



# **Natural Bridge Speedway**

*Official 2016 Rules*

*Mini Modified*

[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**

- A full NASCAR style roll cage is required.
- The following Competing Models are allowed:
  1. GM: Vega, Monza, Sunbird, or Chevette
  2. Ford: Mustang and Mustang II, Pinto, Bobcat
  3. Chrysler: Colt, Challenger, Sapparo, Arrow
  4. Trucks: S10, Ford Ranger
- All cars must have stock appearing fiberglass, aluminum or steel body. May be an aftermarket body.
- Fenders & quarter panels may be homemade but must have original stock look.
- May have hood scoop.
- Formed and wedged shaped rubber nose piece may be used with a minimum 4" ground clearance.
- Front air dam is limited to 8 inches from bottom of bumper and must have a minimum 4 inches of clearance from ground to dam. No side curtains are allowed.
- Maximum 5 inches rear spoiler, measured from the deck. No supports allowed.
- Rear tailpiece can be removed.
- Installation of a windshield is permitted and must retain stock window line. You can use a stock glass windshield, Lexan, or 4 to 5 thick round steel bars placed in front of the driver.
- If you are in doubt of a body style, ask a Speedway Official.

### **Weight**

- All cars must weigh a minimum of 2,300 pounds (with the driver) after the race.

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

- The wheelbase must remain within a +/- 1/2" of stock factory wheelbase
- All stock frame sections must be retained.
- Stock floor pan must be retained from rear fender well to front firewall. Passenger floor pan may be cut out, but must be boxed in airtight.
- Round or box tubing may be used to link up stock front frame section and go to rear of car.

- No tubular front frame rails in front of spring pockets to firewall. Tube horns may be added in front of stock spring bucket mounts forward only.
- No offset cars and No full tube frame cars.
- Reinforcing behind bumpers permitted.
- All suspension components must appear stock for car used. Camber plates allowed.

Front Suspension:

- a. One shock per wheel and must be stock appearing
- b. Front shock tower can be removed but within 3 inches of stock location
- c. Sway bar permitted on front

Rear Suspension:

- a. Rear jacking bolts permitted
- b. Stock rear suspension configuration must be retained. No additional rear suspension parts permitted.
- c. Trailing arms must be retained if stock on car – Trailing arms on rear-end can be adjustable
- d. One shock per wheel, no coil over shocks, and no shocks that can be adjusted while driving.
- e. No rear sway bars or pan-hard bars permitted.
- f. If car had stock leaf springs they may be retained but must be in stock location with original mounts. May add spring rated at a different weight. Mounts may be reinforced but not moved.
- g. No adjustable hem joints.

- Side supports on spoilers are allowed.

**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**

- Car must have any type 4 wheel brake system that works at all times.

### **Rear End**

- Must have stock manufacturers rear end and may not be offset in the car. No 9" Ford rear ends.

### **Tires and Wheels**

- Any Hoosier Racing tire or any DOT Tire is allowed. No American Racer tires allowed.

### **Transmissions and Components**

- Stock OEM 3, 4, or 5 speeds only. No automatic or aftermarket transmissions allowed.
- All gears must work in transmission.
- Must have clutch disc, pressure plate, and throw out bearing. Must weigh the same as stock OEM weight. Clutch disc must also have springs.
- No carbon fiber driveshafts.
- Aluminum flywheels permitted but may not be altered or lightened in any way.
- Stock OEM flywheels must weigh the following:
  1. Ford – 18 pound minimum
  2. GM – 20 pound minimum

### **Engine Specifications**

#### **Approved Engines:**

- Limited to 4 cylinder engines only.
- No Cosworth Vegas, multi carbureted, turbo charged, or fuel injected.
- Heads must be stock only with no grinding, no porting, and no polishing.
- Aluminum engine fan pulleys permitted.
- Aftermarket balancers permitted.
- Adjustable timing mechanism permitted.
- .060's Overbore allowed.

#### **Crankshaft:**

- Stock OEM for engine used. Rotating assembly may be balance but excessive removal of material from crankshaft or rods is not permitted – Speedway Official's discretion.

Pistons:

- Forged or cast and may be flat top. Can protrude through the top of block a maximum of .005's. If it is more than .005's above zero deck, it is wrong. Maximum overbore .060's Fly cutting permitted.

Connecting Rods:

- Replacement rods permitted.
- 5.7 inch rods are the maximum length allowed.
- Polishing of rod is permitted.

Camshaft and Lifters:

- Any hydraulic or mechanical cams allowed.
- No roller cams or assemblies are permitted.
- Stock appearing rocker arm assembly must be retained.
- Solid lifters permitted on all motors.
- Valve specifications:
  - a. GM 2300 – Intake – 1.622 / Exhaust – 1.380.
  - b. GM 2500 – Intake – 1.720 / Exhaust – 1.500.
  - c. Ford 2300 – Intake – 1.740 / Exhaust – 1.500.

Intake Manifolds:

- Any stock OEM intake but must stay within manufacturer's line.
- No sheet metal intakes allowed. No porting or polishing allowed. No Esslinger intakes.
- Fuel injected intakes allowed.

Carburetor:

- Holly 350 or 4412 500 Two Barrel carburetor allowed. (Part #s 0-7448)
- Carburetor must be unaltered and adapter plate with gasket a maximum of 1.5".
- Choke horns must not be removed.
- No Keith Dorton carburetors allowed.

Timing and Distributors:

- Any dual point or breakerless permitted.
- Absolutely no traction control devices of any kind.

Headers & Mufflers:

- Exhaust headers of the driver's/car owner's choice.
- Muffler required – any muffler ok to run