

SHENANDOAH SPEEDWAY

2015 RULES

**STREET STOCK**

(JANUARY, 2015)

**RULE BOOK DISCLAIMER**

The rules and regulations set forth herein are designed to provide for the orderly conduct of racing events and to establish minimum acceptable requirements for such events.

These rules shall govern the condition of all events, and by participating in these events, all participants are deemed to have complied with these rules.

**NO EXPRESSED OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM PUBLICATIONS OF OR COMPLIANCE WITH THESE RULES 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.

The race director shall be empowered to permit reasonable and appropriate deviation from any of the specifications herein or impose any further restrictions that in his/her opinion do not alter the minimum acceptable requirements.

**NO EXPRESSED OR WARRANTY OF SAFETY SHALL RESULT FROM SUCH ALTERATION OF SPECIFICATIONS.**

Any interpretation or deviation of these rules is left to the discretion of the Management of Shenandoah Speedway officials. Their decision is final.

## **1. COMPETING MODELS**

- Any steel-bodied full factory frame 1970 through current model year American-made passenger sedans with an AMA wheelbase of no less than 107 inches. Wheelbase must remain original as manufactured for year and model +/- ½ inch tolerance right and left. Tread width must remain original as manufactured for year and model +/- ¾ inch tolerance. Offset must remain the same front to rear.

Body, engine, transmission and parts must be stock for year, make and model of car except as noted within the 2015 rules. No truck, bus, marine or tractor parts permitted except noted within the 2015 rules. All parts must be approved by track officials.

## **2. BODIES**

- a. Body may not be lightened. AR sportsman bodies will carry a weight penalty.
- b. Original dimensions of all bodies must remain as manufactured. Roof, hood, rear deck, quarter panels and floor pan must remain stock. No hood scoops. No aluminum body parts allowed. Must be magnetic steel (not stainless steel). Rayline, Five Star or AR sportsman body stock replacement allowed. Ford and Toyota body styles allowed on GM metric chassis. Fords may run 351 Windsor engine or GM engine. Toyota must run GM engine. Roof, floor pan and rear deck must be stock. Doors, fenders and quarter panels may be fabricated but must maintain stock appearance and maintain a minimum thickness of 22 gauge.  
Removal of inner front wheel wells is permitted. Must retain complete stock floor pan and rear wheel wells. Body may not be lowered on frame. Body bushings may be replaced with metal bushings of same thickness.

Maximum 3” rear end crush panel permitted. Any aftermarket parts must be equal to stock dimensions and configuration. No aluminum body parts permitted except AR sportsman bodies as approved by track officials. Chassis or frames cannot be altered and must remain stock. Weight penalty will be added to cars using AR bodies to compensate for the lighter body parts and the lower center of gravity when adding weight (see weight section of rules).

- c. No hybrid bodies allowed. No hand fabricated AR type bodies permitted. No LMSC bodies permitted. All bodies must be approved by track officials.
- d. Doors must be welded, bolted or pop-riveted.
- e. Hood and trunk must be secured with positive type fasteners, a minimum of 3 on hood and 2 on trunk. Flat aluminum or fiberglass hoods with pins permitted. Rear trunk lid may be secured with pins.
- f. Hood and deck lid inner bracing may be removed.
- g. Fenders may be neatly cut and rolled for tire clearance. Must follow original body lines.
- h. Car must be neat in appearance.
- i. Maximum opening of 4 inches between the hood and the bottom of the windshield.

3. In the interest of fair competition track officials may add/subtract weight or make other adjustments as necessary to level the competition.

#### **4. WEIGHT**

- a. Weight rule: Minimum 3100-lbs. total weight. Minimum 1450-lbs. right side weight. All bracing must be of equal length and thickness right to left side. No gas or liquids may be added at conclusion of race. AR sportsman body style cars must weigh minimum of 3,500 pounds with a minimum left side weight of 1650 pounds.
- b. Added weight must be in block form of no less than 5-pound blocks (no pellets) and painted white with the car number on it.
- c. Added weight must be securely bolted in place.
- d. Weight may not be added to the outside of the frame rails or ahead of the front spindles or behind the rear axle or inside the driver's compartment.
- e. Dislodged weight will not be returned to the car for weighing after the race.

#### **5. GLASS**

- a. Front windshield may be glass or Lexan® and must have a minimum of five clips securing it. Three (3) 1/8 X 1” metal retaining straps must support the inside of front windshield. Rear window must be replaced by Lexan® or Plexiglas and must have a minimum of 2 each; 1-inch wide metal retaining straps.
- b. All cars must have a rear view mirror. Mirror must not extend beyond outer edge of door or "A" post.
- c. Headlights and taillight holes must be covered neatly with metal.

#### **6. INTERIORS**

- a. Either a stock dash or full-length sheet metal dash is required.
- b. Battery may be located in the driver's compartment with master cut-off switch located near the center of dash. Battery must be completely enclosed within a steel box with a maximum thickness of 1/8” and a minimum thickness of 1/16”. The lid must bolt shut and the box must be bolted securely to the floor. The battery must be sufficiently blocked to prevent excess movement within the box. The box must be insulated at the point of the battery posts to prevent arcing.

#### **7. TRANSMISSION**

- a. Only stock automatic transmissions permitted. Forward and reverse must work. Alterations or modifications are not allowed. Must have a working neutral safety switch. May use transmission cooler.
- b. Minimum 11 inch stock converter.
- c. One “U” shaped steel strap, 2 inches wide and 1/4” inch thick must surround shaft and be fastened to the floor cross-member.
- d. Drive shaft must be magnetic steel and painted white

## **8. ROLL CAGE**

- a. A complete approved roll cage required.
- b. All bars within driver's reach must be padded.
- c. Driver's door must have a steel plate measuring 18" X 24" with a thickness of .090". Plate must extend from the frame-rail upward.  
Total driver's door plated with 3" hole for jaws of life entry for driver's protection recommended.
- d. Cage must be centered on frame left to right.
- e. Tubing must be minimum .090 thickness.

## **9. FUEL AND FUEL CELL**

- a. Racing fuel permitted. Fuel additives are not allowed.
- b. An approved fuel cell required. Maximum capacity, including the filler spout and overflow must be 22 gallons. The nominal fuel cell size must be 32- 5/8 inches by 16-5/8 inches by 8-7/8 inches.
- c. Materials other than standard foam as provided by an approved fuel cell manufacturer will not be allowed.
- d. Fuel cell check valve is required and must be acceptable to track officials. All approved fuel cells may be equipped with a steel ball fuel filler and fuel vent check-valve assembly.
- e. Fuel Cell must be enclosed in an approved container of no less than 20-gauge steel. Cell must be mounted as far forward as possible, and equal distance between the frame rails. Bottom of cell cannot be lower than the bottom of the rear frame rails. Four steel straps minimum 1 inch wide X 1/8-inch thick must secure the cell to the trunk.
- f. A steel firewall not less than 20-gauge thick must fully separate the driver's compartment from the fuel cell.
- g. Outside fill is not allowed.

## **10. COOLING SYSTEMS**

- a. Aluminum radiator permitted.
- b. Braided steel hoses not permitted. Aluminum water pumps permitted (optional).
- c. Only a standard magnetic steel OEM fan with a minimum of four (4) blades shall be used. Minimum diameter of fan shall be 14 inches. Blade width shall be a minimum of 3.5 inches wide. No flex fan permitted.
- d. Minimum 5 inch aluminum pulleys permitted. No under drive pulleys allowed.
- e. No flat fan blades permitted.
- f. Water only. Additives are not allowed. Anti-freeze is not allowed.

## **11. DIFFERENTIAL**

- a. Only OEM style posi-traction, spools or welded gears permitted. No ratchet, gear-driven coupler, or torque sensing type differentials allowed.
- b. 12-bolt GM rears are not allowed.
- c. C-clip eliminators are permitted.
- d. Nine-inch Ford rear ends will be allowed in any Street Stock vehicle.

## **12. SUSPENSION**

- a. Modifications are not permitted. Front and rear control arms must mount in original locations. Control arm bushings may be rubber, plastic or metal. Racing springs may be used. Adjustable spring spacers are permitted. Mono-balls are not allowed. Extended or adjustable length ball joints are not allowed. Magnetic steel Heim joint on the sway bar permitted. All suspension components must use stock type mounting hardware and must be located in the original factory location. Rear jack bolts permitted (optional).
- b. Absolutely no bending, cutting, offsetting or interchanging of parts.
  - c. Left side ground clearance 6 inches minimum with driver in driving position of car. Panhard bars are not allowed.
  - d. If a rear chassis clip is badly damaged from racing incidents, a similar constructed tube rear clip will be allowed, subject to racetrack official inspection. No geometry changes are allowed.

## **13. SHOCK ABSORBERS**

- a. All shocks must have stock type welded ends and must mount in their original mounting holes. For racing shocks, only nonadjustable stock mount permitted. Non-Adjustable OEM style street shocks are permitted.
- b. All four shocks must be from the same manufacturer
  - . Left and right side part numbers must be the same.
- c. The track can claim any competitor's shocks for \$200.00 per set.
- d. All four shocks must be from the same manufacturer. Left and right side part numbers must be the same.
- e. Do not remove factory decals or paint shocks. Part numbers must be visible.

## **14. BRAKES**

- a. All components must be stock OEM / replacement for make and model of car used. No racing components allowed except for brake pads.
- b. Rotors or drums cannot be drilled or lightened.
- c. Aluminum drums or in-car brake adjusting devices are not allowed.

## **15. TIRES AND WHEELS**

- a. Track spec tire only. No alterations allowed. \$500.00 fine if caught soaking tires or if tires are too soft per manufacture specs.
- b. Any steel wheel not exceeding 7 inches wide permitted. Note: 7" Bassette Wheels as stamped permitted. All wheels must be the same size with minimum 3 inch offset. No deep dish wheels allowed.
- c. A maximum of 1/4" spacer on the left and 1/2" spacer on the right side of car. Spacers must be same front and rear.
- d. Bleeder valves are not allowed.
- e. One jack and one air or lug wrench permitted during race.

## **16. ELECTRICAL SYSTEM**

- a. Master on-off switch on battery cable must be located near center of dash.
- b. Battery may not be located in the trunk.
- c. Self-starter must be in working order. After-market starters are not allowed.
- d. Factory appearing OEM single point or OEM electronic ignition systems permitted. Multi-spark systems not allowed.
- e. No wire looms or wiring harnesses permitted. All electrical wiring must be point-to-point and each wiring connection must be easily traceable and removable from the car for inspection purposes.

## **17. ENGINES**

- a. Engine must mount in original location with stock/OEM replacement engine mounts. Engine may not be lowered or set back. May be interchanged within manufacturer's line.
- b. No factory or after-market high performance parts allowed except as stated below. Stock appearing oil pan only.
- c. GM products must use a two-barrel automotive type Rochester 2V with a maximum 1-11/16 throttle bore and a maximum 1-1/4 venturi.  
Booster in Rochester carburetor must measure a maximum of .249 in center hole of booster. (Tech gauge measures .259 to allow for tolerance. If gauge slide through booster it will be declared illegal).  
Height of booster must be a minimum of .746. (Tech gauge measure .736 to allow for tolerance. If gauge slides over booster it will be declared illegal).  
Rochester carburetor must run with cast iron intakes only.

d. Fords using Ford engine must use a stock 350 Holly 2300 model number 7448 (350 cfm) or Motorcraft® carburetor with a 1-11/16-inch throttle bore and 1.333-inch venturi. Marine or special application carburetors not allowed. Ford engine must be 351 Windsor engine (no Cleveland engine permitted). Fords and Toyotas may use GM engine as specified herein.

e. Intake manifold must be two-barrel cast iron. No modifications. Studs must be in all 4 holes with nuts.

f. Exhaust manifold may be stock unaltered cast iron. Center dump/ram type manifold allowed. Crossover equalizer tubes or thermal wrap are not allowed.

g. Exhaust headers will be permitted. Headers must be manufactured using a magnetic steel primary tube size of 1-5/8 inches outside diameter, maximum 30 inches in length cut off square, with a collector tube size of 3 inches outside diameter. Cones or pyramids are not allowed. The header collector pipe must not be reduced at any point between the primary tubes and the exhaust pipe. Those tubes that do not must be mounted parallel or angle down, in reference to the cylinder head, then turn down and turn to the rear of the collector pipe. The maximum thickness permitted on the header-mounting flange will be 3/8 inch.

h. Only a round dry-type paper air filter element maintaining a minimum of 12 inches and a maximum of 14 inches in diameter will be permitted. The air filter element must maintain a minimum of 1 1/2 inches and a maximum 4 inches in height. All air must be filtered through the element. The air filter elements must not be sprayed or soaked with any type of chemicals or liquids.

i. Only a round metal air filter housing will be permitted. The top and bottom of the air filter housing must be solid and must be the same diameter. Lips or expanded edges will not be allowed.

The center stud hole in the top of the air filter housing must not be recessed more than 1-inch. The air filter housing must be the same diameter as the air filter element. The air filter housing must be centered and set level on the carburetor. The bottom of the air filter housing must be lower than the top of the carburetor choke horn. Tubes, funnels or any device which may control the flow of air will not be allowed inside of the air cleaner or between the air filter housing and the carburetor.

j. Any hydraulic cam permitted. Maximum lift .410 measured at valve and .274 inches at lifter. Vari-duration or anti-pump lifters are not allowed.

k. Heads must be no less than 70cc for GM products with intake valve size of 1.94 inches and exhaust valve size of 1.50 inches. GM441 casting not approved. Ford must be no less than 70cc with intake valve size of 1.84 inches and exhaust valve size of 1.54 inches.

Any stock diameter spring and steel retainer permitted.

No beehive spring allowed. Guide plates not allowed. Screw-in studs 3/8-inch maximum. Stud girdles permitted. No Vortec, World Product or aftermarket heads allowed.

l. Standard factory maximum 3-angle valve job permitted. No grinding or polishing on any

part of head, intake or exhaust manifold. Interior must retain original cast finish.

m. Maximum displacement: 350ci + .060 overbore for GM products.

351ci + .060 overbore for Ford products.

n. Pistons must be flat top stock OEM/replacement type, 4 equal valve relief only. Pistons must have .550 compression height, plus or minus .010".

o. Crankshaft must be must weigh minimum of 50 pounds. May not be lightened or knife-edged.

p. Connecting rods may be aftermarket. Only solid steel connecting rods permitted. "I" Beam type connecting rods only. No billet connecting rods. Connecting rod must maintain stock production length.

q. No larger than 1.52 roller rockers and guide plates permitted.

r. All casting numbers must be legible.

s. An easily accessible 1" inspection plug located on the side of the oil pan in front of the oil filter not to be obstructed for inspection purposes highly recommended or oil pan may be removed for inspection.

t. EXHAUST – All cars must run some kind of muffler, quiet enough not to exceed 80 db at the property line per single car run. Shenandoah Speedway officials will have the final say on exhaust noise and if the muffler chosen will pass tech inspection.

## **18. STEERING**

a. Gear box must be stock for make and model of car. Any power steering pump permitted.

## **19. PERSONAL SAFETY EQUIPMENT**

a. Competition shoulder harness and lap belt must be at least 3 inches in width. Sub strap is required. Metal-to-metal buckles are required on shoulder and seat belts. The shoulder harness should be attached to the roll bar behind the driver's seat even with or slightly higher than the driver's shoulder. Where the harness crosses the roll cage, it must pass through a steel guide welded to the roll cage. Shoulder harness inertia reels are not allowed.

b. Where the belts pass through the seat edges, it must have a grommet installed, be rolled, and/or padded to prevent cutting of the belt.

c. All seat belts and shoulder harnesses must connect at the lap belt with a quick-release buckle acceptable to track officials.

d. Seat belts and shoulder harnesses should not be more than Three (3) years old.

Manufacturer's date tag may not be altered or removed and must be easily accessible for inspection purposes.

Production-car factory-type shoulder belts or straps are not allowed.

e. A window net made from minimum  $\frac{3}{4}$  inch, maximum 1-inch wide nylon rib-type material must cover the left side door window opening. The maximum square opening between the ribs must not exceed  $2\frac{1}{4}$  inches. The minimum window net size must be 22



inches wide by 16 inches high.

f. Window net mounts must be a minimum of ½ inch diameter solid steel rod on the bottom and a minimum 1-inch wide by 3/16 inch thick flat steel or a minimum ½ inch diameter solid steel rod on the top, with mounts welded to the roll cage.

g. The window net, when in the closed position must fit tightly and be secured with a lever-type quick release latch. The lever must be secured by a detent ball in the lever and may be supplemented by a Velcro® fastener only. Pins or clips are not allowed.

The latch must be mounted at the top in the front to the roof bar. An approved cam-lock latch is permitted.

h. An approved and fully charged fire extinguisher must be securely mounted within easy reach of the driver and cannot be taped to roll bar.

i. The steering wheel must be steel and have a quick-release for removal. The center of the wheel must be padded.

j. Aluminum racing seat only required.

k. All roll bars within reach of driver must be padded.

l. Approved head and neck restraints are required.

m. Highly recommended one crew member monitor official's radio (frequency 151.820) in order to relay official's directives (in lieu of black flag).

n. No crew members allowed over the wall unless permitted by officials.

## **20. POST-RACE INSPECTION**

a. If a car is deemed to be in violation of the rules penalties will be dispensed based upon the infraction. Failure to honor post race inspection will result in disqualification from that racing event, and further disciplinary action is possible. All decisions by tech officials are final and non-appealable.

b. Illegal parts must be surrendered to the track official in charge. Parts not surrendered will be cause for a fine and possible suspension from future events.

c. Items that have passed previous inspections do not mean they are legal and can be deemed in violation of the rules at any time.

d. Once tech officials notifies the driver/crew chief/team member/owner or any member of the race team of the items to be inspected the team will have 15 minutes to begin tear down. The car/parts, etc must be presented to officials for inspection within 30 minutes of notification unless otherwise directed by tech officials.

e. All decisions by track officials are final and not to be challenged in any form.

Shenandoah Speedway

(540) 652-1108

Note: This is a first year class and while we are starting with very detailed rules, they are subject to change in order to develop a competitive and exciting class.