



2021

STREET STOCK RULES

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2019 Riverhead Raceway

Street Stock Rules

ELIGIBLE CARS

The Street Stock division is open to any American made normally aspirated sedan built from 1960 through 2016, with a minimum wheelbase of 108". Excluded are trucks, convertibles, four wheel drives, T-top cars, mid-engine, aluminum bodied, and special production sports cars. No superchargers, turbochargers or hybrids allowed. All cars are subject to approval by track officials.

Any car deemed to be outside the intentions of the division will be disallowed at the discretion of the track officials. If you have any question as to the eligibility of your car, please ask officials to approve it before you waste valuable time and materials constructing a car which may be disallowed.

Any car deemed not structurally sound (i.e. excessive rust of the frame or unibody, etc.) will be ineligible to compete. The decision of Track Officials and raceway management will be FINAL.

Stock means for the Year and Make of the car being used.

PERSONAL EQUIPMENT

1. All drivers must have a full face Snell 2010 rated or better helmet. In good condition. No M rated helmets.
2. All drivers must have a Firesuit SFI rated 3.2A-1 or better.
3. All drivers must have racing Gloves and Shoes SFI rated 3.2A-1 or SFI-1 or better.
4. Neck brace or Nascar approved HANS type device Recommended.
5. AMB 260x, MyLaps Flex or MyLaps X2 transponder mounted a minimum of 18" behind the rear axle on the passengers side.
6. Must have Securely mounted fire extinguisher mounted within the driver's reach.
7. All Drivers MUST monitor the NASCAR frequency (461.200) at all times but, two-way communication in any form is Prohibited. Only a Raceciever or Scanner with the NASCAR Frequency locked will be permitted, this INCLUDES all practice, qualifying and features

ROLL CAGE

1. Roll Cage Required, 6 Point Maximum. Front bars optional. No offsetting of cages.
2. 1 ¾" X .095" round steel tubing.
 - a. Unibody - Roll cage must be attached to unibody with no less than 1/8 inch steel plate. Plates must be a minimum of 6 inches x 6 inches.
 - b. Full Frame – Roll cage must be attached to the top of the chassis on both sides.
3. All cars are required to have a rear vertical hoop behind and above the drivers' head, connected to the left and right front roll bar legs by a roof hoop. A cross bar must connect the left and right of the rear vertical hoop at seat height and a second bar across the floor pan as low as possible.
- 4 The front roll bar legs must follow the contour of the windshield post and cowl. An additional bar must be installed at dashboard level, extended from the left front roll bar leg to the right front roll bar leg.
5. A minimum of (4) door bars on the left side and (3) door bars on the right side must be used. Driver's side door bars must be bent to extend into the door panels. Plating of driver side door bars mandatory with a minimum of .090 thick plating.
6. There must be a minimum of 1 ½" .083 thickness tube welded either diagonally or perpendicular between the main hoop and the halo (Newman bar)
7. There must be a minimum of 1 ½" .083 thickness tube welded perpendicular between the halo and the dash bar (Earnhardt bar).
8. Brain Bar Required and must be padded.
9. Rear downbars are required and may NOT go past the rear axle.
10. Two bars (1 ¾" X .095) connected to main cage front down bars through the firewall connected to the frame rails behind the upper control arms will be permitted but are not required. Two additional bars (1 ¾" X .095) will be permitted to extend from the main cage to the frame rails between the radiator support and the control arms. NO FULL HOOPS. These are the only bars allowed forward of the firewall. No additional reinforcements in front of the radiator support.
11. Quick release Nascar approved, SFI 16.1 minimum, 5-point harness. All belts and harnesses must be securely fastened to the cage (harness must be attached below shoulder level). All belts must be un-frayed and in good appearance. (date within 5 years of mfg.)
12. High Backed Aluminum Racing seat mandatory. Bolted to a steel frame, and connected to the roll cage.
 - a. Must use 6 3/8" grade 8 bolts with 2" washers.
 - b. 1 bolt located in each corner of the seat 2" to 3" from the outer edge.

BODY AND EXTERIOR

1. Stock Bumpers or front bumper mount to be constructed with (1) 1¾ dia tube extending from each frame rail to support (1) 1¾ round tube bumper. Bumper tube must fit in the bumper cover. NO additional support from bumper/bumper supports to frame permitted! no sharp edges on bumper ends. No sharp edges on the exterior of the vehicle.
2. The floors and firewall must remain Factory stock in driver's compartment. Floor pans may be replaced if rotted with OEM original aftermarket pieces Or magnetic steel sheet metal minimum of 20 gauge formed to the original Contour of the existing floor.
3. Rear frame rails may be replaced from bumper mounts to rear kick up, maximum of 34"
4. No gutting of stock body components except roof, hood, trunk lid, and doors.
5. All doors must be welded or bolted shut. Aftermarket bodies may be riveted.
6. Street Stock style aftermarket body is the only style permitted. Steel parts only. No composite, plastic or any other non-metallic materials to be used except for the front and rear bumper covers.
7. All glass must be removed except windshield. Windshield may be replaced with reinforced Lexan (3/16 thick minimum). A minimum of 2 straps of 1/8" x 1" steel must be installed inside and outside of the windshield for reinforcement of the Lexan. Reinforced Lexan rear window allowed. No Door windows allowed. C-Pillar Lexan allowed.
8. Pre-Registered Number is to be displayed on both doors and roof, at least 3" thick and 18" tall, additionally the vehicle number must be on the upper right corner of the windshield for easy visibility by on track officials. Car Base Color and Number Color must be of high contrast to maximize readability of the number for scoring purposes.
9. Sunroofs must be covered by one sheet of 18-gauge (minimum) steel and riveted or welded.
10. Headlights, Tail lights, Chrome trim and all other trim must be removed from the outside of the vehicle
11. If anything other than Hood pins to secure and fasten the hood is used a 10-inch hole must be cut above the air cleaner. No flaps. Trunk must be secured with pins or bolts and must be openable for inspection.
12. Rub Rails will be allowed but only between the wheel wells 1" x 2" Rectangular or 1 3/8 Steel tubing. Mounted tightly against body between the hub and top of the tire. No Sharp Edges.
13. One exposed bar, both front and rear, must mount between the frame rails above the bumper for towing. No chains permitted. Bar must not protrude past the bumper and be no

INTERIOR AND DRIVERS COMPARTMENT

1. No holes in driver's compartment, all holes must be covered by sheet metal. No sharp edges.

INTERIOR AND DRIVERS COMPARTMENT (CONTINUED)

2. All interior trim must be removed. Dashboard may remain and may be covered by sheet metal. All air bags must be removed. No Sharp Edges anywhere in drivers compartment.
3. Removal of lock plate from OEM column Mandatory.
4. Metal to metal, Quick Release steering hubs are mandatory. After market racing steering wheels allowed. The center of all steering wheels must be padded.

ENGINE OPTIONS

OPTION # 1: 602 CRATE

- A1. GM 602 Crate Engine will be used with a Holley 650cfm, Part # 0-82651 carburetor.
- A2. It is mandatory that ALL crate engines be purchased and sealed by Riverhead Raceway.
- A3. All engines must remain as delivered by General Motors including: harmonic balancer, distributor, valve covers, springs, rocker arms, seals, etc.
- A4. It is strictly forbidden to tamper with the factory and/or RMC seals in order to gain access to the internal workings of the engine. Anyone caught tampering with the factory and/or RMC seals shall immediately have their engine confiscated by Riverhead Raceway, fined \$1,000 and be stripped of all points accumulated up until the time of infraction.
- A5. These crate engines are considered to be non-rebuildable and non-repairable. In the event that an engine sustains internal damage or wear that requires removal of one or more seals, the engine is then said to have served its life and must be discarded and a new one obtained!
- A6. Any sale of a crate engine has to take place with a Riverhead Raceway Tech Official present.
- A7. CARBURETOR
 - a. Unaltered Holley 650cfm, Part # 0-82651 is the only legal carburetor!
- A8. BUTTERFLIES :
 - a. Idle holes may be drilled in the butterflies.
 - b. Screw ends may be cut even with the shaft but the screw heads must remain standard.
- A9. CARBURETOR SPACER / GASKET:
 - a. No sandwich type or insulator type gaskets permitted. The maximum gasket thickness shall be .065
- A10. IGNITION SYSTEM:
 - a. Stock ignition systems only that is supplied with the 602 Crate.
 - b. Distributor must remain unaltered.
 - c. Engine must retain stock firing order.
 - d. No traction control permitted.

ENGINE OPTIONS

OPTION # 2:

Chevy Small Block Only, Maximum Cubic Inch – 350 +.060 overbore.

Compression not to exceed 9.0:1 GM Crate motor part number 12499529 allowed.

- B1. Engine Block - 2 or 4 bolt main.
 - a. No grinding, Relieving or Polishing.
 - b. No Coatings – Internal or External.

- B2. Crankshaft
 - a. No offset grinding.
 - b. Stock Stroke of 3.480.
 - c. Cast Iron only. Must weigh no less than 48 lbs.
 - d. Eagle 103503480 or Scat 9-10442 Allowed.

- B3. Connecting Rods
 - a. GM original length 5.700"
 - b. Aftermarket Bolts allowed.
 - c. Press Pins only.
 - d. Eagle SIR 5700 BPLW, or Scat 3-ICR5700 P allowed.

- B4. Pistons
 - a. Cast or Hypereutectic flat top or dish Pistons only. 3 active rings per piston.
 - c. No forged Pistons permitted.
 - d. Piston must have full length skirt.

- B5. Cylinder Head
 - a. Cast Iron, straight plug, open chamber heads OEM Factory GM Heads Only. No vortec or LS Heads, (EngineQuest PN: CH350I are allowed.)
 - b. No Grinding, porting, acid etching, bowl work or flow improvements of any kind.
 - c. Casting numbers must match valve size.
 - d. Maximum intake valve size 1.94".
 - e. Maximum exhaust valve size 1.5".
 - f. Valves must be stock length. and made from Magnetic Steel.
 - g. Single valve spring stock diameter. No conical/beehive design.
 - h. Stock style magnetic steel 7 degree retainers only.
 - i. Aftermarket retainers must weigh at least 20 grams. No tolerance.
 - j. 3/8" diameter studs only, screw in or pinned ok, no guide plates
 - k. Stamped steel rocker arms 1.5 ratio only, no roller tips permitted. Polly locks ok.

- B6. Camshaft
 - a. Maximum lift .450 intake and exhaust – measured at valve.
 - b. Hydraulic flat tappet cam and lifters.
 - c. .842 diameter hydraulic standard lifters only.
 - d. Timing chain only, no belt or gear drive.

- B7. Intake Manifold
 - a. An unaltered Edelbrock 2101 performance manifold permitted.
 - b. MUST have a 3/32 hole drilled in the head each of 2 intake bolts (directly next to each other) on both sides of the intake.

ENGINE OPTIONS (CONTINUED)

B8. Oil Pan

- a. Stock appearing 5 quart capacity max
- b. Trap door allowed
- c. A one inch inspection hole (such as those manufactured by Canton) Must be installed in the oil pan. The plug must be installed in a way as to not impede its use. *mandatory in 2019.*

B9. Carburetor:

- a. Stock Quadrajets or Stock R-4412 Holley two (2) barrel 500 cfm
- b. No ram tubes or ducting allowed. No fuel logs or cooling devices allowed.

Body of Carburetor:

- a. No polishing, grinding, or drilling of holes permitted.

Choke Horn:

- a. Choke horn may be removed.

Boosters:

- a. Boosters may not be changed.
- b. Size and shape of booster must not be altered.
- c. Booster height must remain standard.

Venturi:

- a. Venturi area must not be altered in any way.
- b. Casting ring must remain completely visible and may not be removed.

Base Plate:

- a. Base plate not to be altered in size or shape. No holes drilled in the base plate.

Butterflies:

- a. Stock butterflies must not be thinned or tapered.
- b. Idle holes may be drilled in the butterflies.
- c. Screw ends may be cut even with the shaft but the screw heads must remain standard.

Throttle Shaft:

- a. The throttle shaft must remain standard and must not be thinned, cut, or nicked in any manner.

B10. Carburetor Spacer / Gasket:

- a. No spacer allowed with Quadrajets, Holly 4412 carburetor spacer must be a maximum of one (1) inch thick.
- b. Holly 4412 spacer hole must be cut perpendicular with the base of the carburetor. No taper or bevels.
- c. The maximum gasket thickness shall be .065

B11. Air Cleaner

- a. Open element paper filter air cleaner allowed.
- b. 14" by 3" maximum.
- c. Top and bottom covers must be steel, solid, and not allow air flow through them.
- d. No substacks or any other airflow enhancing devices allowed.

ENGINE OPTIONS (CONTINUED)

B12. Ignition System

- a. Stock HEI Only.
- b. Stock Module
- c. Stock Coil
- d. GM distributor 93440806 is approved for use

The Following Applies to both Engine options:

1. ENGINE OIL:
 - a. Any type of combustion enhancing oils or additives are strictly prohibited.

BATTERY

1. Battery may be relocated to driver's compartment, must be enclosed in a spill proof container and be secure. Container must have a cover!
2. If battery is relocated, it must have a battery disconnect switch mounted in plain view, clearly marked On-Off. The switch lever itself must be painted Bright Orange.
3. Only one standard automotive battery, maximum 12 volt, will be permitted.

EXHAUST

1. Cast iron manifolds required. No Rams horn or Center Dump manifolds allowed.
2. Stock exhaust system or any glass pack muffler.
3. Dual Exhaust allowed. Must exit behind driver.

FUEL SYSTEM

1. Fuel Cell is mandatory.
2. Fuel Cell must be in a minimum of 18 gauge steel case and have foam inside cell.
3. Must have an "X" of not less than 1"x 1" 1/8 wall square tubing underneath cell.
4. Fuel Cell must be secured with (4) one inch x 1/8 inch steel straps. 2 going from front to rear and 2 going left to right. Large washers or 1/8 steel plates on underside and a minimum of 3/8 inch bolts securing the straps.
5. Cell must have flapper/rollover valve on fill and vent.
6. Must have a fuel shut off valve and be clearly marked with the handle inside the car.
7. No fuel line is inside drivers compartment.
8. Fuel cell may not be mounted lower than the frame rails.

RADIATOR

1. Must be in stock location.
2. One transmission cooler is allowed.
3. Cooler lines must be steel with a maximum of 6" flex line
4. Catch cans mandatory.
5. A Non flexible magnetic steel fan with a minimum of 4 blades Mandatory.

REAR END

1. Stock rear ends.
2. No Independent rear suspension.
3. Aftermarket axles allowed.
4. Factory posi or locked rear allowed.
5. Mini spool or steel spool allowed. Spool must use all ring gear bolts and OD cannot be scalloped.

SUSPENSION / BRAKES

1. **Ride height is Minimum of 5"**
2. Suspension and steering parts must be absolutely stock. No modifications allowed. Urethane bushings allowed.
3. Steering and suspension may not be reinforced in any way.
4. Heavy duty stock mount, non-adjustable shocks or struts permitted. Springs must mount in factory mounts.
5. No cutting, heating, altering or modifying of any other suspension parts allowed.
6. Minimum I.D. of springs is 5 inches. Adjustable spring cups permitted.
7. Front spindles must be linked to the frame using approved tether. One end of the cable with the large eye must wrap around the frame and pass through the smaller eye. The large eye of the cable must loop over the upper portion of the spindle.
8. **OEM Brakes only, no disk rear brakes. No Brake Proportioning other than stock. No aftermarket master cylinders. Pedals must remain in stock location. No Spacers or Extension permitted.**

TRANSMISSION

1. Cast Iron Standard Shift transmission (Scatter Shield Required)
 - a. No removal of gears.
 - b. Clutch, Pressure plate, flywheel assembly minimum weight 30 lbs.
 - c. No aluminum flywheels.
 - d. No multi disk clutches.
 - e. 10" minimum diameter clutch.
 - f. Stock clutch linkage only.
 - g. Steel drive shaft only.
2. Automatic Transmission
 - a. No hollow converters.
 - b. No manual valve body.
 - c. 11" minimum diameter converter.
3. 360 degree Drive Shaft loop required, 1 1/2 inch wide 1/4 inch thick minimum..

TIRE RULE

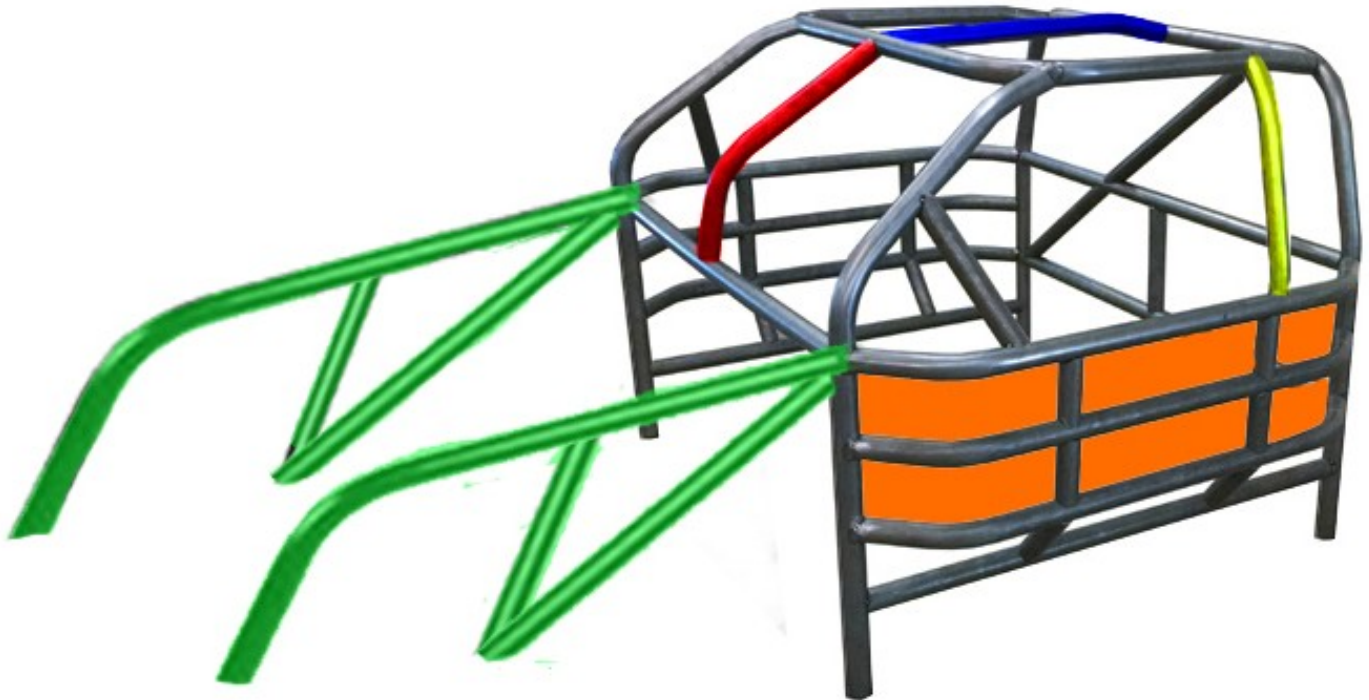
1. Only Riverhead Raceway approved Hoosier tires are allowed.
 - a. Hoosier 790 26.5 on the left side
 - b. Hoosier 790 27.0 on the right side
2. All tires must be scanned by officials prior to use.
3. No wheel weights.
4. Offset must be the same on all 4 corners.
5. No tires protruding out of the wheel wells.
6. Maximum 7" wide wheel.
7. Aftermarket wheels permitted. Steel wheels mandatory, no spacers.

WEIGHT RULES

1. Maximum 53% left side weight with driver.
2. **Minimum total weight with driver is to be no less than 3100 lbs. A time trial/impound race will require 30 lbs additional "before weight" when presenting car for pre tech (3130 lbs Pre Tech Weight)**
3. All lead ballast must be painted white with the car number on it.
4. All ballast must be securely mounted with a minimum of 3/8" grade 8 bolts and a minimum of 2" diameter washers, within the wheelbase of the vehicle.

5. Any car deemed having excessive rear weight will be subject to a weight penalty at the discretion of the tech official

ROLL CAGE REFERENCE



Roll Cage rule #5 on page 2 - **Plating illustration in ORANGE**

Roll Cage rule #6 on page 2 - **Newman Bar illustration in BLUE**

Roll Cage rule #7 on page 2 - **Earnhardt Bar illustration in RED**

Roll Cage rule #8 on page 2 - **Brain Bar illustration in YELLOW**

Roll Cage rule #10 on page 2 - **Front Bars illustration in GREEN**

