

CAR CLASS REGULATIONS

JUNIOR DRAGSTER

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 preset 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 MSA Junior dragster racing class from the day of their 8th birthday through the year of their 18th birthday.

Junior Stock: ages 8 and 9; dial-in restricted to 12.90 seconds or slower based on either an e.t. dial-your-own or heads-up basis: breakout rules apply. Any racer running quicker than 12.70 e.t. at any time during an event will receive one warning. If the same racer runs quicker than 12.70 e.t. again at the same event, he or she will be disqualified for the remainder of the 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.

Junior Modified: ages 10-18; dial-in restricted to 8.90 seconds or slower based on either an e.t. dial-your-own or heads-up basis: breakout rules apply. Any racer running quicker than 8.70 e.t. at any time during the event will receive one warning. If the same racer runs quicker than 8.70 e.t. again at the same event, he or she will be disqualified for the remainder of the event. Any racer running quicker than 8.50 e.t. at any time during an event will be immediately disqualified for the remainder of the 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.

Junior Modified Advanced: ages 13-18; dial-in restricted to 7.9C seconds or slower based on either an e.t. Dial-your-own or heads-up basis; breakout rules apply. **Any racer running quicker than 7.70 e.t. or faster than 85mph at any time during an event will be disqualified from the event.** If a driver has n: 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; no overhead valves, no overhead cams. 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. Must be MSA accepted. NHRA- accepted after market block permitted. Must retain original five- horsepower engine block configuration. Porting, polishing and relieving of block; boring of cylinder; machining of deck surface permitted. After market head 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 271.5 mm (10 11/16 inches) from base to deck. Any measurement that exceeds that limit is prohibited.

JR 1. 3 EXHAUST

Regardless of design, no part of tailpipe may extend more than 685 mm (27 inches) past exhaust attachment point on rear of engine block. Outlet must be directed rear ward, away from driver and engine. Mufflers permitted.

JR 1.4 FUEL

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

JR 1.5 FUEL SYSTEM

Any naturally aspirated carburetor. Fuel injection prohibited. Auxiliary vacuum fuel pump permitted; must be pulsed from manifold only. Pressurized fuel systems prohibited. Fuel tank must be located behind driver, below the shoulder hoop of roll cage and be securely mounted. Maximum capacity of fuel tank or cell, 3.78 liters (1 US gallon). Fuel tank/cell must be equipped with a screw-on or positive locking cap. All vents must 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 for 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 drivers 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), 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 (.060-inch) steel or 2.2mm (.090- inch) aluminium. Must be securely mounted (no tie wraps). Moving engine / drive train parts must be protected by frame rails or guards.

JR 2.2 CLUTCH

Maximum one dry centrifugal-type engine clutch. 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 (.090-inch) 2024T3, 6061T6 or 7075T6 aluminium or 1.5mm (.060-inch) steel is required.

JR 2.3 FLYWHEEL

After market billet flywheel or MSA- accepted aftermarket: flywheel shield mandatory unless original, stock carburettor is used. With original stock carburettor, aftermarket billet or stock steel flywheel mandatory. 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 MSA- accepted 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 (17-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(17- inch) diameter with a 6.4mm(1/4-inch) thickness minimum; dual steel brake rotors, 150mm(6-inch) diameter with a 5mm(3/16-inch) minimum thickness; or aluminium brake rotor, 280mm(11-inch)diameter with a 6.4mm(1/4inch) minimum thickness. Line-locs 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 a 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 pullout. Flexible steering shaft prohibited. Minimum spindle diameter 12.7 mm (1/2-inch) Cars running 8.89 to 7.90 must have rack and pinion steering only.

JR 3.4 WHEELIE BARS

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

FRAME :JR 4

JR 4.1 ALIGNMENT

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

JR 4.2 BALLAST

Maximum amount of removal ballast 11.3kg (25 pounds) 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 4.5-11.3 kg (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 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 4.5-11.3 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; 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 1.5 mm (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 177 mm (7 inches) wide, may be narrowed or rounded above the helmet. Two- piece plate permitted with no air gap between the two. Carbon filter prohibited.

JR 4.4 GROUND CLEARANCE

Minimum 76 mm (3 inches) from front of car to 30.5 mm (12 inches) behind centreline of front axle; 51 mm (2 inches) 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

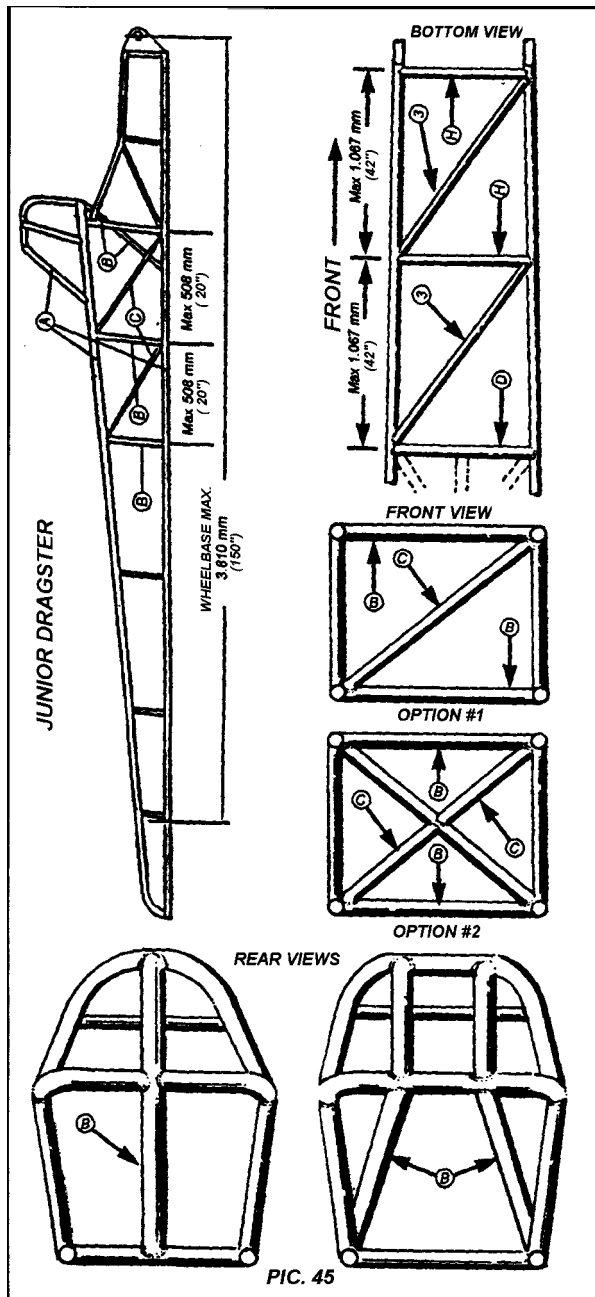
Construction must conform to standard dragster configuration as outlined in illustration with minimum 5 -point roll cage mandatory. When driver is in driving position, roll cage must be at least 76 mm (3 inches) in front of helmet. Roll cage hoops, upper frame rails, and lower frame rails must be minimum 28.5 mm (1 1/8 inch) diameter by 2 mm (.083 inch) wall thickness round mild steel tubing. Uprights must be minimum 22 mm (7/8 inch) by 2 mm(.083-inch) Diagonals must be minimum 19 mm (3/4 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(3/4 inch) by 2 mm (.083 inch) diagonal. Note 1.5 mm(.058-inch) chrome moly may be used in place of 2 mm (.083 inch) mild steel. Chrome moly 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 stripping prohibited. All cage structures must be designed in an attempt to protect the driver from any angle, 360 degrees. All chromoly welding must be done by approved TIG heliarc process; milc steel welding must be approved MIG wire feed or TIG hetiarc 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 inch) maximum 3810 mm (150 inches) Maximum wheelbase variation from left to right 51 mm (2 inches).



TIRES AND WHEELS JR 5

JR 5.1 TIRES

Rear tires minimum 457 mm (18inch) diameter by 190 mm (7 1/2 inches) wide, as noted by size designation on sidewall of tire or by physical measurement at widest or tallest point. All front tires must have manufacturer's ratings. All tires must be pneumatic; no solid tires. Tires will be visually checked for condition, pressure, etc, and must be considered free of defects by the technical inspector prior to any run.

JR 5.2 WHEELS

Front wheels minimum 127 mm (5 inches) diameter; minimum spindle diameter 12.7 mm (1/2 inch) Spindle nut must utilise a cotter pin or be of the nylon - locking type. Wire spoke wheels must utilise 2540 mm (100 inch) minimum- diameter steel spokes. Rear wheels, minimum 203 mm(8inch) diameter. Modifications to any wheel prohibited. The use of "spinner'-style wheels or any designs that incorporate movable peices while the vehicle is in motion are prohibited.

INTERIOR JR6

JR 6.1 FOOT- BOX BULKHEAD

All cars must be equipped with a bulkhead in front of the drivers feet, minimum 0.6 mm (.024 inch) steel or 0.8 mm (0.32 inch) 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 mandatory. No part may come in contact with tire or wheel at any time. Spring-loaded 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 o• carbon fibre and extend forward to foot- box bulkhead. Drive 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 no cover top of engine, wheels or tires. Front overhang not to exceed 380 mm (15 inches) measured from centreline of front spindle to forward most point of car. Body must be of accepted dragster style/ design. Roadster, Altered, Funny Car, etc, body styles prohibited. Only OEM- Style mirrors, mounted in the conventional fashion permitted. Cover or canopy over cockpit prohibited.

JR 7.3 COMPETITION NUMBERS

Each car in competition must display the driver's permanent number. Minimum size 100 mm(4 inches). 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.

JR 7.4 FLOOR

Full floor, mounted on top of lower frame rail cross braces, extending from the driver's seat forward to 150 mm (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 2.3kg (5 pounds). Must be securely mounted outside drivers 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.

JR 8.3 DELAY BOXES/ DEVICES

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 76 mm (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 150 mm (6 Inches) long must be attaches to the spark- plug wire within 25 mm (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.

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. 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- locs, clutch, throttle, brakes, etc.) All controls must be a function of the driver.

JR 9.5 LIFTING DEVICES

Any form of mechanical, hydraulic, or other leverage-type device for raising a cars 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 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

Minimum age 8 years. Drivers 8 and 9 years old restricted to 12.90 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

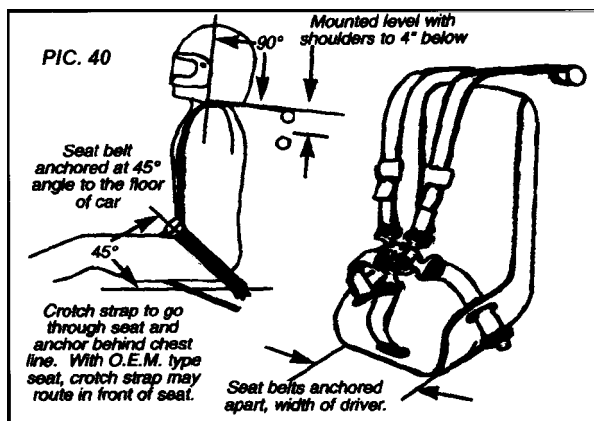
Each member of a participant crew must be fully attired when present in the staging, starting and competition areas on the racetrack. Shoes are mandatory.

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 instruction



JR 10.5 CREDENTIALS

MSA competition licence mandatory when taking part in competition.

JR 10.6 DRIVER RESTRAINT SYSTEM

5-point 45 mm (1 1/4 inch) wide driver restraint systems mandatory. All seat- belt and shoulder- harness installations must be mutually compatible, originally designed to be used with each other. For harness installation, see 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-bil' latch hardware. All harness sections must be mounted to the frame, cross member or 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 MSA Competitors year book (Blue book)

JR10.8 NECK COLLAR

Mandatory. 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. Modification according to manufacturers recommendations, to fit helmet and drivers neck/shoulder spacing, permitted. Must be worn as per manufacturers recommendations.

JR 10.9 PROTECTIVE CLOTHING

All drivers are required to wear a jacket meeting SFI spec 3.2A, 1 or 1 layer Proban, full-length pants, shoes, socks and gloves. Nylon or nylon-type clothing and open-toe shoes prohibited. Shorts, bare legs, tank tops or bare torsos prohibited.

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

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 quarter-mile (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. Display or transmission of track location, time/distance data, etc. 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)
ET II 7.50 to 11.99 (4.50-7.49)
ET III 12.00 to 13.99 ('7.50-8.59)
ET IV 14.00 or slower ('8.60 and slower)
For Starting numbers: **See GSR: 7.3**

Please note these four safety categories are used to decide the level of safety construction rules. For 2005 Championship 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.

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 approved lower engine ballistic restraint with absorbent lining meeting SFI Spec. 7.1. If restraint is not 51 mm (2 inch) above the ground a shield firmly attached to 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 alcohol/methanol double pipe or

thermal wrapped insulated headers mandatory: insulation must extend to start of bend in headers at bottom of body. Mufflers may be required in the future. **See GSR: 1,3.**

ET 1.3 FUEL

Gasoline/petrol, methanol, ethanol and diesel accepted. Nitro methane prohibited. Only Nitrous Oxide in accordance with GSR: 1,9 permitted. **See GSR: 1.6, 1,6.1, 1.8, 1.9 and 1.11.**

ET 1.4 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. If running Methanol or, regardless of fuel, quicker than than 7.50, restraint system on Rootes Type meeting SFI Spec 14.1 and Manifold Burst Panel meeting SFI Spec 23.1 mandatory. On 7.50 secs and quicker cars, High Helix and Screw-Type supercharger permitted. Screw-type supercharger manifold burst panel meeting SFI Spec 23.1 (in addition to panel in Supercharger) plus restraint system meeting SFI Spec 14.21 mandatory. Supercharger restraint straps must be covered with a fire-resistant material. The restraint straps and fuel lines must be installed such that when the straps are fully extended no load is placed on any of the fuel lines. Any OEM street-type Supercharger permitted. **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.

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 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 though 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 1/2-inch thick axle retention loop on each axle. Alterations to cross members permitted when independent rear suspension is replaced. For all supercharged methanol burning ET cars running 7.49 (*4.49) or quicker and all cars quicker than 6.50 seconds or exceeding 210 mph aftermarket full-floating or live axle assembly mandatory. **See GSR 2.2 and 2.11.**

ET 2.4 TRANSMISSION, AUTOMATIC

Spring-loaded, positive reverse lockout device and functional neutral switch mandatory. Transmission shield meeting SFI Spec 4.1 mandatory on any car running 9.99 ('6.39) 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 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.**

ET 3.2 STEERING

See GSR: 3.3 and 4.1.

ET 3.3 SUSPENSION, Altered, 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 12-inches (305mm) behind centreline of front axle, 2-inches (51 mm) 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, 4.11.1, 4.11.2 and 10.7.**

ET 4.6.1 ROLL CAGE ET Cars

Cars running 8.49 (*5.09) - 7.50 (*4.50) or quicker Doorslammer spec:

SFI 25.4 Full tube chassis 4130 Chrome Moly or M/S

SFI 25.5 Full Bodied car Stock or Modified/OEM Floorpan and Firewall with OEM Frame or Unibody construction.

Funny Car and Altered Spec: SFI 10.3

Rear Engine Dragster: SFI 2.7A

Front Engine Dragster: SFI 2.6

Side Steer Roadster: SFI 10.4

ET 4.6.1 ROLL CAGE ET Cars Cars running 7.49 (*4.49) or quicker

Full Bodied car chassis must meet SFI Spec 25.1 E.

Funny Car chassis must meet SFI Spec. 10.1 D.

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

Front-engine dragster chassis must meet SFI Spec 2.4B.

Chassis must be inspected every three-years by RACMSA / 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: 51 mm (2inches). 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

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, Altered, 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 airfoils or wings permitted on stock bodied vehicles, must be permanently attached to frame or roll cage. non adjustable 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 bellypan 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.**

ET 7.7 FLOOR

Mandatory. **See GSR: 6.1 and 7.6.**

ET 7.8 HOOD

Optional. Carburetors 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, Altered, 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, 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

Prohibited. **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, legal unto themselves but altered or installed so as to function as a down track rpm controller, 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.**

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 9.2 DATA RECORDER

Prohibited, except for cars running 10.00 ('6.40) or quicker. See **GSR: 9.2.**

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 all cars. Four piece driver restraint system mandatory in all cars running 11.99 (*7.49) or quicker. Three-inch driver restraint system meeting SFI Spec 16.1 with crotch strap mandatory in cars running 9.99 (*6.39) 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 MSA Competitors year book (Blue book).**

ET 10.6 NECK COLLAR

Mandatory in all cars running 10.99 (*6.99) or quicker. ET Cars running 7.49 (*4.49) seconds or quicker neck collar meeting SFI Spec. 3.3 mandatory. Commercially available head and neck restraint can be used. See **GSR: 10.9.**

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 mandatory.

All unblown vehicles running 10.00 (6.40) seconds or slower:

All drivers, jackets and pants or suit meeting SFI spec 3.2A/1 or 1986 FIA standard 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 1986 FIA standard mandatory.

All Open Body Vehicles running 11.99 or quicker:

In addition to suit and pants or suit as outlined above gloves meeting SFI spec 3.3/1 or 1986 FIA standard and 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 1986 FIA standard, gloves meeting SFI spec 3.3/1 or 1986 FIA standard mandatory.

Front engine, 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 SFI spec 3.3/5 and boots or shoes meeting SFI spec 3.3/5 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 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 mandatory.

ET 10.7.1 PROTECTIVE CLOTHING 7.49 SECONDS AND QUICKER:

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 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 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 meeting SFI spec 3.3/5 and boots or shoes meeting SFI spec 3.3/5 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 meeting SFI spec 3.3/5 and boots or shoes meeting SFI spec 3.3/5 mandatory.

Naturally aspirated car: i.e. all others: Jacket and pants or suit meeting SFI spec 3.2A/5 or 1986 FIA standard and gloves meeting SFI spec 3.3/5 or 1986 FIA standard 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 carburetors 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. Maximum 2 valves per cylinder. 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

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 51b bottle

Rover based engines: 1 X 101b 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 carburetors 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 -4 or -6 supply line only. Must be appropriate length (no 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 hole.

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 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 drivers 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 mandatory. See GSR: 2.2 and 2.11.

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 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 (2921 mm)

Trucks maximum 125 inches (3175mm)

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. airfoils 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

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, 10.10.

SM WEIGHT BREAKS

Minimum weight - Big Block, 2,300 lbs

Small block 2,250 lbs

Rover Wildcat heads, 2,150 lbs

Rover standard heads, 1,850 lbs

Big block engines using production heads- normally aspirated
3.80 lbs/cubic inch.

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

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 Ibs.) 6cylinder cars, 907 kg (2000 Ibs.) 4-cylinder and rotary cars, 544 kg (1200 Ibs.)

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

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. Mufflers may be required in the future. **See GSR: 1.3.**

SST 1.3 FUEL

Only Gasoline/Petrol, methanol, ethanol and diesel meeting MSA 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 drivers 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 monitors 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.

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 REAR END

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 1/4-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. Transbrake permitted. Automatic transmission flexplate 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.**

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.**

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.**

SST 5.2 WHEELS

Wire or motorcycle wheels prohibited. Minimum wheel size 13 inches (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, Fibreglas, double layer poly or carbon fibre (automotive accessory seats permitted). One seat mandatory. **See GSR: 6.2.**

SST 6.2 SHEET METAL

Drivers 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. Fibreglas 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.**

SST 7.4 FLOOR

Mandatory. **See GSR: 7.6.**

SST 7.5 STREET EQUIPMENT

One working taillight 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 MSA 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 a 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 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 polycarbonat (Lexan or equal). Original Safety glass permitted. Identification decals permitted on rear quarter windows, rear window, 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.**

SST 8.3 IGNITION

Timed ignition interruption devices (stutter boxes) prohibited. Starting line and/or "high side" rev limiters permitted. Two-step, rev-limiters or any other rpm limiting device, legal unto themselves but altered or installed so as to function as a downtrack rpm controller, 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

Drivers 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 or FIA Approved mandatory in car with roll cage. **See GSR: 10.5.**

SST 10.5 HEAD PROTECTOR

Mandatory. **See GSR: 10.6.**

SST 10.6 HELMET

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

SST 10.7 NECK COLLAR

Mandatory. **See GSR: 10.8.**

Commercially available head and neck restraint device can be used.

SST 10.8 PROTECTIVE CLOTHING

All drivers, jackets or suit meeting SFI spec 3.2A/1 or 1986 FIA standard 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 meeting SFI spec 3.3/5 and boots or shoes meeting SFI spec 3.3/5 mandatory.

See GSR: 10.10.

SUPER GAS

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 Alters, 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. Mufflers may be required in the future **See GSR: 1.3.**

SG 1.3 FUEL

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

SG 1.4 FUEL SYSTEM

Aftermarket fuel tanks or cells permitted. (recommended)

Must be located outside drivers 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 (2discs 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.**

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 1/4-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. Transbrake permitted. Automatic transmission flexplate meeting SFI Spec 29.1 recommended. **See GSR: 2.14.**

SG 2.5 TRANSMISSION SHIELD, AUTOMATIC

Automatic transmission shield meeting SFI 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**.

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

TYR SG 5.1 TYRES & 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 13 inches (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

Drivers compartment interior must be aluminium or steel. Magnesium prohibited.

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 MSA 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.**

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 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 mm (1/8-inch) minimum thickness.

Plexiglas in windscreen prohibited, must be made of polycarbonat (Lexan or equal). Original Safety glass permitted. Identification decals permitted on rear quarter windows, rear window, 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 device, legal unto themselves but altered or installed so as to function as a downtrack rpm controller, 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**

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

Drivers 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

Three-inch five point driver restraint system meeting SFI Spec 16.1 or FIA Approved mandatory. Crotch strap mandatory. See **GSR: 10.5.**

SG 10.5 HEAD PROTECTOR

Mandatory. See **GSR: 10.6.**

SG 10.6 HELMET

See MSA Competitors year book (Blue book).

SG 10.7 NECK COLLAR

Mandatory. See **GSR: 10.8.**

Commercially available 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 1986 FIA standard 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 meeting SFI spec 3.3/5 and boots or shoes meeting SFI spec 3.3/5 mandatory. **See GSR: 10.10**

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 mandatory.

STREET ELIMINATOR

For safety and construction regulations for this class please see ET Bracket class regulations, specifically ET I, ET II, or ET III 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.

There must be no changes to the car between the cruise and the eliminations other than changing the plugs or repairing damage. 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.

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 driver seating position. Collector mufflers are not allowed. **See ET: 1.2 and GSR: 1.3.**

SE 1.3 FUEL

The car must run on widely available pump gas. Specifically unleaded, super unleaded or 4 star (while you can get it) or 4 star substitute. The use of high octane pump gas 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 the fuel substitution. The driver will be informed, usually on the evening of the cruise, at what point on the following day that the substitution will take place. Any additives **MUST** be declared and added directly from an unopened vessel at the point of substitution. This fuel will be provided by the organisers and will be exchanged for an equal quantity of fuel to be provided by the racer. For this season it is strongly recommended that any octane booster is not added until after the selection is made. 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. Cars that fail to perform to their known potential using organiser's fuel are likely to be targeted for continued fuel testing at subsequent rounds. **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. 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

Power adders: Nitrous Oxide, Supercharging or Turbo charging are all acceptable when used alone. Any combinations of turbo charging and nitrous oxide injections are not allowed. For this reason all compressed air/gas cylinders (except fire extinguishers) are banned in turbo cars. Cars with engines of less than 6 cylinders or of displacement equal to or less than 3000 cc's may use any combination of power adders. Supercharged cars may also use nitrous oxide injection but from 2007 this combination will only be permitted 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: ET 3

ET 3.5 WHEELIE BARS

Prohibited.

TYRES & WHEELS: SE 5

SE 5.1 Rear Tyres

Legal Rear Tyres;

Hoosier Quick Time (Full tread pattern).

Mickey Thompson Sportsman and Sportsman Pro.

BFG Drag Radial.

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:

For the cruise they must meet with MOT requirements, changing of front tyres to front runner type is permitted for racing to allow compliance with speed rated performance. Matching or similar wheels are required if changes to tyres are made.

All tyres must meet MOT tread depth requirements. **See also Section ET5.1 and GSR 5.**

BODY: SE 7

The car must have a minimum of two doors. **See also ET7**

SE 7. 10 WINDSHIELD, WINDOWS,

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

INTERIOR: SE 6

SE 6.1 SEATS

The car must have a minimum of two seats, two doors and an exhaust system that incorporates mufflers and exits behind the driver seating position. Collector mufflers are prohibited. **See also ET6.1 & GSR: 6.2.**

DRIVE TRAIN: ET 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, Torqueflight. Aftermarket cases or bell housings that negate the need for trans 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, clutchless manual transmissions are not allowed. For clarity, Drag Race only, Jerico, Liberty, Clutched Turbo 400, BrunoLenco 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**

ADDITIONAL REGULATIONS: SE11

SE 11.1 Racing

11.1.1. The qualifying will be finalised by MSA officials, after the last qualifying pass, subsequent failures on the cruise will thus be eliminated and provide byes within the pre-determined ladder.

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. If any car other than a driver's regular SE car is to be used for whatever reason, it must run within two seconds of the car usually used in competition.

11.1.7 After the Cruise cars must be re-scrutinised before taking in eliminations.

SE 11.2 Cruise

11.2.1. The cruise will leave one hour after the last SE qualifying runs, no more, no less. Cruise Marshals will verify the exact time the cruise will take place after the last cars have run. Should a dispute arise over the cruise time then the time recorded on the ticket of the last SE car will serve as a starting point for the 1 hour clock. The organisers will give the racers not less than one hour's notice of the cruise time. The 5 minute rule (under 11.2.4) for stragglers is not to be used until the fuel stop. Please note that the cruise is not part of the racing activity, nor is it a time trial. The sole purpose of the cruise is to determine the car's ability to be classed as a street vehicle.

11.2.2. The cruise will be between 15 and 30 miles. The route will be decided by the organiser.

11.2.3. All cruise cars must take on not less than £8 of fuel. This is to be witnessed by the organiser.

11.2.4. After the last car has moved away from the pumps, the cruise will wait for 5 minutes for any stragglers. Cars which fail to meet the deadline will be eliminated. This '5 minute waiting rule' also applies at the hot start venue and to the return to the track.

11.2.5. The cruise will proceed to a meeting point where each racer must complete a 'hot start' with no outside assistance. Cars will be given 2 minutes each to achieve the hot start from the first time of asking. Failures will be eliminated. The use of auxiliary power such as booster boxes or secondary batteries (for cruise use only) is prohibited. The use of a second battery is acceptable providing it is permanently mounted and connected at all times.

11.2.6. Cars will complete the cruise and return to the track. Failure to do so within 5 minutes of the previous car will be eliminated.

11.2.7. No 'Hotdogging'. This includes driving with doors open or any other flagrant abuse of the law. For clarity, any activity that is regarded by the organiser as likely to bring the class into disrepute will result in the driver being eliminated from the weekend's racing. Rules of the road apply and should be respected, any violation resulting in the Police issuing a ticket will eliminate the car from competition.

11.2.8. It is the driver's responsibility to ensure that his car is road legal before attending the cruise. The event organisers are not responsible for ensuring the roadworthiness of vehicles involved in the competition.

11.2.9 Any external assistance in cooling the cars is not allowed during the cruise. Specifically, the use of garage air lines or water lines on radiators.

11.2.10 Where numbers dictate, the organiser reserves the right to introduce a second cruise or timed course with checkpoints at his discretion. Racers will be given not less than two hours notice of any change to the organisation of the cruise

11.2.11 Crew and support vehicles that feel it necessary to go on the cruise must follow the cruise behind the last SE car. Any crew vehicle driving amongst the SE cruise cars will result in their competing car with elimination from the event.

11.2.13. The SE competitor must attend the cruise, either as driver or as a passenger in the competing car

SE 11.3 Points System

250 points round win

150 bonus points for event winner

150 points for round runner up

100 points for signing on

Qualifying Points

In any given field the slowest qualifier will receive 10 points.

In ascending order each qualifier will receive multiples of 10 points for the qualifying position attained

i.e. In a 9 car field number 1 qualifier will gain 90 points

25 points for new time (backed up within 1 %)

25 points new speed (backed up within 1 %)

500 points for attending all rounds.

Where two racers finish on the same number of points, the car that has recorded the quickest ET takes the higher position.

Rain off Points

In the event of a rain off all racers will be awarded the points won up to the point of the rain off

In the event that the racing is cancelled with only the final to run then the two finalists will share the available points.

SUPER COMP

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 Altered 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

Maximum two outlets, pointed away from the driver and fuel tank. Mufflers may be required in the future **See GSR 1.3.**

SC 1.3 FUEL

Only Gasoline/Petrol, methanol, ethanol and diesel meeting MSA 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 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

Minimum catch-can capacity 0,5 litres (1 pint). Mandatory. **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.

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 (2discs 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.**

SC 2.2 DRIVELINE

Driveline loop mandatory. **See GSR: 2.4**

SC 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 1/4-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 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. Transbrake permitted. Automatic transmission flexplate meeting SFI Spec 29.1 mandatory. **See GSR: 2.14.**

SC 2.6 TRANSMISSION SHIELD, AUTOMATIC

Automatic transmission shield meeting SFI Spec 4.1 mandatory Automatic transmission flexplate shield meeting SFI Spec 30.1 Mandatory. **See GSR: 2.14.**

BRAKES & SUSPENSION: SC 3

SC 3.1 BRAKES

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

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, Fibreglas, double layer poly or carbon fibre (automotive accessory seats permitted). One seat mandatory. **See GSR: 6.2.**

SC 6.2 SHEET METAL

Drivers 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 home made 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, Fibreglas 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 bellypan, 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.**

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 polycarbonate (Lexan or equal). Original Safety glass permitted. Identification decals permitted on rear quarter windows, rear window, 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 device, legal unto themselves but altered or installed so as to function as a downtrack rpm controller, 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 9.1.1 AUTOMATED SHIFTERS

Permitted. See **GSR: 9.1.1**

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

Three-inch five point driver restraint system meeting SFI Spec 16.1 or FIA Approved mandatory. Crotch strap mandatory See **GSR: 10.5.**

SC 10.4 HEAD PROTECTOR

Mandatory. See **GSR: 10.6.**

SC 10.5 HELMET

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

SC 10.6 NECK COLLAR

Mandatory. See **GSR: 10.8.**

SC 10.7 PROTECTIVE CLOTHING

Jacket and pants or suit meeting SFI spec 3.2A/5 or 1986 FIA standard 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 meeting SFI spec 3.3/5 and boots or shoes meeting SFI spec 3.3/5 mandatory. See **GSR: 10.10**

COMPETITION ELIMINATOR

Competition Eliminator category is for qualified cars in A/D, B/D, C/D, D/D, E/D, F/D, G/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; 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, 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 preceded by car number. For Starting numbers: See GSR: 7.3

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

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..
ALT	219-231	386	Max 4-cyl.four valve
F/D	232-	386	Max 2.54 litre
G/D	232-	386	Max 2.54 litre, opposed 4-cyl. Engine 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	200-220	1), 2), 3),	Only Supercharged, Roots High Helix
DB/D	221-309	1), 2), 3),	Only Supercharged, Standard Roots
EA/D	200-220	1), 2), 3),	Only Supercharged, Roots High Helix
EB/D	310-370	1), 2), 3),	Only Supercharged, Standard Roots
FA/D	200-220	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

- 1) 612 kg (1349 Ibs), Cars with V8.
 - 2) 454 kg (1000 Ibs), Cars with maximum 6 cylinders.
 - 3) 386 kg (850 Ibs), Cars with maximum 4 cylinders.
- Maximum weight: 1100 kg. (2425 Ibs)
For calculations from kg to Ibs use: 1 kilogram = 2.2045855 Ibs.

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.**

D 1.3 FUEL

Only Gasoline, petrol and methanol meeting MSA 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 drivers 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 OVERFLOW

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 DT/D, ET/D and FT/D Dragster. All grinding and/or altering of turbocharger housing prohibited. **See GSR: 2.13 and 4.8.**

D 1.10 VENT TUBE BREATHERS

Mandatory. **See GSR: 1.15.**

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

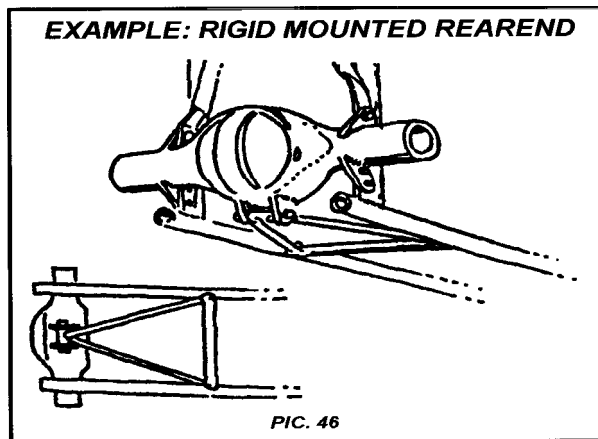
M6-blowback device mandatory in A/D, B/D, C/D, D/D, DT/D, ET1D, FT/D, AA/D, AB/D, BA/D, BB/D, CA/D, CB/D, DA/D, DB/D, EA1D, EB/D, FA/D, FB/D and BN/D Dragster. **See GSR: 2.1 and 2.4**

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.**

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 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 mandatory Automatic transmission flexplate meeting SFI Spec 29.1 mandatory. Automatic transmission flexplate shield meeting SFI Spec 30.1 mandatory. See **GSR: 2.14**.

BRAKES & SUSPENSION: D 3

D 3.1 BRAKES

Minimum two rear-wheel hydraulic brakes (disc brake) mandatory. Four-wheel brakes are recommended. 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**

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-mount 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 2.3K or 2.2B, 2.5 or 2.4A.

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

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' (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 bellypan, a crossmember and sub-floor are mandatory. Altered-type bodies prohibited. Driver's legs must be retained inside frame by subflooring, 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.

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 drivers 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.

D 10.4 DRIVER RESTRAINT SYSTEM

Three-inch five point driver restraint system meeting SFI Spec 16.1 or FIA/ ISO 8853 mandatory. Crotch strap mandatory. **See GSR: 10.5.**

D 10.5 HEAD PROTECTOR

Mandatory. **See GSR: 10.6.**

D 10.6 HELMET

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

D 10.7 NECK COLLAR

Mandatory. **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 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 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 meeting SFI spec 3.3/5 and boots or shoes meeting SFI spec 3.3/5 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 meeting SFI spec 3.3/5 and boots or shoes meeting SFI spec 3.3/5 mandatory.

Naturally aspirated car: i.e. all others: Jacket and pants or suit meeting SFI spec 3.2A/5 or 1986 FIA standard and gloves meeting SFI spec 3.3/5 or 1986 FIA standard 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, 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 preceded by car number. For Starting numbers: See GSR: 7.3

Altered type 1: Open Altered 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, AA/A, AB/A, AT/A, AN/A and BN/A, chassis must meet SFI Spec. 10.1 D

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, AA/A, AB/A, AT/A, AN/A, BN/A, A/PM and AA/PM chassis must meet SFI Spec. 25.1 E

27 Classes. Class is determined from the car's weight incl. driver divided by the size of the engine.

CLASS	KG/LITRE	MIN.WEIGHT (KG)	NOTE
A/A	94-129	1), 2),	
B/A	130-149	1), 2),	
C/A	150-179	680	
D/A	180-207	3), 4), 5),	
E/A	208-234	3), 4), 5),	
F/A	235-262	3), 4), 5),	
G/A	263-290	3), 4), 5),	
H/A	291-317	3), 4), 5),	
I/A	318-	3), 4), 5),	
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
CA/A	300-399		Only Supercharged, Roots High Helix
CB/A	300-399		Only Supercharged, Standard Roots
DA/A	400-		Only Supercharged, Roots High Helix
DB/A	400-		Only Supercharged, Standard Roots
AT/A	163-226	1), 2),	Only Turbocharged,
BT/A	227-349	3), 4), 6),	Only Turbocharged,
CT/A	350-499		Only Turbocharged,
DT/A	500-		Only Turbocharged,
AN/A	110-139	1), 2),	Only Nitro Oxide
BN/A	140-169	1), 2),	Only Nitro Oxide
CN/A	170-199	1), 2),	Only Nitro Oxide
DN/A	200		Only Nitro Oxide
A/PM	*	1077	Only Nitro Oxide Max 716 cui
AA/PM	*	1225	Only Supercharged Max 527 cui

*A/PM and AA/PM class, technical & safety regulations as per Pro Modified.

Minimum Weight

- 1) Altered Cars type 1. 680 kg (1499 Ibs)
- 2) Altered Cars type 2. 1066 kg (2350 Ibs)
- 3) V8-cars, 950 kg (2095 Ibs).
- 4) Maximum 6-cylinders, 900 kg (1984 Ibs).
- 5) Maximum 4-cylinders, 500 kg (1102 Ibs).
- 6) Maximum 4 cylinders, 612 kg (1349 Ibs)

Maximum weight: 1350 kg. (2976 Ibs)

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

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 MSA specifications permitted. Nitrous oxide prohibited except in AN/A, BN/A, CN/A, DN/A and A/PM Altered. Propylene oxide prohibited. **See GSR: 1.6,1.6.1,1.8,1.9and1.11.**

A 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 drivers 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 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/MSA accepted.

A 1.5 LIQUID OVERFLOW

Mandatory. 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. Minimum catch-can capacity 0,5 litres. Mandatory.

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 Altered. All grinding and/or altering of turbocharger housing prohibited. See **GSR: 2.13 and 4.8.**

A 1.10 VENT TUBE BREATHERS

Mandatory. 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 Altered 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 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

A21 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 "eel 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**

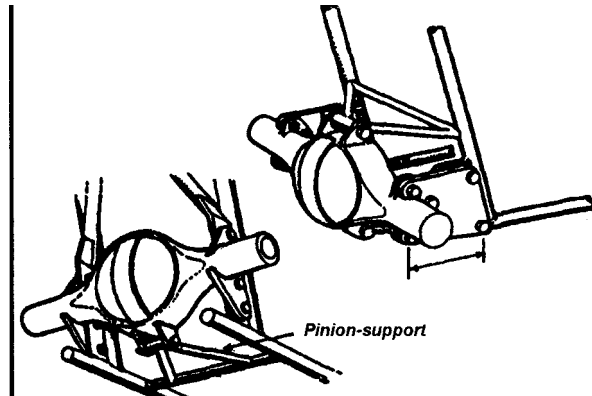
A 2.3 REAREND

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 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 transmission are prohibited. See **GSR: 2.12, 2.13, 2.14 and 9.7.**

EXAMPLE: RIGID MOUNTED REAREND



PIC. 47

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 4cylinders 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.**

BRAKES & SUSPENSION: A 3

A 3.1 BRAKES

Minimum two rear-wheel hydraulic brakes (disc brake) mandatory. Four-wheel brakes is 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 Altered 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**

A 3.2 STEERING

Commercially available quick-disconnect steering wheel permitted. Units meeting SFI Spec 42.1 recommended. For type2 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 mandatory. Minimum one hydraulic shock absorber per sprung wheel mandatory. **See GSR: 3.2, 3.4 and 3.5.**

A 3.4 TRACTION BARS

Permitted. Can not 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 picture 21-22 for Altered Cars type-1, 19-20 and 27-29 for Altered/ 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 10.1 D or 25.1 E. 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 (*5.09) - 7.50 (*4.50) or quicker

Doorslammer Specs:

SFI 25.4 Full tube chassis 4130 Chrome Moly or M/S

SFI 25.5 Full Bodied car Stock or Modified/OEM Floorpan and Firewall with OEM Frame or Unibody construction.

The 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 Sr7 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

Drivers 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.**

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 Alters 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

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). Fibreglass 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**.

A 7.6 WHEELWELLS

Wheelwells can be altered, but there must be one for each rear wheel. For Altered Cars type-2 wheelwells 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 type2 and Funny Car full-windscreen mandatory. Plexiglas in windscreen prohibited, must be made of polycarbonat (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. All batteries must be securely mounted with metal hold-downs outside the driver compartment. Maximum weight including battery-box 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 drivers 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.

DRIVER: A 10

A 10.1 ARM RESTRAINTS

1Aandatory 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

Three inch five point driver restraint system meeting SFI Spec 16.1 or FIA/ ISO 8853 mandatory. Crotch strap mandatory. **See GSR: 10.5.**

A 10.5 HEAD PROTECTOR

Mandatory. **See GSR: 10.6.**

A 10.6 HELMET

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

A 10.7 NECK COLLAR

Mandatory. **See GSR: 10.8.**

A commercially available head and neck restraint system can be used.

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 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 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 meeting SFI spec 3.3/5 and boots or shoes meeting SFI spec 3.3/5 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 meeting SFI spec 3.3/5 and boots or shoes meeting SFI spec 3.3/5 mandatory.

Naturally aspirated car: i.e. all others: Jacket and pants or suit meeting SFI spec 3.2A/5 or 1986 FIA standard and gloves meeting SFI spec 3.3/5 or 1986 FIA standard 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 Ibs) are limited to 280 mph. Vehicles weighing from 1135-1360 kg. (2500-3000 Ibs) 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.

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. Must have secondary shutoff on main fuel line. Emergency shutoff on burner line 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

Approved jet-type fuel only (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 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 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.

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 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 MSA accepted material (silver tape prohibited). Steel, aluminium or carbon fibre parachute tubes only. Parachute packs prohibited.

JC 4.3 ROLL CAGE

Dragster chassis must meet SFI Spec 2.3K, Funny Car chassis must meet SFI Spec 2.213, 2.3K or 10.1D. 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 drivers 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 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.

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 9.1 FIRE EXTINGUISHER SYSTEM

Funny cars; minimum 10 pounds (5kg) MSA accepted fire extinguishing system mandatory. Enclosed cockpit dragsters; minimum 5 pounds (2.5Kg) MSA 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

A 3 inch driver restraint system meeting SFI Spec 16.1 including crotch strap is 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 SA 2000, SA2005, SFI 31.1A, FIA 88602004 or BS 6658-85 A/FR. See **GSR 10:7**.

JC 10.5 NECK COLLAR

Full 360-degree neck collar meeting SFI spec 3.3 mandatory. See **GSR 10:8**.

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 3.3/5 gloves and SFI 3.3/5 boots/shoes.

NFAA ALTENIERED

DESIGNATION :- The class is reserved for supercharged altered bodied cars that are front-engined with a centre-steering position and designed specifically for Drag racing. The class is primarily designed to be an exhibition class, but all vehicles to be constructed and finished to the standard and style of Fuel Alterededs that were common to Drag Racing in the 1960's and 1970's. Cars running on Nitromethane AA/FA followed by race number - Cars running on Methanol BB/FA followed by race number.

ENGINE: FA 1.

FA 1.1 ENGINE.

One internal combustion, reciprocating, automobile-type V8 engine of any manufacture and any copy derivatives permitted. Maximum 2 valves per cylinder, pushrod operated. Any type of block or cylinder head may be used in cast iron or aluminium. Cubic inch displacement limited to 526 cu.in. Lower engine containment blanket manufactured to SFI Specification 7.1 or to FIA specification mandatory and to be in good condition. Supercharger bags mandatory and to be in good condition.

FA 1.2 EXHAUST

Zoomie or Funny car type headers permitted. No collector style headers allowed.

See GSR 1.3

FA 1.3 FUEL SYSTEM.

Methanol or Nitromethane only. Propylene Oxide and/or Nitrous Oxide prohibited. Maximum delivery from fuel pump of 25 gallons per minute including overdrive, 16 nozzles max, 8 in the injector hat, 8 in the manifold. No down nozzles allowed. Electric/electronic and pneumatic control of fuel system prohibited. Any system that appears to have the ability to control the timing of the fuel system must be removed from the car prior to running. No composite materials in injector hat and/or scoop. Composite materials include, but are not limited to, carbon fibre, Kevlar and weave graphite fibre. Hat/scoop must be nostalgic in appearance, internal modifications allowed.

Scoops limited to 12.5 inches above throttle body as measured from centreline of throttle shaft to top of scoop. Air intake limited to 60 sq inches. **See GSR 1.5. and GSR 1.6.2.**

FA 1.4 SUPERCHARGER.

Roots type supercharger: rotor helix angle not to exceed that of a standard 71 series GM-type rotor. Maximum size 14-71, 19 inch rotor case length, 11 7/8 inch case width, maximum rotor cavity diameter is 5.840 inches. Variable multi speed supercharger devices prohibited.

Manifold must contain a SFI Spec 23.1 burst panel. Blower restraint mandatory on all cars, specification as follows:

7.50 seconds and slower = SFI Spec 14.1

7.49 seconds and quicker = SFI Spec 14.2

Any car using Nitromethane as fuel = SFI Spec 14.3

Supercharger overdrive Ratios for Nitromethane:

If 14-71 fitted, max overdrive allowed is 20%

If 12-71 fitted, max overdrive allowed is 22%

If 10-71 fitted, max overdrive allowed is 24%

If 8-71 fitted, max overdrive allowed is 26%

If 6-71 fitted, max overdrive allowed is 28%

Alcohol cars allowed a max ratio of 35%

Alcohol cars are allowed to utilise a Roots-Type High Helix Supercharger, subject to the provisions of GSR 1.12 and with a maximum permitted overdrive of 16%. Belt guards mandatory on all cars.

FA 1.4 IGNITION.

Dual magnetos permitted. Mag advance or retard must be a function of the driver. Mechanical only, pneumatic and electronic control of ignition system is prohibited. No rpm chip boxes allowed. No mag (or combination of mags) larger than the output of a single MSD 44. No add on systems.

FA 1.5 THROTTLE.

A mechanical device for controlling the engine RPM's during burnouts may be attached to the injector or the throttle linkage, but may not be controlled by the driver. **See GSR 1:14**

FA 1.6 VALVE COVERS.

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

FA 1.7 VENT BREATHERS

Mandatory. Catch tank must be made of steel or aluminium. All tanks must have sufficient internal baffling to prevent through flow of oil. Minimum capacity 1.5 gallons below the baffle. Double clamps are required on each end of all hoses used in the vent system.

Cars running Nitromethane: Minimum 1 1/8 inch inside diameter hoses are required from each valve cover to the catch tank inlets. Minimum catch tank inlet configuration is two 1 inch inside diameter (or equivalent area) tubes. Minimum catch tank discharge configuration is two 1 inch inside diameter (or equivalent area) openings.

DRIVE TRAIN: FA 2.

FA 2.1 CLUTCH, FLYWHEEL & FLYWHEEL SHIELD.

Clutch and flywheel must meet SFI Spec 1.3 for Nitromethane burning cars & SFI Spec 1.4 for Methanol burning cars. A current tagged flywheel shield meeting SFI Spec 6.2 is mandatory. Maximum 4 disc clutch. All clutch movement must be made manually by the driver (Pedal type Clutch) or Mechanically (Crowerglide type Clutch). No ratchets allowed. No staged systems (Cannons) allowed. No timers, air, hydraulic or otherwise.

FA 2.2 TRANSMISSION.

Reversers are required. Transmission - Limited to 2speed only for Nitromethane, maximum 3 speed permissible for Methanol. Transmission shield to SFI Spec 4.1. automatic transmission also requires SFI Spec 30.1 Flexplate Shield & SFI Spec 29.1 Flexplate. Air shifter battles must be permanently mounted. Automatic transmission permitted on Methanol burning cars only, but OEM prohibited. Aftermarket cases such as Deadenbear required, along with aftermarket converters of a suitable specification/construction. Shifting of transmission by Air or Mechanical means only - no RPM activated shifters.

FA 2.3 DRIVELINE.

Anti-blowback device mandatory on all cars equipped with a clutch. No U-joints. Couplers mandatory.

FA 2.4 DRIVELINE COVER.

A full cover must enclose the driveline from the rear of the reverser to the area exposed to the driver's legs. Cover material shall be minimum .063"steel or .125"aluminum.

FA 2.5 REAREND.

Rear ends must be fitted with an anti-rotation device. Aftermarket axles required, fully floating axle mandatory on cars running quicker than 7.49 seconds, or on any car using Nitromethane as a fuel. Ratio limited to 3.90 or lower (meaning nothing lower numerically than 3.90).

BRAKES & SUSPENSION: FA 3.

FA 3.1 BRAKES.

Automated and/or secondary braking systems prohibited, application and release of brakes must be a direct function of the driver. All four wheel hydraulic brake systems must use a dual master cylinder. See **GSR 3:1**

FA 3.2 STEERING.

Quick disconnect steering wheel hub, if fitted, must comply with SFI Spec 42.1.
See **GSR 3:3**

FA 3.3 SUSPENSION.

Front suspension optional.

FA 3.4 WHEELIE BARS.

Mandatory, wheels must be non metallic, two wheels are strongly recommended. See **GSR 3:6**

FRAME: FA 4.

FA 4.1 BALLAST.

Permitted. See **GSR 4.2**

FA 4.2 GROUND CLEARANCE.

Minimum 3 inches from front of car to 12 inches behind centreline of front axle, 2 inches for remainder of car, except oil pan and exhaust headers. Minimum 3 inches from 12 inches in front of rear axle centreline to rear of car.

FA 4.3 PARACHUTE.

Dual parachutes mandatory with two separate shroud line mounting points for Nitromethane Cars or any running 7.49 seconds or lower ET. Parachute packs and shroud lines must be covered with a fire resistant material or other accepted material from mounting point into the pack. Two separate release cables mandatory with dual parachutes. Mechanically operated parachutes mandatory.

FA 4.4 ROLL CAGE.

Chassis specification as follows:

7.50 seconds and slower = National chassis specification

7.49 seconds and quicker, or any car running

Chassis spec SFI 10.1E mandatory.

Plating of chassis prohibited, painting permitted. Roll cage padding mandatory for anywhere that the driver's helmet may come into contact with roll cage components. IU wiring must be external of the frame rails, the routing of cables, hydraulic or pneumatic lines inside the chassis permitted. Pressurisation of frame rails in lieu of air bottles prohibited.

FA 4.5 WHEELBASE.

Minimum 100 inches, maximum 125 inches on the long side. Maximum wheelbase variation from left to right = 2 inches

WHEELS: FA 5

FA 5.1 WHEELS.

Rear wheels meeting SFI Spec 15.1 mandatory for Nitromethane burning cars or any car running 7.49 seconds or quicker - maximum width 16 inches.

FA 5.2 TYRES.

Tyres to be automotive type represented by a manufacturer specifically for Drag Racing. All cars running 7.49 seconds or quicker and all cars using Nitromethane must use front and rear tyres designed by a manufacturer for Top Methanol Funny Car/Dragster or Top Fuel Funny Car/Dragster.

INTERIOR: FA 6

FA 6.1 SHEET METAL

Driver compartment interior, firewall, seat etc. must be aluminium or steel. Magnesium or carbon fibre prohibited. Motor plates for Nitro cars must be 0.25" thick ChromeMoly, Methanol Cars can use Aluminium.

BODY: FA 7

FA 7.1 AIRFOILS/ WINGS

Airfoils & wings permitted, maximum rear wing area not to exceed 750 square inches.

FA 7.2 BODY

Open and enclosed altered bodies (enclosed bodies must have front wheels exposed) built for competition use only. shortening, stretching, altering original body shape & proportions permitted. Body and cowl must be metal, fibreglass or carbon fibre. All carbon fibre bodies must be painted on the underside of the body, including any roof area and must be covered with an accepted flame retardant covering or coating.

FA 7.3 ESCAPE HATCH.

A working escape hatch must be installed in the top of an, fully enclosed body to permit easy driver exit. Minimum size 18 inches x 17 inches.

Escape hatch must be permanently attached and hinged at front. Release mechanism, must be operable from both inside and outside the car.

FA 7.4 FIREWALL

Must be made of aluminium or steel.

FA 7.5 WINDSHIELD/ WINDOWS.

Windshield mandatory on full bodied cars, windows optional. Side windows if fitted must each have an opening 6 inches in diameter adjacent to the driver. Side windows on full bodied cars must be 'clear', tints prohibited.

ELECTRICAL: FA 8

ELECTRONIC POLICY FOR ALL CATEGORIES –

Electronic driving devices are strictly prohibited for all categories. Items that constitute electronic driving devices include, but are not limited to, throttle stops, delay boxes, crossover boxes, rpm or timer shifters and rpm activated switches. All such devices must be removed from the car before passing tech inspection. All driving functions must be accomplished by the driver, not by electronics. All on track tuning of fuel, clutch, transmission, and ignition systems must be a direct function of the driver and electronics may in no way affect any of the stated systems. No microprocessor, feedback controlled ignition systems allowed. Digital ignition systems and electronic ignition advance/retard boxes are prohibited. Rev-limiters are allowed, but no "two-step" control is permitted. No electronic fuel injection systems allowed. No RPM chip boxes allowed. RPM activated shift light(s) permitted. Data Recorders are permitted subject to the provisions of GSR 92. Digital MSD's prohibited.

SUPPORT GROUP: FA 9.

FA 9.1 FIRE EXTINGUISHER SYSTEM.

20 lbs!(9.1 Kg) SFI 17.1 Mandatory. Fire extinguishing system required to be of an accepted medium. System to be split so as to discharge both into the engine compartment and into the driver's compartment by means atomising nozzles. System to be installed following manufactures recommendations.

Fire bottle activation cables to be protected (ie installed inside frame rails) where cables pass engine/bellhousing area. Fire bottle must be mechanically operated. All Cars are required to have a SFI 17.1 certified system. Actuation handles such as 'plastic' or any other material likely to melt in the event of a fire are prohibited.

FA 9.2 TOW VEHICLES.

Permitted.

FA 9.3 WARM UPS.

See GSR 9:4

FA 9.4 DRIVER RESTRAINT.

All cars must be equipped with an SFI Spec 16.1 driver restraint system with fire resistant covering, including an anti-submarine belt (crutch strap).

Fire suit, overboots & gloves to be to SFI spec 3.2A20 for All Cars. Helmet must be of a specification suitable for the fuel type and application used. Arm restraints and neck collar to SFI Spec 3.3 are required Commercially available head and neck restraint system can be used.

FA 9.5 APPEARANCE.

All participating cars should be presentable in appearance at all times, vehicles not meeting this requirement may be excluded from running. The same consideration should be given to the participant crew who should be fully attired at all times when in the staging, start line or competition areas of the race track.

Apart from the safety aspects, which are mandatory for MSA sanctioned events and tracks, a prime function of the Regulations is to contain the costs of running in the Class, so as to ensure continuity, year on year.

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

TMFC or TMFC preceded by 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 or TMD preceded by 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, preceded by car number.

For Starting numbers: **See GSR: 7.3**

Reserved for 2-door coupes or 2-door sedan

PRO MODIFIED

For this class the current FIA Pro Modified Car rules in FIA Yearbook with its changes in the monthly FIA Bulletin applies all the time.

DESIGNATION

PW, preceded by car number.

For Starting numbers: **See GSR: 7.3**

Supercharged, methanol-burning or nitrous-oxide-injected, gasoline-burning full-bodied door vehicles. All entries must be self-starting with onboard starters.

FUNNY CAR

For this class the current FIA Funny Car rules in FIA Yearbook
its changes in the monthly FIA Bulletin applies all the time.

DESIGNATION

FC, preceded by car number.

For Starting numbers: **See GSR: 7.3**

Reserved for Nitromethane burning Funny Cars built specifically for drag racing competition.

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, preceded by 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.**