

# N.S.R.A.

## North State Racing Association

### 2010 Street Stock Rules

*A stock car class that is more technically proficient than the Bomber class, has no passenger, and that can be run competitively at a reasonable cost.*

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#### 1 General

##### 1.1 Glossary

###### 1.1.1 OEM

Original Equipment Manufacturer: Manufactured by the original manufacturer.  
The part may not be modified in any way that affects the performance specifications.

###### 1.1.2 Stock

OEM, or after-market with performance specifications that are comparable to that of the OEM part.  
The part may not be modified in any way that affects the performance specifications.

###### 1.1.3 Technical Discretion

Inspection and assessment according to the spirit and intended purpose of the rules. The spirit, intended purpose, and safety concerns will always override the current wording of the rules.

###### 1.1.4 Abbreviations

**OD** Outer Diameter Tube or hole cross-section diameter measured from the outer edges.

**ID** Outer Diameter Tube or hole cross-section diameter measured from the inner edges.

###### 1.1.5 Measurement Units

A double-quote 2" inches

A single-quote 2' feet

cid cubic inch displacement

A super-script circle 90° angle in degrees

Sound level 90dBA A-weighted decibels

A measure of sound weighted by how it affects the human ear. 0 dBA is barely not hearable in a quiet room, and 140 dBA will cause pain.

1.2 Rule changes from the previous year are highlighted in gray (Spelling, wording, and format changes are not).

1.3 All rules are subject to Technical Discretion. A car that is found to be illegal will have a ticket written and must fix the problem in the time stated. If the problem affects performance, a penalty weight will be assigned in a specified position until the problem is fixed. If the problem is not fixed in the time allotted (tech discretion), additional penalties will be applied. These may include more weight, parts confiscation, or even re-classification as a Street Stock.

1.4 All parts must be OEM unless otherwise specified in these rules.

1.5 Street Stocks are run with a driver and no passenger.

#### 2 Model

2.1 **Year** 1960 to 2010

2.2 **Wheelbase** Minimum of 108". The length of the right and left side will be added then divided by two and the average length must equal no less than 108".

2.3 **Includes** American made.

2.4 **Excludes** Pickups, 4-wheel drive, convertibles, foreign made sports cars.

2.5 Car must be constructed to start and move under its own power.

#### 3 Weight

3.1 **Minimum Total** 3,250 lbs. car and driver.

3.2 **Maximum Left Side** 56%

##### 3.3 Weights

3.3.1 Each 0 – 100 lbs. of weights must be secured to the car with either two (2) ½" bolts or four (4) ⅜" bolts.

3.3.2 Must be painted white and clearly marked with the car number.

#### 4 Chassis

4.1 Frames must be OEM: GM to GM, Ford to Ford, Dodge to Dodge, etc.

4.2 Stock front and rear OEM sub-frames must be used on Unibody cars. Sub-frame connectors OK.

4.3 Unibody cars may use frame connectors.

#### 5 Suspension

5.1 All suspension mounting brackets must be of original configuration, stock components, and in stock location for make and model except as outlined below. Front and rear spring shims OK, but may only be located at top of spring.

5.2 Any spring, 5" diameter minimum, NO COILOVERS

5.3 If lowering blocks are used; they do not have to be equal thickness on both sides. Reversed shackles or multi-hole shackles OK

- 5.4 Any STEEL non adjustable shock mounted in stock position. NO tie rod end rods. NO air shocks. NO COILOVERS.
- 5.5 Front sway bar optional; must be used between sway bar and A-Frame. NO Heim rod ends.
- 5.6 OEM spindles, lower A-frames, and hubs ONLY.
- 5.7 Upper A-frames can be after-market, and the mounts can be after-market and moved.
- 5.8 Rear-end upper and lower trailing arm mounts must be stock but can be moved.
- 5.9 Rear bite bolts only.

## 6 Body

- 6.1 Bodies must look like the car they represent. (GM to GM, Ford to Ford, Dodge to Dodge, etc.) 108" wheel opening centers will be the minimum. Aftermarket nose and tails OK. Body Donuts may be removed. Interior measurements from inside roof to inside floor must be stock. 4" minimum ground clearance of body and /or frame to be measured at the front seam of driver's door.
- 6.2 The entire firewall and floor pan must remain stock, except where specified:
  - 6.2.1 Firewall and floor pan must be stock for the chassis and in stock position, including rocker panels. Chassis may not be altered in width.
- 6.3 Interior gutting allowed, from front to rear bumper, except where specified.
- 6.4 No visible exterior cutting except wheel opening which may be cut for tire clearance-maximum 4". May interchange body parts of the same body style.
  - 6.4.1 Doors, hood and trunk lid must be securely fastened.
  - 6.4.2 Hood and truck must open for inspection.
- 6.5 Stock appearing door panels and front fenders may be fabricated out of steel sheet metal; must remain in stock vertical height dimensions.
- 6.6 Windshield opening must remain stock size. Doors and window openings must remain stock size.
- 6.7 Full hood mandatory. Scoop or cover over any hole in hood OK.
- 6.8 Must have BOTH front and rear stock appearing bumpers. May interchange stock front and rear bumpers. No sharp edges. 2" maximum pipe reinforcement directly behind bumper allowed.
- 6.9 All lights and their socket assemblies must be removed.
- 6.10 Grills that shatter must be removed.
- 6.11 Remove all chrome accent trim.
- 6.12 Front and rear spoilers OK. REAR spoiler maximum 5" blade and no wider than the body. NO WINGS. Deck lid must remain closed and in stock position. No side boards or forward bracing.
- 6.13 Car numbers at least 18" high by 3". Must be on both sides of car and on top also. Numbers must be contrasting paint to body.
- 6.14 Aluminum dash OK.
- 6.15 **Windows** No glass other than windshield. If glass windshield is used, must be secured with 4 brackets of minimum 1/8" x 1/4" steel material. REAR WINDOWS OK; MUST BE LEXAN.

## 7 Roll Cage

- 7.1 Roll cage compulsory. Must be four posts with dash bar and one diagonal and two back braces. Four horizontal door bars driver's side and passenger's side. Doors must be plated with 1/8" thickness of plate. Outside of door bars must be a maximum of 2" from inside of the outside door skin. Top bar must be a maximum of 2" from top of door. Minimum 1 1/2" tubing of .090" thickness. Minimum 1 3/4" of .095" tubing mandatory in main cage. NO galvanized or black iron pipe.
- 7.2 Extra safety bracing OK.
- 7.3 In all unibody cars, roll cage must have minimum 1/4" plate by 6" square under roll bar posts and under floor bolted through the floor pan, or equivalent. Four bolts with washers per plate. Roll cage must be attached to frame rail on full frame cars.
- 7.4 Gussets mandatory on roll cage corners and door bar corners.
- 7.5 Door bar vertical struts mandatory – Two per bar.
- 7.6 No offset, chopped or narrowed cages.
- 7.7 Right and left side of cage to be no narrower than front and rear sub-frames: must be equal on both sides.

## 8 Engine

- 8.1 All engines used in competition must be able to be used in conventional passenger car without alterations. Castings and fittings must not be changed. No machine work on outside of engine or on front or rear of camshaft.
- 8.2 "Wet" systems only. No dry sump systems allowed.
- 8.3 Oil breathers on valley or rocker cover and pan allowed if vented to center or left side. Stock type oiling system only. Pick up location optional. Skid plate recommended. Engine oil cooler not allowed in driver's compartment.
- 8.4 Any distributor. No magnetos.
- 8.5 Stock clutch and pressure plate ONLY. No racing clutches or pressure plates.
- 8.6 Engine may remain in stock position or may be placed back no farther than center of #1 spark plug hole in direct line with upper ball joint center line. No offset to the left to the center of the frame.
- 8.7 Solid motor mounts mandatory.
- 8.8 Any engine to any body.
- 8.9 No aluminum blocks.
- 8.10 Engines 360 cid and smaller to run unrestricted. Engines 361 cid and larger shall run restrictor plate issued to car at start of race day and to be returned at end of race night.
- 8.11 **Heads**
  - 8.11.1 No aluminum heads.
  - 8.11.2 Stock replacement heads OK.

8.11.3 Stock diameter valve springs.

8.11.4 Screw in studs OK. Roller rockers OK. Stud girdles OK. No porting or polishing of any kind.

## 8.12 Manifolds

### 8.12.1 Intake

8.12.1.1 Aluminum manifold OK.

8.12.1.2 No modifications of intake manifold.

8.12.1.3 Maximum spacer height between carburetor and manifold is 2". No spacers above restrictor plate.

### 8.12.2 Exhaust

8.12.2.1 Stock cast iron exhaust manifolds OR "Block Hugger" type Headers OK.

## 8.13 Fuel Delivery

8.13.1 Two barrel carburetor, Holly 4412 only. Subject to tech.

8.13.2 No internal grinding or alteration of carburetor.

8.13.3 Two carburetor return springs, mounted in separate locations required.

## 9 Fuel and Fuel System

9.1 Fuel cell mandatory. Must be in metal car 22 gauge or heavier. Bottom of fuel cell to be no lower than 8". Fuel cells will be securely fastened down with at least four (4) straps of 1" x 3/32" minimum strap material. Must be protected by a minimum of 1 1/2" rear hoop.

9.2 No snap open gas caps. No rubber hose from spout to cell. Fuel cell vent must have a check valve: PVC valve is OK.

9.3 Fuel line must be no lower than the bottom of frame rails. If fuel line passes through driver's compartment, it must be housed in a metal tub.

9.4 No electric fuel pumps.

9.5 Gasoline only for fuel. Racing gas OK.

## 10 Radiator / Cooling System

10.1 Cooling system may be modified.

## 11 Electrical System

1.1 Battery to be securely fastened to vehicle with a minimum of two (2) 3/8" bolts and a minimum of 1" x 1/8" steel straps across the tops. If in driver's compartment, must be completely enclosed and vented.

1.2 Battery disconnect mandatory, and accessible from either side of car.

1.3 Kill switch must be mounted in center so it's accessible from either side window.

1.4 No radios or communications allowed in cars.

1.5 No electronic traction control devices.

### 11.1 Transponders

11.1.1 Must be located 13' ( $\pm 1$ ") from the tip of the front nose of the car with a clear sight of the track surface (sheet metal will degrade the signal). The mount must be  $\pm 1$ " so that the transponder log matches what is seen by the scorekeepers and fans.

11.1.2 To pass technical inspection, the transponder must be in place prior to inspection and must remain in working condition for the rest of the event. **Measure and adjust your transponder mount before every event.**

11.1.3 If the bumper-to-transponder distance changes for any reason (like damage, repair, or modification), either the front nose or the transponder mount must be adjusted to re-establish that distance before every event.

## 12 Steering

12.1 No rack and pinion steering.

## 13 Drive Train

13.1 Any STOCK passenger car transmission. Reverse gear must be workable. Tech approved scatter shield mandatory on manual transmissions. Clutch type transmissions, must be equipped with 270° explosion proof bell housing. If an explosion proof bell housing is not available for your engine, or (if you prefer) you may construct a shield of at least 1/4" by 6" steel covering the clutch area 270° and be securely fastened.

13.2 Automatic transmissions must run stock torque converters. Protection between bell housing area over torque converter and floor pan or firewall must be provided with suitable material.

13.3 Steel drive shafts only.

## 14 Rear End

14.1 Any Stock American factory production rear end. Trailing arms and center connectors must be stock for frame being used.

14.2 Rear ends may be locked using a spool only. NO GOLD TRACKS, DETROIT LOCKERS, NO LIMITED SLIP UNITS OF ANY KIND.

14.3 Rear end must be centered axle flange to centerline of frame.

## 15 Exhaust System

15.1 Exhaust must extend past driver's seat and be securely fastened.

15.2 Any mufflers that meet sound level of 90 dBA at 100'.

15.3 If you lose a muffler, you will be black flagged.

## 16 Wheels

16.1 Steel racing wheels only. Maximum wheel width 8"/

16.2 1" lug nuts and bolt size Optional; Tech discretion.

### **16.3 Brakes**

**16.3.1** All cars must have four (4) wheel brakes in good working order.

**16.3.2** Type of brake system optional.

**16.3.3** Aftermarket pedal assemblies OK.

**16.3.4** No aftermarket disc brakes or calipers.

### **16.4 Tires**

**16.4.1** Legal tires will be Goodyear 2363 27.0 x 8.0x15, A300 or Goodyear 2462 26.5 x 8.0 x 15, A300

**16.4.2** No tire softener or alteration of tires.

### **17 Safety**

**17.1** Five point racing harness, with minimum 3" lap belt, two 3" shoulder harness and crotch strap required. Must pass tech. Must be securely mounted to frame or roll cage. The two shoulder harnesses must be mounted with stress point at shoulder height.

**17.2** Back of seat must be securely fastened to roll cage. Aluminum racing seat MANDATORY. Padded head rest MANDATORY; must be no more than 4" from driver's helmet.

**17.3** Driver must be fully clothed with Nomex or equivalent fire suit designed for auto racing.

**17.4** One (1) fire extinguisher of 2¾ pounds of commercial fire system with a readable gauge; must be mounted inside driver's compartment and operational from driver's seat.

**17.5** No cooling systems, filter systems, or automatic transmission coolers allowed in driver's compartment.

**17.6** Steel fire shield to completely separate driver from trunk, engine compartment and track; minimum 22 gauge.

**17.7** Center of steering wheel must be padded with resilient material. Cage around seating area of driver must be padded.

**17.8** Cable throttle not recommended. Toe strap or equivalent mandatory.

**17.9** Driver must be able to reach shut off switch while belted in car.

**17.10** SEMA approved racing safety net on driver's side mandatory. Fastening must be tech approved.

**17.11** Drive line hoops 360°, ½" x 1" maximum of 12" behind from front u-joint. Drive line must be painted white.

**17.12** Driver must wear 1995 or newer SNELL approved helmet. Goggles or face shield mandatory.

**17.13** Helmet, goggles, seat belts and window net must be in place when car enters the track.

**17.14** Head and neck restraints are required for all racers aged 13 to 18, and are strongly recommended for all others.

**17.15** Exposed tow hooks front and rear.

### **18 Policy Statements**

**18.1** Any modifications not covered in these rules will not be allowed unless approved by Speedway Officials

**18.2** Equipment will not be considered legal simply because it went through inspection unobserved or because a rule has not been written against it.

**18.3** Cars are subject to inspection at any time.

**18.4** Officials reserve the right to confiscate and hold any parts and/or equipment not conforming to the rules

**18.5** Officials reserve the right to judge, decide, and establish what constitutes a legal part of car.

**18.6** Weight may be added or adjusted at any time to benefit or equalize the racing program.

**18.7** **OFFICIAL'S DECISIONS ARE FINAL**