



SODA Enduro Class Rules - 6/28/2022

Eligible Vehicles

1. Any three or four-cylinder front wheel drive car with a maximum wheelbase of 107.1" or less with the following exceptions:
2. NO Convertibles, NO Trucks or Minivans, NO Turbo or Supercharged Engines.
3. This is a true "Stock Car" class. We expect a stock engine for that make and model from the throttle body to the exhaust manifold, stock transmission, stock frame, stock steering, stock front & rear firewalls, stock dashboard, stock steering column, stock pedals, stock unaltered differential, no welded or locked differentials.

Preparation of Vehicle

1. Remove all insulation and upholstery from the interior and under the hood
2. Remove all the Airbags.
3. All holes in the floor or firewall must be covered with securely mounted steel.
4. Sunroof opening must be sealed off with securely mounted steel.
5. Exterior mirrors allowed on Black Top ONLY. Interior mirror allowed.
6. Remove all glass except windshield.
 - a. If windshield is removed cars must have a minimum of three (3) 3/8" support braces.
 - b. Lexan or wire mesh 1" or smaller with .035 or larger wire complete windshield opening side to side must be covered.
 - c. All window openings, besides the windshield, will be wide open. No "quarter fillers". It is important to be able to see through the cars ahead.
 - d. Window Nets ARE HIGHLY RECOMMENDED.
7. Seat and Seat Belts
 - a. 5 point racing harness, including crotch belt required.
 - b. Shoulder belts need to be supported at shoulder level lap belt mounts should swivel.
 - c. Racing seats allowed, securely mounted to the roll cage. Secure both the bottom and the back with oversize washers.
 - d. All seats must have a headrest.



8. Battery

- a. If relocated, it must be secured by a minimum 1/8" x 1" steel strap with minimum 3/8" hardware with large head washers.
- b. No matter location, Battery must be secure and the battery must be covered.

9. Gas Tank

- a. Stock tank may remain in place if it is ahead of the rear axle.
- b. If behind the rear axle it must be replaced with a fuel cell or boat tank (8 gallons or less) and mounted in the trunk.
- c. Fuel cell or boat tank must be secured by minimum of four (4) 1/8" x 1" steel straps with minimum 3/8" hardware with large head washers. NO plumbers tape.
- d. If fuel cell is used, trunk firewall must be sealed off.
- e. If fuel line runs through the car, it must be in a sealed conduit.
- f. Cars with fuel leaks will not be allowed to run.

10. Brakes

- a. All cars must have functioning four- wheel brakes.
- b. Cars not appearing to have adequate brakes will be black flagged.

11. Hood and Trunk

- a. Hood may NOT be gutted. Trunks may be gutted since trunks/hatches are not required.
- b. Hood must be on the stock, working hinges
- c. Factory hood latch can be replaced with hood pins or seatbelts.
- d. Engine compartment must be sealed off from the Driver at the back of the hood/base of the windshield cowl.

12. Bumpers

- a. Bumper must be stock.
- b. Bumpers should be chained or strapped to the frame.
- c. Damaged bumpers may be replaced with another car bumper or may be fabricated out of a single tube no larger than 2½" in diameter no thicker than .095. Metal bumpers should be capped to fenders.
- d. NO angle iron, NO channel iron, NO additional bracing, NO trailer hitches.
- e. Inspector has discretion and final say on all "repairs".



13. Doors

- a. Doors must be welded or locked and chained shut.
- b. Three (3) Driver's side door bars are required. See Roll Cage and Bars later in the rules.
- c. Driver door may be gutted if the door bars are installed out to the door skin.
- d. Passenger doors may only be gutted if there are passenger side door bars.
- e. Rub rails allowed IF and only if they are securely fastened, have no sharp edges, have no chance of hooking another car, stick out no more than $\frac{3}{4}$ ".

14. Tires, Wheels and Lug nuts

- a. Stock wheels for make and model of car. Aluminum okay, but no aftermarket or trailer wheels are allowed.
- b. The Right Front, and ONLY the Right front wheel, may be a stock offset racing wheel maximum 6" wide. Currently the Aero 44 is the only legal wheel.
- c. Both front wheels must have oversized lug nuts
- d. Maximum wheel width 6"
- e. Front tires must have exact equal markings for size and profile. Rear tire stagger is allowed, even different rim sizes.
- f. Passenger car tires only No Snow Tires – No recaps, no made for racing "cheater tires".
- g. Stick shift cars Maximum 60 series tires (65, 70 75's okay). Automatic transmission cars may use 55 or 50 series tires.
- h. NO SNOW TIRES!
- i. Maximum section width of any tire is 225.
- j. Tread Wear. All tires must have a UTQG rating of 260 or higher. If there's no treadwear clearly marked you can't run it.

15. Exhaust

- a. NO open exhaust. Every car MUST have a stock muffler or catalytic converter.
- b. Exhaust MUST exit behind the driver.
- c. Exhaust cannot point at the gas tank.
- d. Maximum exhaust size is 2" I.D.
- e. Strap on your exhaust well – you can expect a black flag if it falls off.



Radiator and Protection

- a. Any radiator in the stock location is allowed.
- b. A radiator protection bar constructed of 1" tubing no thicker than 1/8" is allowed. May not tie into strut towers.
- c. A maximum of 6' total of tubing may be used for the radiator protection bar(s), uprights and braces and any bracing.

17. Suspension – Stock spring, struts, shocks.

- a. Stock springs may be altered. No racing springs.
- b. Stacking of bump rubbers allowed on the right rear only.
- c. One (1) rubber spring spacer is legal. It must be a full circle. No more than 2" thick. It is allowed in any corner. This is in addition to the allowed bump stops on the Right Rear Shock ONLY.
- d. If it looks too much like a race car it can be given a penalty based on looks alone without further explanation.

Safety Requirements

1. Snell 2010 (or newer) helmet.
2. Full racing fire suit (either one piece or shirt and pants).
3. Gloves required.
4. Racing shoes or boots required.
5. Neck collar or other style head and neck restraint required – neck collar is minimum.

Roll Cage and Bars

1. Roll Cage

- a. Minimum tubing size is 1½" x .095 thickness.
- b. Single hoop roll bar with a minimum 2 angled down bars must be welded or bolted with sandwich plates (4" x 4" x 1/8") to the car.
- c. Hoop must be the full height and width of the car.
- d. The minimum required 2 Down bars must connect at a point at least 2/3rds of the way up the hoop.
- e. Hoops should be bent in a bender (not kinked) or miter cut and gusseted.

2. Door Bars



a. A minimum of 3 door bars on the driver's side going forward from your main roll bar hoop to a vertical bar (forward post) at

least dashboard height. This bar may be welded on the bottom to a rocker panel plate and to the windshield pillar on the top.

b. If the forward post is not welded solid between the rocker and windshield pillar then it must be connected side to side by a

dashboard bar (factory bar acceptable).

c. The forward post may continue upward and be part of a conventional 4-point roll cage.

3. Rear bars may connect to the rear strut towers. Rear strut towers may be connected side to side.

Not Allowed

1. NO radio communication allowed other than raceceiver communications from SODA.

2. NO cell phones.

3. NO bracing anywhere besides the driver's compartment.

4. NO Great Stuff (or other expandable foam) allowed in fenders, quarters, etc.

5. Drain all antifreeze – WATER ONLY in the radiator. (Except New Year's Day)

6. NO trailer hitches.

7. NO ballast. Lead or other, except for cars specified in #4 under Eligible Vehicles in the first section of the rules.

Additional Criteria

1. Cars must have legible numbers on both doors and roof.

2. Driver's name must be clearly lettered on both sides of the vehicle on the rear-most part of the quarter panel – higher than the

bumper in letters at least 6" high.

3. No obscene, profane or distasteful slogans or markings allowed.

4. Camber is allowable to a maximum of 1 inch measured as the difference from the top of the rim to the bottom of the rim from a

carpenter's square. Cutting/Welding/Slotting is allowed to obtain Camber

5. Raceceivers are Mandatory

6. 16 years of age is the standard minimum age to compete. On a case by case basis and track by track exceptions can be made for experienced drivers.