



# Natural Bridge Speedway

*Official 2021 Rules*

*Street Stock*

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

### **Safety Rules:**

1. **Safety is the primary responsibility of the RACER!!**
2. Drivers have a SFI-Approved full fire suit (top and bottom), gloves, and shoes. Full Fire Suit (top and bottom or one-piece) is required (SFI rating optional, but highly recommended).
3. Snell rated SA2010 or SA2015 full-face helmet required.
4. Natural Bridge Speedway recommends the use of a head and neck restraint system, but is not required.
5. All cars must have a fully charged fire 2 lb. extinguisher mounted within reach of the driver. Recommend a 5 lb. halon system.
6. All cars must have a kill switch within easy reach of the driver, and clearly marked “Off” and “On”.
7. All cars must have a quality fuel cell with roll over valve(check valve) in fuel cell vent.
8. Minimum three(3) inch wide, two(2) inch if using head and neck restraint, SFI-Approved five point safety belts, mounted securely to the roll cage. (Recommend belts be no more than three years old.)
9. Any pre-race technical/safety inspection and car or equipment is deemed unsafe by officials will result in not being allowed to compete. Official’s decisions are final!
10. All track specific general safety rules or requirements will apply at all times to all participants(i.e. gloves, door plates, head and neck restraints, etc.) at that track.
11. RaceCeiver one way radios are REQUIRED at every event. Failure to have a RaceCeiver could result in disqualification. Malfunction of such device (i.e. dead battery, ear phone failure, etc.) will not constitute any penalty.
12. NO two-way radios, cell phones, or other communication devices will be allowed. RaceCeiver is the ONLY communication device permitted. Drivers caught with any other communication device will be disqualified for that event (heat or feature). No lighted signal devices(light sticks, flashlights, cell phones, etc.)
13. No mirrors are allowed at any location on the car.
14. ALL weight/lead must be painted and include the car number. Weight must be securely fastened to the car with a minimum two (2) ½” diameter bolts. No weight may be attached to the back bumper. Losing weight in any race will result in disqualification for that event.

### **Membership and Entry Fees:**

1. Anyone entering Natural Bridge Speedway pits must purchase an Annual Membership at a cost of \$30 per year. If not purchased for the year, you will pay \$5.00 addition to regular Pitt entry fee. This membership money goes towards Banquet at end of year to cover cost of Trophies, points money and to give everyone a nice awards Banquet. This money makes the driver eligible for any Natural Bridge Banquet winnings. Speedway will put all membership moneys into a fund for a points Banquet at end of year.

### **Weekly Race Procedures:**

1. Anyone helping roll track **when needed** for at least 10 laps will get 5 additional points.
2. In the event of rain at the speedway during a scheduled Weekly Racing Series event, and the feature event has not completed more than half (1/2) the advertised laps, that event must be either cancelled completely or made up the next week as a Double Feature. The field will be set as qualified from the previous attempt to race.

**Technical Rules and Regulations:**

It is the obligation of each participant to ensure their conduct and equipment are in compliance with all applicable rules and procedures, as they may be amended. Any amendment(s) will supersede any previous rules regarding that aspect of competition. An amendment is effective from the date it is added to the official rules regardless of when a competitor receives notice.

**Body and Body Modifications**

- Body and motor must be same manufacturer's line.
- Competing models allowed - Any sedan with a minimum wheelbase of 105 inches will be eligible (including station wagons and pickup trucks).
- No Camaros, Mustangs, Firebirds, or Front Wheel Drive bodies allowed.
- Aftermarket aluminum bodies okay. Front wheel drive steel bodies okay. Fiberglass or aluminum hoods and trunk lids allowed. Stock metric chassis wheelbase must be maintained.
- Stock body lines must be retained.
- Two support bars off rear cage may be welded to rear frame rail on each side.
- All doors must be welded or bolted closed. Hood and rear deck lids must be fastened with pins.
- Fenders may be trimmed. If trimmed, it must be done neatly and rolled under with no sharp edges.
- Must have stock appearing nosepieces.
- Stock bumpers allowed. Plastic nosepieces optional can be braced from behind. No push bars.
- Car must have front and rear pull chains that are attached to the frame.
- Installation of a windshield is permitted and must be a stock glass windshield, Lexan in place of glass, or three 3/8 inch thick round steel bars placed directly in front of the driver.
- Rear spoiler limited to 8 inches in height and cannot extend past quarter panels.
- Car numbers must be displayed on roof and doors

**Weight**

- All cars with Built Engines must weigh a minimum of 3,150 pounds (with the driver) after the race.
- 602 Crate Cars weight Minimum is 3,000 pounds. This may be changed by track after seeing how they race against built engines Please see note at end of rules list.
- Natural Bridge Speedway reserves the right to adjust weight up or down to equalize competition
- Natural Bridge Speedway reserves the right to add weight to any car winning more than three races.

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

- 105 inches minimum wheelbase is required.
- A full NASCAR style roll cage, with a minimum of three sidebars per side is required.
- Metric front clips only, no Camaro front ends.
- Front stock spring pockets must be retained. Rear clip can be replaced with 2" x 3" box tubing from firewall back.
- You cannot use a stock front frame clip or unibody frame and complete chassis with aftermarket tubing. The only portion of the stock frame that can be replaced is the rear clip and the area in front of the front spring pockets to the front bumper.
- Front and rear firewalls must have no holes.
- Floor pan to right of driver seat may be removed to allow for easier installation of mufflers. If floor pan is removed, suitable type metal material is required to box area in. The area can have no holes and it must be sealed. Trunk floor pan is optional.
- A Ford Thunderbird/Cougar body may be mounted on GM metric chassis. GM wheelbase must be retained. Ford engine and transmission must be run. Ex: Thunderbird runs 351 Ford, Monte Carlo runs Gm 350.
- No aftermarket Lower A-ARMS allowed.
- 3-link suspension is allowed but must limit the height of trailing arm link to an angle not above 2 inches maximum when measures from stock frame height.
- One shock per wheel. No aluminum, adjustable, or bypass allowed. No coil-overs allowed.
- If you finish behind another car you may claim that car's shocks for **(\$1,000)**

### **Front Suspension:**

- a. All front springs must remain in stock location in unaltered mounts. Solid or screw type spacers allowed in stock spring location.
- b. Modifications to lower control arm for height or length not allowed. **May run after market lower and bottom but must retain stock lengths.** May install threaded sleeve for Chrysler ball joint.
- c. Aftermarket upper control arms and control arm frame mounts allowed.
- d. No drop spindles. All steering components must remain steel and stock appearing. e. Jack bolts allowed.

### Rear Suspension:

- a. Adjustable trailing arms are permitted in all cars. No snubber or cushion type bushing permitted on lower control arms. Jack bolts are allowed.
  - b. Adjustable pan hard bar must be right side chassis mounted, behind rear end housing – 28 inches minimum, center to center.
  - c. If you use a top link bar on the rear end, it can be a snubber bar only. No spring or shocks.
  - d. No lift of J bars allowed and no traction bar.
- Stock front ends are required. No tubed front ends allowed (no full tubed chassis cars allowed).
  - No suspension adjusting devices allowed in driving compartment.
  - The engine must be located in the following location:
    - The spark plug of the cylinder that is furthest forward must split the ball joints, with a maximum of 1 inch tolerance allowed. This applies to all chassis.
  - Any radiator is permitted and must be mounted in the front of the engine and not come out through the hood.

### 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

- Disc brakes are permitted.

- Must have 4 wheel brakes and they must work at all times.
- Brake adjusters in driver's compartment are allowed.
- Use of balance bar brake system permitted.

### **Rear End**

- Floater rear end is permitted.
- A rear end cooler is permitted.
- Nine inch Ford rear end permitted.
- Aluminum or steel hubs okay.
- No Quick Change rear end is allowed.

### **Tires and Wheels**

- All tires must be Hoosier 1325 or 1425 Racing Tires. No white dots
- Maximum of 15" x (10" or 12") wheels are allowed and must retain same offset.
- Larger and longer wheel studs are required.
- Bead locks are permitted.

### **Transmissions and Components**

- Use of stock automatic or manual transmission is allowed. All gears, forward and reverse, must work and vehicle must be able to start and stop on its own without any assistance.
- Three or four speed manual stock transmission permitted. Stock style manufacture's case must be retained. Must have Lakewood style blow proof bell housing.
- **7 ¼ inch Clutch Allowed**
- **If Brinn or Falcon Transmission is used you must add 125 pounds to car.**
- Standard/Manual transmission cars must have inspection hole in bottom of blow proof bell housing. Minimum size of hole to be 1 ½ inches. A Speedway Official must be able to see clutch assembly through the location of this hole. Clutch fork hole will not be permitted for this task.
- Aluminum and steel flywheels are okay, no cast iron flywheels.

- Automatic transmissions must have working torque converter, must have safety blanket or scatter shield.
- Carbon fiber driveshafts allowed and must have driveshaft loop
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## **Engine Specifications**

### **Approved Engines:**

- a. GM-350 / Ford-351, Cleveland or Windsor / Chrysler – 360. Cast iron only.
- b. .060's maximum overbore on all engines.
- c. No crossbreeding of engine parts. Ford Cleveland and Windsor parts cannot be interchanged.
- d. 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.
- e. Engine and transmission must match body manufacturer.
- f. **602 Engine allowed Must have GM Seals no Race Shop Seals. 650 Holly Carb Part Number 80541-1 and number must be displayed on Carb. If no GM Seals the engine will be treated like a built engine and subject to being torn down for inspection if deemed necessary by track officials.**

### **Heads: Built Engines**

**NO ANGLE PLUG HEADS. NO 202 VALVES ONLY STRAIGHT PLUG HEADS WITH SMALL VALVES 194. NO VORTEC HEADS See notes at bottom of rules.**

- a. Dart Iron Eagle S.S. #s 10021070 Bare or 10021171 Complete
  - b. World Product #s 043600 or 043610
  - c. PBM #s 167970 .
- No 305 CID heads are permitted.
  - Aftermarket steel valves are allowed.
  - Roller rocker arms are permitted. Stud girdles are allowed.

### **Crankshaft: Built Engines**

- All crankshafts may be aftermarket but must comply with the weight limit. Weight limit –50 pounds (all manufacturers)

- All crankshafts must be stock stroke and 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.
- Stock replacement Eagle, Scat or GM crankshaft is okay.
- No grinding or polishing of any internal parts.

Pistons: **Built Engines**

- No dome or lightweight pistons are allowed.
- Forged flat top, Stock OEM replacement, flat top, or concave pistons only.
- Pistons must have same appearance as stock manufacturers and must have full skirt.
- No piston/rod combination changes

Connecting Rods: **Built Engines**

- Connecting rods must be same weight and length as stock OEM for engine used.
- May be press fit or floating.
- No grinding or polishing of any internal parts.
- Rotating assembly can be balanced but must not reduce the weight of rotating parts.
- Stock replacement Eagle, Scat or GM rod is okay.

Camshaft and Lifters: **Built Engines**

- Any hydraulic camshaft is permitted. No roller cams.
- No ceramic, mushroom, collapsed, or solid lifters.
- No titanium valves.
- Screw in studs allowed.

Intake Manifolds: **Built Engines**

- No sheet metal intakes are allowed.
- Aluminum Performer Intakes **only** and must be out of the box, untouched. (Ford #s 7183 or 7181 / Chevy #s 2101). No performer RPM intake manifolds. No Victor Jr.
- No porting or polishing allowed.



- All casting marks must be visible.
- No grinding of ports or runners.

Carburetor: **Built Engine**

- Holley 2 barrel #4412 as manufactured. May use Holey Keith Dorton 2 barrel #080583-1 as manufactured. Maximum venturi size 1.375" and maximum throttle plate opening 1.687". Must pass go/no go gauges.
- Spacer is not to exceed 1 ½", and 0.060" allowed for gaskets.
- Must maintain visible carburetor number.
- Choke can be removed.
- Choke horns must not be removed, top of carburetor cannot be ground down.
- Removal of material inside runners is not permitted.
- No acid dipping.
- No grinding, cutting or machining allowed.
- Venturi cluster of carburetor cannot be altered. If any material is removed, it is illegal.

Timing and Distributors:

- Aftermarket or stock electronic ignitions allowed. MSD Box is okay.
- Battery may be relocated. It must be in a marine box and securely mounted.
- Aftermarket coil is permitted.
- External coil is permitted.
- Absolutely no traction control devices of any kind.

Headers and Mufflers:

- Exhaust headers are of driver's/car owner's choice. No stainless headers.
- Schoenfield # 92535 or 609 muffler is required.

- Mufflers must be installed so that part number is visible.

- **Fines, Penalties, and Suspensions:**

1. **Pre-Race Technical Violation(s):** Any technical violation(s) discovered during pre-race technical inspection, the driver will be notified of violation(s), and car must be fully in compliance before allowed to compete.
2. All decisions of officials and/or the promoter regarding the application or interpretation of the rules, and the scoring of finishing positions shall be non-litigable. All participants agree that they will not initiate any legal action against Natural Bridge Speedway,
3. By signing the annual membership/registration agreement, participants agree that they will comply with the written rules and procedures of Natural Bridge Speedway. If the participant breaches this membership/registration agreement, he or she will be liable for actual and liquidated damages sustained by Natural Bridge Speedway.

**Code of Conduct and Conduct Penalties:**

1. Drivers, car owners, and teams are to always conduct themselves in an orderly and professional manner while competing at any Natural Bridge Speedway event. Series director will judge incidents of conduct accordingly and use the following criteria to assess any penalties upon a driver, car owner, or race team as necessary.
2. Driver will be notified of penalties that have been levied by the series director. All series director's decisions are final.
3. Series director may choose to levy monetary fines, suspension from sanctioned events, and deduct points as deemed necessary by the rules infraction or actions taken by a driver at any time. Series and tracks reserve the right to enforce or levy fines, points penalties, require changes, or suspension from competition for any actions deemed detrimental to the sport, series, or track. This includes, but is not limited to, social media posts, and/or derogatory or distasteful statements/slogans/photos/graphics on cars or any other driver related material visible to the public (i.e. helmets or driver's suits, trailer or transporter, etc.).
4. Natural Bridge Speedway will adhere to, and uphold any suspension levied on a driver. If a driver has been suspended or barred from entering the property, that will be upheld by the Track. Series and sanctioned event do not overrule a track's decision to refuse entry to any driver, car owner, or crew member.
5. NOTE: These rules are not intended to eliminate competition or accidental contact. However, they are intended and may be used to penalize deliberate contact and/or over-driving or deemed deliberate acts of aggression towards other drivers.
6. No driver will be allowed to compete/participate while under the influence of any alcoholic beverage or illegal/controlled substances. If a driver is found to be participating in such a manner, that driver will be immediately suspended and removed from competing.
7. Any competitor that verbally abuses a track official by using profane and/or disrespectful language is subject to a fine of \$100 for the first offense. A \$200 fine, one-race suspension, and loss of points for the second offense. After a second offense, driver is subject to 30-day or longer suspension and loss of points as determined by officials.
8. Any physical confrontation, either on the track or in the pit area, will result in the aggressor(s) being suspended for one race minimum, loss of points, and \$300 fine for the first offense. A second offense will result in the driver being suspended for the remainder of the season, and a \$500 fine paid to the speedway before allowed back to competition.
9. Any driver who enters another driver's pit area, or approaches another driver's car on the speedway, will be deemed the aggressor. Away from either driver's pit area, both drivers will be considered aggressors. Drivers should be aware that they are responsible for any member of their race team, and the above penalties will apply to the driver concerned even if the driver is not directly involved.

10. In the event of a felony conviction of a driver, team member, or team sponsor, disciplinary action could be a minimum of a 365-day ban from the series beginning with the date of the conviction or the date of the completion of any incarceration to said conviction, whichever date shall last occur.
11. Disciplinary action may also include, but is not limited to, the right of the track organizers and officials to suspend either temporarily, or permanently, any driver, team member or sponsor, whose actions, in the sole opinion and discretion of the track organizers and officials, may have resulted in, or may result in harm or detriment to Natural Bridge Speedway.
12. Any incidents occurring during the last five events of the season, may result in penalties being applied to the beginning of the following season.
13. Any incident(s) that are judged to be deliberate acts of aggression, whether on or off the track, under green or caution, will result in disqualification and a monetary fine to be determined by track' officials.
14. Track officials reserve the right to increase the above penalties, by either adding additional money, suspension time, or points loss, depending on the severity of the incident.
15. Track officials reserve the right to revoke a competitor's membership at any time. All official's decisions are final.
16. Any threat of, or legal action taken or levied against the Track by a driver/race team, will immediately result in that driver's indefinite suspension from competition in any/all Natural Bridge Speedway events.
17. Any disqualification, other than a weight violation, will result in no points and no money for the event. Weight violation will move the driver to the end of the finish order.
18. The decisions made and disciplinary actions taken by the Track and officials hereunder shall not be appealed by the driver, team member, or team sponsor affected thereby.
19. ALL OFFICIAL'S DECISIONS ARE FINAL.

**ATTENTION CAR OWNERS AND DRIVERS:**

Please remember that we are here and can race because of the fans, promoters, and sponsors. If they don't benefit, we won't benefit. While we understand that this competition involves substantial financial stakes, there is no excuse for bad or unruly behavior which would tend to bring the track or sponsors into disrepute.

**PLEASE NOTE:** By entering, qualifying, and/or competing in a Natural Bridge Speedway event, you are accepting these rules and regulations as being those under which you are prepared to race. Any driver entering and competing in a Natural Bridge Speedway event acknowledges and accepts the following: Natural Bridge Speedway and its assigns may use the drivers names, pictures, likeness, and performance in any way, medium, or material, including without limitation by and through, television, radio, air wave: cable and satellite broadcasts, film productions, videotape reproductions, audiotape reproductions, transmissions over the internet, and public and private on-line services authorized by Natural Bridge Speedway and the like, before, during, and after the event, for promoting, advertising, recording or reporting in the event and do hereby relinquish all rights there to for these purposes, provided however, that the car owner and driver shall retain the exclusive use of its or his/her name, picture and likeness in connection with product endorsements and the sale of products, services, concessions, and merchandise.

**I understand the rules have changed here a couple of times and sorry but the rule of no Angle Plug has been in effect for many years and have found that some have been allowed to run in past without being a DQ even at the barn. GW and I have said this will not be run like an outlaw track and have to stand by what he told everyone In the meeting even if we lose a car or two. I hope you that have the wrong heads will get legal ones. Sorry for any inconvenience but this has to be done. We do not want to lose any cars but we have a lot more that have run legal than not by the rules. We will be checking cars closely this year to give EVERY driver a chance to feel the checkered flag. We are sorry but this is not open for discussion.**

**One other note: 602 will be the engine for next season in Street Stock. This will insure everyone equal. We wanted to give everyone plenty of notice.**

Owner:

Print Name \_\_\_\_\_ Sign \_\_\_\_\_ Date \_\_\_\_\_

Driver:

Print Name \_\_\_\_\_ Sign \_\_\_\_\_ Date \_\_\_\_\_

**Please print this out and sign and turn in at practice or first race at latest.**