatory. Lightweight replacement fenders permitted. Front fenders may be lengthened to fit extended wheelbase. Rear fenders may be cut for tire clearance. Altered fenders must have edges re-rolled or beaded. On roadsters it is allowed to raise the rear fenders by as much as the body has been lowered over the frame. Front inner fenders permitted.

SG 7.3 FIREWALL

Mandatory. See GSR: 6.1 and 7.5.

SG 7.4 FLOOR

Mandatory. See GSR: 7.6.

SG 7.5 STREET EQUIPMENT

One working taillight mandatory. Headlights recommended, may be required at some race tracks. *See GSR: 8.6.*

SG 7.6 SPOILERS/ WINGS

Rear spoiler permitted. Non-OEM wings except Motorsport UK approved prohibited on all body styles. Roof-mounted spoilers, other than original for body used, prohibited. Front air dams or spoilers permitted on Street Roadsters, may not project more than 762 mm (30-inches) ahead of front spindle centreline. Any adjustment or movement during run prohibited. **See GSR: 7.2.**

) motorsport uk

SG 7.7 TOP

Tops may be removed if car came with removable top. Convertibles may run with top down. Top may be chopped on other cars.

SG 7.8 WINDSCREEN

Convertibles and roadster may remove windshield, mandatory on all others. Cars without a windshield must have a metal or other flame-proof windscreen installed. **See GSR: 7.8.**

SG 7.9 WINDSCREEN, WINDOWS

Cars with top and windshield must be equipped with all windows. All windshields and windows except for windscreen must be clear or factory tinted safety glass or clear Plexiglas or other shatterproof material, 3 mm (1/8-inch) minimum thickness.

Plexiglas in windscreen prohibited, must be made of polycarbonate (Lexan or equal). Original Safety glass permitted. Identification decals permitted on rear quarter windows, rear window, and upper corner passenger side front windscreen. **See GSR: 7.9.**

ELECTRICAL: SG 8

SG 8.1 BATTERIES

All batteries must be securely mounted with metal hold-downs outside the driver compartment. See GSR: 8.1.

SG 8.2 DELAY BOX/DEVICE

Permitted, one box/device only, attached to Trans brake, shift timer and/or throttle timer only. Any other attachment prohibited. Delay box may only display delay amount dialled in, analogue or digital display permitted. All direct wiring must be clearly identifiable to tech inspector.

See GSR: 8.2.

SG 8.3 IGNITION

Timed ignition interruption devices (stutter boxes) prohibited. Starting line and/or "high side" rev limiters permitted. Two-Steps, Rev Limiters or any other rpm limiting devices are legal unto themselves. **However use of these devices as a down-track rpm (speed) controller is prohibited.** *See GSR: 8.3.*

SG 8.4 MASTER CUT-OFF Mandatory. See GSR: 8.4.

SUPPORT GROUP: SG 9

SG 9.1 COMPUTER Prohibited. See GSR: 9.1 and 9.2.

SG 9.1.1 AUTOMATED SHIFTERS Permitted. See GSR: 9.1.1

123

 \mathbb{O}

MOTOLICIAN MOTOLICA

SG 9.2 TOW VEHICLES

Prohibited.

SG 9.3 FIRE EXTINGUISHER SYSTEM

Permitted, must be securely mounted. See also GSR: 9.3

SG 9.4 WARM-UPS

See GSR: 9.4 and 9.11.

DRIVER: SG 10

SG 10.1 ARM RESTRAINTS

Mandatory in all open-bodied cars. See GSR: 10.3.

SG 10.2 LICENCE

Drag Race Licence mandatory. See GSR: 10.4.

SG 10.3 DRIVERS LOCATION

Driver's main torso must be positioned on the left or right side of the driveshaft. Seat may be moved rearwards maximum 254 mm (10 inch) from original location but driver must remain in front of differential.

SG 10.4 DRIVER RESTRAINT SYSTEM

SFI Spec 16.1, 16.5 or FIA Standard 8853/98, 8853-2016 mandatory. See GSR: 10.5.

SG 10.5 HEAD PROTECTOR

Mandatory. See GSR: 10.6.

SG 10.6 HELMET

See Motorsport UK Competitors year book (Blue book).

SG 10.7 NECK COLLAR

Mandatory. *See GSR: 10.8.* SFI 38.1 or FIA Standard 8858-2002 or 8858-2010 head and neck restraint device can be used

SG 10.8 PROTECTIVE CLOTHING

Jacket and pants or suit meeting SFI spec 3.2A/5 or FIA standard 8856-2000, 8856-2018 mandatory.

Front engine, supercharged, open bodied car, OR any car with an automatic transmission in drivers compartment (no floor covering transmission) - jacket and pants or suit meeting

SFI spec 3.2A/15, gloves and boots or shoes meeting SFI spec 3.3/5 or FIA Standard 8856-2000, 8856-2018 mandatory.

Front engine open bodied or closed bodied car without an OEM or steel firewall, with nitrous oxide and/or supercharger/ turbocharger: Jacket and pants or suit meeting SFI spec 3.2A/15, gloves and shoes/boots meeting SFI spec 3.3/5 or FIA Standard 8856-2000, 8856-2018 mandatory.

See GSR: 10.10

124

ແດງ

MOTOLIS DOLL OK

Street Eliminator



Joe Stevens 2018 Street Eliminator Champion

For safety and construction regulations for this class please see ET Bracket class regulations, specifically ETI, ETII or ETIII depending on performance.

DESIGNATION

SE, followed by car number For Starting numbers: See GSR: 7.3

The car that has been entered for racing must have valid tax, MOT and insurance. You will be expected to produce these documents during scrutineering.

All racers must display prominently any sponsor's decals as supplied by the organisers. Decals must be displayed on both sides of the car and be clearly visible. Strictly no trimming of decals is permitted.

There must be no changes to the car between the cruise and the eliminations other than changing the plugs or repairing damage. Note that it is allowable to substitute the tyres used to race on with tyres that comply fully with DVLA legal requirements during the cruise. Damage repairs must utilise the same engine block and heads, same transmission case and the same torque converter (or clutch) that was used on the cruise. Engine or transmission changes are not allowed after the cruise. If you cruise with the bonnet off then you race with the bonnet off. The same applies to roofs on convertible cars. Cars that use grill plugs at the track must use them on the cruise. Nitrous cars do not have to carry nitrous bottles on the street cruise. Engine tuning on race day is encouraged but no changes are allowed to core components.

125

) motorsport uk

REQUIREMENTS AND SPECIFICATIONS

In addition or as a compliment to ET Bracket class regulations

ENGINE: SE 1 SE 1.2 EXHAUST SYSTEM

The car must have an exhaust system that incorporates mufflers and exits behind the front wheels. Collector mufflers may be used but only in addition to system mufflers. For 2011 mandatory noise limits apply. See SR 5.5, ET: 1.2 and GSR: 1.3.

SE 1.3 FUEL

The car must run on widely available pump fuel, specifically unleaded, super unleaded petrol, LPG, diesel (any forecourt available grade) or E85. The use of high octane pump petrol as available at many of the circuit race tracks is forbidden. Commercially available octane booster is OK, but not C16 or other 'exotic' fuels. At each event a car/cars will be randomly selected for fuel testing by the Tech Crew.. There is no limit to the number of occasions that a racer may be asked to co-operate in this validation process. The testing of fuel in no way suggests anything improper in the racer's preparation. **See GSR: 1.6, 1.6.1, 1.8, 1.9 and 1.11**

SE 1.4 FUEL SYSTEM

Only one fuel cell is permitted in each car unless equipped to use LPG in addition to petrol. No separate fuel systems for nitrous systems are allowed. See ET 1.4 and GSR: 1.5. And 1.5.1

SE 1.6 NITROUS OXIDE

Legal Power adders: Nitrous Oxide, Supercharging or Turbo charging. A combination of turbo charging and nitrous oxide injection is not permitted apart from

- engines with a maximum of 6 cylinders and with a capacity of less than 3500cc which may use any combination of power adders
- **2.0** Supercharged cars of any displacement which may also employ nitrous oxide injection but only where no intercooler or charge cooler is fitted.

See ET 1.6 and GSR 1.9 and 9.7.

SE 1.7 SUPERCHARGER, TURBOCHARGER Permitted, but cannot be used together. See ET 1.7 and GSR: 1.12, 1.13, 2.13 and 4.8.

BRAKES & SUSPENSION: SE 3 SE 3.5 WHEELIE BARS

Prohibited.

126

iii) motorsport uk

TYRES & WHEELS: SE 5

SE 5.1 Rear Tyres

Legal Rear Tyres;

Hoosier Quick Time (Full tread pattern).

Mickey Thompson Sportsman.

Mickey Thomson Sportsman Pro.

BFGoodrich g-Force T/A Drag Radial.

Mickey Thompson ET Street Radial and ET SS Street Radial limited to maximum 315 width in 60 profile or 325 width in 50 profile.

Any E marked tyre.

All tyres must maintain a tread depth of at least 1.6 mm across 75% of the tyre at all times. The cutting or re-cutting of any tyre is not permitted.

Legal Front tyres: Any appropriately speed-rated tyres may be Fitted., See also Section ET 5.1 and GSR 5.

INTERIOR: SE 6

SE 6.1 SEATS

The car must have a minimum of two seats of the same size. See also ET6.1 & GSR: 6.2.

BODY: SE 7

The car, unless a roadster, must have a minimum of two doors. The maximum front overhang of the body is 45" (1143mm) See also ET7

SE 7. 10 WINDSHIELDS, WINDOWS,

The car, unless a roadster, must have wind down, sliding, or removable side windows. See also ET7 and GSR7

DRIVE TRAIN: SE 2

SE 2.4 TRANSMISSION

Transmissions must be based on production factory options. Examples of acceptable transmissions are, Powerglide, Turbo 400. Turbo 350. C4. C6. and Torque flight. Aftermarket cases or bell housings that negate the need for transmission or Flexplate shields such as the Dedenbear option are acceptable. Aftermarket manual transmissions that require clutch actuation between shifts such as Doug Nash, Richmond or clutched Jerico are permitted, however, clutch-less manual transmissions are not allowed. For clarity, Drag Race only, Jerico, Liberty, Clutched Turbo 400, Bruno-Lenco or Lenco transmissions are prohibited in this class. See ET 2.1, 2.4, 2.5 and GSR: 2.3, 2.5, 2.6 and 2.10, 2.13 and 2.14

DRIVER: SE 10 SE 10.1 ARM RESTRAINTS

Mandatory in all open-bodied cars. See GSR: 10.3.

127

((()))

MOTOLIS DOLL OK

SE 10.2 LICENCE

Drag Race Licence mandatory. See GSR: 10.4.

SE 10.4 DRIVER RESTRAINT SYSTEM

Cars quicker than 11.99 ET, SFI Spec 16.1. 16.5 or FIA 8853/98 or 8853-2000 mandatory. See GSR: 10.5.

SE 10.5 HEAD PROTECTOR

Mandatory. See GSR: 10.6.

SE 10.6 HELMET

See Motorsport UK Competitors year book (Blue book).

SE 10.7 NECK COLLAR

Mandatory. *See GSR: 10.8.* SFI 38.1 or FIA Standard 8856-2002, 8856-2010 head and neck restraint device can be used

SE 10.8 PROTECTIVE CLOTHING

Jacket and pants or suit meeting SFI spec 3.2A/5 or FIA standard 8856-2000, 8856-2018 is mandatory.

Front engine, supercharged, open bodied car, OR any car with an automatic transmission in drivers compartment (no floor covering transmission) - jacket and pants or suit meeting SFI spec 3.2A/15, gloves and boots or shoes meeting SFI spec 3.3/5 or FIA Standard 8856-2000, 8856-2018 mandatory. *See GSR:* **10.10**

ADDITIONAL REGULATIONS: SE11

SE 11.1 Racing

- 11.1.1. The qualifying will be finalised by Motorsport UK officials, after the last qualifying pass before the cruise. Any qualifying session that takes place after the cruise will be a "free session" and no changes to the ladder will be able to take effect.
- 11.1.2. All cars race in street trim.
- 11.1.3. Rolling burn outs permitted.
- 11.1.4. Elimination and qualifying will be based on a Pro 0.5 tree
- 11.1.5. All cars must run 13.5 seconds or quicker to qualify for Street Eliminator competition...
- 11.1.6. After the Cruise cars must be re-scrutinised before taking in eliminations.

SE 11.2 Cruise and record setting.

11.2.1. The cruise is organised by the Street Eliminator Drivers Association and is not under the jurisdiction of this year book. However it should be noted that for a speed or ET record to be recognised by the organising clubs the vehicle must complete qualifying as per the current cruise and qualifying regulations of the Street Eliminator

128

iii) motorsport uk

Association. (i.e., the cruise must be satisfactorily completed.) Any record must be backed up within 1% as per National and Motorsport UK championship regulations.

SUPER COMP



Stuart Doignie 2018 S/Comp Champion

DESIGNATION:

S/C, preceded by car number. For Starting numbers: **See GSR: 7.3**

An 8.90 standard index (5.70 for eighth-mile). Heads-up, pro start. For Dragsters, Funny Cars, roadsters, Pro Stock type cars, Pro Mod type cars and Altereds Type 1 and Type 2. Motorcycles prohibited.

Any other timed vehicle control devices (counters, time displays, etc.) except as outlined under Class Requirements, are prohibited. Display or transmission of track location, time/ distance data, etc. prohibited.

REQUIREMENTS AND SPECIFICATIONS ENGINE: SC 1 SC 1.1 ENGINE

Any automotive engine permitted. Supercharger, turbocharger and nitrous oxide permitted, but never as combination.

Cast harmonic balancer prohibited. Harmonic balancer meeting SFI spec 18.1, or steel billet harmonic balancer made in one piece mandatory. *See GSR 1.2.*

SC 1.2 EXHAUST SYSTEM

Any type allowed but exhaust outlets must be pointed away from the driver and fuel tank. Silencers may be required in the future **See GSR 1.3.**

129

((C)))

MOTOLICIES MOTOLICE

SC 1.3 FUEL

Only Gasoline/Petrol, methanol, ethanol and diesel meeting Motorsport UK specifications permitted. Nitrous oxide permitted. See GSR 1.6, 1.6.1, 1.8, 1.9 and 1.11.

SC 1.4 FUEL SYSTEM

Aftermarket fuel tanks or cells permitted. (Recommended) Must be located outside the driver's compartment. If fuel tank or filler is in trunk, a bulkhead of at least minimum .8 mm (.030 inch) aluminium or steel must be used between trunk and driver compartment and tank must be vented to outside of car. Fuel distribution blocks may not be mounted on the engine fire wall. **See GSR: 1.5 and 1.5.1**

SC 1.4.1 INDUCTION

Any induction permitted. Electronic fuel injection must be a "closed" system, i.e. only monitors engine functions, does not monitor vehicle speed, wheel speed, etc.

SC 1.5 LIQUID OVERFLOW

Catch-can is mandatory, minimum capacity is 0,5 litres (1 pint). See GSR: 1.7

SC 1.6 NITROUS OXIDE

Commercially available nitrous oxide permitted, including supercharged and turbocharged engines. Nitrous bottles in the driver's compartment must be equipped with a relief valve and vented outside of the driver's compartment. Bottles must be permanently mounted (no hose clamps or tie wraps). Hoses from bottle(s) to the solenoid must be high-pressure steel braided hoses. External heating of the bottle(s), other than with the use of an approved electric blanket, is prohibited. **See GSR 1.9 and 9.7.**

SC 1.7 SUPERCHARGER, TURBOCHARGER

Permitted only when gasoline, petrol, methanol, ethanol or diesel is used as fuel. Restricted to standard Roots type. See GSR: 1.12, 1.13, 2.13 and 4.8.

SC 1.8 THROTTLE

Throttle control must be manually operated by driver's foot. Electronics, pneumatics, hydraulics, lasers or any other devices may in no way affect the throttle operation. Timed throttle stops, which are pre-set before the run permitted. See GSR: 1.14

SC 1.9 VALVE COVERS

Cast or fabricated metal valve covers using all attachment bolt holes mandatory.

130



DRIVE TRAIN: SC 2 SC 2.1 CLUTCH. FLYWHEEL. FLYWHEEL SHIELD

Flywheel and clutch meeting SFI Spec 1.1, 1.2, 1.3, or 1.4 (2-discs maximum) is mandatory. Flywheel shield meeting SFI Spec 6.2 or 6.3 mandatory on all cars using SFI Spec 1.3 or 1.4 clutches. Flywheel shield meeting minimum SFI Spec 6.1 mandatory on all other cars. Cars with rotary engines must be equipped with a flywheel shield made of 6.35 mm (1/4-inch) minimum thickness steel plate surrounding the bell housing 360 degrees or a flywheel shield shield SFI Spec 6.1, 6.2 or 6.3. See GSR: 2.3, 2.5, 2.6 and 2.10.

SC 2.2 DRIVELINE

Driveline loop mandatory. See GSR: 2.4

SC 2.3 REAREND

After market axles and axle retention device are mandatory on any car running 10.99 (*6.99) or quicker and any car with locked differential. Cars running 10.99 (*6.99) or quicker that weigh more than 2000 pounds (907 kg) and have independent rear suspension without upper and lower (both) control arms must replace swing axle rear end with conventional rear end housing (example 1963 to 1983 Corvette). Cars with independent rear suspension using upper and lower (both) control arms may retain swing axle assembly regardless of weight. Cars must have 360 degree, minimum 1-inch wide by ¼-inch thick retention loop on each axle. Quick-change and/or locked differential permitted. See GSR 2.2 and 2.11.

SC 2.4 TRANSMISSION, AFTERMARKET PLANETARY

Transmission blanket meeting SFI Spec 4.1 is mandatory on cars using Nitrous Oxide, Turbocharger or Supercharger. *See GSR:* 2.13.

SC 2.5 TRANSMISSION, AUTOMATIC

Spring-loaded, positive reverse lockout device and functional neutral safety switch mandatory. Trans brake permitted. Automatic transmission flex-plate meeting SFI Spec 29.1 mandatory. **See GSR: 2.14.**

SC 2.6 TRANSMISSION SHIELD, AUTOMATIC

Automatic transmission shield meeting SFI Spec 4.1 is mandatory. Automatic transmission flex-plate shield meeting SFI Spec 30.1 is mandatory. *See GSR: 2.14.*

BRAKES & SUSPENSION: SC 3 SC 3.1 BRAKES

Minimum two rear-wheel hydraulic brakes (disc brake) are mandatory. Four-wheel brakes are recommended. Four-wheel brakes are mandatory on cars with rear suspension. Hand brake,

131



if used must be located inside of body or drivers compartment. See GSR 3.1

SC 3.2 STEERING See GSR: 3.3 and 4.1.

SC 3.3 SUSPENSION

Any automotive suspension permitted. Rigid-mount front axles permitted if wheelbase is 3048 mm (120 inch) or more. Rigid-mounted rear axles permitted. Any front suspension using a beam or tubular type axle must have radius rods attached to frame. Radius rods not required on front axles rigidly mounted 457 mm (18 inch.) or less from front king pin axis.

See GSR: 3.2, 3.4 and 3.5.

SC 3.4 TRACTION BARS

Permitted. See GSR: 3.5.

SC 3.5 WHEELIE BARS

Permitted. Wheels must be non-metallic. See GSR: 3.6.

FRAME: SC 4

SC 4.1 BALLAST

Permitted. See GSR: 4.2.

SC 4.2 DEFLECTOR PLATE

Must be installed between roll cage and engine on all rear-engine cars to protect driver and fuel tank. Minimum material thickness: 3 mm (1/8 inch) T6 aluminium or 1.5 mm (0.06 inch) steel. Optional. *See GSR: 1.1 and 4.3.*

SC 4.3 GROUND CLEARANCE

Minimum 76 mm (3 inch) from front of car to 305 mm (12 inch) behind centreline of front axle, 51 mm (2 inch) for remainder of car, except oil pan and exhaust headers. **See GSR: 4.5.**

SC 4.4 PARACHUTE

Mandatory. See GSR: 4.8.

SC 4.5 PINION SUPPORT

Mandatory on all front-engine cars. See GSR: 4.9.

SC 4.6 ROLL CAGE

Mandatory. Type depending on body style. Chassis must be checked every three years. See GSR: 4.4, 4.11, 4.11.1, 4.11.2, 10.6 and 10.7.

SC 4.7 WHEELBASE & TREAD WIDTH

Minimum wheelbase 2286 mm (90 inch). Maximum wheelbase variation from left to right: 51 mm (2 inch). Minimum front tread width 660 mm (26 inch) on any Dragster.

132

ແດງ

MOTOLIS DOLLANG

TYRE & WHEELS: SC 5

SC 5.1 TYRES

Racing slicks permitted. Minimum diameter of 13-inches on front tyres of any Dragster. Front tyres **See GSR: 5.1**.

SC 5.2 WHEELS

Wire wheels permitted on front of Dragsters only, provided total weight of car does not exceed 817 kg (1800 lbs). See GSR: 5.2.

INTERIOR: SC 6

SC 6.1 SEATS

Properly braced, framed and supported seats constructed of aluminium, Fiberglas, double layer poly or carbon fibre (automotive accessory seats permitted). One seat mandatory. *See GSR: 6.2.*

SC 6.2 SHEET METAL

Driver's compartment interior must be aluminium or steel. Magnesium prohibited.

SC 6.3 TONNEAU COVER

Covers over driver compartment and/or pickup bed permitted if driver entry or exit is not restricted.

SC 6.4 UPHOLSTERY Optional.

SC 6.5 WINDOW NET

Mandatory in full bodied cars. See GSR: 6.3.

BODY: SC 7

SC 7.1 AIR FOILS, WINGS

Permitted. Aftermarket or homemade front spoilers or air dam may not project more than 762 mm (30 inch) ahead of front spindle centreline. On Funny Car type cars and full bodied cars the body, or anything else may not project more than 1016 mm (40 inch) ahead of front spindle centreline. **See GSR: 7.2.**

SC 7.2 BODY

Body and cowl must be metal, Fiberglas or carbon fibre and must extend to firewall. Driver compartment, frame structure, roll cage and body must be designed to prevent driver's body or limbs from making contact with wheels, tires, exhaust system or track surface. If driver's body is in contact with belly pan, a crossmember and sub-floor are mandatory. On full-bodied cars, hood scoop may not extend more than 279 mm (11 inch) above height of original hood surface. On open bodied, front-engine cars, hood scoop may not extend more than 279 mm (11 inch) above height of carburettor top. **See GSR: 1.4 and 7.7**.

SC 7.3 FIREWALL Mandatory. See GSR: 6.1 and 7.5.

133



SC 7.4 FLOOR

Mandatory. See GSR: 7.6.

SC 7.5 WINDSCREEN

Cars without a windshield must have a metal or other flame-proof deflector installed. See GSR: 7.8.

SC 7.6 WINDSHIELD, WINDOWS

Cars with top and windshield must be equipped with all windows. All windshields and windows except for windscreen must be clear or factory tinted safety glass or clear Plexiglas or other shatterproof material, 3.0mm (1/8-inch) minimum thickness. Plexiglas in windscreen prohibited, must be made of poly-carbonate (Lexan or equal). Original Safety glass permitted. Identification decals permitted on rear quarter windows, rear window, and upper corner passenger side front windscreen. **See GSR: 7.9.**

ELECTRICAL: SC 8

SC 8.1 BATTERIES

All batteries must be securely mounted with metal hold-downs outside the driver compartment. *See GSR: 8.1.*

SC 8.2 DELAY BOX/DEVICE

Permitted, one box/device only, attached to trans-brake, shift timer and/or throttle timer only. Any other attachment prohibited. Delay box may only display delay amount dialled in, analogue or digital display permitted. All direct wiring must be clearly identifiable to tech inspector. **See GSR: 8.2.**

SC 8.3 IGNITION

Timed ignition interruption devices (stutter boxes) prohibited. Starting line and/or "high side" rev limiters permitted. Two-Steps, Rev Limiters or any other rpm limiting devices are legal unto themselves. However use of these devices as a down-track rpm (speed) controller is prohibited. See GSR: 8.3.and 8.5

SC 8.4 MASTER CUT-OFF

Mandatory. See GSR: 8.4.

SC 8.5 TAIL LIGHTS

All cars must have one functional tail light for night operations. See GSR: 8.6.

SUPPORT GROUP: SC 9

SC 9.1 COMPUTER

Prohibited. See GSR: 9.1 and 9.2.

SC 9.1.1AUTOMATED SHIFTERS Permitted. See GSR: 9.1.1

134

 \mathbb{O}

MOTOLIS DOLLANG

SC 9.3 FIRE EXTINGUISHER SYSTEM

Permitted, must be securely mounted. See also GSR: 9.3

SC 9.3 PUSH START

Prohibited. See GSR: 9.8.

SC 9.4 TOW VEHICLES Permitted. See GSR: 9.9.

SC 9.5 WARM-UPS See GSR: 9.4 and 9.11. DRIVER: SC 10

SC 10.1 ARM RESTRAINTS

Mandatory in all open-bodied cars and Funny Cars. See GSR: 10.3.

SC 10.2 LICENCE

Drag Race Licence mandatory. See GSR: 10.4.

SC 10.3 DRIVER RESTRAINT SYSTEM

SFI Spec 16.1, 16.5 or FIA Standard 8853/98, 8853-2016 mandatory. See GSR: 10.5.

SC 10.4 HEAD PROTECTOR

Mandatory. See GSR: 10.6.

SC 10.5 HELMET

See GSR: 10.7 and Motorsport UK Competitors year book (Blue book).

SC 10.6 NECK COLLAR

Mandatory. SFI 38.1 or FIA Standard 8856-2002, 8856-2010 head and neck restraint device can be used

See GSR: 10.8.

SC 10.7 PROTECTIVE CLOTHING

Jacket, pants, or suit meeting SFI Spec 3.2A/5 or FIA standard 8856-2000, 8856-2018 mandatory.

Front engine, supercharged, open bodied car, OR any car with an automatic transmission in drivers compartment (no floor covering transmission) - jacket and pants or suit meeting SFI spec 3.2A/15, gloves and boots or shoes meeting SFI spec 3.3/5 or FIA Standard 8856-2000, 8856-2018 mandatory. See GSR: 10.10

135

()

MOTOLESOOLT OK



Andy Hone 2018 Comp Eliminator Champion

Competition Eliminator category is for qualified cars in A/D, A/DA, B/D, B/DA, C/D, C/DA, D/D, D/DA, E/D, E/DA, F/D, F/DA, G/D, G/DA, DT/D, ET/D, FT/D, AA/D, AB/D, BA/D, BB/D, CA/D, CB/D, DA/D, DB/D, EA/D, EB/D, FA/D, FB/D and BN/D Dragster; A/A, B/A, C/A, D/A, E/A, F/A, G/A, H/A, I/A, AT/A, BT/A, CT/A, DT/A, AA/A, AB/A, BA/A, BB/A, CA/A, CB/A, DA/A, DB/A, AN/A, BN/A, CN/A, DN/A, A/PM and AA/PM Altered (51 Classes). Eliminations are based on a handicap start utilising class index system, breakout does not apply.

DRAGSTERS

DESIGNATION:

A/D, B/D, C/D, D/D, E/D, F/D, G/D, D/TD, E/TD, F/TD, A/AD, A/BD, B/AD, B/BD, C/AD, C/BD, D//D, D/BD, E/AD, E/BD, F/AD, F/BD and B/ND preceded by car number. For Starting numbers: **See GSR: 7.3**

26 classes for Dragsters built for competition only. Class is decided from the cars weight incl. driver divided with the size of the engine.

136

motorsport uk

Class	Kg /litre	Min. weight (kg	Note
A/D	94 - 110	612	
B/D	111 - 124	612	
C/D	125 - 137	612	
D/D	138 - 193	1), 2), 3)	
E/D	194 - 231	2), 3)	Max. 6-cyl.
F/D	232 -	386	Max 2.54 litre
G/D	232-	386	Max 2.54 litre, opposed 4-cyl. Engine only.
H/D	271-	817	Only Turbocharged,6-8 cyl, 2 or 4 valve
I/D	318-	680	Only Turbocharged 4 cyl 2 or 4 valve
J/D	152-		5 or 6 cyl inline or opposed 4 valve only
DT/D	255 - 358	1), 2), 3)	Only Turbocharged
ET/D	359 - 428	2), 3)	Only Turbocharged Max. 6-cyl.
FT/D	429 -	386	Only Turbocharged Max. 4-cyl.
AA/D	150 - 177	1), 2), 3)	Only Supercharged, Roots High Helix
AB/D	150 - 177	1), 2), 3)	Only Supercharged, Standard Roots
BA/D	178 - 199	1), 2), 3)	Only Supercharged, Roots High Helix
BB/D	178 - 199	1), 2), 3)	Only Supercharged, Standard Roots
CA/D	200 - 220	1), 2), 3)	Only Supercharged, Roots High Helix
CB/D	200 - 220	1), 2), 3)	Only Supercharged, Standard Roots
DA/D	200 - 309	1), 2), 3)	Only Supercharged, Roots High Helix
DB/D	221 - 309	1), 2), 3)	Only Supercharged, Standard Roots
EA/D	310 - 370	1), 2), 3)	Only Supercharged, Roots High Helix
EB/D	310 - 370	1), 2), 3)	Only Supercharged, Standard Roots
FA/D	371-	1), 2), 3)	Only Supercharged, Roots High Helix
FB/D	371 -	1), 2), 3)	Only Supercharged, Standard Roots
BN/D	160 -	612	Only Nitrous Oxide

Minimum Weight

1) 612 kg (1349 lbs), Cars with V8.

2) 454 kg (1000 lbs), Cars with maximum 6 cylinders.

3) 386 kg (850 lbs), Cars with maximum 4 cylinders.

Maximum weight: 1100 kg. (2425 lbs)

For calculations from kg to lbs use: 1 kilogram = 2.2045855 lbs.

REQUIREMENTS AND SPECIFICATIONS ENGINE: D 1

D 1.1 ENGINE

Any automotive engine permitted, maximum one engine. Supercharger, turbocharger and nitrous oxide prohibited, except for where the class definition permits, but never as a combination. Cast harmonic balancer prohibited. Harmonic balancer meeting SFI spec 18.1, or steel billet harmonic balancer made in one piece mandatory. **See GSR: 1.2.**

D 1.2 EXHAUST SYSTEM

Competition exhaust systems permitted. Exhaust must be directed out of body to rear, away from driver and fuel tank. See GSR: 1.3.

137

) motorsport uk

D 1.3 FUEL

Only Gasoline, petrol and methanol meeting Motorsport UK specifications permitted. Nitrous oxide prohibited except in BN/D Dragster. Propylene oxide prohibited. See GSR: 1.6, 1.6.1, 1.8, 1.9 and 1.11.

D 1.4 FUEL SYSTEM

Electronic fuel injection system of OEM type produced by car manufacture for original use permitted. Fuel injection is only allowed to monitor information from engine. Fuel lines must be isolated from driver's compartment. Artificial cooling or heating of fuel prohibited. Circulating pumps and/or systems is prohibited if it isn't part of OEM fuel system. **See GSR: 1.5 and 1.5.1**

D 1.4.1 INDUCTION

Any induction system permitted. Electronic fuel injection must be OEM. Type, i.e. may only monitor engine functions.

D 1.5 LIQUID OVER-FLOW

Mandatory. See GSR: 1.7

D 1.6 OIL SYSTEMS

Dry sump oil system permitted. External single-stage oil pumps permitted, may be combined with other pump functions. Minimum catch-can capacity 0.5 litres. Mandatory. *See GSR: 1.10.*

D 1.7 THROTTLE

Throttle control must be manually operated by driver's foot. Electronics, pneumatics, hydraulics, lasers or any other devices may in no way affect the throttle operation. *See GSR: 1.14*

D 1.8 SUPERCHARGER

Only permitted in AA/D, AB/D, BA/D, BB/D, CA/D, CB/D, DA/D, DB/D, EA/D, EB/D, FA/D and FB/D Dragster. See GSR: 1.12, 1.13, 2.13 and 4.8. See also ET1.7

D 1.9 TURBOCHARGER

Only Commercially available turbochargers permitted and only in, H/D, I/D, DT/D, ET/D and FT/D Dragster. All grinding and/or altering of turbocharger housing prohibited.

See GSR: 2.13 and 4.8.

H/D and I/D classes only-. H/D limited to 6-cylinder, single turbo applications limited to a maximum 91mm; 6-cylinder, twin turbo applications limited to a maximum 76mm; 8-cylinder, smallblock twin turbo applications limited to a maximum 78mm; 8cylinder, big-block twin turbo applications limited to a maximum 82mm. I/D limited to maximum single 76mm turbocharger only (twin turbo's prohibited).

D 1.10 VENT TUBE BREATHERS

Mandatory. See GSR: 1.15.

138



D 1.11 NITROUS OXIDE

Only Commercially available nitrous oxide systems permitted, in BN/D Dragster only. Prohibited in all other classes. Nitrous bottle(s) must be equipped with a relief valve and vented outside of the car. Nitrous bottles in driver compartment must be equipped with a relief valve and vented outside of driver's compartment. Bottles must be permanently mounted (no hose clamps or tie wraps). Hoses from bottle(s) to solenoid must be high pressure steel braided hoses. External heating of bottle(s) other than with electric blanket for the proper use prohibited. See GSR: 1.9 and 9.7.

DRIVE TRAIN: D 2

D 2.1 CLUTCH, FLYWHEEL, FLYWHEEL SHIELD

Flywheel and clutch meeting SFI Spec 1.1 or 1.2 (2-disc maximum) and flywheel shield meeting SFI Spec 6.1, 6.2 or 6.3, or flywheel and clutch meeting SFI Spec 1.2 (3 or more discs) and flywheel shield meeting minimum SFI Spec 6.2 or 6.3 mandatory. The use of multi-stage, lock-up-type clutches is prohibited. Flywheel shield cannot be welded into the car and/or (used as crossmember) frame. Frame and/or body braces cannot be welded to flywheel shield. Clutch release must be manually operated by driver's foot; electronics, pneumatics, hydraulics or any other device may in no way affect the clutch operation. *See GSR 2.3, 2.5, 2.6 and 2.9.*

D 2.2 DRIVELINE

Anti-blowback device mandatory in A/D, B/D, C/D, D/D, DT/D, ET/D, FT/D, AA/D, AB/D, BA/D, BB/D, CA/D, CB/D, DA/D, DB/D, EA/D, EB/D, FA/D, FB/D and BN/D Dragster. *See GSR: 2.1 and 2.4*

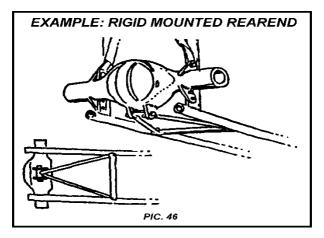
D 2.3 REAREND

Aftermarket axles and axle-retention device for drag racing use mandatory. Spool permitted. Full-floating or live axle assembly recommended. See GSR: 2.2, 2.11. And PIC. 46.

139

((C)))

MOTOLICIAN MOTOLICA



D 2.4 TRANSMISSION

Clutchless transmissions permitted. Any automotive type aftermarket planetary or manual-type transmission with maximum of five forward speeds permitted. Maximum 3 forward speeds allowed for automatic type transmissions. Reverse gear is mandatory. Automated shifters and/or timer-type shifting devices on manual-type transmissions prohibited, each individual shift must be a function of the driver. Shifting of a manual-type transmission may only be controlled by either manual or pneumatic means; electric or electronics may in no way affect the shifting mechanism. Air shifter bottles must be securely mounted. Automatic transmissions must have a inside oil pump and clutch packs which control the gearing along with bands to be deemed as an automatic transmission. Overdrive/under drive units, motorcycle, snowmobile or farm implements type transmission are prohibited. See GSR: 2.12, 2.13, 2.14 and 9.7.

D 2.4.1 WEIGHT ADJUSTMENT, AUTOMATICS

Cars with automatic transmission and fully working converter are allowed to take off weight from the calculated class weight as follows: A/D 45 kg, B/D 65 kg, C/D 85 kg, D/D 100 kg, E/D, F/D and G/D 45 kg. All other classes are not allowed to take off any weight. To be noticed is that cars can never weigh less than minimum weight.

D 2.5 TRANSMISSION SHIELD, AUTOMATIC

Automatic transmission shield meeting SFI Spec 4.1 is mandatory. Automatic transmission flexplate meeting SFI Spec 29.1 is mandatory. Automatic transmission flexplate shield meeting SFI Spec 30.1 is mandatory. **See GSR: 2.14.**

BRAKES & SUSPENSION: D 3

D 3.1 BRAKES

Minimum two rear-wheel hydraulic brakes (disc brake) are mandatory. Four-wheel brakes are recommended. Hand brake, if

140

www.motorsportuk.org 🔊 motorsport uk

used must be located inside of body or drivers compartment. Steel brake lines, steel braided or in accordance with DOT, DIN/ISO mandatory. All brake lines passing engine on any car must be shielded. **See GSR: 3.1**

D 3.2 STEERING

A device must be used to prevent long steering shaft from injuring driver in case of frontal impact. See GSR: 3.3 and 4.1.

D 3.3 SUSPENSION

Any automotive suspension permitted. Rigid-mount front axles permitted if wheelbase is 3048 mm (120 inch) or more. Rigid-mounted rear axles permitted. Any front suspension using a beam or tubular type axle must have radius rods attached to frame. Radius rods not required on front axles rigidly mounted 457 mm (18 inch.) or less from front king pin axis. *See GSR: 3.2, 3.4 and 3.5.*

D 3.4 WHEELIE BARS

Permitted. Wheels must be non-metallic. See GSR: 3.6.

FRAME: D 4

D 4.1 BALLAST

Permitted. See GSR: 4.2.

D 4.2 DEFLECTOR PLATE

Must be installed between roll cage and engine on all rear-engine cars to protect driver and fuel tank. Minimum material thickness: 3 mm (1/8 inch) T6 aluminium or 1.5 mm (0.06 inch) steel. Optional. See GSR: 1.1 and 4.3.

D 4.3 GROUND CLEARANCE

Minimum 76 mm (3 inch) from front of car to 305 mm (12 inch) behind centreline of front axle, 51 mm (2 inch) for remainder of car, except oil pan and exhaust headers. *See GSR: 4.5.*

D 4.4 PARACHUTE

Mandatory. See GSR: 4.8.

D 4.5 PINION SUPPORT

Mandatory on all front-engine cars. See GSR: 4.9.

D 4.6 ROLL CAGE

Mandatory in accordance with picture 22-26 *GSR 4.11.2.* Cars in classes A/D, B/D, AA/D, AB/D, BA/D, BB/D and BN/D must meet SFI Spec 2.1A or 2.2C, 2.5C or 2.4C.

Chassis must be inspected every three years. See GSR: 4.4, 4.11, 4.11.1, 4.11.2, 10.6 and 10.7.

D 4.6.1 ROLL CAGE Cars running 8.49 (*5.09) – 7.50 (*4.50) or quicker Rear Engine Dragster: SFI 2.7A Front Engine Dragster: SFI 2.6

141

((()))

MOTOLIS DOLLANG

D 4.7 WHEELBASE & TREAD WIDTH

Minimum wheelbase 2286 mm (90 inch). Maximum wheelbase variation from left to right: 51 mm (2 inch). Minimum front tread width 660 mm (26 inch).

TYRE & WHEELS: D 5

D 5.1 TYRES

Racing slicks mandatory. Minimum diameter of 13-inches on front tyres of any Dragster. *See GSR: 5.1.*

D 5.1.1 FRONT TYRES

Motorcycle tyre for high speed use Avon 2, 25 S17 or 2, 50 S17 are permitted only in E/D, F/D and G/D Dragster. *See GSR: 5.1.*

D 5.2 WHEELS

Wire wheels permitted on front of Dragsters only, provided total weight of car does not exceed 817 kg (1800 lbs). See GSR: 5.2.

INTERIOR: D 6

D 6.1 UPHOLSTERY

Optional. Magnesium prohibited.

D 6.2 SEATS See GSR: 6.2. BODY: D 7 D 7.1 AIR FOILS, WINGS

Side-mounted canard-type units permitted, securely mounted. No part of canards/wings may be within 152 mm (6 inch) of any tire. Frontal air dam permitted. Maximum projection ahead of spindle centre-line: 762 mm (30 inch). Width cannot exceed front tread width. Maximum rise: 254 mm (10 inch). Projection behind front axle, outside of frame rails prohibited. Spill plates permitted, not to exceed 229 mm (9 inch) in height. Ground clearance must be 76 mm (3 inch). Maximum wing size 0,645 m^a (1000 square inches). Any adjustment or movement during run prohibited. **See GSR: 7.2**.

D 7.2 BODY

Body and cowl must be metal, Fiberglas or carbon fibre and must extend to firewall. Driver compartment, frame structure, roll cage and body must be designed to prevent driver's body or limbs from making contact with wheels, tires, exhaust system or track surface. If driver's body is in contact with belly pan, a crossmember and sub-floor are mandatory. Altered-type bodies prohibited.

Driver's legs must be retained inside frame by sub-flooring, or other retaining device that is independent of car's body. On open-wheeled, front-engine cars, hood scoop may not extend more than 279 mm (11 inch) above height of carburettor top. **See GSR: 1.4** and 7.7.

142

 (\bigcirc)

MOTOLIS DOLLANG

D 7.3 FRONT-WHEEL FAIRINGS

Prohibited.

D 7.4 WINDSCREEN

Mandatory. See GSR: 7.8.

ELECTRICAL: D 8 D 8.1 BATTERIES

All batteries must be securely mounted with metal hold-downs outside the driver compartment. See GSR: 8.1.

D 8.2 DELAY BOX/DEVICE

Prohibited. See GSR: 8.2.

D 8.3 IGNITION

See GSR: 8.3.

D 8.4 MASTER CUT-OFF

Mandatory on all cars with a battery. See GSR: 8.4.

D 8.5 TAIL LIGHTS

All cars must have one functional tail light for night operations. See GSR: 8.6.

SUPPORT GROUP: D 9

D 9.1 COMPUTER

Permitted. See GSR: 9.1 and 9.2. D 9.2 FIRE EXTINGUISHER

Permitted. Mandatory on cars with closed driver's compartment. Minimum capacity 2.5 kg. Hand held fire extinguisher prohibited. *See GSR: 9.3.*

D 9.3 PUSH START

Prohibited. See GSR: 9.8.

D 9.4 TOW VEHICLES

Permitted. See GSR: 9.9.

D 9.5 WARM-UPS

See GSR: 9.4 and 9.11. D 10.1 ARM RESTRAINTS Mandatory. See GSR: 10.3.

D 10.2 LICENCE

Drag Race Licence mandatory. See GSR: 10.4.

D 10.3 DRIVER

Any location permitted if in compliance with **GSR**. Any car with no crossmember above driver's legs must have a strap or device to prevent legs from projecting outside chassis.

143

 (\bigcirc)

MOTOLIS DOLLANG

D 10.4 DRIVER RESTRAINT SYSTEM

SFI Spec 16.1, 16.5 or FIA Standard 8853/98, 8853-2016 mandatory. See GSR: 10.5.

See GSR: 10.5.

D 10.5 HEAD PROTECTOR

Mandatory. See GSR: 10.6.

D 10.6 HELMET

See GSR: 10.7 and Motorsport UK Competitors year book (Blue book).

D 10.7 NECK COLLAR

Mandatory. SFI 38.1 or FIA Standard 8856-2002, 8856-2010 head and neck restraint device can be used **See GSR: 10.8.**

D 10.8 PROTECTIVE CLOTHING

Front engine, supercharged or turbocharged, closed bodied car, OR any car with an automatic transmission in driver compartment (no floor covering transmission): Jacket and pants or suit meeting SFI spec 3.2A/15, gloves meeting SFI spec 3.3/5 or FIA Standard 8856-2000, 8856-2018 and boots or shoes meeting SFI spec 3.3/15 mandatory.

Front engine, supercharged or turbocharged open bodied car: Jacket and pants or suit meeting SFI spec 3.2A/20, gloves meeting SFI spec 3.3/5 or FIA Standard 8856-2000, 8856-2018 and boots or shoes meeting SFI spec 3.3/15 mandatory. Front engine car equipped with nitrous oxide: Jacket and pants or suit meeting SFI spec 3.2A/15, gloves and boots or shoes meeting SFI spec 3.3/5 or FIA Standard 8856-2000, 8856-2018 mandatory.

Rear engine car equipped with nitrous oxide and/or turbocharged or supercharged: Jacket and pants or suit meeting SFI spec 3.2A/15, gloves and boots or shoes meeting SFI spec 3.3/5 or FIA Standard 8856-2000, 8856-2018 mandatory.

Naturally aspirated car: i.e. all others: Jacket and pants or suit meeting SFI spec 3.2A/5 or FIA standard 8856-2000, 8856-2018 and gloves meeting SFI spec 3.3/5 or FIA standard 8856-2000, 8856-2018 mandatory. See also GSR 10:10

ALTERED CARS

DESIGNATION:

A/A, B/A, C/A, D/A, E/A, F/A, G/A, H/A, I/A, AT/A, B/TA, C/TA, D/TA, A/AA, A/BA, B/AA, B/BA, C/AA, C/BA, D/AA, D/BA, A/NA, B/NA, C/NA, D/NA, A/PM and AA/PM preceded by car number. For Starting numbers: **See GSR: 7.3**

144

 (\bigcirc)

MOTOLIS DOLLANG

Altered type 1: Open Altereds and Funny Cars built for competition use only, the body of a type originally produced by an automobile manufacturer. Typical for these cars is central steering and flip-body. For A/A, B/A, A/AA, A/BA, A/TA, A/NA and B/NA, chassis must meet SFI Spec. 10.1D

Altered type 2: Very modified or special made cars. With Stock appearance. Full body with operating doors, or Roadsters with fenders that cover all wheels. Must have Suspension and brakes at each wheel. For A/A, B/A, A/AA, A/BA, A/TA, A/NA, B/NA, A/PM and AA/PM chassis must meet SFI Spec. 25.1E

Class	Kg /litre	Min. weight (kg	Note
A/A	94 - 129	1), 2)	V8 ONLY
B/A	130 - 149	1), 2)	V8 ONLY
C/A	150 - 179	952	V8 ONLY
D/A	180 - 207	952	V8 ONLY
E/A	208 - 234	952	True wedge cyl heads inline & parallel valves only V8 ONLY
F/A	235 - 262	952	V8 ONLY
G/A	263 - 290	952	V8 ONLY
H/A	291 - 317	952	V8 ONLY
I/A	318-	907	V4 & V6 ENGINES ONLY
J/A	152-	635	Inline or opposed 5 & 6 cyl engines only
K/A	152-	499	Inline 4 cyl 2 valve engines only
L/A	276-	726	Inline 4 cyl 2 valve engines
L/A	290	726	Inline 4 cyl 4 valve engines
AA/AF		793	Max 2507cc 4 cyl turbocharged engine 4 valve only FULL TUBE CHASSIS ONLY, see below for further details
BB/AF		930	Max 2507cc 4 cyl turbocharged engine 4 valve only ONLY, FULL TUBE CHASSIS PROHIBITED, see below for further details
AA/A	150 - 207	1), 2)	Only Supercharged, Roots High Helix
AB/A	150 - 207	1), 2)	Only Supercharged, Standard Roots
BA/A	208 - 299	3), 4), 6)	Only Supercharged, Roots High Helix
BB/A	208 - 299	3), 4), 6)	Only Supercharged, Standard Roots
BB/AM	208-	680	Supercharged small block only; Methanol
BB/AT	227-	3),6)	Only Turbocharged
CC/AT	371-	1111/ : V	Turbocharged 6 cyl, 4 valve engines, Full bodied cars only
DD/AT	454-	907	Turbocharged 4cyl 4 valve engines, Full bodied cars only
C/AA	300 - 399		Only Supercharged, Roots High Helix
CB/A	300 - 399		Only Supercharged, Standard Roots
CC/A	221-	1224	Centrifugal supercharger only, full bodied cars only
D/A	400 -		Only Supercharged, Roots High Helix
DB/A	400 -	1	Only Supercharged, Standard Roots
AT/A	163 - 226	1), 2)	Only Turbocharged
BT/A	227 - 349	3), 4), 6)	Only Turbocharged

27 Classes. Class is determined from the car's weight incl. driver divided by the size of the engine.

145



CT/A	350 - 499		Only Turbocharged
DT/A	500 - 649		Only Turbocharged
ET/A	650-		Only Turbocharged
DD/TA			
AN/A	110 - 139	1), 2)	Only Nitrous Oxide
BN/A	140 - 169	1), 2)	Only Nitrous Oxide
CN/A	170 - 199	1), 2)	Only Nitrous Oxide
DN/A	200 -		Only Nitrous Oxide
A/PM	*	1100	Only Nitrous Oxide Max. 910 cui
AA/PM	*	1179	Only Supercharged Max. 526 cui
AT/PM	*	1202	Max 526 cui

*A/PM, AA/PM and AT/PM class, technical & safety regulations as per Pro Modified.

Minimum Weight

- 1) Altered Cars type 1. 680kg (1500 lbs.)
- 2) Altered Cars type 2. 1066kg (2350 lbs.)
- 3) V8-cars, 950kg (2095 lbs.).
- 4) Maximum 6-cylinders, 900 kg (1984 lbs.).
- 5) Maximum 4-cylinders, 500 kg (1102 lbs.).
- 6) Maximum 4 cylinders, 612 kg (1349 lbs.)

Maximum weight: 1350 kg. (2976 lbs.)

For calculations from kg to lbs. use: 1 kilogram = 2.2045855 lbs. AA/AF-BB/AF Competitors wishing to using larger displacement engines can do so, to a maximum of 2884cc must add 44kg per 100cc displacement increase from 2507cc to the 2884cc maximum.

REQUIREMENTS AND SPECIFICATIONS ENGINE: A 1

A 1.1 ENGINE

One internal combustion, reciprocating, automobile-type engine permitted. Super-charger, turbocharger and nitrous oxide prohibited, except for where the class definition permits, but never as a combination. Engine must be in front of driver

(Rear engine mounting plate must be in front of the driver's feet). Cast harmonic balancer prohibited. Harmonic balancer meeting SFI spec 18.1, or steel billet harmonic balancer made in one piece mandatory. *See GSR: 1.2.*

A 1.2 EXHAUST SYSTEM

Competition exhaust systems permitted. Exhaust must be directed out of body to rear, away from driver and fuel tank. See GSR: 1.3.

A 1.3 FUEL

Only Gasoline, petrol and methanol meeting Motorsport UK specifications permitted. Nitrous oxide prohibited except in AN/A, BN/A, CN/A, DN/A and A/PM Altereds. Propylene oxide prohibited. **See GSR: 1.6, 1.6.1, 1.8, 1.9 and 1.11.**

146

 (\bigcirc)

MOTOLICIAN CONTRACTOR

A 1.4 FUEL SYSTEM

Electronic fuel injection system of OEM type produced by car manufacture for original use permitted. Fuel lines must be isolated from driver's compartment. Artificial cooling or heating of fuel prohibited. Circulating pumps and/ or systems prohibited if it isn't part of OEM fuel system. For Altered Cars type-2 fuel-cell mandatory. Fuel-cell meeting FIA/FT3, FT3.5, FT5-1999 or SFI Spec 28.1 recommended. **See GSR: 1.5 and 1.5.1**

A 1.4.1 INDUCTION

Any induction system permitted. Electronic fuel injection must be closed OEM type system, i.e. may only monitor engine functions. Monitoring of vehicle performance criteria, wheel speed, driveshaft speed, etc, by fuel injection system prohibited. System must be FIA/Motorsport UK accepted.

A 1.5 LIQUID OVERFLOW

Mandatory, Minimum catch can capacity 0.5 litres. See GSR: 1.7

A 1.6 OIL SYSTEMS

Dry sump oil system permitted. External single-stage oil pumps permitted, may be combined with other pump functions. *See GSR: 1.10.*

A 1.7 THROTTLE

Throttle control must be manually operated by driver's foot. Electronics, pneumatics, hydraulics, lasers or any other devices may in no way affect the throttle operation. *See GSR: 1.14*

A 1.8 SUPERCHARGER

Only permitted in AA/A, AB/A, BA/A, BB/A, CA/A, CB/A, DA/A, DB/A and AA/PM altered. See GSR: 1.12, 1.13, 2.13 and 4.8. See also ET 1.7

A 1.9 TURBOCHARGER

Only Commercially available turbochargers permitted and only in AT/A, BT/A, CT/A and DT/A Altereds. All grinding and/or altering of turbocharger housing prohibited. *See GSR: 2.13 and 4.8.*

A 1.10 VENT TUBE BREATHERS

Mandatory 3.8 ltr(1 US Gallon) See GSR: 1.15.

A 1.11 NITROUS OXIDE

Only Commercially available nitrous oxide systems permitted, but only in AN/A, BN/A, CN/A, DN/A Altereds and in A/PM. Prohibited in all other classes. Nitrous bottle(s) must be equipped with a relief valve and vented outside of the car. Nitrous bottles in driver compartment must be equipped with a relief valve and vented outside of driver's compartment. Bottles must be permanently

147

 (\bigcirc)

MOTOLICIAN MOTOLICA

mounted (no hose clamps or tie wraps). Hoses from bottle(s) to solenoid must be high pressure steel braided hoses. External heating of bottle(s) other than with electric blanket for the proper use prohibited.

See GSR: 1.9 and 9.7.

DRIVE TRAIN: A 2 A 2.1 CLUTCH, FLYWHEEL, FLYWHEEL SHIELD

Flywheel and clutch meeting SFI Spec 1.1 or 1.2 (2-disc maximum) and flywheel shield meeting SFI Spec 6.1, 6.2 or 6.3, or flywheel and clutch meeting SFI Spec 1.2 (3 or more discs) and flywheel shield meeting minimum SFI Spec 6.2 or 6.3 mandatory. The use of multi-stage, lock-up-type clutches is prohibited. Flywheel shield cannot be welded into the car and/or (used as crossmember) frame. Frame and/or body braces cannot be welded to flywheel shield. Clutch release must be manually operated by driver's foot; electronics, pneumatics, hydraulics or any other device may in no way affect the clutch operation. See GSR 2.3, 2.5, 2.6 and 2.9.

A 2.2 DRIVELINE See GSR: 2.4

A 2.3 REAREND

Aftermarket axles and axle-retention device for drag racing use mandatory. Spool permitted. Full-floating or live axle assembly recommended. Cars over 900 kg (2000 lbs.) with swing axle rearend prohibited.

See GSR: 2.2, and 2.11. And PIC. 47

A 2.4 TRANSMISSION

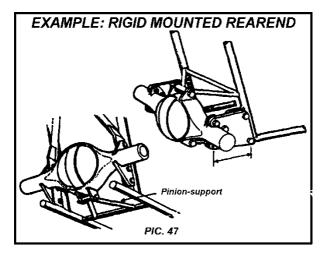
Clutchless transmissions permitted. Any automotive type aftermarket planetary or Manual-type transmission with maximum of five forward speeds permitted. Maximum 3 forward speeds allowed for automatic type transmissions. Reverse gear is mandatory. Automated shifters and/or timer-type shifting devices on manual-type transmissions prohibited, each individual shift must be a function of the driver. Shifting of a manual-type transmission may only be controlled by either manual or pneumatic means; electric or electronics may in no way affect the shifting mechanism. Air shifter bottles must be securely mounted. Automatic transmissions must have a inside oil pump and clutch packs which control the gearing along with bands to be deemed as an automatic transmission. Overdrive/under drive units, motorcycle, snowmobile or farm implement type transmissions are prohibited.

See GSR: 2.12, 2.13, 2.14 and 9.7.

148

 \mathbb{O}

MOTOLIS DOLLANG



A 2.4.1 WEIGHT ADJUSTMENT, AUTOMATICS

Cars with automatic transmission and fully working converter are allowed to take off weight from the calculated class weight as follows: A/A 45 kg (100 lbs), B/A 90 kg (200 lbs) and C/A 113 kg (250 lbs). D/A, E/A, F/A, G/A, H/A and I/A, With V8 113 kg (250 lbs) with maximum 6-cylinders 68 kg (150 lbs). With maximum 4-cylinders 45 kg (100 lbs). All other classes are not allowed to take off any weight. To be noticed is that cars can never weigh less than minimum weight.

A 2.5 TRANSMISSION SHIELD, AUTOMATIC

Automatic transmission shield meeting SFI Spec 4.1 mandatory. Automatic transmission flexplate meeting SFI Spec 29.1 mandatory. Automatic transmission flexplate shield meeting SFI Spec 30.1 mandatory. See GSR: 2.14.

000 0011. 2.14.

BRAKES & SUSPENSION: A 3 A 3.1 BRAKES

Minimum two rear-wheel hydraulic brakes (disc brake) are mandatory. Four-wheel brakes are always recommended. On all Altered Cars type-2 four-wheel hydraulic brakes mandatory. On all A/A, B/A, AA/A, BB/A, AT/A, BT/A, AN/A, BN/A and CN/A Altereds type 1 four wheel hydraulic brakes mandatory. Hand brake if used, must be located inside of body or drivers compartment. Steel brake lines, steel braided or in accordance with DOT, DIN/ISO mandatory. All brake lines passing engine on any car must be shielded. **See GSR: 3.1**

149

in motorsport uk

A 3.2 STEERING

Commercially available quick-disconnect steering wheel permitted. Units meeting SFI Spec 42.1 recommended.

For type 2 Altered Cars, minimum steering wheel diameter 279 mm (11 inch). See GSR: 3.3 and 4.1.

A 3.3 SUSPENSION

Altered Cars type-1: Any automotive suspension permitted. Rigid-mount front axles permitted if wheelbase is 3048 mm (120 inch) or more. Rigid-mounted rear axles permitted. Any front suspension using a beam or tubular type axle must have radius rods attached to frame. Radius rods not required on front axles rigidly mounted 457 mm (18 inch.) or less from front king pin axis. See GSR: 3.2, 3.4 and 3.5.

Altered Cars Type 2: Full automobile-type suspension is mandatory. A Minimum of one hydraulic shock absorber per sprung wheel is mandatory. See GSR: 3.2, 3.4 and 3.5.

A 3.4 TRACTION BARS

Permitted. They cannot be longer than half the wheel-base. See GSR: 3.4 and 3.5.

A 3.5 WHEELIE BARS

Permitted. Wheels must be non-metallic. See GSR: 3.6.

FRAME: A 4

A 4.1 BALLAST

Permitted. See GSR: 4.2.

A 4.2 BUMPER

Optional; if used, must conform to original specifications. Rear bumper is not allowed to be used as wing/spoiler.

A 4.3 GROUND CLEARANCE

Minimum 76 mm (3 inch) from front of car to 305 mm (12 inch) behind centreline of front axle, 51 mm (2 inch) for remainder of car, except oil pan and exhaust headers. *See GSR: 4.5.*

A 4.4 PARACHUTE

Mandatory. See GSR: 4.8.

A 4.5 ROLL CAGE

Mandatory in accordance with pictures 21-22 for Altered Cars Type 1. 19-20 and 27-29 for Altereds/ Roadster Cars Type 2.

See GSR: 4.11.1 and 4.11.2.

Cars in classes A/A, B/A, AA/A, AB/A, AT/A, AN/A, BN/A, CN/A, A/PM and AA/PM must meet SFI Spec 10.1E or 25.1G. Chassis must be inspected every three years.

See GSR: 4.4, 4.11, 4.11.1, 4.11.2, 10.6 and 10.7.

A 4.6.1 ROLL CAGE Cars running 8.49 - 7.50 (*5.09 - (*4.50).

150

 \mathbb{O}

MOTOLIS DOLLANG

Door-slammer Specs: SFI 25.4B Full tube chassis 4130 Chrome Moly, Docol R8 or M/S SFI 25.5B Full Bodied car Stock or Modified/OEM Floor-pan and Firewall with OEM Frame or Unibody construction. Funny Car and Altered Spec: SFI 10.3 Side Steer Roadster: SFI 10.4

A 4.6 WHEELBASE, ALTEREDS, ROADSTERS

Minimum wheelbase 2286 mm (90 inch). Maximum Wheelbase 3175 mm (125 inch).Maximum wheelbase variation from left to right: 25.4 (1 inch).

A 4.6 WHEELBASE, FUNNY CARS

Minimum wheelbase 2540 mm (100 inch). Maximum Wheelbase 3175 mm (125 inch). Rear tires are not allowed to be outside body. The outside of rear tire is not to be more than 76 mm (3 inch) inside the body. Front tread width is not allowed to be such that the outside of front tire is more than 152 mm (6 inch) inside the bodyline. Measurement is done from the outside of tire to the inside of fenders edge. Maximum wheelbase variation from left to right: 25.4 mm (1 inch).

A 4.6 WHEELBASE, ALTEREDS TYPE 2

Minimum wheelbase 2286 mm (90 inch). Maximum Wheelbase 3175 mm (125 inch). When Altered cars type-2 have to meet SFI Spec 25.1E a minimum wheelbase of 2540 mm (100 inch) is mandatory, and maximum wheelbase is 3175 mm (125 inch). Maximum wheelbase variation from left to right: 25.4 mm (1 inch).

TYRE & WHEELS: A 5

A 5.1 TYRES

Racing slicks mandatory. See GSR: 5.1.

A 5.2 WHEELS

Aftermarket wheels permitted. Wire wheels permitted on front of Altered cars type 1 only provided total weight of car does not exceed 800 kg (1763 lbs). Motorcycle wheels prohibited.

Altered Cars type 2: Minimum front-wheel diameter 331 mm (13 inch) unless car was originally equipped with smaller wheels and is using original engine. Minimum wheel width 88 mm (3.5 inch), front tire must be fitted to the wheel width, and be suitable for the load on front axle. See GSR: 5.2.

INTERIOR: A 6

A 6.1 SHEET METAL

Driver's compartment interior must be aluminium or steel. Magnesium prohibited. See GSR: 6.1.

A 6.2 SEATS

In Altered cars type 2 central steering prohibited. See GSR: 6.2.

151

) motorsport uk

A 6.3 TONNEAU COVER

Covers permitted over driver compartment and/or pick up beds if they do not restrict driver entry/exit.

A 6.4 WINDOW NET

Mandatory in full-bodied cars. See GSR: 6.3.

BODY: A 7 A 7.1 AIR DAM

Frontal air dam only permitted on open Altereds with open wheels. Maximum projection ahead of spindle centre-line: 762 mm (30 inch). Width cannot exceed front tread width. Maximum rise: 254 mm (10 inch). Spill plates permitted, not to exceed 229 mm (9 inch) in height. Ground clearance must be minimum 76 mm (3 inch). Any adjustment or movement during run prohibited. **See GSR: 7.2.**

A 7.2 BELLYPAN

Permitted.

A 7.3 BODY, ALTERED CARS TYPE 1

Must be identifiable with car made by automotive manufacture. Customising and other alterations allowed. Maximum projection ahead of spindle centre-line: 762 mm (30 inch), for Funny Cars 1016 mm (40 inch). Cars with full flip-body must have a working escape hatch installed in top of body to permit easy driver exit. Minimum size 457 x 432 mm (18 x 17 inch). Roof hatch must be permanently attached, and hinged at front. Must have release mechanism, operable from both inside and outside of car.

A 7.3 BODY, ALTERED CARS TYPE 2

Sedan, coupe, roadster, estate or pick-up body-type permitted. Full-body including fenders over all wheels mandatory. Maximum projection ahead of spindle centre-line: 1016 mm (40 inch). Fiberglas bodies permitted. Spoilers and Wings as in the rules for Pro Stock and Pro Modified permitted. **See GSR: 7.2.**

A 7.4 FIREWALL, FLOOR

Mandatory. See GSR: 7.5 and 7.6.

A 7.5 HOOD, HOOD SCOOP

Hood permitted, but must conform to original type dimensions for body used. Cars without hood, must have a flash shield, or hood scoop in place of hood. On cars with hood, hood scoop may not extend more than 279 mm (11 inch) above height of hood surface, if hood is not used, hood scoop may not extend more than 279 mm (11 inch) above height of carburettor top. **See GSR: 1.4 and 7.7.**

152

 (\bigcirc)

MOTOLICIES OF AN ANDROLOGICAL MARCHARGE CONTRACTOR OF AN ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OFTA ANTRACTOR O

A 7.6 WHEEL WELLS

Wheel-wells can be altered, but there must be one for each rear wheel. For Altered Cars type 2 wheel-wells must provide a bulkhead between wheel and driver compartment.

A 7.7 WINDSCREEN, WINDSHIELD, WINDOWS

Altered Cars type 1 and roadsters without a windshield must have a metal or other flame-proof deflector installed. Altered Cars type 2 and Funny Car full-windscreen mandatory. Plexiglas in windscreen prohibited, must be made of polycarbonate (Lexan or equal). Side-windows in Plexiglas permitted. Minimum window openings 127 mm (5 inch) measured vertically. **See GSR: 7.8 and 7.9.**

ELECTRICAL: A 8 A 8.1 BATTERIES

Maximum two batteries allowed. All batteries must be securely mounted with metal hold-downs outside the driver compartment. Maximum weight including battery-box is 70 kg (154 lbs). See GSR: 8.1.

A 8.2 DELAY BOX/ DEVICE

Prohibited. See GSR: 8.2.

A 8.3 IGNITION

See GSR: 8.3.

A 8.4 MASTER CUT-OFF

Mandatory on all cars with a battery. See GSR: 8.4.

A 8.5 TAIL LIGHTS

All cars must have one functional tail light for night operations. See GSR: 8.6.

SUPPORT GROUP: A 9

A 9.1 COMPUTER Permitted. See GSR: 9.1 and 9.2.

A 9.2 FIRE EXTINGUISHER

Permitted. Mandatory on cars with closed driver's compartment. Minimum capacity 2.5 kg. Hand held fire extinguisher prohibited. *See GSR: 9.3.*

A 9.3 PUSH START

Prohibited. See GSR: 9.8.

A 9.4 TOW VEHICLES

Permitted. See GSR: 9.9.

A 9.5 WARM-UPS See GSR: 9.4 and 9.11.

153



DRIVER: A 10

A 10.1 ARM RESTRAINTS

Mandatory in open Altereds and Funny Cars. See GSR: 10.3.

A 10.2 LICENCE

Drag Race Licence mandatory. See GSR: 10.4.

A 10.3 DRIVER

Must be located behind engine and completely within body contour with no part of driver behind rear axle.

A 10.4 DRIVER RESTRAINT SYSTEM

SFI Spec 16.1, 16.5 or FIA Standard 8853/98, 8853-2016 mandatory. See GSR: 10.5.

A 10.5 HEAD PROTECTOR

Mandatory. See GSR: 10.6.

A 10.6 HELMET

See GSR: 10.7 and Motorsport UK Competitors year book (Blue book).

A 10.7 NECK COLLAR

Mandatory. SFI 38.1 or FIA Standard 8856-2002, 8856-2010 head and neck restraint device can be used a commercially available head and neck restraint system can be used. See GSR: 10.8.

A 10.8 PROTECTIVE CLOTHING

Front engine, supercharged or turbocharged, closed bodied car, OR any car with an automatic transmission in driver compartment (no floor covering transmission): Jacket and pants or suit meeting SFI spec 3.2A/15, gloves meeting SFI spec 3.3/5 or FIA Standard 8856-2000, 8856-2018 and boots or shoes meeting SFI spec 3.3/15 mandatory.

Front engine, supercharged or turbocharged open bodied car: Jacket and pants or suit meeting SFI spec 3.2A/20, gloves meeting SFI spec 3.3/5 or FIA Standard 8856-2000, 8856-2018 and boots or shoes meeting SFI spec 3.3/15 mandatory. Front engine car equipped with nitrous oxide: Jacket and pants or suit meeting SFI spec 3.2A/15, gloves and boots or shoes meeting SFI spec 3.3/5 or FIA Standard 8856-2000, 8856-2018 mandatory.

Rear engine car equipped with nitrous oxide and/or turbocharged or supercharged: Jacket and pants or suit meeting SFI spec 3.2A/15, gloves and boots or shoes meeting SFI spec 3.3/5 or FIA Standard 8856-2000, 8856-2018 mandatory.

154

ແດງ

MOTOLICIES OF AN ANDROLOGICAL MARCHARGE CONTRACTOR OF AN ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OFTA ANTRACTOR O

Naturally aspirated car: i.e. all others: Jacket and pants or suit meeting SFI spec 3.2A/5 or FIA standard 8856-2000, 8856-2018 and gloves meeting SFI spec 3.3/5 or FIA standard 8856-2000, 8856-2018 mandatory. See also GSR 10:10

JET POWERED CARS

Although an all-out competitive category does not exist for jet powered thrust vehicles, such vehicles are a popular feature at UK tracks. Strictly enforced performance limits are in effect: Vehicles weighing up to 1134 kg. (2499 lbs) are limited to 280 mph. Vehicles weighing from 1135-1360 kg. (2500-3000 lbs) are limited to 240 mph.

JC 1 Engine

JC 1.1 Afterburner- Tailpipe.

For butts, seams must be on the bottom; overlap seam placement will be at the discretion of the technical inspector. Dump valve on the afterburner manifold is mandatory; the valve to be activated with the primary chute lever (to prevent shutoff smoke).

JC 1.2 Air Intake

All air intakes must be totally and securely screened (1/8-inch minimum, 3/8-inch maximum or equivalent). Such screening must be securely attached to the engine.

JC 1.3 Catch Can

Fuel overflow catch tanks are to be of sufficient capacity to accommodate excess fuel on shutdown and adequate tank venting (approximately 1.5 litre) required on all vehicles. All hoses must be of crimped construction, no hose clamps and tie wraps allowed.

155

 (\bigcirc)

MOTOLICIAN MOTOLICA

JC 1.4 Control Cables

Manual afterburner control valve cable, minimum 3/16-inch. Electronic control accepted. Fuel control cable must be minimum 3/16-inch. A secondary shut-off must be fitted on the main fuel line. Emergency shut-off on burner line is mandatory. Emergency shutoff on both manually and electrically controlled afterburner system mandatory.

JC 1.5 Engine

Maximum of one thrust-driven engine permitted. Engine attitude must have down thrust; minimum negative one-degree angle. No internal modifications permitted. All engines must be run within manufactures maximum allowable limits. Recommended engine types are J-33, J-34, J-60(JT-12), J85-5(CJ-610), and Rolls Royce 200, 500 and 600 series. Engine identification plate must be present and visible.

JC 1.6 Hot Streak

A filter is mandatory on the Hot Streak Inlet. 2 solenoids are required on the Hot Streak.

JC 1.7 Fuel

Only approved jet-type fuel permitted (Jet A, Jet A-1, kerosene, diesel). Only diesel fuel additives permitted. Separate water and methanol injection systems permitted. Racing gasoline permitted for starting purposes only.

JC 1.8 Fuel Tank

Maximum capacity must be 125 litres. It must be securely mounted to the frame with appropriate baffling (welded or equivalent). If pressurised, the tank must be round and a pressure regulator is recommended as well as a light/gauge to monitor pressure. A mechanism to release fuel tank pressure is mandatory. All pressurised fuel tanks must be vented automatically with engine shutdown.

JC 1.9 Electrical Systems and Instrumentation

All instruments, gauges and metering devices must be fully functional. The following instruments must be visible from the cockpit of each vehicle; tachometer (percent of rpm), exhaust gas temperature gauge (EGT), oil pressure gauge/light. Battery packs must be readily available to facilitate engine cranking in the event of a tailpipe fire.

JC 3 Brakes and Suspension

JC 3.1 Brakes

Calliper type disc brakes required on all four wheels. Two separate hydraulic systems required; may be front/rear or double system.

JC 3.2 Suspension

Functional front and rear suspension optional. Rear shock absorbers, if used, must be installed in such a manner as to retain integrity of suspension in case of failure.

156

((C))

MOTOLIS DOLLANG

JC 4 Chassis

JC 4.1 Ground clearance

Minimum of 3 inches of ground clearance at the lowest point of the vehicle.

JC 4.2 Parachutes

Dual parachutes are mandatory. Both parachutes must be part of a dual control system that will independently shut off the engine when either is deployed. The parachute mount must be substantially bolted and /or welded in place. Minimum parachute connection spool diameter is 1 inch (25 mm). Funny Cars are required to have a minimum 10-foot bridle cord to attach the pilot parachute. Chutes and shroud lines must be mounted in such a position as to be protected from tailpipe heat. All unpacked shroud lines must be covered with 1/16-inch leather or Motorsport UK accepted material (silver tape prohibited). Only steel, aluminium or carbon fibre parachute tubes permitted. Parachute packs prohibited.

JC 4.3 Roll Cage

Dragster chassis must meet SFI Spec 2.1A, Funny Car chassis must meet SFI Spec 2.2C, 2.1A or 10.1E. Plating of the chassis is prohibited, painting is permitted. The chassis must be inspected every 2 years by the Technical Inspectors and have a serialised sticker affixed to the frame before participation. Roll cage padding meeting SFI Spec 45.1 is mandatory anywhere the driver's helmet may come in contact with the roll cage components.

JC 4.4 Weight

Minimum weight 567 kg. (1,250 pounds); maximum 1360kg (3000 pounds). All weights to include the driver and fuel.

JC 4.5.1 Wheelbase, Dragster

Minimum 180 inches; maximum 300 inches.

JC 4.5.2 Wheelbase, Funny Car

Minimum 125 inches; maximum 135 inches.

JC5 Wheels and Tyres

JC 5.1 Tyres

Tyres are to be automotive type represented by the manufacturer for racing use. Minimum front wheel diameter on Jet Funny Cars is 14 inches.

JC6 Interior JC 6.1 Sheet Metal

All sheet metal within the driver compartment must be aluminium or steel; magnesium is prohibited.

157



JC7 Body

JC 7.1 Body, Funny Car

The driver must be isolated from the engine compartment and the fuel system by Lexan with a minimum thickness of 3/16 inch (4mm). The firewall must provide a bulkhead between the engine or fuel tank and the driver compartment. All openings must be sealed with metal. Minimum .032 inch 6061 T6 aluminium or .024 inch steel; the use of magnesium is prohibited. The body must have at least one way to easily and quickly exit the car with the body down (roof hatch or removable windscreen), with a release operable from inside or outside of vehicle. Exit from the car with the body down must be demonstrated during the inspection process. Rear spoiler recommended for vehicle stability.

JC9 Support Group JC 9.1Fire Extinguisher System

Funny cars; minimum 10 pounds (5kg) Motorsport UK accepted fire extinguishing system mandatory. Enclosed cockpit dragsters minimum 5 pounds (2.5Kg) Motorsport UK accepted system mandatory.

JC10 Driver

JC 10.1 Arm Restraints Mandatory. See GSR 10:3

JC 10.2 Driver Location

The driver must be sealed off from the intake by a firewall of at least shoulder height. If located next to the compressor section the driver must be totally isolated from the compressor by a 3/8 inch (10mm) 7075-T6-aluminium shield. J-85 Funny Cars must be additionally equipped with a minimum 360 degree .050 inch stainless steel shield encompassing the combustion can. If the driver is located near the hot section, then insulation must be used to protect the driver from engine heat.

JC 10.3 Driver Restraint System

SFI Spec 16.1 mandatory. Restraint system must be updated at 2 year intervals from date of manufacture. See GSR 10:5.

JC 10.4 Helmet

Helmet meeting Snell SA2005, SA2010 SFI 31.1A, FIA 8860-2004 or BS 6658-85 A/FR. See GSR 10:7.

JC 10.5 Neck Collar

SFI 38.1 or FIA 8856-2002, 8856-2010 head and neck restraint device mandatory. See GSR 10:8.

158



JC 10.6 Protective Clothing

Drivers of dragsters must wear a suit meeting SFI Spec 3.2A/15; drivers of Funny Cars must wear a suit meeting SFI spec 3.2A/20. All drivers must wear SFI Spec 3.3/5 or FIA Standard 8856-2000, 8856-2018 gloves and SFI 3.3/5 boots/shoes.

TOP METHANOL FUNNY CAR

For this class the current FIA Top Methanol Funny Car rules in FIA Yearbook with its changes in the monthly FIA Bulletin applies all the time.

DESIGNATION

TM/FC/ then car number. For Starting numbers: See GSR: 7.3 Reserved for methanol-burning Funny Cars, built specifically for drag racing competition, meeting FIA International Top Methanol Rules. Cars are weighed at the conclusion of a run including driver.

TOP METHANOL DRAGSTER

For this class the current FIA Top Methanol Dragster rules in FIA Yearbook with its changes in the monthly FIA Bulletin applies all the time.

DESIGNATION

TMD/ then car number.

For Starting numbers: See GSR: 7.3

Reserved for methanol-burning Dragsters, built specifically for drag racing competition meeting FIA International Top Methanol Dragster Rules. Cars are weighed at conclusion of run including driver.

PRO STOCK

For this class the current FIA Pro Stock rules in FIA Yearbook with its changes in the monthly FIA Bulletin applies all the time.

DESIGNATION

PRO/ then car number. For Starting numbers: See GSR: 7.3 Reserved for 2-door coupes or 2-door sedans

159



PRO MODIFIED



Andy Robinson 2018 Pro Modified Champion

DESIGNATION

PM/ then car number. For Starting numbers: **See GSRs 7.3**.

Supercharged, Turbocharged, methanol-burning, nitrous-oxide injected, gasoline-burning full-bodied door vehicles. All entries must be self-starting with on-board starters.

Minimum weight at the conclusion of a run, including driver; Nitrous assisted cars (910 Max cid) – 2,425 pounds (1,100 kg) Nitrous assisted entries with lock up convertor (910 Max cid) 2450 pounds (1,111 KG)

160



Supercharged cars (maximum 526 cid) – 2600 pounds (1,179 kg) Turbocharged cars (*maximum 526 cid*) – 2650 pounds (1,202 kg)

CARBURETOR & ELECTRONIC FUEL INJECTION

Any number or type of carburettors or throttle bodies may be used. Electronic fuel injection permitted. Electronic fuel injection systems may only monitor engine functions. Monitoring of vehicle performance criteria (e.g. driveshaft speed, vehicle acceleration, etc) by the fuel injection system is prohibited. See FIA General Regulations 9.1.

See FIA General Regulations 9.1

COOLING SYSTEM

Radiator permitted. Electrically driven fan and water pump permitted.

ENGINE.

An Internal combustion, reciprocating, single camshaft, 90-degree V-8 automotive type engine is mandatory. All engine combinations must be FIA accepted and have manufacturer's part number present. Crankshaft centreline must intersect cylinder bore centrelines and be symmetrical. Maximum bore centre on billet hemi combinations is 4.900 inches (124.46 mm) and 5.000 inches (127.0 mm) on all other combinations. Maximum bore centre on nitrous engines is 5.300 inches (134.62mm). Only one engine is permitted. For turbo combinations the maximum bore centre is 5.000 inches (127.0mm). When used, a harmonic balancer must meet SFI Spec 18.1. On supercharged engines a positive method (flange, lip etc.) must be attached to the intake manifold or engine block to retain both the front and rear manifold to block gaskets in the event the engine crankcase/lifter valley becomes overpressurised. The flange/lip must extend past the surface of the gasket and be contoured to closely fit the block and manifold surfaces to prevent the gasket(s) from extruding.

CYLINDER HEADS.

Hemi, canted-valve, or wedge cast heads permitted. Billet heads permitted. Any valve configuration or valve size permitted except on supercharged cars where maximum intake valve size is 2.400-inch (61 mm) and 1.900-inch (48.26 mm) on exhaust valve, Maximum one spark plug per cylinder. Maximum turbocharged valves sizes: intake 2.450 inches (62.3 mm); exhaust 1.900 inches (48.26 mm

Engine Setback

The maximum engine setback is limited to 10% of wheelbase as measured from the centreline of the front spindle to the centre of the front sparking plug

PM 1.2 Exhaust System

Competition type exhaust system required. Exhaust gases must be directed out of the body, rearward, away from the driver and fuel system.

161

 \mathbb{O}

MOTOLIS DOLLANG

PM 1.3 Fuel

FIA Drag Racing Commission accepted unleaded racing gasoline or methanol mandatory

See FIA General Regulations 1.6 & 1.9.

Gasoline, ethanol, methanol with nitrous oxide is allowed. The use of propylene oxide and/or nitromethane is prohibited.

See FIA General Regulation 1.13.

PM 1.4 Fuel System

No part of the fuel system may be mounted on the firewall. An aftermarket fuel cell is recommended. The fuel cell must be vented to outside of the body and equipped with a flash shield to isolate the driver's compartment. The fuel cell/tank must have a positive lock cap. Where fuel cells are used they must meet SFI Spec 28.1 or FIA Standard FT3, FT3.5 or FT5-1999. Fuel cells/tanks must be mounted between the frame rails and enclosed in a round tube frame, minimum 1 ¼ inch O.D. x 0.05 inch (31.75mm x 1.65mm) chrome moly 4130, Titanium grade 9 or Docol R8 tubing. Artificial cooling or heating systems (i.e. cool cans, ice, Freon, etc.) prohibited. Circulation systems, not part of normal fuel pump systems, prohibited.

An extra tank for gasoline, methanol and/or ethanol is permitted. Water injection is permitted on Nitrous entries only. Only water is permitted in water injection system.

The fuel temperature from the staging lane to the fuel check after completion of a run must not be lower than 45 degrees F (7 degrees C). Should the ambient temperature be less than 45 degrees F (7 degrees C) fuel temperature may not be less than ambient. Failure to pass the minimum fuel temperature check in the staging lanes prior to a run will result in the forfeiture of that run, and the racer must return to his/her pit. Failure to pass the minimum temperature check after a run will result in the exclusion of that run. Extra fuel tank(s) is/are prohibited.

See FIA General Regulations 1.5.

PM 1.5 Induction

Any induction system permitted on nitrous, supercharged and turbocharged cars. Electronic fuel injection must be closed OEM type system, i.e. may monitor only engine functions. Monitoring of vehicle performance criteria, wheel speed, driveshaft speed, vehicle acceleration, etc. by fuel injection system prohibited. All aftermarket OEM type electronic fuel infection must be FIA accepted.

See FIA General Regulations 9.1.

Injector Scoop

Injector scoop must be FIA accepted may not extend more than 16 inches (406mm) forward of the centre of the forward engine cylinder, may not extend more than 10 inches (254mm) behind the centre of the rear engine cylinder and may not extend higher than 2 inches (51mm) over the roof line.

162

 (\bigcirc)

MOTOLICIES OF AN ANDROLOGICAL MARCHARGE CONTRACTOR OF AN ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OFTA ANTRACTOR O

Intake Manifold

Manifold burst panel mandatory on all entries. Supercharged and turbocharged entries must have a manifold burst panel meeting SFI Spec 23.1. Nitrous-assisted entries must have an FIA-accepted intake restraint system. A current list of FIA accepted intake restraint systems is available on NHRARacer.com.

PM 1.6 Nitrous Oxide

Maximum of two bottles allowed, with a 15 pound (6.8 kg) maximum per bottle. No bottle may be turned on until after burnout is completed. No inline valves accepted as bottle shutoff in staging lanes. Push systems accepted. HOBB switch mandatory. Nitrous system be must be activated by a wide open throttle switch. All nitrous bottles must be within a five year expiration date and be stamped as meeting minimum CE or DOT-1800psi (124 bar) rating. Commercially available, thermostatically controlled, blanket type warmer accepted. Any other external heating of bottle(s) prohibited.

See also FIA General Regulations 1.10.

Oil Lines

All pressurised flexible oil lines must pass a minimum 300 psi (20.4 bar) 30 second test and be tagged to indicate successful testing. See FIA General Regulations 1.9, 1.12.

Oil Retention Device

All entries must be equipped with a properly fitting lower- engine ballistic/restraint device meeting SFI spec 7.1. An engine oil retention pan is mandatory. Minimum material thickness is .050-inch (1.27mm) aluminium or .040-inch (1.0mm) carbon fibre/Kevlar. The engine oil retention pan must run from in front of the front motor plate to in front of the rear motor plate and to just inside or outside the lower frame rails. Engine oil pan walls must be a minimum of 2.inches (51mm) high. Front and rear walls must be "curved" toward the oil pan a minimum of 0.5-inch (13mm) to retain the oil in the device. A non-flammable, oil-absorbent liner is mandatory in the oil retention device.

See FIA general regulations 1.8.

Throttle

Throttle control must be manually operated by the driver's foot. Electronics, pneumatics or hydraulics is permitted for starting line/staging RPM limiters only.

PM 1.7 Supercharger

Screw-type and centrifugal-type superchargers prohibited. Rootstype high helix or standard helix supercharger only. Supercharger restraint system meeting SFI Spec 14.2, including injector restraint straps mandatory. Cast or billet cases permitted. Maximum supercharger overdrive limit is 16.5 percent on all combinations. Intercoolers, variable multi-speed supercharger devices prohibited. The top opening of the supercharger may not exceed 12 inches in length or 5 inches in width. The entire inlet opening

163

(C))

MOTOLICIES OF AN ANDROLOGICAL MARCHARGE CONTRACTOR OF AN ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OFTA ANTRACTOR O

must be on/in the upper surface only. The maximum length from the front of the supercharger drive pulley to the leading edge of the rotor is 15 inches. Offset drive pulleys, spacers, modified cases, or attaching methods may not be used to add to the 15-inch maximum. All manifold configurations, supercharger modifications and locations must be accepted prior to competition. The rotors must be driven from the front (both the external drive and the internal gearing. Any inlet/outlet cavity in front of the rotors is restricted to a maximum of 3.000 inches measuring from the face of the bearing plate to the front of the cavity.

See FIA general regulations 1.10, 1.11.

PM 1.8 Turbocharger

A single 120mm (4.72 inches) or a maximum of twin 91mm (2.57 inches) turbochargers allowed. Air to air or water to air intercoolers prohibited. Turbocharger size will be verified by measuring the housing bore at the leading edge of the impeller wheel. The maximum diameter of the housing bore at the leading edge of the wheel may not exceed 2mm more than the maximum allowable turbocharger size permitted. All turbochargers must meet SFI Spec. 61.1.

Nitrous oxide injection with turbocharged engines prohibited. *Maximum permitted Turbo Boost is 36psi.*

PM 1.9 Turbo Boost Controller

Boost controller manufactured by Hyperaktive Performance Solutions, part No. PMBL is mandatory. No other boost controller or form of boost control permitted. Must be installed per manufacturer's instructions as documented on NHRARacer.com: Products, NHRA Accepted NHRA Accepted Product Specifications, Pro Modified, Hyperkontrol Boost System Installation and Operation Manual. Any modification to or any attempt to disable or defeat the boost controller is prohibited. Any attempt to corrupt or delete data associated with the boost controller is prohibited. Maximum boost may only be set by FIA officials.

Vent tubes

All tubing material must be flame resistant and be FIA accepted prior to use.

PM 2.0 DRIVE TRAIN

PM 2.1 Clutch, Flywheel, Flywheel Shield

Flywheel and clutch meeting SFI spec 1.3, 1.4 or 1.5, three discs maximum with a maximum disc diameter of 11 inches (279.4 mm) or four discs with a maximum disc diameter of 8 inches (203.2mm). Flywheel shield meeting SFI Spec 6.2 or 6.3 mandatory. When an OEM or aftermarket automatic transmission is utilised an SFI Spec 6.2, 6.3 flywheel shield and an SFI Spec 29.1 or 29.2 flexplate is mandatory.

164

 (\bigcirc)

MOTOLESOOLT OK

The maximum depth of flywheel shield is 9.400 inches (239mm). Clutch must be manually operated by driver's foot; Electronics, pneumatics, hydraulics or any other device may in no way affect the clutch system. Throw-out bearing must release all fingers, levers, stages, etc. simultaneously. Staged or variable release clutches of any description prohibited.

See FIA general regulations 2.1, 2.5, 2.6, 2.8.

The motor plate must be attached to the chassis using at least 2 welded mounting points with minimum 3/8 inch (10mm) Grade 8 (12.9) bolts and full nuts. At least 2 additional welded mounting points (using the motor plate, front block plates, etc.) are required to secure the engine to the chassis also, with minimum 3/8 inch (10mm) Grade 8 (12.9) bolts and full nuts.

PM2.2 Driveline

Drive shaft should be fabricated from a minimum 3" x 0.083" (76mm x 2.11mm) chrome moly 4130 or Docol R8 tube or meet SFI Spec 43.1. May be modified or fabricated to fit altered units. Front wheel drive cars may be converted to rear wheel drive. Each end of the drive shaft must have rounded 360 degree driveshaft loops within 6 inches (152mm) of U joints. A full 360 degree driveshaft tube is mandatory over yoke, extending from transmission tail shaft a minimum length of 9 inches (229 mm). Minimum thickness of tube housing is 0.050 inch (1.27mm) chrome moly 4130, titanium grade 9 or Docol R8. 2 piece acceptable with a minimum of 6 x 3/8 inch (10mm) Grade 8 bolts.

PM2.3 Rear End

Aftermarket axles with a minimum 5/8 inch diameter (16mm) studs and axle retention device mandatory. Welded spider gears prohibited. Fully floating or live axle units mandatory on supercharged and turbocharged cars. Fabricated flanged rear ends with mis/self-aligning bearings permitted on nitrous assisted cars. Final rear-end gear ratio higher than 4.57 prohibited on supercharged and turbocharged cars.

PM 2.4 Transmission

Lock up converters are prohibited on Supercharged & Turbocharged combinations.

Lock up converters are permitted on nitrous-assisted combinations. Overdrive units are prohibited on all combinations.

Aftermarket planetary, clutchless, automatic transmission permitted. All transmissions must be equipped with an SFI Spec 4.1 transmission shield. Supercharged and Turbocharged entries limited to maximum of three forward speeds and one reverse; nitrous-assisted entries limited to a maximum of five forward speeds and one reverse. Aftermarket converter drive units permitted. When an automatic transmission or converter drive is utilized, an SFI Spec 6.1 or 6.3 flywheel shield and an SFI Spec 29.1 or 29.2 flexplate are mandatory. All entries utilizing an automatic transmission must be equipped with a neutral safety switch and a reverse lockout. Bolt together torque converters must

165

 (\bigcirc)

MOTOLICIES OF AN ANDROLOGICAL MARCHARGE CONTRACTOR OF AN ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OF ANTRACTOR OFTA ANTRACTOR O

be through bolt design using a minimum Grade 8 (10.9) bolt with lock nut. Transmission brake permitted on all converter-equipped entries, electric transbrake release system only. All entries using a torque converter must utilize a belly pan for the transmission, see: 7.1, BELLY PAN. Overdrive units are prohibited. A 1-to-1 relationship is mandatory in high gear for all transmission types. Automated, timer type, with pneumatic, electric, electronic, hydraulic, etc. shifting mechanism prohibited; each individual shift must be a function of the driver and controlled manually. Alternative transmission staging device permitted on converter cars. Manipulation of transmission- or converter oil pressure or volume other than at the startline is prohibited. Transmission oil pressure manipulation control must be disarmed and nonfunctional upon the release of the transbrake or any other device used when launching the vehicle. See General Regulations 2:12, 2:13. and 2:14.

Aftermarket planetary, Clutchless, OEM or aftermarket automatic transmission permitted with a maximum of 5 forward speeds plus reverse for nitrous and turbocharged cars; 3 forward speeds plus reverse for supercharged cars.

For supercharged entries overdrive or underdrive units are prohibited in any part of the drive train. 2 forward shifts maximum (split shifting prohibited). Final gear ratio may not exceed 1:1 on supercharged cars.

Aftermarket planetary converter drive units accepted. Billet torque converters mandatory. SFI spec 6.2 or 6.3 Flywheel Shield and an SFI Spec 29.1 or 29.2 flexplate is mandatory. Lock-up converters or overdrive units prohibited. All entries utilising a converter must be equipped with a neutral safety switch and a reverse lockout. Bolt together torque converters must be through bolt design using as a minimum grade 8 bolts with locking nuts. Transmission brake permitted on all converter equipped entries. All entries using a torque converter must utilise a belly pan. See Body: 7.0 Belly Pan.

All components and their proposed use must be FIA Drag Racing Commission accepted prior to competition. Transmission brake release must be a function of the driver's left foot. Automated, timer type with pneumatic, electric, electronic, hydraulic, etc. shifting mechanism prohibited; each individual shift must be a function of the driver and controlled manually.

Transmission shield meeting SFI spec 4.1 mandatory. Iterative staging device permitted on converter equipped cars. See FIA General Regulations 2.12, 2.13. *

PM 3.0 BRAKES AND SUSPENSION

PM 3.1 Brakes

Automated brakes prohibited; application and release of brakes must be a function of the driver. Four wheel hydraulic brakes mandatory. Carbon-fibre brake rotors used in conjunction with carbon-fibre specific brake pads mandatory on the rear wheels for vehicles constructed in January 2012 or later. Brake lines must be out of the flywheel and driveline area. Dual master cylinders are mandatory and must be mounted above the frame rails. Steel

166

MOTOL REPORT OF

brake lines are mandatory. Two (2) line-loc solenoids and one (1) button permissible. Using the line-loc for traction control is prohibited. Any other electrical, pneumatic, hydraulic, etc. switch prohibited in brake system.

See FIA General Regulations 3.1.

PM 3.2 Steering

Stock type steering in a conventional location is mandatory. A quick release mechanism is compulsory and must consist of a flange concentric to the steering wheel axis, coloured yellow through anodisation or any other durable yellow coating, and installed on the steering column behind the steering wheel. The release must be operated by pulling the flange along the steering wheel axis.

Alternatively a quick disconnect steering wheel adapter meeting SFI Spec 42.1 may be used. Minimum steering wheel diameter is 11 inches (279 mm).

See FIA General Regulations 3.3.

PM3.3 Suspension

Full automobile production systems are mandatory. A minimum of one hydraulic shock absorber per wheel is required. Fabricated units permitted. Lightening of stock components prohibited. Rigidly mounted suspensions or straight front axles prohibited. Minimum travel front and rear is 1 inch (25.4 mm). Lock-up shock absorbers prohibited. Active suspension of any kind prohibited. Any ability to make on track settings/rate changes based on "real time" data or input from any source, including the shock/strut itself (i.e. magnetically charged fluid) is prohibited. Electrically or pneumatically controlled hydraulic shock absorbers are permitted, provided all adjustment settings/changes are pre-set before a run. Only one three wire shielded cable connection is permitted from the top of the shock/strut to the shock/strut controller. Electrical connections of any other kind to or from the shock/strut prohibited. Shock/strut travel sensors permitted, but may ONLY be connected to the vehicle data recorder. Shock/strut control boxes that have connections for travel sensors must have the pin removed from the connector. Connection to the serial port on the control box prohibited once the car reaches the ready line. All wiring must be visible and easily traceable by the technical inspectors. Control boxes must be FIA accepted. Accepted boxes are the old Koni and the Koni/MSD. Bottom of the shock/strut may have a maximum of three air lines connected to an air bottle.

See FIA General Regulations 3.4.

PM 3.4 Wheelie Bars

Wheelie bars are permitted. Maximum length 104 inches (2641mm) as measured from the centre line of the rear end housing to the centre of the wheelie bar wheel. Wheels must be non-metallic.

See FIA General Regulations 3.6

167

 (\bigcirc)

MOTOLIS DOLLANG

PM 4.0 FRAME

PM 4.1 Ballast

Permitted, maximum allowable weight is 250 pounds (113 kg). Any ballast mounted on or in front of the forward crossmember is limited to a maximum of 30 pounds (13.6kg), including the bracket. The maximum length of the bracket is 12 inches (304.8 mm), measured from the front of the crossmember. Maximum distance from the front motor plate to the front of the bracket is 36 inches (914 mm). The bracket may be constructed of either a minimum 1¼" x 0.058" (31.8 x 1.47 mm) round chrome moly 4130 or Docol R8 tubing with a minimum of 4 x 3/8" diameter (10 mm) SAE Grade 8 bolts for attachment or a minimum of $\frac{1}{4}$ " thick T6 aluminium plate with a minimum of 4 x $\frac{1}{2}$ " (13 mm) SAE Grade 8 bolts for attachment. All other weight bars, pucks etc. must use minimum $\frac{1}{2}$ " diameter (13 mm) SAE Grade 8 bolts for attachment. See FIA General Regulation 4.2.

PM 4.2 Ground Clearance

See FIA General Regulations 4.5.

PM 4.3 Parachute

2 parachutes are mandatory. Parachute packs and unpacked shroud lines must be protected with fire-resistant material from the mounting point to the pack. Separate shroud line mounting points with ½" (13 mm) sleeved 12.9 (grade 8) bolts. See FIA General Regulations 4.8.

PM 4.4 Roll Cage

Chassis must have manufacturer's name, serial number and date of manufacture. Chassis must meet SFI Spec 25.1H. Upper rear engine mounting, minimum O.D. 1.250" x 0.058" (32mm x 1.5mm), mandatory on cars without double frame rails. Plating of chassis prohibited, painting is permitted. Chassis must be inspected every 3 years by the ASN and have serialised SFI sticker affixed to the roll cage before participation in an event.

An additional panel(s) of .032-inch (0.8 mm) aluminium, .024-inch (0.6 mm) steel or carbon fibre must be installed in the roll cage roof area. The panel(s) must, as a minimum, extend from the driver's side roof bar to the centreline of the vehicle. The panel(s) in the Funny Car cage area must be removable for proper chassis certification inspection.

PM 4.5 Roll-Cage Padding

Roll-Cage padding meeting FIA 8857-2001 or SFI Spec 45.1 mandatory anywhere driver's helmet may come in contact with rollcage components. Additional padding mounted on flat stock and fastened to the roll cage on both sides of the driver's helmet is mandatory. Additional padding must meet either FIA Standard, "Standard for Formula One and Sports car Headrest materials" or

168



SFI Spec 45.2 and must be securely mounted using bolts or locking fasteners, and must include a flame retardant covering. See FIA General Regulations 4.11.10.6

PM 4.6 Wheelbase

Minimum100 inches (2,540 mm), maximum 115 inches (2921 mm). Full size trucks , maximum 140 inches (3,556 mm); s-10, Dakota, Ranger maximum 125 inches (3,175 mm). Maximum variation from left to right is 2 inches (51 mm).

PM 5.0 TYRES AND WHEELS

PM 5.1 Tyres

Must not extend outside the body line of the car. Minimum rear tyre circumference of 109 inches (2,768 mm) at tyre pressure of 5psi on supercharged cars. Maximum height of front tyres is 25 inches (635 mm).

See FIA General Regulations 5.1

PM 5.2 Wheels

SFI Spec 15.1, 15.3 or 15.4 rear wheels measuring 16x16 inches with double bead locks or liners mandatory. Modification and/or lightening prohibited. Wheel discs or covers prohibited.

See General Regulations 5.2.

PM 6.0 INTERIOR

PM 6.1 Sheet Metal

Driver compartment interior must be aluminium, steel or carbon fibre. Magnesium prohibited. Sheet metal may not extend into rear window any higher than wheel tubs. Trunk/boot must be completely separated from the driver compartment with a firewall. See FIA General Regulation 6.1

PM 6.2 Driver's Seat

Minimum one layer flame retardant material is mandatory as seat upholstery. Seat frame must be installed as a permanent part of the chassis. The driver's seat must be a minimum of 24" (610 mm) high. Seat must be foamed with energy absorbing material and be formed to the driver's body.

See FIA General Regulation 6.2

PM 6.3 Window Net

Window Net meeting SFI Spec 27.1 or a window net designed according to article 253.11.2 of appendix J to the international Sporting Code Mandatory.

See FIA General Regulations 6.3.

PM 7.0 BODY

PM 7.1 Bellypan

Permitted on all cars; mandatory on all entries using an OEM or aftermarket automatic transmission. Pan must extend from frame

169

((C)))

MOTOLICIAN MOTOLICA

rail to frame rail and extend from the bellhousing/engine mounting surface to the end of the transmission tail shaft. Non-flammable, oil absorbent liner is mandatory inside the Bellypan.

PM 7.2 Body

Both doors must be functional from the inside and outside. One piece or funny Car type bodies prohibited. Front overhang not to exceed 45 inches (1143 mm) forward of the front spindle. If front overhang of selected body is less than the maximum of 45 inches (1143 mm) an extension accepted by the Technical Committee may be added to reach the maximum length. Lightweight aftermarket replica body components permitted as long as the same appearance is retained for the body being used. No holes are permitted in the rear of the body. 2 hinged openings with total maximum of 120 square inches (774.2 square cm) permitted. Maximum 1 inch (25.4 mm) rocker panel/sill extensions and fender/wing flares (lips) permitted. Lip may not extend beyond forward half of wheel opening. All windows must be retained with 50% of original cowl showing. New car plans must be submitted to the Tech Crew for design approval prior to body construction, along with 3 photos of the completed body prior to painting. All models must be accepted prior to competition. All entries must incorporate a metal deflector (firewall extension) between the fenders and the leading edge of the doors such that fire, liquids, etc. cannot come around the edge of the firewall and into the driver's compartment.

PM 7.3 Firewall

Minimum 0.024" (0.6mm) steel or titanium is mandatory. Moving stock firewall rearward for engine installation is permitted. Aluminium magnesium or composite prohibited. See FIA General Regulations 7.4

PM 7.4 Floor

Driver's side floor pan must be a minimum of .024-inch (.6 mm) steel and must be welded in place. Remainder of stock floors may be replaced by 0.024" (0.6mm) steel, 0.032" (0.8mm) aluminium or Tech Inspector accepted carbon fibre. See FIA General Regulations 7.5

PM 7.5 Hood, Hood Scoop & Injector scoop

Permitted, one opening only. Must be finished and painted to follow body paint scheme. Sensors, transducers, vents, wiring hoses, etc. prohibited inside the hood scoop. A minimum of 4 fasteners must be used on the leading edge of all lift-off hoods. Burst panel on top of the hood scoop is permitted. Nitrous-assisted entries must utilize either a hood scoop or cowl hood to completely cover carburettors. Throttle bodies may only be exposed on fuel injected, nitrous assisted entries. On supercharged entries, injector scoop may not extend more than 16 inches (406 mm) forward of the centre of the forward engine cylinder, may not extend more than 10 inches (254 mm) behind the centre of the rear engine cylinder, and the top of the injector scoop may not be more than 1.50 inches (38 mm) above the roof. Burst panel on top of hood scoop permitted. See General Regulations 7.6.

170

(C))

MOTOLIS DOLLANG

PM 7.6 Tail Light

A functional tail light is mandatory.

PM 7.7 Wheel Wells

Rear wheel wells must be separated for each tyre. They must provide a bulkhead between the wheel and the driver's compartment.

PM 7.8 Windscreen, windows

Full windows mandatory, 1/8" (3.2mm) polycarbonate material such as Lexan MR 4000 permitted. Cutting and/or notching the windscreen permitted if covered by the bonnet and/or scoop. The side window on all cars must have a minimum of a 4 inch (101.6mm) diameter opening, adjacent to the driver (1 per side). See General Regulations 7.8

PM 7.9 Wing

Rear wing or spoiler must be accepted by the Technical Inspector prior to competition. No part of the rear wing or spoiler may be higher than the roof line unless an OEM item was higher. Adjustment during a run is prohibited.

PM 8.0 ELECTRICAL

PM 8.1 Batteries

Maximum two (2) total weight wet, fully charged, including battery box: 46.7 kg (100 lbs). If mounted inside driver compartment, battery must be located in a sealed .024-inch (.6 mm) steel or titanium, or .032-inch (.8 mm) aluminium box. The use of remotemounted battery packs permitted for starting purposes only. Onboard starter optional. See General Regulations 8.1.

PM 8.2 Delay Boxes/Devices

Prohibited. See FIA General Regulation 8.2.

PM 8.3 Ignition

Maximum 1 magneto or distributor and a maximum 1 sparking plug per cylinder allowed. Magneto systems are limited to a single 44amp maximum output system. The use of MSD 8973 unit is permitted on supercharged and turbocharged entries. The use of MSD 7531 unit is permitted on nitrous assisted entries only. Electronic starting line rpm limiters (two steps) and MSD 7730 Power Grid Units are permitted on all entries. See FIA General Regulations 8.3.

PM 8.4 Master Cut Off

Master electrical cut-off switch required, must be marked "pushoff". See FIA General Regulation 8.4

171

PM 8.5 switches or starting line engine control devices

If a starting line device (ex 2 step, pneumatic or electronic limiter) is utilised to control starting line rpm then the release of the component must be a function of clutch release by the driver's left foot.

PM 9.0 SUPPORT GROUP

PM 9.1 Computer/Data Recorders

Data recorders are permitted, must be standalone, FIA accepted, and used for information gathering only. Digital dash display permitted. Ride height sensors permitted, may only be connected to the data recorder.

See FIA General Regulations 9.1, 9.2.

PM 9.2 Fire Extinguisher System

Minimum 18.7 pounds (8.5 kg) fire extinguisher system meeting SFI Spec 17.1 or FIA Standard, "FIA standard for plumbed in fire extinguisher systems in competition cars" (Technical list No 16) or FIA standard 8865-2015 (Technical list No 52) Mandatory. Technical List Number 16 Extinguisher Systems and Technical List Number 06 AFFF extinguishing products are mandatory. System must be divided so that a minimum of 13.7 pounds (6.2kg) is directed into the engine department by means of nozzled outlets placed in front of each bank of exhaust headers. The remaining 5 pounds (2.3kg) or more should be dispersed into the driver's compartment by means of an atomizing nozzle placed at the driver's feet. Must be installed per manufacture's specifications. Fire bottle activation cables must be installed inside frame rail where cables pass engine/bellhousing area if fire bottles are mounted in front of the firewall. All cars are required to have a pneumatic cylinder, pressurised by the fire system that will activate the master kill switch or isolator switch and shut off the engine when the fire system is activated.

See FIA General Regulations 9.3

PM 9.3 Pressurised Bottles

A maximum of one (1) pressurised container per vehicle (excluding fire systems, nitrous and fresh air system bottles). See FIA General Regulations 9.8.

PM 9.4 Shut-Off Device

Supercharged and turbocharged cars are required to have properly installed and operational Electrimotion Pro Mod Shut off Controller Kit (part number SB001) and Electrimotion Shut off Receiver (part number RF001). Nitrous cars are required to have properly installed and operational Electrimotion Shut off Receiver (Part number RF001PS). The Electrimotion Pro Mod Shut off Controller Kit and Shut off Receiver must be properly installed as per the Manufacturer's instructions. Modifying or tampering with the Electrimotion Pro Mod Shut off Receiver Kit and Shut off Receiver is prohibited.

172

 (\bigcirc)

MOTOL REPORT OF

PM 9.5 Tow Vehicles

Permitted. See FIA General Regulations 9.12.

PM 9.6 Warm-Ups

See FIA General Regulations 9.5, 9.15.

PM 10 DRIVER

PM 10.1 Credentials

Valid FIA Competition Licence required for International Events, Motorsport UK Licence required for domestic competition.

PM 10.2 Driver

Must be in stock location.

PM 10.3 Driver Restraint System

A minimum 6 point driver restraint system meeting SFI Spec 16.1, 16.5 or FIA 8853/98 or 8835-2016 installed according to the manufacturer's instructions mandatory. See FIA General Regulations 10.5

PM 10.4 Head and Neck Restraint Device/System

The use of a head and neck restraint system in mandatory.

At all times that the driver is in the race vehicle, from the ready line until the vehicle is on the return road, the driver must properly utilise an FIA homologated device or an SFI approved head and neck restraint device/system, including connecting to the helmet as required for full functionality of the device. The device/system must meet an FIA homologated standard or SFI Spec 38.1 and must display a valid label accordingly. The head and neck restraint device/system when connected must conform to the manufacturers mounting instructions, and it must be configured, maintained and used in accordance with the manufacturer's instructions. A device that meets FIA standard 8858-2002 or 8858-2010 is recommended.

See FIA General Regulation 10.8

PM 10.5 Helmet

For all cars a full face helmet and visor meeting FIA Standards 8858-2002 or 8858-2010 or 8858-2015 or 8860-2004 or 8860-2010 or 8860-2018 or Snell SA2010, SAH2010, SA2015, SAH2015 of full face SFI 31.1/2010, 31.1/2015 helmet and visor mandatory, (goggles prohibited). Alternatively any helmet in conformity with the current FIA Technical List number 25 and not noted as being for Autocross only is accepted. Eject Helmet Removal System (Part # SDR 890-01-30) mandatory and must be installed per manufacturer's instructions. A Stand 21 Lid Lifter head sock/balaclava meeting SFI 3.3 or FIA 8856-2000 may be

173

) motorsport uk

used in lieu of the Eject Helmet Removal System. In addition, any FIA approved balaclavas meeting FIA Standard 8856-2018, and that is indicated in the technical list as a balaclava that reduces the loads transmitted to the drivers neck while the helmet is being removed, may also be used in lieu of the Eject helmet removal system.

See General Regulations 10.7.

PM 10.6 Protective Clothing

Suit meeting SFI Spec 3.2A/20, gloves and footwear meeting SFI Spec 3.3/20 are mandatory. All jacket/pants or suits meeting SFI Spec 3.2A/20 must be recertified every five (5) years

A head sock meeting SFI Spec 3.3 or FIA 8856-2000 or 8858-2018 a skirted helmet meeting SFI Spec 3.3 is required on all cars. See General Regulations 10.10 See FIA General Regulation 10.10

TOP FUEL DRAGSTER

For this class the current FIA Top Fuel rules in FIA Yearbook with its changes in the monthly FIA bulletin applies all the time. DESIGNATION

TF/then car number. For Starting numbers: See GSR: 7.3

Reserved for fuel-burning Dragsters, built specifically for drag racing competition, meeting FIA International Top Fuel Rules.

TOP FUEL FUNNY CAR

Reserved for Nitromethane burning Funny Cars built specifically for drag racing competition.

For this class the current FIA Funny Car rules in FIA Yearbook apply except for the following items;

Valve Covers

May be fabricated steel, titanium, aluminium, cast magnesium or aluminium. Must be installed using steel studs (4130 minimum) and steel nuts. Titanium valve covers must be SFI Spec 14.4, all other valve covers must have SFI Spec 14.4 blanket. Driveline Cover or Reverser Cover.

174

()

MOTOLICIAN MOTOLICA

Transmission

No requirement for pneumatically operated neutral lock out release pin.

Brakes

Carbon Fibre brake rotors mandatory on rear and permitted on the front.

Wheels

Rear wheels meeting SFI Spec 15.3 or 15.4 mandatory.

Body

No age limit for the body design.

Electrical Components

The use of electrical/electronic timers to control pneumatic fuelsystem valves and/or electric fuel control solenoid valves and/or clutch control valves is permitted.

Magnetos

A maximum of two magnetos are allowed, not to exceed 44 amps per magneto. Magnetos limited to the following models; MSD Pro Mag Systems, 44 amps 8130, 8140.

Shut Off Controller

The 1000ft Electrimotion Funny Car Safety Receiver (part number RF001) is recommended.

Helmet

Full-face helmet meeting Snell SA 2010 or SA 2015 with shield is mandatory. Eject helmet removal system (part No SDR 890-01-30) or a Stand 21 Lid Lifter head sock meeting SFI 3.3 may be used.

Computer/Data Recorder

Ride height sensors permitted; may only be connected to data recorder. Data recorders permitted. Data recorder may be used in conjunction with manufacturer's digital dash display.

DESIGNATION

FC, preceded by the car number. For Starting numbers: **See GSR: 7.3**

175

((C)))

MOTOLICIAN MOTOLICA

CHARTS & FORMULAS

Displacement = bore x bore x stroke x .7854 x # of cyl.
Volumes:
Bore x bore x 12.87 x depth of deck clearance = volume (cc's)
of deck clearance
Bore x bore x 12.87 x thickness of head gasket = volume (cc's) of head gasket
Comb Chamber CC's + Gasket CC's + Compression Ratio = <u>Deck CI CC's + Displacement x *2.0483</u> Comb Chamber CC's + Gasket CC's + Deck CI CC's
*2.0483 for 8 cyl. *2.7311 for 6 cyl. *4.0967 for 4 cyl. π = pie π = 3.1416 radius ² = radius x radius

	.,	
π = pie	$\pi = 3.141$	6 radius ² = radius x rad
Circumferen	ice =	π x diameter
Area of Circ	le =	π x radius ²
Volume of C	ylinder =	π x radius ² x height

Weights

Oil	1 gallon	=	8.33 lb.
Petrol	1 gallon	=	7.4 lb.
Nitro	1 gallon	=	11.25 lb.
Alcohol	1 gallon	=	8 lb.
Water	1 gallon	=	10 lb.

Above weights are for UK gallons 1.19 US gall = 1 UK gall

Titanium is 57% of weight of steel Aluminium is 35% of weight of steel Magnesium is 22% of weight of steel

METRIC & STANDARD CONVERSION Length 1 Kilometre = 1000 metres = 3,280.83 ft. = .6215 mile

- 1 Metre = 100 centimetres = 39.37 in = 1.09 yards
- 1 Centimetre = .3937 inch
- 1 Mile = 1.609 kilometres
- 1 Yard = .91 metres
- 1 inch = 2.54 centimetres
- 1 inch = 25.4 millimetres

Mass

1 kilogram = 1,000 grams = 2.2045855 lbs.

- 1 lb. = 453.6 grams
- 1 ounce = 28.35 grams
- Lbs. x 2.20 = kilos
- Kilograms/2.20 = lbs.

176

) motorsport uk

Volume

1 litre = 100 cubic centimetres = 61.025 cubic inches 1 cubic inch = 16.387 cubic centimetres

BIKES

INDEX

Page

182	General Regulations	GR
188	The Basics of Drag Racing	
190	Race Procedures	RPS
196	Points & Related Programmes	
198	GENERAL SAFETY REGULATION	ONS
198	Engine	GSR1
201	Drive Train	GSR2
202	Brakes Suspension	GSR3
202	Frame	GSR4
203	Tyres Wheels	GSR5
203	Seat	GSR6
203	Body	GSR7
204	Electrical	GSR8
204	Support Group	GSR9
205	Rider	GSR10

206 CLASS REGULATIONS

207	8.50 Bike	SC
209	9.50 Bike	SB
211	Super Street Bike	SS
213	Pro Stock Bike	PS
217	Competition Bike	СВ
219	Funny Bike	FB
222	Top Fuel Bike	TF
225	Junior Drag Bike	JRB
226	ET Bike	ETB
229	Super Twin ET	ST/ET
229	Super Twin Top Gas	STTG
233	Super Twin Top Fuel	STTF
236	Charts & Formulas	
237	Contact Names - Bikes	

177



Fast is our thing!

Whether you want championship winning performance, extreme streetfighter designs or just somewhere to take your loved ones for some TLC this is what we do.

From servicing, tyres and MOT's to discounted consumables, from 500bhp road monsters to 6 second drag bikes. Race subframes and fairing brackets to one off machining.

Warpspeed Racing is your one stop performance shop.

Our mission is to provide the best that we can deliver to the customers' requirements.

- Turbo charging
- Nitrous
- Fabrication
- CNC
- Performance Tuning
- Bespoke work.
- A one stop performance shop that delivers with results.
- A company that has perfected its fabrication and tuning.

Tel 01263 821764

Website: www.warpspeedracing.co.uk e-mail: stuart@warpspeedracing.co.uk

facebook: www.facebook.com/pages/warpspeed-

racing



178



MOTOR CYCLE DRAG RACING GENERAL REGULATIONS

GR 1 ORGANISATION

GR 1.1 The National Sporting Code of the Auto Cycle Union (incorporating the provisions of the International Sporting Code of the FIM) and any subsequent amendments officially promulgated and issued and these Specific Regulations shall apply.

GR 1.2 Unless stated hereafter Organisers must comply with chapter 3 of the National Sporting Code.

GR 2 OFFICIALS AND THEIR DUTIES

GR 2.1 Unless stated hereafter, Officials must comply with chapter 5 and 6 of the National Sporting Code.

GR 2.2 The Race Director shall have the same responsibilities, duties and powers of a Clerk of the Course and absolute discretion in general conduct and control of the event and the application of penalties for any infringement by participant or machine.

GR 2.3 Subject to the prescriptions of the National Sporting Code the decision of the Race Director and/or Event Director shall be final.

GR 3 COMPETITORS

GR 3.1 Unless stated hereafter, Competitors must comply with chapter 7 of the National Sporting Code.

GR 3.2 Participant shall be deemed to be any person within the meaning of chapter 7 of the National Sporting Code.

GR 3.3 The display of any identification, badge or pass will be deemed to identify the person concerned with the participant and will imply their acceptance of these regulations.

GR 3.4 LICENCES-COMPETITORS

GR 3.4.1 General

- 1. In order to participate in Drag Racing events a licence issued by the ACU is required. Scottish residents apply to the Scottish ACU.
- 2. A licence can be upgraded at any time during the year, providing the correct criteria have been complied with to the satisfaction of the Clerk of the Course.
- The parent or legal guardian must accompany all competitors under 18 years of age to every meeting. This person must attend at signing on and be present throughout the meeting.

Contraction (Contraction) (Con

179

- A Clubman Licence will be issued to all new or existing riders to include a record card which will be completed by the Clerk of the Course on completion of the requirements set out below.
- Any rider competing on a new bike to him/her must first complete single runs to the satisfaction of the Clerk of the Course.

GR3.4.2 GRADES

1. Clubman

This is the entry level for first time applicants for Category 1 or Category 2 machines.

Category 1 - Riders 16 years of age and over

8.50 9.50 Super Twin Top Gas (STG) Super Twin ET Bracket (SET) ET Bike

Clubman licence holders may compete on a Category 1 machine once they have completed the following requirements to the satisfaction of an ACU Clerk of the Course.

- Be conversant with the start and race procedure.
- Complete a 55 yard launch.
- Make a half pass (1/8 mile) under power to the satisfaction of the Clerk of the Course.
- Make a full run (1/4 mile) representative of the performance expected within the category.

All tasks must be made as single runs during qualifying sessions at an ACU recognised drag race meeting or under the control of an ACU licensed National or International Drag Race Clerk of the Course at RWYB events.

The Clerk of the Course may request the rider to repeat tasks until they are satisfied that a safe standard has been achieved, which take more than one may race meeting and is at the sole discretion of the Clerk of the Course.

The ¼ mile pass will count towards qualifying at an ACU recognised event.

Category 2 - Riders 16 years and over

Super Twin Top Fuel Super Street Bike Competition Bike Pro Stock Bike Funny Bike Top Fuel Bike

180

()

MOTOLICIAN MOTOLICA

Clubman Licence holders are not eligible to compete on Category 2 machines. They are permitted to ride a category 2 machine to complete the tasks required to up-grade to a National licence as detailed below.

2 National

Clubman licence holders who have completed the following tasks to the satisfaction of an ACU National or International Clerk of the Course and whose record card has been endorsed by the Clerk of the Course for each task completed may apply to upgrade to National.

- Be conversant with the start and race procedure.
- Perform a burnout and launch correctly.
- Make a half pass (1/8 mile) under power to the satisfaction of the Clerk of the Course.
- Make a full run (1/4 mile) representative of the performance expected of the category.

All tasks must be made as single runs during qualifying sessions at an ACU recognised drag race meeting under the control of an ACU licensed National or International Drag Race Clerk of the Course.

The Clerk of the Course may request the rider to repeat tasks until they are satisfied a safe standard has been achieved, which may take more than one race meeting and is at the sole discretion of the Clerk of the Course.

National licence holders who have competed at 3 ACU permitted events may apply for Start Permission to compete abroad.

3 International

National Licence Holders who have held their National Licence for 12 months may apply for an FIM Non- Championship Licence. A medical examination is required.

4 International Championships

A National Licence holder who has held their National Licence for 12 months may apply for a UEM or FIM Championship Licence as described in the appropriate Sporting Code. A medical examination is required.

5 LAPSED LICENCES

Clubman or National Licence holders who have allowed their licence to lapse for more than 3 years will be re-issued with a **CLUBMAN** Licence and will be required to complete the criteria set out above to retain the Clubman licence or up-grade to the National Licence.

181

((C)))

MOTOLESOOLT OK

6 CAPACITY AND LICENCE RESTICTIONS FOR JUNIOR COMPETITORS

For each category the table indicates the minimum licence requirements for their specified ages and machines.

Riders must be a minimum of 8 years of age.

To be eligible to enter Junior Pro Bike, a rider must be at least 14 years of age and must have competed in Junior Bike Mod for a minimum of five ACU Junior Drag Bike meetings.

Class	Engine Restrictions	Min Age	Max Age	Min ET
Junior	50cc Automatic	8	11*	12.90
Bike	125cc 4 Stroke			
Junior	125cc 2 Stroke	11	17*	8.90
Mod Bike	250cc 4 Stroke			
Junior	250cc 2 Stroke	14	17*	7.90
Pro Bike	50cc 4 Stroke			

Minimum Age, Maximum Age ET and Engine Restrictions

*A rider may compete in a class until the end of the calendar year in which he/she reaches the maximum age for that class.

Junior riders will compete over a maximum distance of $1/8^{\rm th}$ mile and will be run on an ET dial-in basis.

Important Notice

If a participant is under 18 years of age he/she must be accompanied to every meeting by their parent or legal guardian. The parent or legal guardian must attend signing on with the competitor and be available for the duration of the race meeting.

Penalties

A rider recording an ET of 0.2 seconds or less below their class minimum will receive one warning. A repetition of the offence at the same event will result in disqualification from the remainder of the event.

A rider recording a time of more than 0.2 seconds below their class ET or exceeding 85 mph will be disqualified from the event.

GR 3.5 Entrants and Riders must ensure they have a Medical Certificate valid for the event and category of vehicle.

GR 3.6 The Race Director may forbid a rider to take part in competition for reasons of safety or any apparent deficiency in performance.

GR 3.7 A rider may not ride more than one machine in the same category at the same event.

GR 3.8 Any rider deemed to have ridden in a manner not compatible with general safety or whose behaviour or actions is prejudicial to the

182

 (\bigcirc)

MOTOLIS DOLL OR

interests of the organisers or motor sport generally may be immediately excluded from the meeting.

Any participant who, in the sole and absolute judgement of ACU, 1) verbally or physically threatens another participant or other person, 2) uses vulgar or derogatory language, 3) engages in unsportsmanlike conduct or conduct detrimental to the sport of racing, or 4) otherwise creates a condition or circumstance which is unsafe, unfair, or out of order, shall have violated the rules and regulations of the ACU. See also chapter 10 in the National Sporting Code.

GR 3.9 For protest procedures see chapter 11 of the National Sporting Code.

GR 3.10 For appeal of disciplinary and other actions see Chapter 11 of the National Sporting Code of the 2017 ACU Handbook.

GR 3.11 For substance abuse policy see Chapter 9 of the National Sporting Code of the 2017 ACU Handbook.

GR 4 VEHICLES

GR 4.1 Unless stated hereafter, machines must comply with Drag Racing section of the ACU Handbook.

GR 4.2 Classification, unless otherwise stated in the SR's, shall be as prescribed in the Class regulations.

GR 4.3 Annual registration of machines and riders with Organising Clubs is mandatory.

GR 4.4 Registration/Entry forms must be submitted on the official Race Vehicle Registration/Entry forms issued by each Organising Club.

 ${\rm GR}$ 4.5 Re-registration may be required for any change made to the classification of machine.

GR 4.6 Vehicle may be given a permanent race number for the year.

GR 4.7 Numbers must be displayed in accordance with the specific class format; affixed in such a way to ensure their durability and legibility and be of sufficient contrast to their background. They shall be subject to the approval of Chief Timekeeper.

GR 4.8 The naming of machine will be subject to the approval of each Organising Club. Duplication of names will not be permitted. **GR 4.9** Decals must be displayed as required by the event or series organiser.

GR 4.10 Machines must be in clean and presentable condition throughout an event. Personnel attending a competing vehicle should be aware of the same considerations.

183

()

MOTOLICIAN MOTOLICA

GR 6 SCRUTINEERING

5.1 In presenting a machine for scrutineering, entrants will be deemed to have accepted the conditions of entry and these regulations and that the machine and personnel within their jurisdiction will comply with the regulations throughout the meeting.

Prior to competition, all machines and riders must pass a technical and safety inspection. Contestants in all classes calculated by weight to litre (cubic centilitres) must claim calculated engine displacement to determine exact bike weight on a sticker. Any engine changes made must be reported to the chief technical Scrutineer for proper registration before any further runs are made.

Each participant expressly agrees that by entering an event conducted at a ACU permitted event, the participant agrees to be bound by all of the decisions, rules and regulations of ACU, including all procedures provided for in this rule book, the ACU Handbook, and by decisions, rules and regulations which are applicable to a particular event. The participant agrees to be bound by and abide by the decisions of the ACU Stewards, Event Director, Clerk of the Course, Race Director, and their designees and other officials at ACU permitted events.

GR 5.2 Entrants may be required to sign mandatory indemnities.

GR 5.3 No machine is permitted to take part in practice or a race without the approval of the Chief Scrutineer.

GR 5.4 Race Director may require:-

GR 5.4.1 the eligibility of an entrant, rider or machine to be checked at any time or prescribed place before or during the meeting or afterwards subject to the entrant being notified not later than half an hour after the publication of a valid provisional result.

GR 5.4.2 a machine to be re-scrutineered at any time throughout the meeting.

GR 5.4.3 after a competitor's machine has been inspected and classified, no changes of class are permitted.

GR 5.4.4 the right is reserved at any time to inspect, seal for inspection and/or tear down a participant's machine.

GR 5.4.5 a machine to be dismantled to ensure it complies with the regulations.

GR 5.4.6 an entrant to supply such components and or samples as may be required.

Participants hereby grant ACU and its organising clubs and its assignors the full and unconditional permission to collect and retain machines, parts of machines, equipment, or any other items used in conjunction with participation owned by or in the possession of

184



participant, including such machines, parts of machines, equipment, or any other items which have been involved in accidents when ACU and its assignors determines in its sole and absolute discretion that such actions are necessary to the investigation of an accident, the inspection or testing of such machines, parts, or equipment, or for any other purpose.

GR 5.4.7 a rider to be medically examined for reasons of safety.

The Basics of Drag Racing

WHAT IS A DRAG RACE?

In basic terms, a drag race is an acceleration contest from a standing start between two vehicles over a measured distance. The accepted standard for that distance is either a quarter-mile (402.336m) or an eighth-mile (201.168m). These contests are started by means of an electronic device commonly called a "Tree". Upon leaving the starting line, each contestant activates a timer which is, in turn, stopped when the same vehicle reaches the finish line. The start-to-finish clocking is the vehicle's ET (elapsed time), which serves to measure performance and often serves to determine handicaps during competition.

WHO CAN COMPETE?

Virtually anyone can compete in drag racing. Riders are required to have a valid ACU Licence, and must be capable of the safe operation of the machine. The machine must meet basic safety criteria. This applies to most streetable type motorcycles. Faster, all-out race machines must meet more stringent requirements as outlined throughout this rule book, and riders must hold the appropriate ACU Licence.

WHO WINS WHAT?

A drag racer's primary objective is to become the overall winner of the category of competition in which his/her machine is classified. A series of two-bike, tournament-style eliminations are conducted. The losing vehicle in each race is eliminated, while the winning riders progress into succeeding rounds of competition. This series of races continues until one winning rider remains. That rider is declared the category's winner.

RESPONSIBILITY

Prime responsibility for the condition and operation of a machine in competition rests with the machine's owner and rider. The track operator's and the organising clubs main concern is that of providing a place to conduct events. ACU produces guidelines based on experience gained in the production of events each year and circulates valid information to help perpetuate the sport and maintain good organisation. Total responsibility for drag racing's progress, however, must be shared by everyone associated with the sport. Close observance of the standards set forth in this rule book, the ACU Handbook and the International Code of the FIM is an important fundamental.

185

MOTOLIS DOLL OR

ET HANDICAPPED RACING

While some racers choose to race vehicles they build to certain specifications to fit into a certain ACU class (outlined elsewhere in this rule book), at some events categories may be divided on the basis of performance or ET (elapsed time) Brackets. This is known as ET Handicap racing.

In this form of racing, two vehicles of varying performance levels can race on a potentially even basis. The anticipated elapsed times for each vehicle are compared, with the slower bike receiving a head start equal to the difference of the two. With this system, virtually any two vehicles can be paired in a competitive drag race. For example: bike "A" has been timed at 11.78, 11.74 and 11.76 seconds for the quarter-mile (402.336m), and the rider feels that a "dial-in" of 11.75 is appropriate. Meanwhile, the rider of bike "B" has recorded elapsed times of 10.27, 10.22 and 10.26 on the same track and he has opted for a "dial-in" of 10.25. Accordingly, bike "A" will get a 1.5-second head start over bike "B" when the "Tree" counts down to each bike's starting green light. If both vehicles cover the quarter-mile in exactly the predetermined elapsed time, the win will go to the rider who reacts quickest to the starting signal. That reaction to the starting signal is called "reaction time". Both lanes are timed independently of one another, and the clock does not start until the vehicle actually moves. Because of this, a vehicle may sometimes appear to have a mathematical advantage in comparative elapsed times but actually lose the race. This fact makes starting line reflexes extremely important in drag racing.

THE STARTING SYSTEM

Essentially, drag racing is a pairing of two vehicles against one another in a race through a straightaway course. Hence, the start is the key to its uniqueness, because all races start from a standstill. Today's modern starting system, commonly referred to as the "Tree", is a product of continued development, designed to provide each competitor with the fairest start possible. The system features a vertical series of lights, displaying a visual countdown for each driver. Most riders try to make their move between the last amber light going off and the green light coming on. Technique in staging and starting is one of the most vital skills a drag racer can develop, since a majority of races are won or lost at the starting line. Close observation and lots of practice pays off.

TIMING METHODS

Two separate performances are monitored for each run: the elapsed time and the speed. On an elapsed time run the bike first leaves the starting line, connecting the beam which activates the electronic timer. As the bike continues through the course, the timer records the elapsed seconds and fractions of seconds until the bike breaks the finish line beam and stops the timer. Top speed is determined by the bike breaking one additional light beam, at the finish line.

WHAT IS "BREAK-OUT" AND/OR "RED LIGHT"?

Should a rider go quicker than his/her predetermined ET "dial-in" it is a "break-out," and grounds for disqualification. In the case of both vehicles making runs under their dial-ins, the win goes to the rider

186



who breaks out the least. Another form of disqualification is a foul start (or "red-light"). This happens when the rider reacts to the "Tree" too quickly and moves away from the starting line before the green "go" signal. Should dual infractions occur, say a red-light and then a break-out, the red-light would be classified as the worst infraction.

RACE PROCEDURES

RPS 1.1 ACU COMPETITION NUMBERS

All contestants in ACU/UK Drag Bike Championship are required to display a permanent driver number at all ACU Drag Bike Championship events and all other events. Numbers are issued to riders only and are available from ACU through ACU Championship Co-ordinator, Ian King, 11 Cockhall Close, Litlington, Royston, Herts, SG8 0RB Fax: 01763 852707 Mobile: 07785 341099. Racers must have a separate number for each eliminator category.

RPS 1.2 OTHER CLASS COMPETITION NUMBERS

All contestants in other classes are required to display a permanent rider number at all other events. Numbers are issued to riders only and are available from organising clubs. Racers must have a separate number for each eliminator category.

RPS 2.1 BURNOUTS

All pre-race burnouts are restricted to designated areas, using water only. If a contestant's machine should break on a burnout and cannot back up or be pushed back, it is not permitted to turn on the track and ride back to the starting line. Crossing the centre line during a burnout is not a disqualification. Fire burnouts are strictly prohibited. No person is permitted to hold or touch bikes during burnouts.

Top Fuel bike and Funny Bike allowed one burnout across the starting line under power. Length and time duration must be reasonable and in concert with the opponents procedures. Comp Bike, Pro Stock, Super Street, 9.50 Bike & 10.50 Bike may not cross the starting line on any burnout; stationary burnout limit: Five seconds.

RPS 2.2 STAGING

Once a bike reaches the front of the staging lanes for a run, it must be prepared to fire and race. With the exception of machines running with Nitromethane as a fuel, riders are only allowed to restart their engines once after a burn-out. Machines running with Nitromethane as a fuel are not allowed to restart their engines after a burn-out. In order to be a legitimate race winner, a contestant's bike must selfstart and self-stage. This rule also applies to single runs. Pushstarting or push-staging a machine is prohibited. Staging must be done under the machine's own engine power.

The application or use of any device, mechanical or electronic that permits the rider to ascertain the position of their machine in relation to the starting line is prohibited. Only visual observation of track equipment may be used to ascertain the machine's position.

) motorsport uk

The practice referred to as "deep staging is prohibited in the 9.50 bike and 8.50 bike categories (permitted in all other categories). Both pre-stage and stage lights must be activated to constitute a legal start in those categories. In dual deep-stage situation, both competitors will be disgualified- except in the final round of competition, in which case the two finalists will be rerun. When staging for all bike classes both contestants must have their prestage lights activated before either may advance into the stage beams, however if the first rider has activated both the pre-stage and the stage beams and the second rider chooses to go into both the pre-stage and the stage beams the official starter can declare it as a legal start. If both riders of a race leave the line before the start system is activated-both are disqualified. A rider on a single run leaving before the starting system is activated would advance, however, any ET's posted would be void for lane choice or other considerations. THE FINAL STAGING MOTION. USING APPLIED POWER, MUST BE IN A FORWARD MOTION GOING FROM PRE-STAGED TO STAGED POSITION.

A reasonable amount of time will be allowed for riders to stage. The time limit will be determined in the sole and absolute discretion of the Official Starter. Failure to stage upon the Starter's instructions is possible grounds for disqualification. After proper staging and receiving the Starter's signal to go, it is not allowable to re-stage for a second time. Any rider leaving the starting line before the start system is activated, including riders on a single run, will have their time disqualified for the run.

RPS 2.3 STARTING SYSTEM

All classes utilise the three-amber "Pro Start" Tree. All amber lights are activated simultaneously, with a four-tenths of a second delay to green.

RPS 3.1 QUALIFYING

In order to constitute an official qualifying attempt, all bikes must selfstart and self-stage. Competitors must have a valid elapsed time recorded under engine power to be placed into eliminator competition whether the first round ladder pairings are determined by qualification times or by random selection. A contestant cannot ride more than one machine in the same category at the same event. Machines must remain in the category entered, with one registered rider for the duration of the event. The Event Director / Clerk of the Course has the option of allowing rider or machine changes, but only under the following conditions:

All previous event times are void for machines and riders involved.
 Machines must pass a technical and safety scrutineering inspection.

3) Changes must be made, and rider must re-qualify, during the normal schedule, as posted, for the event. No changes are permitted after qualifying has been completed.

4) Rider must stay within original eliminator category entered, and have proper credentials to ride replacement machine.

5) Only one change permitted during the course of an event.

Replacement machines must be of same class and category.

188

(C))

MOTOLESOOLT OK

In the event of identical qualifying elapsed times in ACU National Championship classes the rider with the faster top speed, recorded on the qualifying runs in question, will be awarded the higher qualifying position.

Qualifying order for 8.50 bike and 9.50 bike and in ET Bracket classes; for all riders that have an ET that is the same as the class index/personal dial-in index, or slower, the time closest to that index is used to determine qualifying position. For riders that have E.T.'s that are quicker than the class index/personal dial-in index, the slowest time is awarded the higher qualifying position.

In the event of identical qualifying elapsed time within 1/1000 of a second, the rider who made the run first will receive the better qualifying position. If qualifying cannot take place, random pairing will be used.

There will be compulsory alternate lane qualifying. If weather conditions or other event delays should disrupt posted lane rotation for qualifying runs, the Race Director/Event Director has the option of reassigning lanes as necessary for remaining runs. Every effort will be made to see that qualifying contestants have the opportunity to run in each lane.

In ACU Championship classes in the event of a qualifying session being interrupted or abandoned by bad weather, the following conditions will apply. If less than 75% of the total number of competitors entered in a class have made qualifying runs, the emergency qualifying times will be used. If more than 75% have made qualifying runs then EQT's will only be used for the competitors who were unable to run. Everyone else will be paired by the qualifying times they were able to record. A record of ACU Championship EQT's will be maintained by the ACU Championship Co-ordinator and will be the competitor's quickest time from the past two ACU Championship meetings. In the case of one or more identical times arising in the same class, the next quickest time will be considered, with the lowest ET taking precedence in the pairings selection. When no previous ET has been recorded, competitors concerned will assume the lowest positions in their class if there are vacant spots. When qualifying positions are determined by EQT's their field will be on an all run basis.

RPS 3.2 LADDERS

Prior to the first round of any elimination, pairings will be displayed. Any queries concerning pairing must be taken up with the Race Director/Event Director not later than one hour before racing is scheduled to start. All classes will be given adequate notice of their running time. All elimination pairs must be run in the order of the ladder.

At non-Championship events there may be two methods of establishing first round pairings. This would be either by qualification elapsed times or by random selection of first round pairings. Supplementary Regulations will specify which method is to be used at those events.

189

MOTOL REPORT OF

Professional ladders will be used. Top Fuel bike will be operated on all qualified basis. All other classes will have set field sizes based on the number of qualified riders as follows:

2-3 Qualifiers	2 bike field
4-5 Qualifiers	4 bike field
6-12 Qualifiers	8 bike field
13-24 Qualifiers	16 bike field
24+ Qualifiers	32 bike field

RPS 3.3 BREAK-OUT RULES

In 9.50 bike and 8.50 bike classes, the break-out rules are enforced at any event except as follows:

- 1) When an opponent foul starts or crosses a boundary line.
- 2) on a single run.
- 3) When both riders run under their
 - Index, the rider that is the least under is the winner.
- 4) If two contestants run under by the same margin (with elapsed times extended to a thousandth of a second), the rider crossing the finish line first is the winner.

RPS 3.4 SINGLE RUNS

In situations where a rider is making a single run, he is considered the winner once he stages and receives the start signal. If a competitor crosses the boundary line on a single run, the elapsed time is voided for lane choice determination.

RPS 3.5 ALTERNATES

Once qualifying has concluded and a ladder has been established, pairings will not be changed. However, should a qualified machine and rider be unable to make the first round of eliminations (not reach the bleach box), an alternate will be inserted in their place. The quickest non-qualifier will take the first available space, the second quickest non-qualifier the next available space and so on. When and if this would happen is at the sole discretion of the Race Director/Clerk of the Course.

RPS 3.6 LANE CHOICE

In ACU Drag Bike Championship classes, lane choice is determined by elapsed times. The rider with the better qualifying ET gets firstround lane choice, and in subsequent rounds, lane choice goes to the rider with the lower ET in the previous round. The rider with the quickest time from the preceding round will be allowed to inspect the start line, if required, immediately prior to the running of his/her class. In all other categories, competing riders are to determine lane choice by a coin flip or a random draw lane assignment, except where stated otherwise in championship regulations. In the event of both competitors having previous ET's voided, lane choice would be determined by a coin flip,

190

RPS 4.1 DISQUALIFICATION:

One of the rarities at an event is the situation in which two bikes are disqualified during the same elimination race. In most cases, both offending contestants are disqualified. Those situations include both riders crossing the boundary lines or both riders leaving the line before the start system is activated.

Should a rider receive a red-light foul start, and the opposing rider cross the lane boundary line, the latter infraction would prevail and the rider committing the foul start would be reinstated. In determining lane boundary crossing violations, it is considered a disqualification when any portion of a tyre completely crosses the painted line surface. In cases where both opponents cross the centre line or outside line, both riders will be disqualified. In situations where multiple boundary lines are utilised, the line directly adjacent to the competitors racing lane will be used for reference. Anytime it has been judged that excessive braking has resulted in the loss of control as to cause contact with the guard-rail, light fixtures, or crossing the contre boundary lines - INCLUDING PAST THE FINISH LINE - the contestant will be disqualified. Intentional crossing of boundary lines to leave track or avoid depositing debris on track is not grounds for disqualification.

Additional grounds for disqualification, fines, suspensions, and/or expulsions are: 1) contact with guard-rail, barriers, or any other track fixture (rubber cones when used are considered visual aids, not fixtures); 2) unsportsmanlike conduct, improper language, or conduct detrimental to racing; 3) any condition considered unsafe, unfair, or out of order. If a rider is disqualified during competition for any reason prior to the actual start of a race, he cannot be reinstated; 4) Pushing the machine over the finish line to be determent the winner is not permitted.

Any rider and/or pit crew member found to be under the influence of alcoholic beverages or drugs, regardless of amount, will be ejected from the event. Such a condition is cause for suspension, fine and/or revocation of competition privileges.

Refer to National Sporting Code of the ACU regarding penalties, protests and appeals.

RPS 4.1.1 BLUE LINE

Any crew member of a machine touching the machine or the rider after the front wheels have crossed the blue line in the starting line area will receive an automatic disqualification for that machine.

RPS 5.1 NATIONAL DRAG RACING RECORD PROCEDURES

The standard of excellence of performance in drag racing is the setting of National Records. Each recorded run is made under close observation of starting procedures, running, finish, and timing. Each machine is thoroughly inspected to determine its compliance with class requirements, including weight, engine displacement, mechanical limitations, and fuel checks where necessary. The ACU Scrutineers decision in this respect is final.

191

MOTOLIS DOLLANG

Records can only be set during qualifying or eliminations, and only until the rider is eliminated from further competition, practice run performances will not count.

In a sport where records play such a vital role, every effort is made to maintain their accuracy and validity. In order to ensure the validity of all new records, a backup performance of within one percent of the new mark is required at the same event. In the event that two runs exceed the existing record but are not within one percent of each other, the quicker time or faster speed will be acceptable as the backup for the slower time, which will stand as the new record.

Elapsed time records will be recorded and listed to the thousandth of a second. Speed records will be to the hundredth of a mile-perhour. If two contestants tie for the elapsed time record to the thousandth of a second at the same event, the tie-breaker will be the fastest mile-per-hour reading for the run that established the record. In the event a tie still exists, the contestant accomplishing the record is tied at a later race, the record will stay with the rider who set it first. Similarly, if two contestants tie for the speed mark, the tie-breaker will be the quickest elapsed time on the run that established the new National Record. Speed marks may be set independent of elapsed time record.

Only the rider holding the record at the conclusion of the event will be credited with the record. A rider setting and then losing a record at the same event will not receive credit for establishing a record or receive points for doing so.

RPS 5.2 TIMING EQUIPMENT

A full electronic timing system is required, incorporating a handicap facility, individual Elapsed Time and Terminal Speed details for each lane, accurate to .001 second and .01 mile per hour (.016 km/h) respectively.

A full "Christmas Tree" starting system should be used, with three amber lights.

a) Pre-Stage Beam: Located 7 inches (17.8 cm) before the Stage Beam. Its only purpose is to show the competitor that the machine's front wheel is approaching the Stage Beam.

b) Stage Beam: Located 16 inches (40.6 cm) before the Guard Beam, it indicates that the machine is in the correct position for the start. The Stage Light should activate when the leading edge of the machine's front wheel breaks the Stage Beam. The Stage Beam also serves to start the ET timers as the wheel clears the beam, and activates the red "foul" light in the event of the wheel clearing that beam prior to the green light showing.

c) Guard Beam: Ensures that no machine has an excessive amount of roll-out (movement required to leave the Stage Beam). If the Guard Beam is broken at the same time as the Stage Beam, and the starting sequence has been initiated, the timers and the red "foul" light will be activated if the green light is not showing.

d) Finish Line Beam: The Elapsed Time Beam is located at the Finish Line.

192

motorsport uk

e) Speed Traps: These are located 66 feet (20.12 m) prior to and at the Finish Line in each lane.

f) Photocell Heights: Ideally, light sources should be mounted as close as possible to the level of the track surface with the filament in the vertical position. The roll-out at the Start Line should be equal for both lanes, and all beams should be parallel.

POINTS AND RELATED PROGRAMMES CHAMPIONSHIPS / SERIES

Contestants in the ACU Drag Bike Championship:-

Attendance points: Each competitor who has been scrutineered and signed on - 100 points.

Qualifying positions earn points as follows - 10 points will be allocated per qualifying position from the last qualifier upwards, i.e. last qualifier 10 points, second from last 20 points and so on in increments of 10 points per position.

Elimination points: 100 points for each winning run.

Bonus points:	Event Low ET	25 points
	Event High TS	25 points
Championship F	100 points	
Championship F	Record TS	100 points

In the event of a rain off points are scored up to the last complete round of qualifying or elimination.

Ties: In the event of a tie between riders for first place in the Championship after the conclusion of all rounds, the winner will be determined as follows:-

a) The rider who has won the most races during the Championship. If there is still a tie, then:-

b) The rider who qualified highest at the final round of the Championship.

SPORTSMAN CHAMPIONSHIPS

Contestants in 9.50 bike, 8.50 Bike & ET Bike-

Points will be earned from qualifying as follows:

Beginning with 10 points for the bottom qualifier and increasing by 10 points per position up to position No. 2. The number 1 qualifying position then increases by 50 points.

An extra 50 points will also be earned if rider one time only during eliminations or qualifying hits their class index with a perfect time: i.e. 9.500 respectively.

Points for non-qualifiers: If a competitor cannot make it to the first round, or cannot qualify, she/he will earn 10 points if her/his entry form has been approved, and her/his bike has passed the scrutineering inspection at that event.

193

Elimination points awarded as follows:

	1st rd	2 nd rd	3rd rd	4th rd	5th rd	6th rd	7th rd		
	loser	loser	loser	loser	loser	loser	loser	RU	WIN
2-4	100							200	400
5-8	100	200						300	500
9-16	100	200	300					400	600
17-32	100	200	300	400				500	700
33-64	100	200	300	400	500			600	800
65-128	100	200	300	400	500	600		700	900
129 <	100	200	300	400	500	600	700	800	1000

In the event of a rain off points are scored up to the last complete round of qualifying or elimination.

Ties: In the event of a tie between two or more competitors, the following sequence will be used to obtain a result:

- 1. Most win points
- 2. Most runner-up points.
- 3. Most No. 1 qualifier points.

POINTS GENERAL

All points are awarded to the rider and cannot be transferred under any circumstances. Points are not transferable from one category to another. No part of an event can be rescheduled.

Attempts to set Low Elapsed Time will not be permitted after qualifying ends, with the exception of those bikes remaining in category competition. The final run on which a rider is eliminated will be allowed as a Low Elapsed Time. For a rider to be eligible to earn points or prizes, they must display sponsors decals/stickers on their machines as requested by ACU, Organising Club, Promoter, and/or sponsor-championship co-ordinators.

Any contestant disqualified for major mechanical noncompliance loses all points for that particular event.

ALTERNATES

Once qualifying has concluded and a ladder has been established, pairings will not be changed. It is the responsibility of competitors to report breakages no less than one hour before scheduled time for the first round of eliminations. Failure to do so may render their qualifying points void for that meeting. Should a qualified bike and rider be unable to make the first round of elimination's (not reach the bleach box), an alternate will be inserted in their place. The quickest non-qualifier will take the first available space, the second quickest non-qualifier the next available space and so on. When and if this would happen is at the sole discretion of the race director/ clerk of the course.

194

((C)))

MOTOLICIAN CONTRACTOR

GENERAL SAFETY REGULATIONS

The National Sporting Code of the ACU and these Standing Regulations shall apply at all Drag Racing Meetings together with the Supplementary Regulations and any final instructions.

Any participant may request that the ACU issue a ruling, render interpretations or adopt proposed changes concerning provisions in the ACU Drag Racing rules. The request should be sent through a Drag Racing organising club Technical Committee to the ACU Drag Racing Committee which will consider such a request and will determine, in its sole and absolute judgement, whether such request should be formally considered. If the ACU Drag Racing Committee decides to consider such an issue, a panel will be appointed as soon as is reasonable practicable. The panel will consider the issue and make a recommendation to the ACU Drag Racing Committee as to how the issue should be addressed. The ACU Drag Racing Committee will then decide whether to take action on the issue and if so what action to take.

At each Drag Racing meeting there must be a minimum of one Doctor or Paramedic and one Ambulance present. If the Doctor or Paramedic has to leave the track, all racing must cease. For definitions of Doctor, Paramedic, Ambulance and First Aid Personnel, please refer to the Medical Services Section within the 2017 ACU Handbook and page 193 Road Race Safety Section. **Medical:** Stretcher Apparatus to immobilise limbs and

Apparatus to immobilise limbs and Vertebral column

Oxygen supply First Aid Kit and Materials **Technical:** Radio Communication Visible and Audio Signals 2 First Aid Personnel

There will be a minimum turnaround time of 30 minutes for all classes with the exception of Pro Stock/Funny bike of 45 minutes and Top Fuel bike with a turnaround time of 60 minutes, track conditions permitting

The safety precautions of tracks of 1000 yards and over in length will be as laid down for each permanent course licence or temporary course certificate following an inspection of the course.

ENGINE: GSR1

GSR 1:1 CAPACITY RESTRICTIONS

See class regulations. Where the individual class regulations allow, supercharges and turbochargers are allowed up to 2000cc, normally aspirated engines are allowed up to 3300cc.

GSR 1:2 DRAIN PLUGS

All drain plugs securing any liquid must be so fitted as to prevent any leakage, and positively locked against loosening, with wire.

195

 (\bigcirc)

MOTOLICIAN MOTOLICA

GSR 1:3 ENGINE

OEM car and motorcycle engines allowed. Aftermarket cases must have same number of cylinder studs as OEM motorcycle manufacture and located within 2mm of stock position, Non OEM based engines allowed at the discretion of the ACU Technical Committee.

GSR 1:4 ENGINE RESTRAINTS

V-twin motors running injected nitromethane must utilise cylinder head restraint or a ballistic type explosion blanket. Blankets must meet SFI spec.

GSR 1:5 FUEL LINES

Fuel lines must be securely fitted at all joints and a quick action fuel tap must be within easy reach of the rider. Where nitromethane fuel is used in any percentage, a lanyard is mandatory to operate a spring loaded fuel shut off valve and must be situated on the entry side of the barrel valve, with means to completely cut off the fuel supply by handlebar control.

GSR 1:6 FUEL PUMPS

Any make of fuel pump may be fitted. If electrically operated, the pump must be connected to the ignition switch so they are switched off with the ignition.

GSR 1:7 FUELS

For petrol burning classes, the dielectric constant as per DC meter may be no greater than 4. Propylene Oxide is prohibited. Octane boosters are permitted. For non-petrol burning classes, hydrazine and polypropylene oxide is not permitted; otherwise there is no limitation to the types of fuel permitted. Competitors should check the class regulations for any specific restrictions. Unless otherwise specified for any series or championship, leaded and unleaded fuel will be permitted.

GSR 1.7.1 Nitromethane

It is mandatory that all nitromethane fuel must contain a marker dye that will change colour when the fuel becomes sensitised or contaminated. Due to impending legislation regarding the supply of nitromethane and its possible misuse by subversive organisations, the following measures have been agreed with the Special Counter Terrorism Security department of the Home Office.

- Any NM fuel container not in service (actually being used) shall not be within sight or reach of the general public. After use all NM fuel containers holding any measure of NM shall be hidden away.
- When a team vacates its pit area all NM fuels will be securely locked away or the pit area where the NM is stored is to be manned by an adult at all times to prevent unwanted intervention.
- All NM fuels are to be securely locked away overnight.

((()))

MOTOLICIAN MOTOLICA

196

- Any NM container carrying marks such as; Fuel, Nitro, Nitromethane, NM, any numbers followed by the percentage sign (e.g. 88%), CH3NO2, UN1261, or any other marks indicating that the content is NM should have such marks removed and replaced with an alternative description and where necessary still conform to current hazard labelling requirements. (Consult fuel supplier if in doubt).
- · Any possessor of NM must;

a). Refuse all requests to onward sell, supply or hand over NM to any persons, organisations or bodies not known to them.

b). Not donate, volunteer, lend, make available to or offer NM to any persons, organisations or bodies not known to them.

 If you notice anything that you may be connected with terrorist activity...call the Anti-Terrorist Hotline without hesitation on 0800 789321.

GSR 1:8 NITROUS OXIDE INJECTION SYSTEMS

Only gas storage cylinder certified for use at the working pressure of the system may be used (this also applies to any machine with a pressurised gas fuel system). All receiving cylinders should have rupture discs or safety valve to prevent over pressurisation. The bottle to solenoid supply pipe should be of a high quality braided steel hose attached to the frame at regular intervals. For any machine running Nitrous Oxide, the system must remain inoperable until the throttle is fully open. Any other switches must be wired through the throttle switch. The engine must be able to be cranked over without the ignition system operable to enable purging of any gas from the combustion chambers. A separately operated ignition arming switch must be fitted.

GSR 1:9 OVERFLOWS

All breathers must terminate in a catch can/tank of 550ml minimum capacity or vent into the exhaust/induction system.

GSR 1:10 SUPERCHARGERS & TURBOCHARGERS

It is recommended that a guard be fitted over the belt drive on superchargers mounted in front of the engine. Where a supercharger is mounted behind the engine, such a guard is mandatory. Where a supercharger is chain driven, guard of 3mm thick dural or equivalent strength are the minimum requirement, irrespective of the position of the unit. Explosion proof ballistic restraint device fully surrounding the supercharger are highly recommended. Also see class regulations.

GSR 1:11 THROTTLE LINKAGE

All motorcycles must have the throttle controlled by a hand operated twist grip, incorporating a positive acting spring attached directly to the carburettor throttle arm. The throttle must close

197

 \mathbb{O}

MOTOLICIAN MOTOLICA

automatically upon releasing the twist grip. For any motorcycle running nitromethane fuel, it is mandatory to have a positive return cable as well as a return spring i.e. a push-pull twist grip. Any machine running Nitrous Oxide, the system must remain inoperable until the throttle is fully open. Any other switches must be wired through the throttle switch. For nitro fuelled bikes with slider clutches a throttle locking device that will positively lock the butterfly to barrel valve linkage is mandatory. It is recommended that this device is located at the butterfly end of the linkage, however, a drilled throttle twist grip with locking pin is acceptable. This device is to be operated when the machine is being pushed back with the engine running. The locking device must be suitably flagged to clearly indicate when it is in use.

DRIVE TRAIN: GSR2

GSR 2:1 GEAR SHIFT SYSTEMS

Where individual class rules allow, timed gear shift allowed as long as present prior to run. Automatic gear shifting prohibited unless OEM of engine used. RPM gear shifting is strictly prohibited. Where the gear shift is air and/or electrically assisted all wiring and switches for this system must be separate from the main wiring harness and must be readily identifiable, traceable and accessible for inspection by the Technical Official. Except where clearly part of an ignition kill device, any part of the wiring in the gear shift system which, in the opinion of the Technical Officer, passes through, or is connected to a closed control box or unit of any type, will be grounds for disqualification. Suspension travel and ride height sensing is not permitted.

GSR 2:2 PRIMARY TRANSMISSION

If the clutch and/or primary transmission is exposed it must be fitted with a guard as a safety measure to protect the rider even as a result of breakage. The guard must be conceived in such a manner as to minimise the risk of a rider coming into accidental contact with these transmission parts and designed to protect the rider from injury. Outboard mounted clutches must have a cover of at least 3mm aluminium or 1mm steel. Any suitable make or type of drive chain/belt may be installed.

GSR 2:3 DRIVE CHAINS AND GUARDS

Any suitable make or type of chain may be used, but must be adequately guarded. Stock chain guards, or guards manufactured from 3mm Dural (or equivalent strength alternative) must be fitted to prevent the chain contacting the rider as a result of breakage.

BRAKES & SUSPENSION: GSR3

GSR 3:1 BRAKES

All machines must be equipped with at least one efficient brake per wheel, operating independently, and acting directly on the wheel. Hydraulic brakes may be fitted to any wheel, provided that the

198



cylinders and lines are adequately protected from accidental damage. The hydraulic fluid reservoir must be mounted in such a position as to allow easy inspection of the fluid level. All disc brakes must be of the double calliper pattern, e.g. having brake pads on each side of the disc. Must be operable from normal riding position i.e. both hands on handlebars and feet on footrests. Any class of machine capable of 175 mph and above must be fitted with dual front discs of minimum 230mm diameter or single disc of minimum 295mm diameter.

GSR 3:2 SUSPENSION

See class regulations.

FRAME: GSR4

GSR 4:1 FOOTRESTS

Unless original equipment is used the footrests should be of a minimum diameter of 19mm and ball ended.

GSR 4:2 FUEL TANKS

All fuel tanks must be securely fitted to the machine and incorporate securely fitting filler caps. Metal tanks must be robustly constructed. Non Metallic fuel tanks - Non-metallic fuel tanks must carry an international standard mark for the purpose for which it is being used e.g. SFI. ISO.

GSR 4:3 HANDLEBARS & CONTROL LEVERS

Any type or make of handlebar may be fitted at the owner's discretion. It is compulsory to fit lock stops to ensure a minimum clearance of 25mm between the handlebars and any other part of the machine, to prevent trapping of the rider's hands. The minimum angle of rotation either side of the centre line or mid-point is 20 degrees. Handlebar grips, if fitted, must be securely attached. *It is* recommended that all control levers be of the ball ended type. Once the engine is running a competitor should be able to engage or disengage gear without removing either hand from the handlebars.

TYRES & WHEELS: GSR5

GSR 5:1 TYRES

The minimum cross section of tyre allowed for any class is 50mm. Dust caps must be fitted to all tyre valves. For Street tyre classes readily available street tyres only, 1mm minimum tread depth, slicks, hand cut clicks and tyres marked 'Not for Highway use' not allowed. Any tyre which, in the opinion of the Scrutineer, bears any signs of having sidewall markings or lettering tampered with will be grounds for immediate exclusion of the rider from the event.

SEAT: GSR6

See class regulations.

199

 (\bigcirc)

MOTOLIS DOLL OR

GSR 6.27 Red rear lights

Machines must be equipped with a non-pulsating rearfacing red light. If the Clerk of the Course deems it necessary these red lights must be switched on.

BODY: GSR7

GSR 7:1 APPEARANCE

All machines must be of presentable appearance at all times. Entries may be refused where appearance is not considered to be up to the general standards of competition.

GSR 7:2 GROUND CLEARANCE

Where no particular class rules apply, then immediately after a run the machines must have a minimum ground clearance of 50mm with the rider sitting on the machine in the normal riding position with their feet off the ground. Failure to comply will result in disqualification of the run.

GSR 7:3 NUMBERS

Competitors should display their class and vehicle numbers to the rear and each side of the motorcycle, in numbers and letters at least 75mm high.

GSR 7:4 STREAMLINING

There must be a clearance of at least 20mm between the streamlining and the extremities of the handlebars or steering device, including any attachment thereto, whatever the position of the handlebars. It must not be possible for the front wheel to make contact with the streamlining whatever the position of the handlebars. The streamlining must be constructed of metal or other suitable flameproof material; and fitted to allow complete liberty of movement of the rider, both when riding and when getting on and off the machine, without the streamlining or any part of it having to be displaced. The screen, if fitted, must be constructed of Perspex or similar material.

ELECTRICAL: GSR8

GSR 8:1 BATTERIES

May be located at the owner's discretion, providing that the mounting is of sound construction.

GSR 8:2 IGNITION

Any type or make of ignition system may be fitted. A positive acting cut out switch must be fitted and attached to the top fork yoke or handlebars. Ignition KILL buttons are not acceptable. For ET Bike, (See ETB 8.1) 8.50,9.50, Super Street, Pro Stock, Competition Bike, Funny Bike and Top Fuel (where applicable), all machines (except nitromethane fuelled machines) must have a positive KILL switch attached to the rider by lanyard which shuts down ALL

200

 (\bigcirc)

electrical systems on the machine. The lanyard/KILL switch must be able to work when pulled in any direction. A lanyard assembly must be of sufficient strength for purpose. Any lanyard assembly that, in the opinion of the technical team is not fit for purpose is grounds for disqualification.

SUPPORT GROUP: GSR9

GSR 9:1 COMPUTERS

Computers can be used for information gathering only. Throttle operation, shifting, clutch activation, control of fuel injection metering etc, are to be solely under the control of the rider or preset prior to any run. (See GSR9)

GSR 9:2 FIRE EXTINGUISHERS

All competitors, with the exemption of those travelling to an event on the machine on which they are competing, must have a 2kg (minimum) dry powder fire extinguisher available for immediate use, with a label stating the last annual inspection date and next recharge date to comply with the British Standard Code of Practice BS5306 part 3. If a 'closed vehicle' is being used the extinguisher must be fitted adjacent to, or on the inside of the working door. In the case of a shared vehicle the other competitor's extinguisher(s) should also be visible, or, the fitted extinguisher(s) must be of a proportionately larger capacity.

RIDER: GSR10

GSR 10:1 PROTECTIVE CLOTHING

The rider must wear his protective clothing to technical control to demonstrate good fit.

Bulky hard objects such as tools etc. are NOT carried in pockets or on the person.

During practice and racing, riders must wear the following clothing and footwear:-

Competitors must wear a complete leather suit of at least 1.2mm in thickness (on all parts of the suit), two piece suits that zip together at the waist are acceptable. Each part of the zip should be securely attached to the jacket or trousers respectively, and the suit must zip together over at least 75% of the waist band.

Non-leather material may be used if it meets with the requirements laid down by the ACU Road Racing Standing Regulations.

Competitor's footwear must be of leather (i.e. outer hide) or an approved substitute material and of a minimum height of 200mm to provide, with the suit, complete protection. No areas of skin to be left exposed between the leg of the suit and the top of the boot. Competitors must wear leather (or an approved substitute material) protective gloves to provide, with the suit, complete protection. No areas of skin to be left exposed between the wrist of the suit and the wrist of the glove. Long hair and beards should be contained within the helmet or clothing.

201

GSR 10:2 HELMETS

Helmets bearing the current ACU gold stamp and in sound condition and properly fitted must be worn by all riders and passengers while practicing and racing. Overseas riders may use helmets as approved by their own FMN.

GSR 10:3 BODY JEWELLERY

It is recommended that any body piercing studs, rings, etc. are removed.

GSR 10:4 IDENTIFICATION DISCS

While practicing and racing, riders are required to wear an identification disc around the neck, attached by a material approved by the Technical Officer. Thin chains should be avoided. The disc must be permanently marked with the wearers' full name and date of birth. Identification discs shall be of a durable material, circular in shape, between 20 mm and 25 mm in diameter and having edges with no sharp or ragged projections.





BIKES

CLASS REGULATIONS





8.50 BIKE



Jake Mechaell 8.50 bike champion

DESIGNATION: SC preceded by bike number

For Starting Numbers: See GSR 7:3

A class for machines complying with the general and safety regulations.

Standing Regulations as per Competition Bike. Running a fixed index of 8.50 seconds on the ¼ mile, with a heads up Pro start.

SC1:1 ENGINE

Aftermarket cases must have the same number of cylinder studs as OEM motorcycle manufacture and located within 2mm of stock position, twin or v8 engines excepted.

SC2:1 CLUTCH & PRIMARY TRANSMISSION

Any type, make or pattern of clutch assembly and/or drive chain/belt may be installed. See GSR2

SC1:3 EXHAUST

Any type of exhaust allowed. No flexible pipe is allowed. Open exhaust permitted. See GSR1.

SC1:4 FRAME

Frame may be original factory equipment, altered or modified at the owner's discretion, or of tubular type frame construction. All butt welds must have visible reinforcement, and no grinding or filling of welds is permitted.

204

in motorsport uk

SC1:5 MUDGUARDS

1. Are not compulsory, but if fitted must be constructed of material with no sharp edges, and must be securely fitted to the machine. 2. If a stock front mudguard is removed, and an aftermarket item used, a fork brace of adequate dimensions must be fitted on machines weighing 205kg and over

SC1:6 SEAT

Must be securely attached to frame, and be so constructed as to prevent slipping backwards from the proper seating position. Any padding used must be securely attached.

SC1:7 SUPERCHARGERS/TURBOCHARGERS

1. May be fitted at the owner's discretion.

2. It is recommended that a guard be fitted over the belt drive on superchargers mounted in front of the engine.

3. Where a supercharger is mounted behind the engine, such a guard is mandatory.

4. Where a supercharger is chain driven, guards of 3mm thick dural or equivalent strength, are the minimum requirement, irrespective of the position of the unit.

5. Explosion proof blankets fully surrounding the supercharger are highly recommended

SC1:8 FRONT TYRE

Front tyres to be of road type, minimum specification $^{\prime}V^{\prime}$ rated or racing tyre specification.

SC1:9 WHEELS

1. All wire spoked wheels must utilise steel spokes of adequate strength and properly laced.

2. Wheels manufactured for cars may be used providing the fitting to the machine is of sound engineering.

3. All wheels must run true and all bearings must be in good condition.

4. Balance weights must be securely attached.

5. Maximum 10" tyre.

SC1.10 WHEELBASE

At the owner's discretion.

205

ແດງ

MOTOLICIAN MOTOLICA

9.50 BIKE



Richard Sawatzki 9.50 Bike Champion

DESIGNATION:

SB preceded by bike number For Starting Numbers: See GSR 7:3

A class designed for petrol burning street tyred bikes running to a fixed index of 9.50 seconds (6.05 eighth mile) from a heads up Pro start.

REQUIREMENTS & SPECIFICATIONS

ENGINE: SB1

SB 1:1 CARBURETTOR

Any type of carburettor or fuel injection may be used. See GSR1

SB 1:2 ENGINE

May be of any type with any modifications. Only one engine allowed. See GSR1

SB 1:3 EXHAUST

Any type of exhaust allowed. No flexible pipe is allowed. Open exhaust permitted. See GSR1

SB 1:4 NITROUS OXIDE INJECTION Allowed. See GSR1

SB 1:5 SUPERCHARGES & TURBOCHARGERS Allowed. See GSR1

206

) motorsport uk

DRIVE TRAIN: SB2

SB 2:1 CLUTCH

Any type, make or pattern of clutch assemble may be installed. All clutches must be fully enclosed. *See GSR2*

SB 2:2 GEARBOX

Any make or type may be fitted. See GSR2

BRAKES & SUSPENSION: SB3

SB 3:1 SUSPENSION

Any type allowed, but if fitted must be operational. Rear struts allowed. See GSR3

FRAME: SB4

SB 4:1 FRAME

Steering head geometry, trail and wheelbase may be altered to improve the stability of the machine, provided that all modifications are undertaken to a safe and professional standard. Maximum wheelbase permitted is 1730mm, measured with the rear wheel in the most extended position allowed by the swinging arm. **See GSR4**

SB 4:2 STANDS

Must be wired up or removed. See GSR4

SB 4:3 WHEELIE BARS

Not Allowed. See GSR4

TYRES & WHEELS: SB5

SB 5:1 TYRES See GSR5

SB 5:2 WHEELS

Any type and size allowed, as long as they comply with the Road Traffic Act. It is highly recommended that rear rim width should not exceed type width. **See GSR5**

SEAT: SB6

SB 6:1 SEAT

Any type allowed, must be securely fitted to the machine. Any padding used must be securely attached to the seat. See GSR6

BODY: SB7

SB 7:1 MIRRORS

Mirrors should be removed or taped over. See GSR7

207

 \mathbb{O}

MOTOLES DOLLAR

SB 7:2 MUDGUARDS

Must be fitted to comply with the Road Traffic Act. See GSR7

ELECTRICAL: SB8

SB 8:1 LIGHTS AND MIRRORS

Lights need not be operational, (See GSR 6.27) but must be of stock appearance, lenses must be taped over. Mirrors should be removed or taped over. See GSR8

SUPPORT GROUP: SB9 See GSR9

RIDER: SB10 See GSR10

208



SUPER STREET BIKE



Steve Venables 2018 S/Street Bike Champion

DESIGNATION:

SS preceded by bike number For Starting Numbers: See GSR 7:3

A petrol burning street tyre'd bikes class running heads up from a Pro start.

REQUIREMENTS & SPECIFICATIONS

ENGINE: SS1

SS 1:1 CARBURETTOR

Any type of carburettor or fuel injection may be used. See GSR1

SS 1:2 ENGINE

May be of any type with any modifications. Only one engine allowed. See GSR1

SS 1:3 EXHAUST

Any type of exhaust allowed. No flexible pipe is allowed. Open exhaust permitted. See GSR1

SS 1:4 NITROUS OXIDE INJECTION

Allowed. See GSR1

SS 1:5 SUPERCHARGERS & TURBOCHARGERS Allowed. See GSR1

SS 1.7 FUEL

Pump or racing petrol generally available allowed. The use of E85 fuel is permitted, the words "BIO FUEL" must be clearly displayed on the tank.

209

Motorsport uk

DRIVE TRAIN: SS2

SS 2:1 CLUTCH

Any type, make or pattern of clutch assembly may be installed. All clutches must be fully enclosed. *See GSR2*

SS 2:2 GEARBOX

Any make or type may be fitted. See GSR2

SS 2:3 COMPUTERS

Closed loop systems with proactive functionality permitted

BRAKES & SUSPENSION: SS3

SS 3:1 SUSPENSION

Any type allowed, but if fitted must be operational. Rear struts allowed. *See GSR3*

FRAME: SS4

SS 4:1 FRAME

Steering head geometry, trail and wheelbase may be altered to improve the stability of the machine, provided that all modifications are undertaken to a safe and professional standard. Maximum wheelbase permitted is 1730mm, measured with the rear wheel in the most extended position allowed by the swinging arm. **See** *GSR4*

SS 4:2 STANDS

Must be wired up or removed. See GSR4

SS 4:3 WHEELIE BARS

Not Allowed. See GSR4

TYRES & WHEELS: SS5

SS 5:1 TYRES See GSR5

SS 5:2 WHEELS

Any type and size allowed, as long as they comply with the Road Traffic Act. It is highly recommended that rear rim width should not exceed tyre width. *See GSR5*

SEAT: SS6

SS 6:1 SEAT

Any type allowed, must be securely fitted to the machine. Any padding used must be securely attached to the seat. See GSR6

210

()

MOTOLICIAN CONTRACTOR

BODY: SS7

SS 7:1 MIRRORS

Mirrors should be removed or taped over. See GSR7

SS 7:2 MUDGUARDS

Must be fitted to comply with the Road Traffic Act. See GSR7

ELECTRICAL: SS8

SS 8:1 LIGHTS

Lights need not be operational, (See GSR 6.27) but must be of stock appearance, lenses must be taped over. See GSR8

SUPPORT GROUP: SS9 See GSR9

RIDER: SS10 See GSR10

211



PRO STOCK BIKE

DESIGNATION:

PS preceded by bike number For Starting Numbers: **See GSR 7:3**

A petrol burning bike class running heads up from a Pro start.

DEFINITION

This class is for stock appearance (factory produced motorcycle available to the general public, modified for drag racing) petrol burning motorcycles.

WEIGHT BREAKS

Minimum weight of bike and rider at conclusion of run:-

3 or 4 Cylinder Maximum 1510cc 260kg

3 or 4 Cylinder Maximum 1600cc 270kg

3 or 4 Cylinder Maximum 1655cc 275kg

3 or 4 cylinder Maximum 1755cc 280kg

3 or 4 Cylinder Maximum 1800cc 280kg*

2 Cylinder Maximum 2000cc 220kg

2 Cylinder OHC or DOHC Maximum 2700cc 285kg

2 Cylinder Pushrod > 45 degree Maximum 2700cc 290kg

2 Cylinder Pushrod 45 degree Maximum 3278cc 265kg

* Plain Bearing Crank only

The ACU Drag Racing Sub Committee reserve the right to make changes to weight breaks or combinations during the season. If this circumstance should arise then the changes will be published on the ACU website.

Riders must present themselves and their machine for weighing immediately before and after each run in qualifying and racing, at the location specified by the organisers.

ENGINE/WEIGHT CONTROL

In order to check the capacity of the machines of Pro Stock Bike finalists, both must remove the cylinder heads in the presence of the technical inspector. In order to make sealing of Pro Stock bikes possible, a 1mm hole must be made in the cylinder head and cylinder casting. Failure to comply with this procedure will render a qualifying run null and void and result in elimination from competition.

REQUIREMENTS & SPECIFICATIONS

ENGINE: PS1

PS 1:1 ENGINE

Engine manufacturer will determine make of bike. Must be of a type specifically designed and manufactured for a production

212

illi motorsport uk

motorcycle. External modifications to engine cases are not allowed except for repair purposes.

PS 1:2 CYLINDER HEAD

Cylinder head casting must be manufactured by the same manufacturer as the main engine cases. FIM Technical Steward accepted aftermarket cylinder heads permitted.

PS 1:3 EXHAUST

Open exhaust systems are permitted. The exhaust must be directed away from the rider and fuel tank and be at a safe distance from the tyres. No flexible pipe is allowed. **See GSR1**

PS 1:4 FUEL INJECTION

Fuel injection is permitted. Any type or size of fuel injection and throttle bodies allowed, but must be of the open loop type i.e. fuel metering must not be controlled by computer data gathering during the run. **See GSR1**

PS 1:5 FUEL

Pump or racing petrol generally available is allowed. The use of E85 fuel is permitted, the words "BIO FUEL" must be clearly displayed on the tank.

DRIVE TRAIN: PS2

PS 2:1 TRANSMISSION

Any transmission with a maximum of six forward gears, minimum three forward gears, may be used. Transmission must be shifted from gear to gear manually or by air shifter. RPM, computer controlled or timed shifts are prohibited. Transmission must be contained within the stock case, except two cylinder or two stroke engines. *See GSR2*

BRAKES & SUSPENSION: PS3

PS 3:1 BRAKES

Hydraulic type, minimum front: dual, 200mm diameter x 5mm width, single 250mm diameter x 5mm width. Rear minimum 200mm diameter x 5mm width with dual front discs, or minimum 250mm x 5mm width with single front discs. Fork brace mandatory for machines fitted with single front disc. *See GSR3*

PS 3:2 CONTROLS

All handlebar controls must remain in the stock location. Replacement bars are permitted. Welded aluminium handlebars are prohibited. Welded steel or chrome-moly extensions are allowed, but cannot extend more than 100mm from stock location. Minimum handlebar width is 560mm. Brake pedals and foot pegs may be rear set, but must be at least 380mm in front of the rear axle. Throttle and clutch levers must be manually operated by the

213

iii) motorsport uk

rider. Electronic, pneumatic, hydraulic or other devices may in no way affect the operation of the throttle or clutch.

PS 3:3 FRONT SUSPENSION

Minimum usable travel 10mm, inner tube diameter minimum 34mm. Replacement front ends are allowed. Steering damper mandatory and may not act as a fork stop. *See GSR3*

FRAME: PS4

PS 4:1 FRAME

Aftermarket frames permitted. Steering head geometry, trail and wheelbase may be changed if done in a safe and professional manner. Steering head angle may not be less than stock rake or more than 40 degrees maximum rake. Maximum wheelbase is 1780mm measured from the most extendible point on the swing arm. **See GSR4**

PS 4:2 WHEELIE BAR

Maximum length of 3300mm from the centre of the front axle to the centre of the wheelie bar axle, measured in a straight line from axle to axle. Wheels must be non-metallic.

TYRES & WHEELS: PS5

PS 5:1 TYRES

Front tyre minimum width 2.75". Maximum rear tyre (rubber on ground) 10". See GSR5

PS 5:2 WHEELS

Replacement wheels are permitted. Front 16" minimum, 19" maximum, or as stock. Rear 15" minimum. *See GSR5*

SEAT: PS6

PS 6:1 SEAT

Custom seats with a step to prevent the rider from sliding backwards permitted. Seat, tail section and rear fender may be incorporated in one unit. Minimum seat height 500mm from lowest point of seat to ground. **See GSR6**

BODY: PS7

PS 7:1 BODYWORK

Must have originally been produced with a 750cc or larger engine. All main body parts must have stock appearance and shape and cannot be mixed between models. Replacement parts permitted but must retain the shape of the stock parts they replaced. Lower portion of fairing may be modified for exhaust pipe clearance or removed completely. Windscreen may be trimmed. Must have simulated headlight and tail light of same configuration and design from specific body used, holes for air passage and aerodynamic

214

((()))

MOTOLICIAN MOTOLICA

devices prohibited unless originally incorporated into same OEM of that year. See GSR7

ELECTRICAL: PS8

PS 8:1 LIGHTS

Must have simulated headlight and tail light of same configuration and design for specific body used, holes for air passage and aerodynamic devices prohibited unless originally incorporated into same OEM of that year. **See GSR8 / GSR 6.27**

PS 8:2 IGNITION

Any ignition allowed.

SUPPORT GROUP: PS9 See GSR9

RIDER: PS10 See GSR10





COMPETITION BIKE



Margot Schmidt 2018 Comp Bike Champion

DESIGNATION:

CB preceded by bike number For Starting Numbers: See GSR 7:3

A class designed for motorcycles with unrestricted modifications running heads up from a Pro start.

REQUIREMENTS & SPECIFICATIONS

ENGINE: CB1

CB 1:1 ENGINE

Engine or engines may be of any internal combustion type, provided that drive is transmitted through one road wheel. Engine(s) may be mounted in any position and any modifications are permitted. **See GSR1**

CB 1:2 SUPERCHARGERS

May be fitted at the owner's discretion. It is recommended that a guard be fitted over the belt drive on superchargers mounted in front of the engine. Where a supercharger is mounted behind the engine, such a guard is mandatory. Where a supercharger is chain driven, guards of 3mm thick Dural or equivalent strength are the minimum requirement, irrespective of the position of the unit. Explosion proof blankets fully surrounding the supercharger are highly recommended. **See GSR1**

CB 1:3 EXHAUST

Any make or type of exhaust system allowed. No flexible pipe allowed. See GSR1

216



DRIVE TRAIN: CB2

CB 2:1 CLUTCH & PRIMARY TRANSMISSION

Any type, make or pattern of clutch assembly and/or drive chain/belt may be installed. See GSR2

BRAKES & SUSPENSION: CB3

CB 3:1 SUSPENSION

The minimum front fork stanchion diameter is as follows:-

Bike weight	Diameter
300lbs (136kg)	28mm
350lbs (158kg)	30mm
450lbs (204kg)	32mm
over 450lbs(over240kg)	34mm
See GSR3	

FRAME: CB4

CB 4:1 ALIGNMENT

Sufficient trail must be incorporated into the alignment to ensure proper handling, recommended 6 inches. **See GSR4**

CB 4:2 FRAME

Frame may be original factory equipment, altered or modified at the owner's discretion, or of tubular type frame construction. All butt welds must have visible reinforcement, and no grinding or filling of welds is permitted **See GSR4**

CB 4:3 GROUND CLEARANCE

Minimum of 75mm is recommended. See GSR4

CB 4:4 WHEELBASE

At the owner's discretion. See GSR4

TYRES & WHEELS: CB5

CB 5:1 FRONT TYRE

Front tyres to be of racing type, or if of road type, minimum specification 'V' rated. See GSR5

CB 5:2 WHEELS

All wire spoked wheels must utilise steel spokes of adequate strength and properly laced. Wheels manufactured for cars may be used providing the fitting to the machine is of sound engineering. All wheels must run true and all bearings must be in good condition. Balanced weights must be securely attached. **See GSR5**

217

) motorsport uk

SEAT: CB6

CB 6:1 SEAT

Must be securely attached to frame, and be so constructed as to prevent slipping backwards from the proper seating position. Any padding used must be securely attached. *See GSR6* **BODY: CB7**

CB 7:1 MUDGUARDS

Are not compulsory, but if fitted must be constructed of material with no sharp edges and must be securely fitted to the machine. If a stock front mudguard is removed and an aftermarket item used, a fork brace of adequate dimensions must be fitted on machines weighing 205kg and over. **See GSR7**

ELECTRICAL: CB8 See GSR8

LIGHTING: See GSR 6.27

SUPPORT GROUP: CB9 See GSR9

RIDER: CB10 See GSR10

218



FUNNY BIKE



Lorcan Parnell 2018 Funny Bike Champion

DESIGNATION:

FB preceded by bike number For Starting Numbers: See GSR 7:3

A class designed for single engine alcohol and petrol burning motorcycles in addition to single or double engine nitromethane burning Twins. All machines except Nitro burning Twins must run a fuel tank, either real or dummy, in stock location, with the engine manufacturers name clearly visible on both sides of the tank. All bikes must have front and rear mudguards. All machines except nitromethane burning Twins must have head light or nose piece.

REQUIREMENTS & SPECIFICATIONS

ENGINE: FB1

FB 1:1 CLASS REQUIREMENTS

Superchargers and turbochargers will be considered the same.

- i) Alcohol fuel supercharged.
- ii) Petrol fuelled, fuel injected turbocharged.
- iii) Petrol fuelled, carburetted, turbocharged with maximum of 3 stages of nitrous.
- iv) Alcohol fuelled injected turbocharged.
- Petrol fuelled, carburetted, maximum 3 stages of nitrous.
- vi) Alcohol fuelled, turbocharged, carburetted.
- vii) Single or double alcohol or nitromethane fuelled twin cylinder engines.
- viii) Nitro injected, no supercharging or nitrous allowed. 1740cc maximum displacement. Other construction rules as per Competition Bike. See GSR1

219



FB 1:2 ENGINE

Approved aftermarket cases allowed using original crank shaft design. Original cylinder head design must be used. Cases must fit in stock engine location. Planetary transmission allowed with any approved aftermarket cases. Aftermarket cylinder heads permitted. All aftermarket heads, cases and transmission must receive prior approval of the Championship Co-ordinator. **See GSR1**

FB 1:3 FUEL SHUT OFF

All nitromethane fuelled bikes must have a pre-loaded fuel shut off. A lanyard must be connected between the rider and the fuel shut off valve. All these machines must have a handlebar operated fuel shut off.

FB 1:4 SUPERCHARGERS & TURBOCHARGERS

As per Class Requirements. See GSR1

FB 1:5 EXHAUST

Any make or type of exhaust system allowed. No flexible pipe allowed. See GSR1

DRIVE TRAIN: FB2

FB 2:1 CLUTCH & PRIMARY TRANSMISSION

Any type, make or pattern of clutch assemble and/or drive chain/belt may be installed. Planetary transmission allowed with any approved aftermarket cases. If the clutch and/or primary transmission is exposed it must be fitted with a guard as a safety measure to protect the rider even as a result of breakage. The guard must be conceived in such a manner that under no circumstances can the rider come into accidental contact with these transmission parts. It must be designed to protect the rider from injuring fingers. Outboard mounted clutches must have a cover of at least 3mm aluminium or 1mm steel. Cruciform guards are not permitted. Slider clutches must have a minimum of 4 mounting bolts of 6mm minimum diameter. All aftermarket transmissions must receive prior approval of the Championship Co-ordinator. *See GSR2*

BRAKES & SUSPENSION: FB3

FB 3:1 SUSPENSION

The minimum front fork stanchion diameter is as follows:-

Bike weight 300lbs (136kg) 350lbs (158kg) 450lbs (204kg) over 450lbs(over240kg) **See GSR3** Diameter 28mm 30mm 32mm 34mm

220



FRAME: FB4 FB 4:1 ALIGNMENT

Sufficient trail must be incorporated into the alignment to ensure proper handling, recommended 6 inches. *See GSR4*

FB 4:2 FRAME

Frame may be original factory equipment, altered or modified at the owner's discretion, or of tubular type frame construction. All butt welds must have visible reinforcement, and no grinding or filling of welds is permitted. **See GSR4**

FB 4:3 FUEL TANKS

Four cylinder machines must run a fuel tank with the engine manufacturers name clearly visible on both sides of the tank.

FB 4:4 GROUND CLEARANCE

Minimum of 75mm is recommended. See GSR4

FB 4:5 WHEELBASE

At the owner's discretion. See GSR4

TYRES & WHEELS: FB5

FB 5:1 FRONT TYRE

Front tyres to be of racing type, or if of road type, minimum specification 'V' rated. See GSR5

FB 5:2 WHEELS

All wire spoked wheels must utilise steel spokes of adequate strength and properly laced. Wheels manufactured for cars may be used providing the fitting to the machine is of sound engineering. All wheels must run true and all bearings must be in good condition. Balanced weights must be securely attached. **See GSR5**

SEAT: FB6

FB 6:1 SEAT

Must be securely attached to frame, and be so constructed as to prevent slipping backwards from the proper seating position. Any padding used must be securely attached. *See GSR6*

BODY: FB7

FB 7:1 BODY

Must run a similar to stock body. Entire bike must resemble the stock appearance of the model it is based on. *See GSR7*

FB 7:2 MUDGUARDS

Are compulsory front and rear, must be constructed of material with no sharp edges and must be securely fitted to the machine. If a stock front mudguard is removed and an aftermarket item used a

221

fork brace of adequate dimensions must be fitted on machines weighing 205kg and over. See GSR7

ELECTRICAL: FB8 See GSR8

SUPPORT GROUP: FB9 See GSR9

RIDER: FB10 See GSR10





TOP FUEL BIKE



Steve Woollatt 2018 Top Fuel Bike Champion

DESIGNATION:

TF preceded by bike number For Starting Numbers: See GSR 7:3

A class designed for motorcycles running a minimum of 50% nitromethane fuel. A maximum of two engines allowed with unlimited modifications. No appearance restrictions. Turbo charges and superchargers considered the same running heads up from a Pro start.

WEIGHT BREAKS/CONTROL

Supercharged 4 cylinder engines: 9lbs/inch³ (0.25kg/cc) V8 engines: no weight restriction.

In order to check the capacity of machines of finalists, both must be prepared to remove the cylinder heads in the presence of a technical inspector if required. Riders must present themselves and their machine immediately before or after each run in qualifying and eliminations at a location specified by the organisers. Failure to comply with any control procedure will render a run null and void, and could result in elimination from the competition.

REQUIREMENTS & SPECIFICATIONS

ENGINE: TF1

TF 1:1 ENGINE

Displacement limited to 1700cc for supercharged 4 cylinder engines and 2000cc for Twin cylinder supercharged engines. For V8 configurations, 1350cc on each bank with a maximum of 2700cc. Twin cylinder engines limited to a maximum capacity of 3300cc. Lower engine ballistic restraint device recommended.

223

in motorsport uk

Aftermarket cases must have the same number of cylinder studs as OEM motorcycle manufacture and located within 2mm of stock position, twin or V* engines excepted. *See GSR1*

TF 1:2 EXHAUST

Any make or type allowed. No flexible pipe allowed. See GSR1

TF 1:3 FUEL SHUT OFF

Pre-loaded fuel shut offs mandatory. A lanyard is mandatory to operate a spring loaded fuel shut off valve which must completely cut off the fuel supply to the engine. A separate device to completely cut off fuel supply by handlebar control is mandatory. **See GSR1**

TF 1:4 SUPERCHARGERS

Belt drive guards highly recommended for front mounts, mandatory when rear mounted. If chain driven 3mm thick Dural or equivalent strength mandatory irrespective mounting position. Explosion proof ballistic or restraint device highly recommended. **See GSR1**

TF 1:5 THROTTLE LINKAGE

For nitro fuelled bikes with slider clutches a throttle locking device that will positively lock the butterfly to the barrel valve linkage is mandatory. It is recommended that this device is located at the butterfly end of the linkage; however, a drilled throttle twist grip with locking pin is acceptable. *See GSR1*

DRIVE TRAIN: TF2

TF 2:1 CLUTCH & PRIMARY TRANSMISSION

Any type, make or pattern of clutch assembly and/or d rive chain/belt may be installed. If the clutch and/or primary transmission is exposed it must be fitted with a guard as a safety measure to protect the rider even as a result of breakage. The guard must be conceived in such a manner that under no circumstances can the rider come into accidental contact with these transmission parts. It must be designed to protect the rider from injuring fingers. Outboard mounted clutches must have a cover of at least 3mm aluminium or 1mm steel. Cruciform guards are not permitted. Slider clutches must be manufactured from billet rather than cast material and the guards must have a minimum of 4 mounting bolts of 6mm minimum diameter. See GSR2

BRAKES & SUSPENSION: TF3

TF 3:1 BRAKES

Minimum: Front: Dual discs 230mm diameter, 3.2mm thickness Single discs 295mm diameter, 4.8mm thickness Rear: Single discs 255mm diameter, 4.8mm thickness

All brake lines must be steel braided type.

224

((C)))

MOTOLE OLD

TF 3:2 FRONT SUSPENSION

Hydraulic tube type only. Minimum tube diameter 34mm. Minimum travel 10mm. Positive steering stops for both directions of travel mandatory. Two steering dampers recommended but may not be used as steering stops. **See GSR3**

FRAME: TF4

TF 4:1 ALIGNMENT

Sufficient trail must be incorporated into the alignment to ensure proper handling, recommended 6 inches. *See GSR4*

TF 4:2 FRAME

Frame may be original factory equipment, altered or modified at the owner's discretion, or of tubular type frame construction. All butt welds must have visible reinforcement, and no grinding or filling of welds is permitted. Minimum wheelbase 84 inches (2134mm). **See GSR4**

TF 4:3 GROUND CLEARANCE

Minimum of 75mm is recommended. See GSR4

TF 4:4 WHEELBASE

Minimum wheelbase 84 inches (2134mm). See GSR4

TYRES & WHEELS: TF5

TF 5:1 TYRES

Front tyres must be a minimum 'V' rating road tyre or race tyre specification. Rear tyre width must not exceed rim width by 2 inches. Rear wheel bead locks highly recommended. **See GSR5**

TF 5:2 WHEELS

All wire spoked wheels must utilise steel spokes of adequate strength and properly laced. Wheels manufactured for cars may be used providing the fitting to the machine is of sound engineering. All wheels must run true and all bearings must be in good condition. Balanced weights must be securely attached. Rear wheel bead locks highly recommended. **See GSR5**

SEAT: TF6

TF 6:1 SEAT

Must be securely attached to frame, and be so constructed as to prevent slipping backwards from the proper seating position. Any padding used must be securely attached. *See GSR6*

225

) motorsport uk

BODY: TF7

TF 7:1 BODY

All rear fenders must extend past the rear axle.

TF 7:2 MUDGUARDS

Are not compulsory, but if fitted must be constructed of material with no sharp edges and must be securely fitted to the machine. If a stock front mudguard is removed and an aftermarket item used, a fork brace of adequate dimensions must be fitted on machines weighing 205kg and over. **See GSR7**

ELECTRICAL: TF8 See GSR8/GSR 6.27

SUPPORT GROUP: TF9 See GSR9

RIDER: TF10 See GSR10





JUNIOR DRAG BIKE



Blade Dummer 2018 Junior Drag Bike Champion

DESIGNATION:

JRB preceded by bike number For Starting Numbers: See GSR 7:3

A class for single or twin cylinder two or four stroke motor cycles built to give the appearance of a Top Fuel or Funny Bike. For minimum age and machine restrictions please refer to section 2.4 REQUIREMENTS & SPECIFICATIONS

ENGINE: JRB 1

JRB 1:1 ENGINE

- i) Any make or model
- ii) Any configuration of engine is permitted
- Small engine modifications are permitted such as exhaust, air filter and carburettor. Electric, kick or off-board starters permitted. No push or roller starts permitted.

DRIVE TRAIN: JRB 2

JRB 2:1

Air shifters allowed.

BRAKES & SUSPENSION: JRB 3

JRB 3:1 BRAKES

Front and rear mandatory.

JRB 3:2 SUSPENSION

Front suspension minimum size 27mm and minimum travel of 2 inches. Rear suspension not permitted.

227



FRAME: JRB 4

JRB 4:1 FRAME

Production based or purpose built and of tubular construction utilising a rigid rear end. Rider must be able to reach all controls safely and be able to place both feet flat on the ground. Wheelie bars mandatory.

TYRES & WHEELS: JRB 5

JRB 5:1 TYRES

Slicks are permitted, any make or size.

JRB 5:2 WHEELS

Any make or size permitted.

SEAT: JRB 6

JRB 6:1 SEAT

The seat must be securely attached so as to prevent the rider from sliding backwards.

JRB 6.27 See GSR 6.27

BODY: JRB 7

JRB 7:1 MUDGUARDS

Must have rear mudguard or bodywork extending past the rear axle.

Refer to GSRs for other construction rules.

228







Phil Pratt 2018 ET Bike Champion

DESIGNATION:

ETB preceded by bike number For Starting Numbers: See GSR 7:3

A Clubman license class for machines complying with the general and safety regulations with a minimum ET of 8.70 seconds

Standing regulations as per Competition Bike

Machines registered with DVLA for road use and without aftermarket power adders and race aids are exempt from general regulations 6.5, 6.8, 6.11 and 6.17 but must present the V5C registration document and MOT certificate (if applicable) at scrutineering. Failure to do so will mean the exemptions will not be applied. Traction control is only permitted on unmodified machines that have traction control fitted as standard OEM. Riders of any machines running nitromethane as a percentage of fuel must be holders of a National License.

REQUIREMENTS & SPECIFICATIONS

ENGINE: ETB1

ETB 1:1 ENGINE

Engine or engines may be of any internal combustion type, provided that drive is transmitted through one road wheel. Engine(s) may be mounted in any position and any modifications are permitted. *See GSR1*

ETB 1:2 SUPERCHARGERS

May be fitted at the owner's discretion. It is recommended that a guard be fitted over the belt drive on superchargers mounted in front of the engine. Where a supercharger is mounted behind the engine, such a guard is mandatory. Where a supercharger is chain

229



driven, guards of 3mm thick Dural or equivalent strength are the minimum requirement, irrespective of the position of the unit. Explosion proof blankets fully surrounding the supercharger are highly recommended. **See GSR1**

ETB 1:3 EXHAUST

Any make or type of exhaust system allowed. No flexible pipe allowed. See GSR1

DRIVE TRAIN: ETB2

ETB 2:1 CLUTCH & PRIMARY TRANSMISSION

Any type, make or pattern of clutch assembly and/or drive chain/belt may be installed. See GSR2

Diameter 28mm 30mm 32mm 34mm

BRAKES & SUSPENSION: ETB3

ETB 3:1 SUSPENSION

The minimum front fork stanchion diameter is as follows:-

Bike weight	
300lbs (136kg)	
350lbs (158kg)	
450lbs (204kg)	
over 450lbs(over240kg)	
See GSR3	

FRAME: ETB 4

ETB 4:1 ALIGNMENT

Sufficient trail must be incorporated into the alignment to ensure proper handling, recommended 6 inches. *See GSR4*

ETB 4:2 FRAME

Frame may be original factory equipment, altered or modified at the owner's discretion, or of tubular type frame construction. All butt welds must have visible reinforcement, and no grinding or filling of welds is permitted. It is not permitted to use the engine as a stressed member of the frame. **See GSR4**

ETB 4:3 GROUND CLEARANCE

Minimum of 75mm is recommended. See GSR4

ETB 4:4 WHEELBASE

At the owner's discretion. See GSR4

TYRES & WHEELS: ETB 5

ETB 5:1 FRONT TYRE

Front tyres to be of racing type, or if of road type, minimum specification 'V' rated. See GSR5

230



ETB 5:2 WHEELS

All wire spoked wheels must utilise steel spokes of adequate strength and properly laced. Wheels manufactured for cars may be used providing the fitting to the machine is of sound engineering. All wheels must run true and all bearings must be in good condition. Balanced weights must be securely attached. **See GSR5**

SEAT: ETB 6

ETB 6:1 SEAT

Must be securely attached to frame, and be so constructed as to prevent slipping backwards from the proper seating position. Any padding used must be securely attached. *See GSR6*

BODY: ETB 7

ETB 7:1 MUDGUARDS

Are not compulsory, but if fitted must be constructed of material with no sharp edges and must be securely fitted to the machine. If a stock front mudguard is removed and an aftermarket item used, a fork brace of adequate dimensions must be fitted on machines weighing 205kg and over. **See GSR7**

ELECTRICAL: ETB 8 See GSR8

ETB 8.1 IGNITION LANYARD

If the motor cycle has any aftermarket race accessory fitted, then it needs an ignition lanyard.

LIGHTING: See GSR 6.27

SUPPORT GROUP: ETB9 See GSR9

RIDER: ETB10

See GSR10

For all riders that have an ET that is the same as the class index/personal dial in index or slower, the time closest to that index is used to determine qualifying position. For drivers that have E.T.'s that are quicker than the class index/personal dial in index, the slowest time is awarded the higher qualifying position. In the event of identical qualifying elapsed time within 1/1000 of a second, the driver who made the run first will receive the better qualifying position. If qualifying cannot take place, random pairing will be used.

If weather conditions or other event delays should disrupt posted lane rotation for qualifying runs, the Clerk of the Course has the option of reassigning lanes as necessary for remaining runs. Every effort will be made to see that qualifying contestants have the opportunity to run in each lane.

231

 (\bigcirc)

MOTOLISCOLL

SUPER TWIN TOP GAS (STTG)



Michael Gooding 2018 STTG Champion

Designation

STTG Preceded by bike number

For starting Number contact SPRC.

A class designed for motorcycles with unrestricted modifications running heads up from a pro start. This is a petrol burning class.

REQUIREMENTS & SPECIFICATIONS

Engine: STTG 1 See GSR 1

STTG 1.1 ENGINE

Engine may be of any internal combustion type, provided that the drive is transmitted through one road wheel. Engine may be mounted in any position and any modifications are permitted.

STTG 1.2 SUPERCHARGERS & TURBOCHARGERS

May be fitted at the owners' discretion.

STTG 1.3 EXHAUST

Any make or type of exhaust system allowed. No flexible pipe allowed. For 2010 recommended maximum noise levels will be established, mandatory for 2011.

DRIVE TRAIN: STTG 2 SEE GSR 2

STTG 2.1 CLUTCH & PRIMARY TRANSMISSION

Any type, make or pattern of clutch assembly and/or drive chain/belt may be installed.

232



BRAKES & SUSPENSION: STTG 3 SEE GSR 3

STTG 3.2 SUSPENSION

The minimum front fork stanchion diameter is as follows;

Bike Weight	Diameter
300 lbs (136kg)	28mm
350 lbs (158kg)	30mm
450 lbs (204kg)	32mm
Over 450 lbs (204kg)	34mm

FRAME: STTG 4

Frame may be original factory equipment, altered or modified at the owners' discretion, or of tubular type frame construction. All butt welds must have visible reinforcement and no grinding or filling of welds is permitted.

STTG 4.2 ALIGNMENT

Sufficient trail must be incorporated into the alignment to ensure proper handling, 6 inches is recommended.

STTG 4.3 GROUND CLEARANCE

Minimum of 75 mm is recommended.

STTG 4.4 WHEELBASE

At the owners' discretion.

TYRES & WHEELS: STTG 5 SEE GSR 5

STTG 5.1 FRONT TYRE

Front tyres to be of racing type, or if road type they must be a minimum of "V" specification or racing type specification.

STTG 5.2 WHEELS

All wire spoked wheels must utilise steel spokes of adequate strength and properly laced. Wheels manufactured for car use may be used providing the fittings to the machine are of sound engineering standards. All wheels must run true and all bearings must be in good condition. Balance weights must be securely attached.

SEAT: STTG 6 SEE GSR 6

STTG 6.1 SEAT

The seat must be securely attached to the frame and be constructed so as to prevent slipping backward from the proper seating position. Any padding used must be securely attached.

233

()

motorsport uk

BODY: STTG 7 SEE GSR 7

STTG 7.1 MUDGUARDS

Mudguards are not compulsory but if fitted they must be constructed of material with no sharp edges and must be securely fitted to the machine. If a stock front mudguard is removed and an aftermarket unit is used, a fork brace of adequate dimensions must be fitted on machines weighing 450 lbs (204 kg) and over.

ELECTRICAL: STTG 8 SEE GSR 8 GSR 6.27

SUPPORT GROUP: STTG 9 SEE GSR 9

RIDER: STTG 10 SEE GSR 10

SUPER TWIN TOP FUEL

DESIGNATION

STTF Preceded by bike number For starting Number Contact N.A.S.T.

A class designed for motor cycles with un-restricted modifications running heads up from a pro start.

REQUIREMENTS & SPECIFICATIONS

ENGINE: STTF 1 SEE GSR 1

STTF1.1 ENGINE

Engine may be of any internal combustion type, provided that the drive is transmitted through one road wheel. Engine may be mounted in any position and any modifications are permitted.

STTF 1.2 SUPERCHARGERS & TURBOCHARGERS

May be fitted at the owner's discretion.

STTF1.3 EXHAUST

Any make or type of exhaust system allowed. No flexible pipe allowed.

STTF 1.4 FUEL SHUT OFF

For nitro fuelled bikes a pre-loaded fuel shut off valve is mandatory. A lanyard must be connected between the rider and the fuel shut off valve situated on the entry side of the barrel valve. A device to completely cut off the fuel supply by means of a handle bar mounted control is mandatory.

234

ແດງ

MOTOLICIAN MOTOLICA

STTF 1.5 ENGINE RESTRAINTS

V-twin motors running injected nitro must utilise cylinder head restraints or a ballistic type explosion blanket.

DRIVE TRAIN: STTF 2 SEE GSR 2

STTF 2.1 CLUTCH & PRIMARY TRANSMISSION

Any type, make or pattern of clutch assembly and/or drive chain/belt may be installed.

BRAKES & SUSPENSION: STTF 3 SEE GSR 3

STTF 3.2 SUSPENSION

The minimum front fork stanchion diameter is as follows;

Diameter
28 mm
30 mm
32 mm
34mm

FRAME: STTF 4 SEE GSR 4

STTF 4.1 FRAME

Frame may be original factory equipment, altered or modified at the owners' discretion, or of tubular type frame construction. All butt welds must have visible reinforcement and no grinding or filling of welds is permitted. Positive steering stops for both directions of travel mandatory. Steering dampers may not be used as steering stops.

STTF 4.2

Sufficient trail must be incorporated into the alignment to ensure proper handling, 6 inches is recommended.

STTF 4.3 GROUND CLEARANCE

Minimum of 75mm is recommended

STTF 4.4 WHEELBASE

At the owners discretion

TYRES & Wheels STTF 5 SEE GSR 5

STTF 5.1 FRONT TYRE

Front tyres to be of racing type, or if road type they must be a minimum of "V" specification or racing type specification.

STTF 5.2 WHEELS

All wire spoked wheels must utilise steel spokes of adequate strength and properly laced. Wheels manufactured for car use may be used providing the fittings to the machine are of sound

235



engineering standards. All wheels must run true and all bearings must be in good condition. Balance weights must be securely attached.

SEAT: STTF 6 SEE GSR 6

STTF 6.1 SEAT

Must be securely attached to the frame and be constructed so as to prevent slipping backward from the proper seating position. Any padding used must be securely attached.

BODY: STTF 7 SEE GSR 7

STTF 7.1 MUDGUARDS

Mudguards are not compulsory but if fitted they must be constructed of material with no sharp edges and must be securely fitted to the machine. If a stock front mudguard is removed and an aftermarket unit is used, a fork brace of adequate dimensions must be fitted on machines weighing 450 lbs (204 kg) and over.

ELECTRICAL: STTF 8 SEE GSR 8 / GSR 6.27

SUPPORT GROUP: STTF 9 SEE GSR 9

RIDER: STTF 10 SEE GSR 10

236



CHARTS & FORMULAS

Displacement = bore x bore x stroke x .7854 x # of cyl. Volumes: Bore x bore x 12.87 x depth of deck clearance = Volume (cc's) of deck clearance Bore x bore x 12.87 x thickness of head gasket = Volume (cc's) of head gasket Comb Chamber CC's + Gasket CC's + Deck CI CC's + Displacement x *2.0483

Compression = _ Ratio

Comb Chamber CC's + Gasket CC's + Deck CI CC's

*2.0483 for 8 cyl. *2.7311	for 6 cyl. *4.0967 for 4 cyl.
$\pi = pie \pi = 3.1416$	radius ² = radius x radius
Circumference	$=\pi$ x diameter
Area of circle $= \pi x \text{ radius}^2$	
Volume of cylinder	= π x radius ² x height

Weights

Oil	1 gallon = .833 lb	Alcohol	1 gallon = 8 lb
Petrol	1 gallon = .74 lb	Water	1 gallon = 10 lb
Nitro	1 gallon = 11.25 lb		

Above weights are for UK gallons 1.19 US gallon = 1 UK gallon

Titanium is 57% of weight of steel Aluminium is 35% of weight of steel Magnesium is 22% of weight of steel

METRIC & STANDARD CONVERSION Length

1 Kilometre = 1000 metres = 3,280.83 ft = .6215 mile 1 Metre = 100 centimetres = 39.37 in = 1.09 yards 1 Centimetre = .3937 inch 1 Mile = 1.609 kilometres 1 Yard = .91 metres1 Inch = 2.54 centimetres $1 \ln ch = 25.4 \text{ millimetres}$ Mass 1 Kilogram = 1,000 grams = 2.2045855 lbs 1 lb = 453.6 grams 1 ounce = 28.35 grams lbs x 2.20 = kilosKilograms/2.20 = lbs Volume 1 litre = 100 cubic centimetres = 61.025 cubic inches 1 cubic inch = 16.387 cubic centimetre

237

 \mathbb{O}

MOTOLICIES MOTOLICE

Contact Names

FEDERATION INTERNATIONALE DE MOTORCYCLISME (FIM)

11 route Swisse CH-1295 MIES Switzerland Tel : 0041 22 950 9500 Fax: 0041 22 950 9501 E-mail: <u>fim@fim.ch</u> Website: <u>www.motorcyclesport.org</u>, <u>www.motorcyclesport.com</u>

UNION EUROPEENE DE MOTORCYCLISME (UEM)

Via Giulio Romano 18-1-ROMA Italy Tel: +39 06 36858612-3233819 Fax: +39 06 36858612-3218477

THE AUTO-CYCLE UNION LIMITED (ACU)

ACU House Wood Street, Rugby Warwickshire, CV21 2YX Tel: 01788 566400 Fax: 01788 573585 E-mail admin@acu.org.uk, Website: www.motorcyclinggb.com

MOTORSPORT UK

Motor Sports House Riverside Park Colnbrook SL3 0HG Tel: 01753 765 000 (Competition Licence Section 01753 765050) Fax: 01753 682 938 Web: www.msauk.org

FEDERATION INTERNATIONALE DE L'AUTOMOBILE (FIA)

8, Place de la Concorde 75008 Paris, France Tel: 0033 1 43 124455 Fax: 0033 1 43 124466 Web: www.fia.com

SANTA POD RACEWAY

Unit 5, Airfield Road Podington, Wellingborough Northants, NN29 7XA Tel: 01234 782828 Email: info@santapod.com Web: www.santapod.com

Fax: 01234 782818

()

MOTOLESOOLT OK

238

DRAG RACING CLUBS

SANTA POD RACERS CLUB

PO. Box 12 Rushden Northants, NN10 0ZU Tel: 01933 313625 Fax: 01933 355558 Email: ir.marshall@btconnect.com Web: www.eurodragster.com/sprc

Year Book Editor Philip Evans 07836 513950

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Chemin de Blandonnet, 2 CH - 1215 Genève 15 Switzerland Tel: 0041 22 544 44 00 Fax: 0041 22 544 44 50

MOTORSPORT UK

Motor Sports House, Riverside Park Colnbrook, Slough, SL3 0HG Tel: 01753 681736 Fax: 01753 682938

AUTO CYCLE UNION

ACU House, Wood Street, Rugby Warks, CV21-2YX

DRAG RACING CHASSIS INSPECTORS

 SFI Approved and National Chassis Inspectors:

 Geoff Martin
 01608 674121 (Mobile): 07811 678798

 Mark Norton
 01865 400812 (Mobile): 07881 456314

239

