



**Natural Bridge Speedway**  
*Official 2016 Rules*  
*Sportsman*

[www.nbspeedway.com](http://www.nbspeedway.com)

540-451-2943

**Rulebook Disclaimer**

The rules and/or 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 IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM SUCH ALTERATION OF SPECIFICATIONS.** Any interpretation or deviation is left to the discretion of the officials. Their decision is final.

### **Body and Body Modifications**

- Body and engine must be same manufacturer's line.
- All cars must have stock appearing fiberglass, aluminum or steel body.
- All cars must have stock appearing nosepieces.
- Wedge bodies or home built bodies acceptable.
- Rear spoiler limited to 8 inches in height. Spoiler cannot extend past quarter panels. Side supports from spoiler toward deck lid may not exceed 8" in height and/or 18" in length.
- Installation of a windshield is optional. You may use Lexan or 4 to 5 half inch thick round steel bars placed directly in front of the driver.
- The following competing models are allowed:
  - a. GM - No Corvettes. Intermediate size body styles only.
  - b. Ford – Mustang. Probers or any intermediate size body style only.
  - c. Chrysler – Any intermediate size body style.
- If you are in doubt about a body style, please ask a Speedway Official for more information.
- Car numbers must be displayed on roof and door

### **Weight**

- All cars, with an exception of cars with GM 602 Crate Engines, must weigh a minimum of 2,500 pounds (with the driver) after the race. GM 602 Crate Engines must weigh a minimum of 2,350 pounds (with the driver) after the race.

### **Chassis, Suspension, and Frame**

- 103 inches minimum wheelbase is required.
- All cars must be either an offset or perimeter chassis.
- Stock front frame section or tubular front frame section permitted.
- No three-frame rail cars permitted.
- Frame rails must be same size tubing on both sides of car. One inch tolerance permitted and must be same dimensions from side to side.
- All major vertical roll cage cars must be welded frame rails only.

- One shock per wheel permitted. No double adjustable shocks. Dummy shock left rear optional.
- All engines can be set back 6 inches.
- Any radiator is permitted and must be mounted in the front of the engine.
- Carbon fiber components are not permitted.
- Sway bars, torque arms, etc. are permitted.
- There is a maximum of 3 coil covers permitted on the rear suspension.

### **Fuel, Fuel Cell, and Fuel Pumps:**

- A NASCAR or NHRA approved fuel cell is mandatory and must be contained in a heavy steel box to prevent puncture. Fuel cell may be offset.
- Natural Bridge Speedway racing fuel only, no additives permitted. Natural Bridge Speedway has the right to withdraw fuel and refill with track fuel.
- Electrical fuel pumps are permitted. Electric fuel pumps must be wired into ignition switch.
- If electric, you must have a drag racing style master shut off switch located behind area on left side of your car, behind seat.

### **Brakes**

- Any automotive braking system is permitted.

### **Rear End**

- Stock manufacturers rear end may be retained
- Floater and Quick Change rear ends are permitted.
- Rear end cooler is permitted.

### **Tires and Wheels**

- Tires **must** be purchased with an option to brand from Natural Bridge Speedway to run for points.
- All tires must be Hoosier 1325 or 1425 Racing Tires. NO white dots
- Tires NOT allowed 1325 29/11.0/15 or C4000 11.0/88.0/15
- If wheel spacers are used they must be the same width from side to side.

- Wide 5 patterns are permitted.

### **Transmission and Components**

- Any automatic or manual style transmission is permitted.
- Three or four speed manual permitted. Stock style manufacturer's case must be retained. Bert or Brinn okay. Automatic okay. If automatic transmission is used, must have safety blanket or scatter shield.
- Any flywheel permitted. Lakewood type blow-proof required.
- Any type rear end permitted.
- Rear end must be under primary frame rails.
- All cars must be equipped with a workable clutch. Must be able to start out of gear, then put in gear while running and driven off.
- Tail shaft may be removed from any automatic transmission.
- No carbon fiber driveshafts.
- Driveshaft loops are required.

### **Engine Specifications**

#### **Approved Engines:**

1. GM-350 / Ford-351, Cleveland or Windsor / Chrysler – 360. Cast iron only. GM 602 Crate Engine is allowed, the following are approved (must have all seals unbroken):
2. No crossbreeding of engine parts is permitted. Ford, Cleveland, and Windsor parts cannot be interchanged.
3. .070's maximum overbore.
4. 364 Cubic Inches is the maximum Cubic Inch allowed. The engine must pump a maximum of 364 as calculated by the P&G. The engine will be checked by using a cylinder of the technician's choice. There are no tolerances to this rule – anything over 364 inches may result in a disqualification.

#### **Heads:**

- All heads must be cast iron or steel, 23 degree heads. No aluminum heads.
- Angle plugs heads are allowed
- GM vortec heads permitted, intake cannot be match ported.

- The following aftermarket heads are permitted:

*GM*

1. World Product #s – 4265a & 4265n
2. PBM #s – 367970 & RHS12407

*Ford*

1. World Product #s – 5303a & 5303b
2. Ford N351

- The maximum valve size for all cars is 2.02 (intake) and 1.60 (exhaust).
- Maximum 3-angle valve job.
- No titanium valves.
- Heads cannot be cut, ground or polished inside any ports, runners or altered in any area behind valves.
- No acid dipping.
- No porting or polishing of heads allowed. No cutting, grinding, or polishing of combustion chamber area of head.
- Any solid or hydraulic cams are permitted.
- Roller Rocker Arms are permitted. Stud girdles are allowed.

*Crankshaft:*

- All crankshafts may be aftermarket but must comply with the weight limit, Scat or Eagle. Weight limit – 48 pounds (all manufacturers)
- Stock stroke must be retained with a +/- ten thousandths (0.010) tolerance; measuring at visible center of piston. Final value to be determined on average of 4 cylinders on same bank.
- No grinding, polishing, or knifing of crankshaft. Balancing allowed.

*Pistons:*

- Dome pistons are not permitted. All pistons must be flat top or concave pistons.
- Piston, pin, rod, and ring combination must weigh 1,000 grams in race ready condition.
- Pistons must have same appearance as stock manufacturers and must have full skirt.

- Piston may protrude through the top of the block with a maximum of .005's, zero deck + .005's, measured without head gasket.

Connecting Rods:

- Any steel connecting rod is allowed.
- Connecting rod cannot be lightened.
- No titanium, steel, or aluminum connecting rods.
- Stock manufactured rods can be polished for strength. Polished not lightened.
- Connecting rod length dimensions:

Manufacturer	Minimum	Maximum
GM	5.7"	6.25"
Ford/Cleveland	5.778"	6.25"
Ford/Windsor	5.954"	6.25"
Chrysler	6.0"	6.25"

Camshaft and Lifters:

- Any hydraulic or solid lift cams are permitted.
- Roller cams are not permitted.
- Titanium valves are not permitted.
- Roller rocker arms are permitted.
- Stud girdles allowed.

Intake Manifolds:

- Any cast aluminum intakes are allowed. Intake must be store bought. No sheet metal intakes are allowed.
- No porting or polishing allowed.
- All casting marks must be retained.
- No grinding of ports or runners.

Carburetor:

- No Predator or Weber Carburetors are allowed.
  
- Stock 2 barrel carburetor for engine used. Venturi area of throttle body of carburetor can measure no larger than the following:
  - a. Holley Keith Dorton 2 Barrel #080583-1 as manufactured. Maximum Venturi size is 1.375 inches and maximum throttle plate opening size is 1.687 inches.
  
- Spacers with gaskets are not to exceed 1.60 inches.
  
- No grinding, cutting, or machining allowed.
  
- Venturi cluster of carburetor cannot be altered.
  
- Part Numbers must be visible.

Timing:

- No gear drive timing is permitted.

Distributors:

- No magnetos.
  
- Any dual point or breakerless is permitted.
  
- Absolutely no traction control devices of any kind.
  
- MSD ignition allowed.

Headers and Mufflers:

- Exhaust headers are of driver's/car owner's choice.
  
- Mufflers – Schoenfield # 92535 muffler required. This muffler is 9 inches long with a 3 1/2" inlet and outlet. Schoenfield manufactures all the turn downs, adapters, reducers, enlargers and all hardware.
  
- All numbers must be visible.