



2024 Birch Run Speedway Pure Stock Rules

NOTE: Birch Run Speedway does not express or imply any warranty of safety resulting from the publication of, or compliance with these Rules and or regulations. These Rules are intended as a guide to the conduct of the sport. And is not in any way a guarantee against injury or death to any participant, spectators or officials. The absence of a particular Rule does not necessarily mean it's approved. Any infractions of the Rules may result in a weight penalty for that event, or not being able to compete entirely. All identified Rule infractions must be resolved prior to the next event. (Any weight penalty allowed or agreed upon by Birch Run Speedway tech officials for 1 night, will not continue to the next event for a rule infraction outside of this rule package)

NOTE: it is the driver's responsibility to look over and or upgrade all personal safety equipment. It is highly recommended that all safety equipment meets current snell ratings and be SFI/1 approved. It is the driver's responsibility to read through these rules thoroughly and understand them. You will see that these rules in line with racetracks in our area with some small variations.

1. SAFETY

- A. Helmet must be 2010 Snell standard or better and have sticker visible for inspection. Full Face helmets required.
- B. A capable form of head & neck restraint must be used. Neck Collars are allowed.
- C. Approved seat belts and double shoulder harnesses will be required, no older than 5 years. A crotch strap is required.
- D. SFI approved, clean, full driving suit, approved gloves and shoes for fire protection are mandatory.
- E. Driver's side window must be equipped with a safety net with quick release-latch. String window nets are not permitted. The minimum net size must be 22" wide and 16" high. When latched, the window net must fit and pull tight.
- F. Resilient padding designed for roll bar use must be installed on any roll cage member which can be reached by any extremity of the driver while the driver is normally seated with restraints fastened. Steering wheel must be padded.
- G. All lead weights must be painted white, with the car number painted on each individual piece. All lead weights must be securely fastened. No Tungsten or similar weight allowed.
- H. All competing teams must possess a working fire extinguisher while in attendance in pits.
- I. A main electric cut-off switch needs to be clearly marked and easily accessible to safety crews.
- J. A working Fire Suppression system or driver accessible fire extinguisher (minimum 5lb.) is required.
- K. Driver must be able to exit out either side of the car.
- L. Working fuel cell flapper valve is required.
- M. Fuel cap must be tethered.
- N. Hood and trunk (deck lids) may only be secured with pins.
- O. Seats must be an aluminum high back racing seat. Right side head restraint is required.
- P. Raceceivers are required to be used at all times the car is on the track.
- Q. Mirrors are not permitted.



R. Rear Windows are not allowed & may not be covered.

2. BATTERY

- A. Only one battery is allowed.
- B. Battery must be mounted in the trunk with two (2) 1" metal straps.
- C. Battery must be securely mounted outside of driver's compartment.
- D. 12 Volt battery ONLY.

3. BODIES

- A. Only American made automobiles with a minimum wheelbase of 108" is allowed.
- B. Alterations other than those stated in this rule book are not permitted.
- C. Front and rear bumpers are required to have functional wrecker hooks installed.
- D. All doors must be welded shut.
- E. All glass must be removed except front windshield. Front windshield may be replaced only with 1/8" Lexan.
- F. Aluminum body components are not permitted. (Except factory hoods) factory aluminum hoods cannot be gutted and must remain stock.
- G. NO sharp edges that may pop a tire.
- H. Floor Pans may be replaced with steel. Stamped Steel OEM Transmission Tunnel Must be retained to main hoop bar. Behind main hoop may be sealed with sheet metal/aluminum. Must be completely sealed to reduce flame travel pathways.

4. BRAKES

- A. Functioning brakes on all four wheels is required.
- B. Brake shut off devices or aftermarket proportioning valves are not allowed.
- C. Stock OEM calipers and rotor are required. Drilling or lightening of rotors is not allowed.
- D. Rear disk brakes are not allowed.
- E. Brake Floaters are not allowed.

5. ENGINE

- A. Engines may be rebuilt to stock specs; with the exception of bore clean up with a maximum of 0.060 to a 350 block, any engine block bore in question will be determined by bore size minimum 4.00 to 4.060 maximum, bore size of any engine can be checked by Birch Run Speedway tech officials, (Birch Run Speedway tech officials reserve the right to inspect or have a 3rd party inspector) in the event of an engine bore inspection if all markings are removed from engine block or a possibility engine block in question has been remarked a cylinder head will be removed to measure bore size, all disassembly will be performed by the race team, if engine bore is deemed legal, Birch Run Speedway will cover the cost of "gaskets only" to reassemble, if engine in question bore size is deemed illegal Birch Run Speedway will not be liable for any cost to reassemble engine.
- B. Engine must be mounted in stock location.
- C. Crankshaft stroking or de-stroking is not allowed, stock 350 stroke is all that's allowed, (Birch Run Speedway tech officials or 3rd party inspector reserves the right to inspect stroke at any time) in the event of an engine crankshaft stroke being checked, all disassembly will be performed by race team, if crankshaft stroke in question is deemed legal Birch Run Speedway will cover the cost of "gaskets only" for reassembly, if crankshaft stroke in question is deemed illegal Birch Run Speedway will not be liable for any cost of reassembly.
- D. Racing or performance enhancing engine components of any kind will not be allowed.
- E. No 400 blocks allowed, stock 400 bore is 4.125, same inspection process can be used as in rule 5. A
- F. Only stock cast iron heads allowed. No vortec cylinder heads allowed.



- G. Camel back heads ALLOWED. Screw in studs, guide plates and Polly locks are allowed.
- H. Only stock intakes Allowed. No high rise, marine, Camaro or corvette intakes allowed.
- I. No porting or polishing, 'port matching anywhere on heads, intake, exhaust or manifolds.
- J. Max compression 10.5 to 1.
- K. NO FUEL INJECTIONS
- L. NO electric fuel pumps.
- M. 4-barrel Quadrajet carb unaltered except the choke plate and shaft removed.
- N. lightweight cranks, rods or pistons are not allowed.
- O. Aftermarket pulleys, power steering pump, valve cover and aluminum water pumps are allowed.
- P. A 1" inspection bung must be installed in the oil pan above the oil line. View of the crankshaft and Internal components must be unobstructed for viewing.
- Q. Any hydraulic camshaft (non- roller).
- R. no roller of any type, cams, lifters, rockers.
- S. Stock HEI Ignition system only. No computer boards, must have stock 4 pin module.
- T. Claimer oil pan with small kick out will be allowed.

6. EXHAUST

- A. Stock cast iron manifold only, no center dumps.
- B. Exhaust must be completely sealed and exit 24" behind center of rear transmission mount.
- C. Dual or single 2" OD Max on all pipes and turn downs.
- D. No X or H pipes allowed.

7. FRAMES

- A. Rear frame rails may be replaced with square tubing because of rusted frame rails. Just from the center of rear axle back only.
- B. Trailer hitches and similar add-ons must be removed.
- C. Minimum ride height 5", measured from bottom side of frame rail at lowest point to ground, crossmember not included.
- D. No GM Unibody Leaf Spring Cars. No removal of factory sheet metal frame stampings for any unibody. No tube chassis covered by factory sheet metal frame stampings.
- E. No intermixing (swapping) of factory clips allowed on any make, model, year range, or manufacturer. (Example: Ford front clip will have a Ford rear clip & Chevy front clips will have a Chevy rear clip and both shall be from the same year range or generation of the frame in question).
- F. No cutting of main frame to manipulate or change wheelbase.

8. FUEL CELL

- A. All cars must have a made for racing fuel cell securely mounted in the trunk area of the car with two (2) 1" metal straps. Fuel cell must have safety hoop.
- B. Fuel cell must have a minimum ground clearance of 8"
- C. Fuel lines may not pass through the driver's compartment.
- D. Electric fuel pumps are not allowed.
- E. A firewall must separate the trunk and drivers' compartment.
- F. Only pump gasoline is allowed. No fuel additives are permitted, fuel can be tested at any time with a digitron fuel tester.

9. RADIATOR



- A. Only 1 radiator allowed.
- B. Radiator must vent into catch-can or mount overflow tube at the center of windshield in clear view of officials.
- C. Antifreeze is not allowed.

10. REAR AXEL

- A. Stock as delivered from the factory in brand, make and model. No intermixing of brands. NO GEAR LOWER THAN 4.56 (Or Numerically Higher)



11. ROLL CAGE

- A. A four (4) point roll-cage of at least 1-3/4" O.D. with a minimum 0.095 wall thickness tubing required. Roll cage must remain in the interior of the car.
- B. Door bars are required. Minimum of three (3) on the driver side. Minimum of two (2) door bars on passenger side.
- C. 1/8" steel door plate, minimum 16x24" on the driver's side.
- D. Front and rear hoops are allowed.

12. SUSPENSION

- A. Stock type springs in stock location, spacers are allowed, no coilovers or front screw jacks allowed, rear screw jacks are allowed.
- B. Sway bar must be mounted in stock location with stock hardware on the frame. Threaded rod may be used as a link to adjust load or unload sway bar.
- C. Intermixing of suspension components is not allowed.
- D. Only 1 Stock type shock per wheel mounted in the stock location with the stock hardware, a steel stock type take apart shock that allows shock to be rebuilt only will be allowed, shock cannot have any adjusting knobs, sweep adjusters, or a Schrader valve to charge shock with nitrogen, no bump stops, no bump springs, no travel limiting devices internal or external of the shock or attached to suspension or chassis. (Steel Rebuildable Shocks: 1 to 2 shocks add 25 lbs., 3 to 4 shocks add 50 lbs.)
- E. All control arms trailing arms must be stock for make and model of your car, Alterations to these parts will not be allowed.
- F. Only stock cast iron spindles are acceptable. Aluminum spindles are not allowed, cutting, welding, Ackerman adjustments to steering arms, changing pin inclination not allowed.
- G. Driver actuated weight jacking devices are not allowed.
- H. Driver adjustable devices are not allowed.
- I. Electronic or hydraulic traction control devices are not allowed.
- J. All steering must remain stock, except an aftermarket steering shaft will be allowed.

13. TIRES

- A. Any DOT steel belted radial treaded tire 8" maximum thread width allowed. 235-60s maximum tire size. Stock radial tires only. Recaps and/or retreads are not permitted. Made for racing tires are not permitted.
- B. Use of tire softening or altering agents is not permitted. (Refer to general rules for tire soaking disciplinary actions)

14. TRANSMISSION

- A. Stock automatic transmission is required. Power glides are not allowed, C4 Ford is not allowed.
- B. 12" diameter converter minimum. Birch Run Speedway reserves the right to inspect any converter at any time or have a 3rd party inspection performed. Birch Run Speedway reserves the right to inspect any transmission at any time or have a 3rd party inspection performed. (Other tracks say 12" working converter Birch Run Speedway is aware of the type of converters that have been allowed to run & recommends your 12" minimum converter is working. This will eventually be mandatory rule that the your 12" minimum converter will be a working 12" minimum converter)
- C. 350 turbo, 400 turbo, and all metric variations must retain all working gears. Removal of gears or lightening of gears is not allowed.
- D. Drive shaft must be painted white.



E. Front and rear drive shaft hoops made of steel are required.



15. WHEELS

- A. Steel, made for racing wheels only.
- B. Maximum wheel width is 8".
- C. Wheel studs must be 5/8" minimum with five (5), 1" hex lug nuts.
- D. Wheel spacers are allowed, maximum overall tread width front & rear is 78" outside of tire to outside of tire at spindle pin centerline.

16. WEIGHT

- A. Car must maintain a minimum base (total) weight of 3500 lbs. with driver in car pre-race and pre-qualifying.
- B. Maximum left side weight is 55%
- C. Maximum rear weight is 50%.
- D. Only lead may be used for ballast. Lead must be anchored with a minimum of two (2) 1/2' Diameter bolts.
- E. All weight (lead only) must be painted white with car number painted in contrasting color on all sides. Birch Run Speedway reserves the right to amend these rules at any time.
- F. "Steel take apart rebuildable nonadjustable shock" see Rule 12 D" (1 to 2 shocks add 25 lbs., 3 to 4 shocks add 50 lbs.).

17. Bad Conduct or Behavior Zero Tolerance

- A. Birch Run Speedway officials have a zero-tolerance policy for all unnecessary events that take place anywhere on Birch Run Speedway property such as but not limited to:
 - i. Arguments
 - ii. Unnecessary behavior of any kind
 - iii. Vulgar language
 - iv. Threatening other racers teams, help or family.
 - v. Going to another race teams pit to argue
 - vi. Unnecessary speed in pits with your race car
 - vii. Bumping others race cars with your race car in pits expressing your anger.
 - viii. Unnecessary actions toward Birch Run Speedway officials, about tech decisions or on track decisions
- B. At the point security is called, you will receive your 1st week suspension, if argument or unnecessary actions continue the suspension will continue to multiply, 2 weeks, 3 weeks, 4 weeks, after 4 weeks there will be a meeting with Birch Run Speedway officials to determine your suspension or when you will be allowed back to Birch Run Speedway.

Email tech questions to info@birchrunracing.com

*Birch Run Speedway Reserves the right to Revise Rules for Issues Not Foreseen with This Rule Package.

*Birch Run Speedway Reserves the Right to Retain A 3RD Party inspector or company To Examine Any Part of The Race car or part In Question.