



2020 Street Stock Rules

2020 Changes in RED

Section 1. General

- A. Competing Models: 1975-1994 Rear Wheel Drive American made cars only.
- B. Weight: 2900 LBS minimum. Penalties may be added along with certain rules in this rule book.
- C. Left Side Weight: 55% maximum left side percentage
- D. Rear Weight: A maximum of 48% rear weigh SSSS scales. .01-.09% allowance in overage.

Section 2. Bodies

- A. Bodies: Body must match chassis being used (with exception of muscle car body) including make and model. Body must 1994 model year and older ONLY. Body may be made of Fiberglass, Plastic, Steel, or Aluminum. Pickup truck bodies allowed. No ABC, Downforce, Dirt, or 1995 and newer body styles allowed. Please contact SSSS officials for questions on other body types. All cars using a fiberglass roof will be required to use a steel roof plate over the driver (22GA minimum). Roof plate SHOULD be installed with dzus or ¼ turn fasteners.
- B. Accessories:
 - a. Spoilers: maximum 60" X 5". MUST be placed at rear of trunk lid. May be constructed of lexan, steel, or aluminum. Stock spoilers allowed. Metal spoilers must be made from three separate pieces with none of the three exceeding 20 inches in length. Spoilers WILL NOT extend beyond width of the decklid.
 - b. Windows: Lexan windows may be used. Quarter, and rear windows allowed but not required. Door windows are not permitted. Undamaged stock front windshields may be allowed with prior request and approval. Glass windshield is permitted as long as it is factory safety style glass. Passenger side window can extend no further than 10 inches from the base of the a-pillar
 - c. Rub rails: Exterior rub rails are allowed only between the front and rear tire and MUST stay in contact with the body their entire length. Steel rails MUST be secured to the cage in two places. Plastic rails may be riveted to body with a minimum rivet spacing of twelve inches.
- C. Roof Rails: 2 Roof rails are permitted lengthways of the car. Rails can be no longer than the steel roof panel. Rails must be no higher than 1½" above the surface of the roof. Rails may be made from steel, aluminum, lexan, or plastic and must be securely fastened to the vehicle.
- D. Aftermarket Bodies: ARBodies Sportsman Muscle Car bodies allowed. Body must be used in full no mixing and matching of other panels/pieces. Please contact for additional Muscle Car Body questions

Section 3. Chassis

- A. Chassis: Stock chassis or Johnson, XYG chassis and clips are allowed. Frame must be complete with unaltered or moved mounting points.
- B. Mounting Points: No alteration of chassis suspension mounting points or spring locations
- C. Weight Jacks: Weight jacks allowed. Cars using front weight jacks will receive a 50lb overall penalty for outboard shocks.
- D. Roll Cage: Main cage must be constructed using a minimum pipe size of 1.75" X .095. Frame tubing must be minimum 2"x2"x.125. Main cage is defined as "any area between the factory firewalls". Drivers door bars must be plated (18

- gauge minimum) or covered (.250 minimum) to reduce the risk of driver injury. Center section must be perimeter type cage. No Offset or Straight Rail chassis/cage allowed.
- E. **Strut Towers:** Strut and shock towers must remain in factory locations, no movement of any factory placed suspension or chassis mounting points is permitted. No modification of stock sub frames allowed, i.e. cannot be cut open, tubed inside and resealed. Engine cross member must be stock OEM and unaltered. Strut plates allowed for caster/camber adjustment.
 - F. **Fuel Cell:** Fuel Cell must be enclosed in a steel container. Fuel cell must have a rear crash bar in case of accident. Fuel cell must have fire wall mounted in between the cell and driver. 22 gallon maximum capacity.
 - G. **Lead:** Lead weight may be added to achieve percentages and overall weight required by the Showdown. All lead must be painted a solid color and have the car number painted or decaled onto the lead. Any cars losing a piece of lead during a race will face immediate disqualification.
 - H. **Floorboards:** Must have floorboard. Must be steel. May be fabricated. 20 GA minimum thickness.
 - I. **Firewalls:** Must have firewalls. Must have front and rear. Must be Steel. May be fabricated. 20 GA minimum thickness.
 - J. **Tubing:** Chassis allowed to be tied together with tubing. Front and rear suspension must remain unaltered. Wheelbase must remain stock.

Section 4. Suspension

- A. **Shocks:** OEM or stock replacement shocks and struts only(OEM, Pro, Afco, Direct Bolt on NO BILSTEIN). QA1 or similar (upon approval) entry level rebuildable shocks allowed. No threaded body or racing shocks allowed. Any cars using rebuildable shocks will receive a 50lb overall weight penalty.
- B. **Ride Height:** All cars must meet a 5 inch chassis ride height. Bodies will meet a 4" ride height on all sides.
- C. **Springs:** Racing springs allowed. Any Diameter, any height is permitted.
- D. **Tread Width:** Maximum tread width 72 inches measured from bead to bead. Bead is defined as the outside lip of the wheel used.
- E. **Sway Bars:** Any size sway bars can be used, front or rear. Sway bar does not need to be factory for make and model used.
- F. **Bolt-Ons:** All suspension parts (a-frames, spindles, hubs, etc) must be unaltered OEM.
- G. **Brakes:** Four wheel brakes must be in working order. Brakes must be OEM or OEM replacement type. No exotic, aftermarket or racing brakes allowed. Cars can be converted to rear disk brakes using factory materials, factory materials can be used from ANY make and model. Aftermarket brake pedal assemblies with bias control are permitted. Safety Hub Suggested on Metric chassis. . No cross drilled rotors. Brakes, Wheel Bearings, Spindles will all be inspected before NHMS track time is granted.
- H. **Lower Control Arms:** Must be stock. No adjustable control arms or altered link setups. Screw, press, or mono ball ball joints allowed. XYG clip may use the specified XYG control arm.
- I. **Front Upper Control Arms:** Stock or Tubular allowed.
- J. **Pedals:** Aftermarket pedal assemblies allowed. Brake Bias controllers allowed.
- K. **Design:** Front and rear suspension must remain as factory designed. No aftermarket 3 link permitted.

Section 5. Wheels and Tires

- A. **Wheels:** Racing wheels required. 7 or 8 inch width. No mixing and matching of widths.
- B. **Tires:** Hoosier 800 26.5/8/15, 27.0/8/15, 27.5/8/15 allowed
- C. **Pricing:** Hoosier 800 27.0 and 27.5 will be offered by SSSS at all races. Tires are \$130 each.
- D. *Each tire will be checked in a minimum of three locations. All locations checked must be 55pts or greater to pass.*

Section 6. Engine NON LS

- A. **Eligible Engines:** Engine must match chassis. GM 305/350. Ford 302/351. Mopar 318/340/360.
- B. **Crate Engine:** GM 602 crate engine allowed must be stock, sealed, unaltered. Crate engines allowed stock, out of the box Holley 650 CFM 4 Barrel
- C. **Engine Location:** Must be in stock centered location. Solid mounts allowed.
- D. **Stroke:** No stroking or de-stroking of engines allowed
- E. **Bore:** Maximum overbore of .060
- F. **Heads:** Any cast iron unaltered production cylinder head. Planing Allowed. No porting/polishing/gasket matching allowed. Vortec Heads allowed. Roller rockers allowed
- G. **Valves:** 2.02/1.60 Maximum valve size. 1.94/1.50 for Vortec. No lightweight, Inconel, or titanium allowed.
- H. **Compression Ratio:** 10.5:1 absolute compression ratio. Will be checked via whistler.
- I. **Crankshaft:** Stock unaltered crankshaft allowed. No lightening. Balancing allowed.
- J. **Connecting Rods:** Stock, H, or I beam allowed. Must be stock length

- K. Pistons: Any dish, flat, or dome 3 ring aluminum piston allowed. All rings must be steel.
- L. Intake: Stock allowed or GM 2101/2116 Ford 2181 Mopar 7176
- M. Carburetor: Holley 500 CFM Max. Stock out of the box no HP or altered pieces allowed. A Maximum 1" non tapered spacer allowed.
- N. Lifters: Stock. No Roller allowed.
- O. Camshaft: .460 maximum lift measured at the retainer.
- P. Air Cleaner: Maximum 14" x 4". No air boxes or ram air/cowl induction boxes allowed.
- Q. Exhaust Manifolds: Stock or headers allowed
- R. Exhaust: Maximum 3". Mufflers must be used on each pipe.
- S. Water Pump: Stock impeller style water pump only. No Electric.
- T. Timing: Any timing gear or chain allowed
- U. Ignition: Stock firing order. Stock OEM style HEI distributors only. NO MSD ignition boxes allowed. MSD Rev limiter is allowed.
- V. Fuel: Maximum 110 octane.
- W. Fuel Pump: Electric or diaphragm style pump allowed.
- X. Cooling: No Antifreeze. Electric Fan Allowed. Only 1 radiator allowed. 1 QT overflow bottle required.
- Y. Oiling: NO Dry Sump Oil Systems

Section 6a. Engines GM LS

- A. Engine rules in this section are to be used for the GM LS engine package only
- B. 4.8 or 5.3 displacements only
- C. Must use cast iron block
- D. May be bored up to .030 max
- E. Compression ratio must be 9.5:1 or lower
- F. .550 Camshaft allowed
- G. No modifications to rotating assemblies. Oversize pistons allowed
- H. Must use OEM aluminum cylinder heads (truck heads) for the cast iron engine blocks.
- I. Must use a 24lb/hr maximum fuel injector
- J. Must use OEM or OEM Replacement PLASTIC intake manifold
- K. Must use OEM 74mm throttle body
- L. Any engine computer may be used
- M. Headers allowed
- N. Must have oil pressure activated fuel pump shutoff switch
- O. Maximum allowed fuel pressure will be 60 PSI

Section 7. Transmissions

- A. Transmission: Any factory equipped transmission allowed. Aluminum or steel allowed.
- B. Gears: All gears must be in working order. 2, 3, 4, 5 speed, automatic or manual allowed.
- C. Clutch: Stock size and diameter clutch allowed only. Single Disc or Puck style. No multi disk, lightweight, or mini clutches allowed.
- D. Flywheel: Stock type flywheel only. Unmodified

Section 8. Rear End

- A. Rear Ends: Rear end needs to be factory for make and model used. 9" units allowed using stock brackets and in stock location only.
- B. Assemblies: No aluminum components allowed, including brake drums.
- C. Camber: No camber changes allowed to rear wheel drive solid (non-independent) rear ends.
- D. Differential: Open or Locked only. No truetrac or limited slip allowed.
- E. Axle Shafts: Solid steel axles allowed. C-clip eliminators allowed. No lightweight or gundrilled axles.
- F. Gear Rule: Gear rule will be implemented following NHMS Test Day.

Section 9. Electrical

- A. Grommets: All Electrical passing through firewalls must use grommets.
- B. Shut off: Shut off switch must be accessible from out of car. Must be labeled correctly.
- C. Battery: 1 12 Volt battery only. Must be mounted forward of fuel cell.
- D. Alternator: Allowed. Must not feedback to electrical system preventing shut off.

Section 10. Safety

- A. **Racing Seat:** Containment Racing Seat Mandatory. Seat must not allow side to side movement of drivers helmet in event of accident. Seats will be checked by NEMST officials.
- B. **Restraint Systems:** SSSS requires the use of a head and neck restraint system. Zamp, Hutchins, HANS, Leatt, Neksgen, etc are all eligible models. A foam neck brace does not constitute as a head and neck restraint system.
- C. **Fire suits:** Full 1 or 2 piece single layer minimum driving suit is required. Racing gloves and shoes are required.
- D. **Helmets:** All drivers will be required to present a motorsports accepted racing helmet every season and after every wall impact. Any helmets deemed to be unsafe will need to be exchanged before the driver is allowed to take the track. **Helmets must be SA rated with a 2010 date code or newer.**
- E. **Steering Shaft:** Aftermarket steering shaft recommended. Must have quick release steering wheel. Steering wheel can be made out of steel or aluminum.
- F. **Harness:** Five Point racing harness required, date must be within 3 years. Harness installation will be inspected. Drivers will not be able to race if the harnesses are installed against manufacturer suggestions.
- G. **Window Net:** Window net required may be ribbon or mesh. Latch must be visibly marked with an arrow in case of emergency. Latch can be spring, buckle, or latch type. Window net must be dated within 3 years of the current race season.
- H. **Battery:** Battery must be located forward of fuel cell. Battery must be secured by a minimum of two fasteners. It is suggested that the battery not be mounted within the engine compartment.
- I. **Fuel Cell:** Fuel Cell area must be separate from driving compartment. Fuel lines are not permitted to be run through the driver's compartment. Firewall cannot be made from aluminum. Fuel cell must be in metal container and approved by series officials.
- J. **Fuel Pump:** Electric fuel pump must have switch clearly marked. Electrical on off switch must be located within reach from outside of car
- K. **Certification:** Chassis will need to receive Showdown certification before any track time will be given at first event.
- L. **Chassis:** All cars that compete in Showdown on tracks over ½ mile in length will be required to have roll cage piping in front of the front struts and beyond rear firewall.

Disclaimer;

Rules are subject to change at any time. Rules and interpretation are up to Showdown tech director. All calls are final.

Questions are encouraged. These rules are made in the effort of equal competition among a variety of cars, chassis, home tracks, and divisions. We welcome feedback. Please call or email with questions. 207-577-2681 neministocktour@yahoo.com