

# 2020 NHIS, ACT & PASS Street Stock Open

## Rules

### Section 1. General

- A. Competing Models: 1975-2002 Rear Wheel Drive American made cars only.
- B. Weight: 2900 LBS minimum. (Weight Penalties may be added by Tech to maintain equalized competition and as described below.) Leaf Springs on rear allowed.
- C. Left Side Weight: 55.0% maximum left side percentage allowed.

### Section 2. Bodies

A. Bodies: Body must match chassis being used (with exception of muscle car body) including make and model and mounted using manufacture's specifications. Body must 2002 model year and older ONLY. Body may be made of Fiberglass, Plastic, Steel, or Aluminum. No ABC, Downforce, or Dirt bodies, noses, or panels allowed. All cars using a fiberglass roof will be required to use a steel roof plate over the driver (22 gauge minimum). Roof plate SHOULD be installed with fasteners. Roofs will be at least 47 inches from ground measured 10 inches back from windshield. Roof may not be raked either direction. Bodies must retain original shape and lines of body being used. Windshield shall have 3 vertical supports for bracing in center. No shelving allowed (Same width on both sides). Body width maximum from outside to outside of fender buldge is 76". Body must be securely mounted to prevent any caving in. Windshields, roofs, hoods, rear windows, and rear deck must maintain shape with no caving in.

#### B. Accessories:

- a. Spoilers: maximum 60" X 5". MUST be placed at rear of trunk lid and centered on body. May be constructed of Lexan, steel, or aluminum. Stock spoilers allowed. Steel or aluminum spoilers must have the top 4" constructed of clear Lexan material and be free of any visible construction. Maximum distance from ground surface to highest point of trunk or rear body cover is 38" and top edge of spoiler is 43 inches.
- 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: Roof rails are not permitted.

D. Aftermarket Bodies: AR Bodies Sportsman Muscle Car bodies allowed. Body must be used in full no mixing and matching of other panels/pieces. No panning under car allowed.

### 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. Jacking Bolts: Jacking Bolts allowed on big coil (5" min dia) spring chassis front and rear. No Jacking bolts allowed on Coil over chassis or leaf spring rear chassis cars.

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. 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. No Tungsten ballast allowed.

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.

#### Section 4. Suspension

A. Shocks: OEM or stock replacement steel sealed non adjustable shocks and struts only (OEM, Pro, Afco, Direct Bolt on NO BILSTEIN). QA1 or similar (needs prior approval), No threaded body or racing shocks allowed.

B. Ride Height: 6 inch chassis ride height. 5 inch chassis ride height allowed with #100 weight penalty. Bodies will meet a 4" ride height on all sides.

C. Springs: Racing springs allowed. Any Diameter, any height is permitted. Leaf springs chassis must maintain same number of springs and thickness on each side.

D. Tread Width: Maximum Outside tread width 73 1/2" measured from bead to bead. Bead is defined as the outside lip of the wheel used.

E. Sway Bars: Maximum size sway bar 1 3/8" diameter front or rear. Stock type or stock replacement type.

F. Bolt-Ons: All suspension parts (a-frames, spindles, hubs, etc) must be unaltered OEM. Hubs should be inspected for cracking frequently. Wheel bearings should be inspected and greased prior to use. Suggest using heavy duty replacement. Drag link, inside tie rods, steering arm, & Idler arm must be stock

or stock replacement. Tie Rod adjusting sleeve may be replaced with steel or aluminum sleeve and outside tie rod can be replaced with hyme joint. Stock spindle may be drilled and threaded for bolt attachment.

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.

H. Lower Control Arms: Must be stock. No adjustable control arms or altered link setups. Sock type pressed in Ball Joints only. No Screw in or mono ball joints allowed. XYG clip may use the specified XYG control arm.

I. Upper Control Arms: Stock or Tubular allowed same length as OEM plus or minus ½" maximum from left to right.

#### Section 5. Wheels and Tires

A. Wheels: Racing wheels required. 7 or 8 inch width. No mixing and matching of widths. No lightweight wheels. Minimum weight 19 lbs. 5/8" studs and 1" lug nuts.

B. Tires: 15" Hoosier Tires: information will be provided on the entry form for each event. No softening or altering. Must be dry inside before, during, & after any race.

#### Section 6. Engines

A. Eligible Engines: Engine must match chassis. GM 305/350. Ford 302/351. Mopar 318/340/360. No aluminum blocks. No fuel injection.

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 Barrell

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. Plaining Allowed. No porting/polishing/gasket matching allowed. Vortec Heads allowed. Roller rockers allowed with same ratio as stock for engine only.

G. Valves: 2.02/1.60 Maximum valve size. 1.94/1.50 for Vortec. No lightweight, Inconel, or titanium allowed.

H. Compression Ratio: 10.99:1 absolute compression ratio. Will be checked via whistler.

I. Crankshaft: Stock unaltered steel or cast 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. Must use an 85050 or 85060 Canton 1 inch (maximum) carburetor spacer with a maximum of two .070 inch gaskets. No other carburetor spacers 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 1 5/8" maximum allowed.

R. Water Pump: Stock impeller style water pump only. No Electric.

S. Timing: Any timing gear or chain allowed

T. Ignition: Stock firing order. Stock OEM style HEI distributors only. NO MSD ignition boxes allowed. MSD Rev limiter is allowed.

U. Fuel: Sunoco Fuel Maximum 110 octane. No additives.

V. Fuel Pump: Electric or diaphragm style pump allowed.

W. Cooling: No Antifreeze. Electric Fan Allowed. Only 1 radiator allowed. 1 QT overflow bottle required.

X. Oiling: NO Dry Sump Oil Systems

#### Section 7. Transmissions

A. Transmission: Any factory equipped transmission allowed. Aluminum or steel allowed.

B. Gears: All gears must be in working order. 3,4,5 speed, automatic or manual allowed. Powerglide Allowed. Automatic transmissions must run stock convertor. No Overdrive transmissions.

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. Minimum weight for an automatic transmission flywheel is 16 lbs.

#### Section 8. Rear End & Drive Shaft

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 3.73 final drive.

G. Steel drive shafts. It is mandatory that 2 (two) 360 degree brackets, no less than 2 (two) inches wide by 1/8 inch thick, be placed around the drive shaft and fastened to the floor or cross member to keep the drive shaft from becoming dislodged and dropping out. All drive shafts must be painted white.

#### 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: One 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 IMPORTANT: Cars will not be allowed on the track without the defined safety equipment. Entering the track without the proper equipment is subject to disciplinary action up to and including suspension from the event and/or any future events.

A. Racing Seat: Containment Racing Seat Mandatory. Seat must not allow side to side movement of drivers helmet in event of accident. Bolt on containment systems are allowed. Containment system is defined by a 1-piece 2-side reinforced head rest, and 2 reinforced shoulder rests. Headrest must be mounted to chassis or in accordance to manufacturer specifications. Seats will be checked by SSSS officials.

B. Restraint Systems: Head and neck restraint systems must be used anytime competitor goes onto the racing surface. Zamp, Hutchins, HANS, Leatt, Neksgen, etc are all eligible models. A foam neck brace IS NOT 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. Steering column must have a minimum of 2 U-Joints positioned to not allow steering column to be pushed rearward in a collision.

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: One 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 or drivers compartment if securely fastened and covered.

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. Fuel Cell must be mounted a minimum of 11" off the ground, centered in the chassis, and safely mounted.

J. Fuel Pump: Electric fuel pump must have switch clearly marked. Electrical on off switch must be located within reach from outside of car and driver.

K. Certification/Inspection: Cars will inspected before any track time will be given.

#### Declaration of Intent

Anything not specifically covered in this rule book must be approved for competition by the Technical Director.

IT IS THE RESPONSIBILITY OF THE COMPETITOR TO OBTAIN AND BECOME FAMILIAR WITH THE CURRENT RULES PERTAINING TO THE DIVISION IN WHICH HE/SHE CHOOSES TO PARTICIPATE.

The rules and/or regulations set forth herein are designed to provide for the orderly conduct of racing to establish minimum acceptable requirements for such events. These rules shall govern the conditions for all events, and by participating in these events all participants are deemed to have obtained and read, and understood a copy of the current rules, and complied with these rules.

NO EXPRESS OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM PUBLICATION OF OR COMPLIANCE WITH THESE GUIDELINES AND/OR REGULATIONS. They are intended as a guide for the conduct of the sport and are in no way a guarantee against injury or death to a participant, spectator, or official.