

2026 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 2015 Snell standard or better and have sticker visible for inspection, Full Face helmets required.
- B. A type 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 3 years. A crotch strap is required.
- D. Seat belt minimum is 3" if a conventional type neck collar is being used. If a HANS device or similar head and neck restraint is being used where the seat belt shoulder straps go over the platform of the head and neck restraint you will be allowed the use of a 3/2/3/ seat belt system which consist of 2" shoulder straps that pass over the head & neck restraint platform all other belts are 3" seat belts can be used up to maximum age of 5 years. Seat belts must be in good condition and free of cuts or tears, grinder marks, weld splatter, melted areas, extremely sun faded or areas that are rough and extremely weathered. If any of the poor conditions are visible with your seat belts they will not be allowed for use.
- E. SFI approved, clean, full driving fire suit, approved gloves and shoes for fire protection are mandatory.(free of rips, tears or being oil soaked)
- F. Driver's side window must be equipped with a safety net and quick release-latch, the window net must pull tight. (String type window nets are not allowed)
- G. Padding designed for roll bars must be installed on bars within reach of any drivers extremity with driver seated and restraints fastened. Steering wheel center pad is highly recommended. (Pool noodles from the dollar store are not allowed as roll bar padding)
- H. Lead only for weight ballast, must be white, with the car number painted on each individual piece. All lead weights must be securely fastened with a minimum of 2 1/2" bolts, Tungsten or other type's weight ballast not allowed.
- I. A main electric cut-off switch is "highly recommended" being clearly marked and easily accessible to safety crews.
- J. A working Fire Suppression system or fire extinguisher (minimum 5lb.) is required in every race car, mounted safely & securely. If mounting is unsafe it will need to be fixed before the race car is allowed on the track.
- 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 / trunk / deck lids, must be secured.
- O. Seats must be full aluminum or containment type racing seat, Right side head restraint is required.
- P. Raceceivers are mandatory and a part of the driver's personal safety equipment, every driver is responsible for making sure they have a fully charged battery and know their Raceiver is working before going on the

track surface, a random Raceceiver check can be done before a race, if you're found to not have a working Raceceiver you will not be allowed to race.

- Q. Electronics: No cell phones, radios, smart phones, smart watches, laptop computers or tablets allowed in vehicle or with driver and will be an automatic disqualification. Receivers only allowed in race vehicle and MUST be operational.
- R. Mirrors of any type are not allowed in the Pure Stock class, must be removed & not taped over.
- S. Rear Windows are not allowed & may not be covered, large side windows cannot be covered, small vent or opera window area can be covered with lexan only. (no half windows anywhere)

2. BATTERY

- A. One battery is allowed, batteries cannot be used for weight ballast.
- B. Battery must be mounted in the trunk with a minimum of two (2) 1/8" x 1" wide metal straps, or a battery bracket hold down with threaded fasteners (a plastic battery box or marine type plastic battery box screwed down will not be allowed, unsafe battery mounting will not be allowed)
- C. 12 Volt battery ONLY.

3. BODIES

- A. American made automobiles with a minimum wheelbase of 108" is allowed.
- B. Alterations other than those stated in this rule book are not allowed
- C. Spoilers, air deflectors etc. not allowed.
- D. Front and rear bumpers are required to have functional wrecker hooks installed.
- E. All body panels must be welded, riveted and fastened securely.
- F. All glass must be removed except front windshield. Front windshield may be replaced with 1/8" or thicker Lexan only, will require 3 safety bars in front of driver. (Plexiglas is not allowed)
- G. Aluminum body components are not allowed. Except for a factory aluminum hoods. Factory aluminum hoods cannot be gutted and must remain stock. Fiberglass hoods not allowed, air cleaners May not protrude through hood.
- H. All sharp edges / corners must be addressed that may pop a tire or cause damage.
- I. Floor Pans may be patched with steel. Stamped Steel OEM Transmission Tunnel must be retained to the rear main hoop bar, behind main hoop must be completely sealed with sheet metal or alum sheet 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 or scalloped rotors are not allowed.
- D. Rear disk brakes are not allowed.
- E. Brake Floater are, not allowed.

5. ENGINE

- A. Chrysler / Dodge, Ford or Chevy engines are allowed in the pure stock class, they must be paired with their manufacture brand, Chevy to Chevy, Ford to Ford, Chrysler / Dodge to Chrysler / Dodge. The cubic inch limit is 360 cubic inches maximum regardless of the engine manufacture and must not exceed the maximum bore, stroke and compression rules listed within these rules.
- B. Engines rules are primarily based on Chevrolet engines as the Pure Stock class is majority Chevrolet engines. Example being used is a Chevrolet small block 350. The engine may be rebuilt; allowing a bore cleanup maximum of 0.060 with a Chevrolet 350 block, 360 CUBIC INCHES Maximum for all makes of engines. If engine block identification has been removed from an engine block or the block identification looks to be tampered with, Birch Run Speedway would inform race team to remove a cylinder head to determine bore size as a last resort. If a cylinder head is removed for this reason, Birch Run Speedway will not be liable for any parts or labor to reassemble said engine, even if bore size is correct. Any engine block bore size in question can be determined by bore size allowing a 0.060 maximum clean up bore. All engines can be checked by Owosso Speedway tech officials (Birch Run Speedway tech officials reserve the right to inspect or have a 3rd party inspector) all teardown to engines will be performed by the race team. In the event an

engine bore size is deemed legal and all correct marking are on the engine block Birch Run Speedway will cover the cost of gaskets only, no labor to reassemble the engine in question. In the event an engine bore size is deemed illegal Birch Run Speedway will not be liable for any cost to reassemble engine, no parts and no labor.

C. The engine must be mounted in stock location.
Crankshaft stroking, de-stroking, offset grinding of rod journals to increase stroke, is not allowed (example is Chevrolet stock 350 stroke is 3.48, that is the maximum stroke allowed). Birch Run Speedway tech officials or 3rd party inspector reserves the right to inspect stroke at any time. In the event an engine crankshaft stroke is 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, no labor for reassembly. If crankshaft stroke in question is deemed illegal Birch Run Speedway will not be liable for any cost of reassembly, no parts and no labor.

D. 400 blocks are not allowed, stock 400 bore is 4.125, and same inspection process can be used as in rule 5. B

E. Flat top pistons only.

F. **Cylinder heads:** (the cast iron cylinder head industry is currently making major changes in their products and prioritizing to produce high volume parts only & reduce or stop production of slow moving parts, which is limiting availability)

- i. Any stock straight plug cast cylinder head will be allowed “excluding” → vortec cylinder heads and aftermarket heads unless listed as allowed in another section of the rules.
- ii. the dart/imca cast cylinder head previously allowed part # 91624360 is currently not available and looks as if it will not go back into production (for those that already have the part # 91624360 Dart/imca heads they will still be allowed)
- iii. another cylinder head allowed is the Engine Quest EQ-CH350I that is dart/imca/Wisota approved as a replacement head for Dart/Imca # 91624360 (this head is not currently available but expected to be available in the 1st quarter of 2026)
- iv. Another option as an approved & currently available bare or assembled cylinder head is the (Dart # 10024361) this cylinder head is Dart/Wisota approved.
- v. Camel back heads are allowed, (cast iron only)
- vi. Hydraulic cam and lifter only.
- vii. No lightweight valve train components aluminum / titanium etc. No beehive valve springs.
- viii. Screw in studs, Guide plates, Polly locks and a Stud girdle is allowed.
- ix. (For 2027 we are reviewing options of possibly allowing the engine pro reproduction vortec cast iron cylinder head, which would also consist of an cast iron intake to fit the vortec heads)

G. To minimize tech inspection time it is recommended that you have 1 hole on each cylinder head minimum 3/8" that will allows the scope to pass through and inspect lifter / lifter valley area. If you do not have an area in cylinder head the scope will pass through, your distributor will have to be removed for this type of inspection.

H. Stock cast iron or stock aluminum intakes only. High rise intakes are not allowed for example, marine, Bowtie, Camaro or Corvette, aftermarket, etc.

- I. No porting or polishing, port matching anywhere on heads, intake or exhaust manifolds.
- J. Max compression 10.5 to 1.
- K. No fuel injection engines of any kind even if refitted with a carburetor, they are not allowed.
- L. Electric fuel pumps are not allowed.

M. (Option 1 Carburetor) a single 4-barrel Quadrajet, the carb choke plate and shaft can be removed. (Option 2 carburetor) a single Holley 4412 bolted to the stock Aluminum or Cast Iron intake allowing a maximum 1" adaptor plate to mate the 4412 to a Stock Q-Jet intake manifold.
A Q-jet carburetor will not be allowed any type of carb spacer must bolt directly to the intake manifold.
The only allowable modification to the Holley 4412 carb is the removal of the choke blade.
(XP carburetor not allowed)

- N. Lightweight cranks, bull nosed, lightening holes, knife edged etc. not allowed, lightweight 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 level line to view the crankshaft and internal components. Must be unobstructed and allow viewing of rotating assembly. No inspection hole is an automatic DQ.
- Q. You will be allowed any hydraulic camshaft. Must be a non-roller assembly and must be a zero lash, anything other than zero lash will require more significant inspection process, not limited to pulling intake & lifters if needed or adding preload to adjusting nut to see if engine still runs, a significantly loose valve lash will be a D.Q. (Birch Run Speedway will not be liable for any parts or labor for teardown regardless of results)
- R. Solid camshafts or solid lifters are not allowed.
- S. Roller cams or any type or roller lifters not allowed.
- T. A stamped steel or cast, stud type, slotted, pivot ball, roller tip only, rocker arm 1.5 or 1.6 will be allowed.
- U. Rocker arms that have a bearing type shaft / trunnion that mounts on the stud in place of the pivot ball are not allowed. Shaft type rocker arms not allowed.
- V. Stock HEI Ignition system only. No computer boards, must have stock 4 pin module.
- W. Claimer oil pan with small kick out will be allowed. Must have a 1" inspection bung.

6. **EXHAUST**

- A. Stock or stock replacement cast iron exhaust manifold only, no center dumps, no tube type exhaust manifolds, no grinding or porting to exhaust manifold.
- 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, it is recommended the exhaust exit left side or right side of car, the exhaust ends or exit can be straight or angle cut but must allow a checking tool to be slid over exhaust pipe at the exit to check exhaust OD.
- D. No X or H pipes allowed. No exhaust tips of any kind allowed at the exhaust exit.

7. **FRAMES**

- A. Rear frame rails may be replaced with square tubing from the center of rear axle to the rear of the frame. This is the only area of the frame that can be replaced with tubing. Minimum tube size is 2" X 2" square tubing and minimum wall thickness is 1/8". Trailer hitches or frame attached brackets must be removed.
- B. The stock front upper control arm brackets will be allowed relocation +/- 1"
- C. Front lower control arm mounts will not be allowed relocation.
- D. Minimum ride height 5", measured from bottom side of frame rail at lowest point to ground all 4 corners, crossmember not included, with or without driver.
- E. Unibody Leaf Spring Cars are not allowed.
- F. If for an unforeseen reason a unibody car did fit within the rules and was considered allowable for the Pure Stock class, you would not be allowed to remove factory sheet metal of the unibody frame structure and install tubing. Must be stock as delivered from OEM manufacturer.
- G. 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 clip will have a Chevy rear clip, Chrysler / Dodge front clip will have a Chrysler / Dodge rear clip, both shall be from the same year range or generation of the frame in question).
- H. Wheelbase 108" minimum and must not be shorter than 108" wheelbase on the left or right side.

8. **FUEL / FUEL CELL**

- A. Standard unaltered race fuels and pump gas is allowed. Your fuel can be tested at any time with a hydrometer or Digatron FT-64 fuel tester.
- B. Oxygenated fuel additives are not allowed (Examples: NO2, benzene, nitromethane, Coxoc, etc.). Fuel testing can be performed at Birch Run Speedway. Any fuel not meeting the requirements will be a disqualification.

Allowable Specific gravity & ranges listed below

87 / 93 octane unleaded pump gas 0.720 to 0.770 @ recommended temperature

108, 110, 112 leaded race gas, VP, Sunoco, Renegade, Turbo Blue, Gulf, Torco, etc. 0.7050 to 0.743 @ recommended temperature

Common E85 pump gas 85% blend, 0.790 @ recommended temperature

Not allowed

Methanol, also known as methyl alcohol, 0.791 to 0.807 @ recommended temperature

Ethanol, racing ethanol, denatured ethanol, absolute ethanol, anhydrous ethanol, Methanol based racing alcohol, 0.7962 @ recommended temperature

Nitromethane, 1.127 to 1.139 @ recommended temperature

- C. All cars must have a made for racing fuel cell securely mounted in the trunk area of the car, "NOT" fastened to just sheet metal, must be securely mounted with tubing, brackets etc. welded in place, 1/8" X 1" straps or flat stock front can also be added as secondary measure of safe fuel cell mounting, 1" square tubing, 0.095 minimum thickness, welded to the frame for fuel cell to be bolted to is considered safe. If fuel cell mounting is deemed unsafe your car will not be allowed to race until the repair is made.
- D. Fuel cell must have a minimum ground clearance of 8"
- E. Fuel lines may not pass through the driver's compartment.
- F. Electric fuel pumps are not allowed.
- G. A fully sealed firewall must separate the trunk and drivers compartment.

9. RADIATOR

- A. 1 radiator allowed.
- B. Radiator must vent into catch-can or mount overflow tube at the windshield in clear view of officials.
- C. Antifreeze is not allowed. Antifreeze found in your race car cooling system is an immediate DQ.

10. REAR AXLE

- A. Rear end drive axle, stock trailing arm mounts as delivered from the factory in brand, make and model. No intermixing of brands, it will be Ford to Ford, Chevy to Chevy, Dodge / Chrysler to Dodge / Chrysler. Ring & pinion 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 or spring rubber are allowed. No coil overs 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. 1 Stock type shock per wheel mounted in the stock location with 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 Shock: weight penalty will be 1 to 2 shocks add 25 lbs., 3 to 4 shocks add 50 lbs.
- D. All control arms trailing arms must be stock for make and model of your car and all be same length as it was from the OEM manufacturer. Alterations to these parts are not allowed, welding the pressed in ball joint in the A-arm is allowed for safety reasons.
- E. Stock cast iron spindles only & same type left and right, any other spindles are not allowed. Cutting, welding, and Ackerman adjustments to steering arms or changing pin inclination not allowed.
- F. Driver actuated weight jacking devices are not allowed.
- G. Driver adjustable devices are not allowed.
- H. Electronic or hydraulic traction control devices are not allowed.

- I. Steering of stock originated parts, OEM or stock replacement, aftermarket steering shaft and tie rod sleeves with jamb nuts will be allowed.

13. TIRES

- A. Towel City 89A Recap
- B. ALL tires in competition at Birch Run Speedway must be significantly internally powdered or have an internal chemical sensitive stamp.
- C. Use of tire softening or altering chemicals is not allowed.(Refer to tire document for your specific class tires)
- D. Birch Run Speedway reserves the right to make the final decision on any or all tires to be allowed in competition at Birch Run Speedway. BIRCH RUN SPEEDWAY TRACK OFFICIAL DECISION IS FINAL

14. TRANSMISSION

- A. Stock automatic transmission is required. Power glides are not allowed, C4 Ford is not allowed.
- B. 12" diameter converter minimum. Owosso Speedway reserves the right to inspect or weigh any converter at any time or have a 3rd party inspection performed.
- 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 mandatory.

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. Lug stud threads must be exposed outside the lug nut, if lug stud threads are not visible outside the lug nut you will not be allowed to race.
- D. Wheel spacers are allowed, maximum overall tread width front & rear is 78" +/- 1" outside of tire to outside of tire at spindle pin centerline.

16. WEIGHT

- A. Car must maintain a minimum total weight of 3450 lbs. with driver in car pre-race and pre-qualifying.
- B. Maximum left side weight is 55% with driver pre-race (all driver equipment in driver's lap or on driver, including helmet, Hans etc. driver must have hands on steering wheel or hand's on helmet in lap, you will not be allowed to lean or grab bars in car, 1 warning only & you will not be given qualifying time in any session of practice / qualifying)
- C. Maximum rear weight is 50% with driver (same restrictions as rule B)
- 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 white on all sides with car number, one side.
- 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. Race Tire Policy All Classes Hoosier / DOT / Towel City

1. Tire tampering to soften or enhance tire performance, will carry strict penalties
2. All Hoosier, Towel City, or DOT tires in competition at Birch Run Speedway will have a solvent sensitive stamp or be significantly internally powdered to indicate if solvents were used in or on the tire.
3. All Classes Hoosier, Towel City, and DOT race tire policy & inspection procedure. Tampering or softening tires with chemicals or solvents is not allowed.
 - a. This rule applies to all Hoosier, Towel City, or DOT impound or non-impound tires in the pits, on the car, in the trailer, in the hauler, etc. "ALL tires"
 - b. All Tires may be checked at any time.
 - c. A race team that uses a tire other than the designated tire allowed / approved per your specific class rules will automatically receive an offence for tire tampering.
 - d. No softening, soaking, conditioning, siping, grooving, to enhance performance of race tires.
4. Testing procedure for race tires is as follows:
 - a. Tire(s) will be collected after feature event.
 - b. Tire(s) will be cleaned in the area of officials choosing. Cleaning will be done by the team with the teams own cleaning tools.

- c. Cleaned tire inspection area will be heated with heat gun, to the temp of 200* Fahrenheit and then checked with a durometer.
- d. Tire durometer will be used to determine what tire / tires will be sampled and sent to laboratory for testing.
- e. When tire samples are sent to the lab, all Winnings and points will be frozen until results are received.
 - i. Final lab results that produce a failed sample inspection, no winnings or points will be awarded, and the team will receive their discipline for tire tampering.
 - ii. Final lab results that produce a clean un-failed tire sample inspection, upon receiving cleared inspection results from laboratory, all winnings held will be rewarded.
- f. Tire samples can be taken at any time, before, during, or after the event.
- g. Tire Samples will be put in an evidence vial per Blue Ridge Laboratories Inc. & then sealed in an evidence bag and sent to: Blue Ridge Laboratories Inc., 2766 Blue Creek Road, Lenoir, NC 28645.
- h. Birch Run Speedway will tag all sampled tires with a serial number cable tag.
*Birch Run speedway will retain all tires sampled till tire sample results are received.
- i. *Birch Run speedway will not return any tire / tires to a race team if they produce failed test results, a tire that produces a failed test result will become Birch Run speedway property, race team has no option to redeem it.
*Birch Run speedway will return all tires that produce a clean or passing test result to the race team.
*Birch Run speedway will not be liable for or replace any tires that test samples are taken from, Regardless of tire or tires testing / sample results.
*Birch Run speedway will award race team with a D.Q. for failed tire sample results, further discipline depending on the severity of the tire tampering violation is at the discretion of Birch Run Speedway officials, all decisions are final and cannot be appealed or protested.

18. Conduct or Behavior Zero Tolerance

19. Birch Run Speedway officials have a zero-tolerance policy for unnecessary events that take place anywhere on Birch Run Speedway property, on track or in the pits, such as but not limited to:

- A. Arguments.
- B. Unnecessary behavior of any kind.
- C. Intentional / Aggressive contact between cars on track, during a caution will not be tolerated, the driver or driver's intentionally making contact with another race car under caution will receive the black flag, you will not be scored & sent to their pits.
- D. Vulgar language.
- E. Threatening other racers, teams, help or family.
- F. Going to another race teams pit to argue.
- G. Unnecessary speed in pits with your race car.
- H. Bumping others race cars with your race car in pits expressing your anger.
- I. Unnecessary actions toward Birch Run Speedway officials, about tech decisions or on track decisions.
- J. DRINKING OF ALCOHOL IN PITS BEFORE RACE NIGHT IS FINISHED, AUTOMATIC DQ
- K. If security is called, fines, penalties or discipline is to the discretion of Birch Run speedway officials.
- L. If argument or unnecessary actions continue, fines, penalties or discipline is once again, to the discretion of Birch Run speedway officials.

THE ABSENCE OF A PARTICULAR RULE DOES NOT SUBSTANTIATE ITS APPROVED FOR COMPETITION

"BIRCH RUN SPEEDWAY OFFICIALS, DECISION IS FINAL ON ALL RULES & DECISIONS"

*** RULE INFRACTIONS PER CLASS OR GENERAL RULES.**

*** OCCURANCES ON TRACK OR IN PITS.**

*** NOT OBEDIENCE TO THE DIRECTION OF RACE CONTROL.**

"NO DECISION WILL BE APPEALED OR REVERSED" ARGUMENTS WILL NOT BE TOLERATED!!

*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.