



5-15-15

2015 GRAND AMERICAN MODIFIED SPECIFICATION CAR RULES

1.0 BODIES

- 1.1 1970 or newer American passenger car only. Tar racing type bodies with windows are allowed.
- 1.2 Firewall is mandatory. Minimum 0.125-inch aluminum, or 16 gauge (.0625) steel, complete floor required.
- 1.3 Fiberglass or metal duplicates of body parts are permitted. Body parts may be constructed of steel, aluminum, or fiberglass, and should be recognizable as factory production vehicle. No Carbon Fiber or plastic body parts allowed.
- 1.4 All cars in competition must be completely painted. No reflective doors or quarter panels allowed. Body must be the same width, front to rear, and parallel to the frame.
- 1.5 **Wickers** (air-flow): 1" tall on the nose and roof only. Roof Rake: 4 ½" max, highest point to 2" back of front windshield. Must be a full size roof. No wings. Rear Spoiler is allowed maximum 5" tall x 66" in length. Panels must closely resemble examples shown on body diagram and be the same on both sides of car. Reinforcing lips on rear of sail panels must be 180 degree bends.
- 1.6 Engine compartment will remain open, no side panels; hood sides may have maximum four-inch drop and must be enclosed at rear of hood; maximum hood scoop height 6" inches. Passenger side of body must be no further forward than rear of block. Rear of bodies to be solid panel at least eight inches high. No panel in front of right door to engine compartment. No inner panels.
- 1.7 Firewall must be enclosed from driver. All openings must be sealed.
- 1.8 Rear view mirror and side view mirrors are allowed. Must be mounted inside car.
- 1.9 **Body specifications are attached under Section 1.9 A**

2.0 FRAMES/CHASSIS

- 2.1 Ground clearance is 3" inch minimum, of all parts of car, including chassis and body, except tires.
- 2.2 Factory production complete full 1970 or newer parallel American passenger car frames only. Frames may be cut in rear only at point not further than 36 inches from center of rear end housing. No front clips or tube type allowed. Maximum 2" inch wide by 4" inch tall frame stiffener may be welded directly to outside of frame rail. No uni-body allowed. Front stub must have stock side rails, same make as stub.
- 2.3 Frames may not be widened or narrowed and must be able to support roll cage on both sides. Must be full and complete both sides. Front cross member must remain full and intact. The center of the cross member may be notched and boxed for radiator and/or steering clearance only.
- 2.4 The center cross member may be cut for ground clearance only.

3.0 WEIGHT

3.1 Cars with:

Steel head motors: a total of 2500 lbs. minimum, with driver and gear.

Aluminum head motors:

OPTION 1

A total of 2500 lbs. minimum, with driver and gear in driver seat, 50 lbs. of the 2500 lbs. must be mounted in front of the flywheel.

OPTION 2

A total 2600 lbs. minimum weight, with driver and gear in the driver seat.

3.2 **Left Side** weight shall be no more than 58% maximum of the total weight.

3.3 All cars must weigh prior to the race with driver and helmet – all safety equipment in lap and hands on steering wheel.

3.4 **Weights** are not allowed in driver's compartment or outside of the body or hood area.

3.5 Any weights added to other areas of vehicles must be securely mounted with at least two 1/2" inch bolts, painted white and have the car number on it.

3.6 No titanium, magnesium or carbon fiber products, parts or components allowed.

3.7 No gun-drilled, tubular or hollow bolts or studs.

4.0 WHEELBASE

4.1 Wheelbase 108 inch minimum, both sides.

5.0 TRACK WIDTH

5.1 Maximum 81" inch width front and rear from outside to outside of tire.

Front tire width will be measured at the top of the tire sidewall with driver in car.

6.0 FRONT SUSPENSION

6.1 Front suspension must be in OEM stock location, and must be replaceable by stock parts.

6.2 Tie rod ends and adjustment sleeve may be replaced by a minimum 0.625-inch rod end and steel tube. Heim joints allowed.

6.3 Weight jack must be in the center line of spring.

6.4 Stock passenger car spindles only. No fabricated spindles. Spindles can be ground for brake caliper clearance only. No aluminum spindles.

6.5 Bottom A-frames cannot be altered or moved. A shock mount can be welded on A-frame. After market ball joints are allowed. No offset or bearing type lower control arm bushings.

6.6 Tube-type upper A-frames allowed and can be moved.

6.7 Front sway bar allowed. Aluminum attaching components are allowed.

6.8 Splined sway bars are allowed.

6.9 After market steel front hubs are allowed.

7.0 REAR SUSPENSION

7.1 No independent rear suspension. All components must be steel. No covers allowed.

7.2 All trailing arms/link bars must be steel tubing.

7.3 Rear of frame may be altered to accept leaf or coil springs. Steel coil-over eliminators.

7.4 A minimum 19-inch long pan-hard bar, measured center to center.

7.5 No cambered rear end housings.

7.6 One mechanical traction bar is allowed. Rubber bumpers allowed.

8.0 STEERING

- 8.1 Steering box must be steel approved OEM and must remain within original bolt pattern for type of frame used. May mount with new mounting holes as long as one hole falls within the OEM bolt pattern. The others holes may be outside the OEM pattern.
- 8.2 No rack & pinion allowed. Steel steering shafts and knuckles only.
- 8.3 In-cockpit steering may be modified to suit driver's taste, but must be kept on left side of cockpit.
- 8.4 No center steering allowed.
- 8.5 Steering columns must be collapsible U-joints are acceptable.
- 8.6 Howe type center links are allowed.

9.0 SHOCKS:

- 9.1 One steel, non-adjustable, unaltered shock per wheel is allowed.
- 9.2 No threaded body shocks, air shocks, air bags or remote reservoir shocks are allowed.
- 9.3 Schrader valves are allowed. Schrader valves may be removed and plugged.
- 9.4 Shocks cannot be mounted in center of spring.
- 9.5 The body of the shock must be the same diameter top to bottom. Aluminum cap are allowed.
- 9.6 Shocks kits are allowed.
- 9.7 Bump stops are allowed.

10.0 SPRINGS

- 10.1 One steel, non-progressive coil spring per wheel is allowed.
- 10.2 Coil springs must be a minimum of 4.5" inches in O.D.
- 10.3 One steel leaf spring per wheel and or non progressive allowed on rear.
- 10.4 No torsion bars or air bags.

11.0 COCKPIT ADJUSTMENTS

- 11.1 No devices allowed that would enable driver adjustment or alter wheelbase or for weight jacking while car is in competition.

12.0. ENGINES

- 12.1 Maximum C.I. 427
- 12.2 No aluminum blocks or oil pans.
- 12.3 No magnetos.
- 12.4 Any American make engine may be used as long as rear of engine, bell -housing flange, is mounted a minimum of 72 inches forward from the center line of rear axle.
- 12.5 Engine offset must be kept within two inches of centerline of front cross member with the engine level.
- 12.6 Crankshaft minimum height is 10 1/2" inch from ground to front center of crankshaft.
- 12.7 All engines used in competition must be able to be used in conventional passenger car without alterations. Motor mounts cannot be removed or altered. Castings and fittings must not be changed. No machine work on outside engine.
- 12.8. 'Wet' oiling system only. Oil coolers must not protrude above interior. Accumulators cannot be mounted between driver and left-side door. External one stage oil pump allowed.

- 12.9 Cooling system may be modified. Any overflow tubes must be directed to the ground, between frame rails.
- 12.10 Radiators to be mounted in front of engine only.
- 12.11 Conventional air cleaner housings only. No top flow air cleaner housings allowed.
- 12.12 K&N Performance Air Filters are allowed.

13.0 ENGINE EXHAUST SYSTEM

- 13.1 Mufflers are required
- 13.2 Exhaust system must be mounted in such a way as to direct spent gasses away from cockpit of vehicle and away from areas of possible fuel spillage.
- 13.3 Must have 2 mufflers per car, one per header.
- 13.4 Maximum of 92 dbs at 100 feet.
- 13.5 Mufflers must be welded or bolted. Clamped on mufflers will not be allowed.

14.0 TRANSMISSION

- 14.1 Transmission must have at least one forward gear and one reverse, plus a neutral position. With engine running and car in still position, must be able to engage car in gear and move forward, then backward. OEM production type or Series approved only.
- 14.2 Aftermarket transmissions allowed two-speed, three-speed, four-speed and automatic. No five speed transmissions.
- 14.3 In and out boxes, or quick change devices are not allowed.
- 14.4 All belt drive pumps must be mounted on front of engine.
- 14.5 Flex-plates must be full, steel, unaltered OEM, or OEM replacement. Flywheel/flex-plate must bolt to engine between clutch assembly and crankshaft and all driveline components within bell housing must rotate while car is in any gear.
Transmission must be one of the following designs:
- 14.6 **OEM Manual:** Must have a standard OEM case and working disc-type clutch or approved cone or disc-type coupler inside an explosion-proof steel or aluminum bell-housing.
- 14.7 A reverse mounted starter is allowed.
- 14.8 One flywheel only, minimum 8.5" inch diameter.
- 14.9 Clutch assembly must be steel.
- 14.10 Bell-housing can have only a hole for throw-out bearing lever. Or hose must be 270 degrees around top of clutch and fly-wheel area.
- 14.11 Starter must directly engage flywheel.
- 14.12 Stock OEM flywheel with stock bell-housing must have scatter shield.
- 14.13 **Automatic:** Must remain in OEM or OEM replacement case, with a functioning OEM appearing pump.
- 14.14 Aftermarket explosion-proof aluminum bell-housing is allowed.
- 14.15 Original OEM bell-housing must have approved scatter-shield constructed of minimum 125" inch by 3"-inch steel, minimum of 270 degrees around flex-plate.
- 14.16 **Aftermarket Manual:** Must be Series approved, aluminum case, with internal clutch.
- 14.17 Must bolt to explosion-proof steel bell-housing, and use full, steel, unaltered OEM or OEM replacement flex-plate with starter mounted in OEM location.
- 14.18 No coatings or paint allowed on transmission case.

15.0. DRIVE SHAFT

- 15.1 Minimum 2" inch O.D. steel drive shaft only.
- 15.2 Must be painted white with car number on it.
- 15.3 Steel slip-yokes only.
- 15.4 A 360-degree drive shaft loop of 360 degree is required and must be constructed of at least .25 inch by 2" inch steel, or 1" inch tubing, mounted 6" inches back from front U-joint.

16.0 REAR END

- 16.1 Any approved OEM passenger car/truck rear end may be used.
- 16.2 No aluminum allowed, except lowering blocks, axle cap, and drive flange.
A one-inch inspection hole in center section is recommended.
- 16.3 Full steel spool, steel mini spool or welded rear ends only.
- 16.4 No open or unlocked rear ends, steel axles only.
- 16.5 Quick change devices allowed.
- 16.7 No cambered rear ends, one piece drive flange only.
- 16.8 **No electronic or mechanical traction control devices allowed.**

17.0 BRAKES

- 17.1 Must have a working caliper and rotor on each wheel and must lock up all four wheels.
- 17.2 Brake shut-off or pressure sensitive devices allowed.
- 17.3 One proportioning device allowed, front to rear only.
- 17.4 Brake lines must be outside frame rails and visible.
- 17.5 Vented rotors only, no scalloped rotors. Rotors cannot be lightened. Rotors may be re-drilled for different bolt pattern or larger studs.
- 17.6 Calipers must be steel, approved OEM calipers, and they cannot be lightened.

18.0 TIRES

- 18.1 **All tires must be purchased from our series at the track only.**
- 18.2. **The approved tire is Hoosier 700.**
- 18.3 **No soaking or altering the compound of the tire in any way.**
- 18.4 **Tires used to start the race must be the same tires you qualify on.**

19.0 WHEELS

- 19.1 No wide-five wheel adapters allowed. Aluminum or steel spacers allowed.
- 19.2 Wheel must be a Series approved wheel.
- 19.3 Must be a bead lock wheel. External, steel bead lock only and it cannot make the wheel any narrower than 8" inches and no wider than 8.75" inches as measured at the outside of wheel bead.
- 19.4 Must use only steel bolts.
- 19.5 Rim-mounted bleeder valves are allowed.

20.0 ELECTRICAL SYSTEM

- 20.1 One 12-volt battery only, must be securely mounted and shielded.
- 20.2 All vehicles must have the capability of starting without being pushed or pulled. All cars must join lineup on demand, unaided..

21.0 IGNITION

- 21.1 One 12-volt non-adjustable ignition box and coil allowed and must be out of driver's reach, and in a location that tech can get to. No additional ignition accessories allowed.
- 21.2 The only change that can be made with ignition box is rev-limiter setting and only one high-end setting is allowed. This setting can be changed through one chip, or an internal setting inside the box.
- 21.3 LQ4 or LQ9 Engine may have additional coils.
- 21.4 A **Master Kill** switch required within easy reach of driver **clearly marked 'OFF and ON'**, mounted in a center location that the driver and safety crew can get to it from both sides of the car.

22.0 FUEL SYSTEM

- 22.1 Racing fuel cell are required and must be mounted by at least two solid steel straps, 2" inches wide around cell.
- 22.2 Fuel cells must be enclosed in steel container and must be mounted securely behind rear axle and between the rear tires, no lower than 9 1/2" inches off the ground, protected by roll-cage tubing.
- 22.3 Protective tubing must cover the rear and extend past both sides of fuel cell. Fuel cells must be protected from bumper down to bottom of cell.
- 22.4 Fuel cell must be a minimum of 4" inches ahead of rear bumper and no part of fuel cell shall be no lower than protective tubing.
- 22.5 Fuel cell vents, including cap vent, must have check valves, and **bladders are highly recommended**.
- 22.6 Fuel cells are limited to 32-gallon maximum capacity.
- 22.7 Fuel pick-up must not be underneath fuel cell.
- 22.8 A limit of one standard fuel filter is allowed between the fuel cell and carburetor.

23.0 CARBURETOR

- 23.1 One 2- or one 4-barrel carburetor allowed; must be naturally aspirated.
- 23.2 NO fuel injection or electric fuel pumps allowed.
- 23.3 Two (2) carburetor return springs are mandatory and working at all times.

24. FUEL

- 24.1 SUNOCO Fuel - 110 octane or E85 Methanol may be used and must be purchased From the series approved vender.
- 24.2 We will pull samples from both our vendor and 2 or 3 race teams.
- 24.3 Nitrous Oxide, or performance-enhancing fuel additives of any kind are not allowed.

25.0 ROLL CAGES

- 25.1 Must consist of continuous hoops a minimum 1.666-inch O.D., with a wall thickness of at minimum 0.095-inch. Low carbon, mild steel tubing is recommended and must be frame-mounted in at least six places. No brazing or soldering allowed.
- 25.2 Must consist of a configuration of front and rear hoops connected by tubing on the sides or side hoops. Driver's head must not protrude outside cage with helmet on and strapped in driver's seat. Must have minimum of one cross bar in top halo of roll cage. Roll cage must be securely supported and braced.
- 25.3 Protection of feet area is mandatory. Bar across back of engine with vertical bars and rub rails, or similar protection.

- 25.4 No brace bars forward of cage may be higher than stock hood height.
- 25.5 Main cage may no be further forward than engine plate.
- 25.6 A minimum of three driver side door bars, at least 1.5" inch O.D., must be parallel with the ground as possible and located perpendicular to the driver so as to provide maximum protection for driver, but without causing undue difficulty in getting into or out of vehicle.
- 25.7 The side bars must be welded to the front and rear of the roll cage members. Must have at least one (1) cross door bar, minimum 1.25" inch O.D., on passenger side of car, either horizontal or angled.
- 25.8 Steel door plates, 18 gauge or 050" inch minimum thickness metal, must be securely welded to outside of door bars on driver's side. Plate must cover the area from the top door bar to the bottom door bar and from the rear down post to 5" inches in front of the seat. Must be visible for inspection.

26.0. SAFETY EQUIPMENT

- 26.1 **Helmets** are required and must be **Snell SA2005**, or meets **SFI specification 31.1**
- 26.2. **Helmet** must be worn at all times car is on the track and must accompany vehicle at time of inspection.
- 26.3 **A fire resistant suite and that meets SFI specification 3.2A/5** is required that at all times, and must effectively covers the entire body. It is also highly recommended that each driver wear fire resistant underwear, fire resistant shoes and a fire resistant head sock.
- 26.4 **Gloves required at all times and must be fire resistant, and meet SFI 3.3/5** specification and fire resistant shoes that meet SFI 3.3 specification are required.
- 26.5 **All drivers are to use an approved head and neck restraint system which meets SFI 38.1 specification. Any driver removing head and neck restraint system on the track will be black flagged.**
- 26.6 Roll bar padding required in driver compartment. Fire retardant padding is recommended.
- 26.7 A window net is required and must be a minimum 16" x 20" driver-side window and made of 1/2 ribbon or larger. No string type nets allowed. Window net must be mounted so latch is at top front of window.
- 26.8 Five point safety belts, sub belt, shoulder harness required. The shoulder harness must be mounted securely to the roll cage. Belts and harness must have a three (3) year maximum dating.
- 26.9 A racing approved aluminum high-back seats only, with head restraints, must be bolted in and mounted inside the frame rail and ahead of the rear tire. Bottom of seat can be no lower than the bottom of the frame rail.
- 26.10 **FIRE EXTINGUISHER** A current test date, 5 pound minimum fire extinguisher is required. **A fire suppression system with 3 nozzles is highly recommended.**
- 26.11 **All cars are required to have in their pit area a minimum of one 5 pound, DuPont FE3 equivalent dry chemical fire extinguisher at all times. This is to be visible to tech officials and all crewmembers. All crew members must be made aware of its location and knowledgeable in the use of the fire extinguisher.**

27. BUMPERS

- 27.1 Bumpers are required for both front and rear. The center of the front and rear bumpers must be 16" inches minimum and 20" maximum height from ground.
- 27.2 Bumpers must be made of steel and are required at all times. Must be securely mounted with minimum 3/8" inch (.375) bolts. Must be made of minimum 1 1/4" inch O tubing, with a minimum wall thickness of .065" for the front bumper and .095" wall thickness for the rear bumper, and must be able to support car if lifted by wrecker. Two-bar front bumpers must be mounted frame end-to-frame end, no wider than the width of material outside frame horns, with the bottom loop parallel to the ground. Top bar must be directly above bottom bar, minimum 6.5" inches apart, measured center to center at front of bumper so bumper is perpendicular to ground.
- 27.3 Rear bumper, steel nerf bars and bodies must not extend beyond width of tires, and must not contain any sharp edges. Rear bumper can not be more than 2" inches wider than body on each side.
- 27.4 **REAR BUMPER** only may be made of aluminum I beam. Must be 1/4 " inch thick minimum materiel.

28.0 NERF BARS

- 28.1 All cars must be equipped with approved side rail bars and scrub rails constructed of .083" inch minimum magnetic steel seamless tubing with a minimum O.D. of 1.1/4" inch. Only one (1) side rail bar per side will be permitted and it must be full length from front to rear with minimum tire clearance. Side rail bars must be center lined with the front and rear axles. Only two (2) intermediate supports per bar will be permitted. Side rail bars and scrub rails must be fastened to the frame. Side rail bars and scrub rails must not extend past outside edge of the rear tires and taper slightly toward the front tires. Rear quarter panel side rail bars, right side will be no wider than 4" inches to the outside of the side rail. Left side will be no wider than the outside of the left rear tire.

29.0 WINDOWS

- 29.1 Stock appearing front windshield and rear window support unit, painted roll bars not acceptable substitute. May utilize a full-windshield, with no wings, mounted to the roll cage. Must have a minimum of 3 windshield bars in front of driver. Cowl panel in front of driver can be no wider than cockpit and no farther back than the steering wheel.
- 29.2 Driver and passenger side windows must have at least 12-inch opening, measured at center of window, between the lowest point at the top of window, whether the roof or roll cage, and the highest point at the bottom of window, whether the interior or body.

30.0 APPEARANCE AND IDENTIFICATION

- 30.1 All cars must be numbered with large legible numbers on both sides, on top and rear panel. Numbers on sides and top of car must be in contrasting color from body, and at least 4" inches thick and at least 20" inches high.
- 30.2 No holographic or reflective numbers allowed.
- 30.3 Sponsors' names must not interfere with car numbers and must be neatly lettered.

31.0 COMMUNICATION

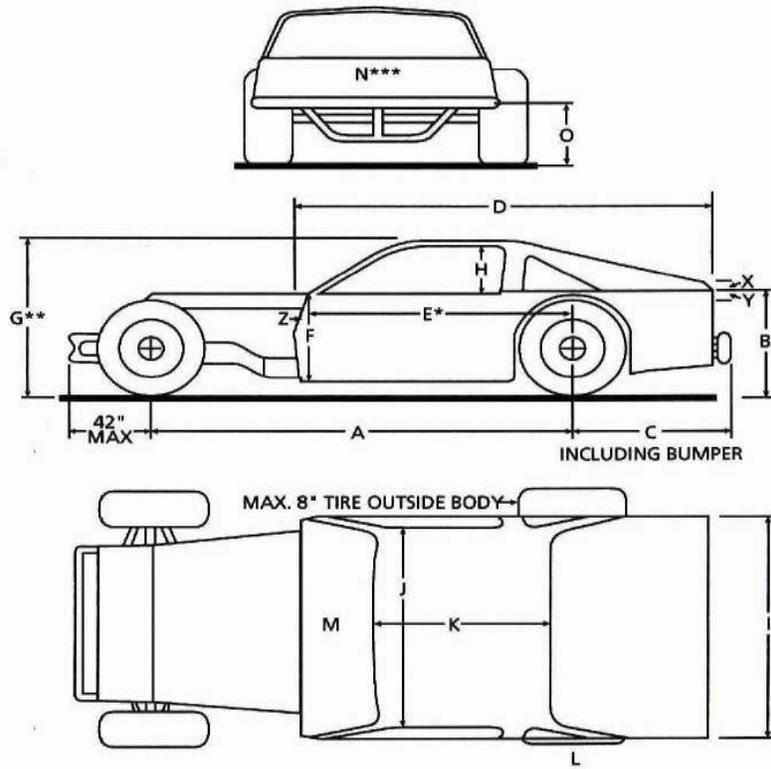
- 31.1 Radios are required.
- 31.2 The use of a two-way radio for communication with a spotter is mandatory.

32.0 ELECTRONICS

- 32.1 Car and drivers will not be permitted to carry onboard computers, recording devices, processors, micro controllers, electronic memory chips, and traction control devices, devices. No remote recall tachometers, or any devices capable of storing or transmitting information except tachometers.**
- 32.2 No digital gauges, timing retard controls or oxygen sensors allowed.
- 32.3 Cameras must have approval** with the series prior to being used onboard in any event.

1.9 BODY SPECIFICATIONS

- 1.9 A** 108" minimum both sides
- 1.9 B.** 38" max., 28" min.
- 1.9 C.** 45" max. , 34" min.
- 1.9 D.** 120" max., 106" min.
- 1.9 E.** 72" or pass back of the block
- 1.9 F.** 27" max., 22" min.
- 1.9 G.** 54" max., 42" min. with roof rake of, 4 ½" max at the highest point, 2" back of the front windshield.
- 1.9 H.** 18" max., 12"min. vertical opening side windows.
- 1.9 I.** 66" max., 53" min.
- 1.9 J.** 50" max., 44" min.
- 1.9 K.** 56" max., 41"min.
- 1.9 L.** Left rear tire must be partially outside the body and nerf bar and visible from front, rear, and top.
- 1.9 M.** Drivers compartment must be totally sealed from the engine and race track.
- 1.9 N.** 8" minimum, 10' maximum height. Must be mounted at 90 degree angel, + or – 10 degrees and must be solid and securely attached to the quarter panels.
- 1.9 O** 20" max., 16" min., from ground to center of bumper.
- 1.9 X.** Must have gradual slope from roof to this point.
- 1.9 Y.** 4" maximum interior slope front to rear.



PMG
 P O BOX 711
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as of 5-15-15

