



2022 PURE STOCK RULES

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 agreed to and complied with these rules. NO EXPRESSED OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM THE PUBLICATIONS OF OR COMPLIANCE WITH THESE RULES AND/OR REGULATIONS. They are intended as a guideline for the conduct of the sport and are in no way a guarantee against injury or death to a participant, spectator or official.

Speedway Management shall possess the sole power to permit reasonable and appropriate deviations from the standards set within these rules. NO EXPRESSED OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM SUCH DEVIATIONS. Decisions regarding interpretation and/or deviation of/from these rules by Speedway Management are made at their discretion and are final.

1. GENERAL SAFETY

- 1.1. Westhold Transponders and RaceCeiver type one-way radio receivers are required any time on the track, including Hot Laps, Heats, B's / Last Chance, Features
- 1.2. Fire System (RECOMMENDED) or working fire extinguisher required within reach of driver while strapped into car
- 1.3. Snell-rated SA2015 or SA2020 helmet required
- 1.4. SFI-approved full fire suit, fire retardant gloves, shoes, and head & neck restraint (neck brace ok) REQUIRED
- 1.5. Minimum three-inch wide SFI-approved five-point safety belt system required (two-inch shoulder harness OK with approved head & neck restraint system)
 - 1.5.1. Safety belts must not be more than three years old from date on SFI tag, no more than two years recommended
- 1.6. Roll bar padding (fire retardant recommended) required in driver compartment
- 1.7. Electrical Master Kill Switch required within easy reach of driver with clearly marked 'ON' and 'OFF' positions
- 1.8. Properly mounted weight!!
 - 1.8.1. All weights must be mounted with at least two 0.500" Grade 8 bolts
 - 1.8.2. NO WARNINGS FOR IMPROPERLY MOUNTED WEIGHT – ANY INCORRECTLY MOUNTED WEIGHT WILL BE GROUNDS FOR IMMEDIATE DISQUALIFICATION FROM THE EVENT WITH POSSIBLE FURTHER PENALTY
- 1.9. All cars must have a 16x20-inch minimum window net

2. APPEARANCE

- 2.1. All cars must be numbered with large, legible numbers on both sides, the roof, and on the nose and tail panel.
 - 2.1.1. Side numbers should be in contrasting color from the body and at least 4 inches thick and 18 inches tall



2.1.2. Roof numbers should be at least 4 inches thick and 24 inches tall

2.2. 2-inches centered between frame rails

3. BODY

3.1. Bodies must be stock appearing; panels may be replaced with stock appearing steel or aluminum aftermarket panels (18 or 20 gauge). Example: Five star or Performance Bodies stock replacement panels.

3.2. Small bow to hood over engine is allowed for accommodation of aftermarket hoods, but breather cannot protrude above stock hood line height.

3.2.1. No holes in the hood for air flow are allowed

3.3. No wings, skirts, air scoops, or anything that alters stock appearance.

3.4. Body must be located within +/-1 inch of the original body mount rubber bushing

3.5. No spoilers

3.6. Enclosed cockpit OK

3.7. Front windshield visor is allowed – Maximum 7-inches

3.8. Doors must be bolted or welded shut, sunroofs and T-Tops must be reinforced and enclosed.

3.9. All glass, plastic, upholstery, lights, mirrors, and trim must be removed.

3.10. Front inner fender wells may be removed.

3.11. Car must have A, B or C pillars.

3.12. Front and rear firewall, and floor pan must remain stock

3.12.1. Must be full and complete and remain in stock location

3.12.2. Floor pan may be cut for roll cage installation clearance only

3.12.3. All openings must be covered with 20-gauge steel to isolate the driver

3.12.4. Any rusted out or partially missing floor pans may be replaced or patched with 18-gauge steel

3.13. Front and rear outer fenders may be cut for wheel and tire clearance

3.14. Trunk floor and truck bed floor may be removed.

3.15. Inner skin may be removed from hood, truck lid, and doors

3.16. Hood and trunk must be secured with hood pins, no holes allowed in hood except for hood pins

3.16.1. Hood and trunk must open without the need for tools – i.e. no bolted hoods or trunks

3.17. Must start each race night with all body panels including hood, trunk lid, fenders, nose or tail piece, and bumpers

3.18. Cars with floppy or loose body parts considered as a safety hazard will not be allowed to compete until requested repairs are made



- 3.19. A minimum of three vertical windshield bars are required in front of driver, must be steel bars minimum 3/8-inch OD (also required on passenger side if passenger is in car)
- 3.20. No roof rake allowed - must remain as OEM produced

4. ROLL CAGE

- 4.1. Must use a minimum 1.500-inch x 0.095-inch steel tubing for main cage and door bars
 - 4.1.1. No aluminum or other metals allowed for cage construction
 - 4.1.2. No square tubing or pipe (galvanized or black) allowed in main cage construction
- 4.2. No offset cages allowed
- 4.3. All roll cage connections must be completely welded
- 4.4. Front hoops around engine area OK
- 4.5. No adjustable bars or slip joints in the frame or cage allowed
- 4.6. Full-perimeter 4 post roll cage design with continuous hoops required
 - 4.6.1. Must have diagonal bracing within main hoop plane
 - 4.6.2. Front down bars must be tied together
 - 4.6.3. Must have rear down bars from top of main hoop down to chassis
 - 4.6.4. Driver's head must not protrude above roll cage when strapped into seat with helmet on
- 4.7. Minimum 3 horizontal door bars required on left (driver's) side
- 4.8. Minimum 2 horizontal door bars required on right (passenger's) side – (3 recommended)
- 4.9. Door plate required from top door bar down to frame
 - 4.9.1. Must extend from main hoop to 6-inches in front of seat
 - 4.9.2. Minimum 18-guage (0.049-inch) steel material
 - 4.9.3. Must be welded in place
 - 4.9.4. Must be visible for inspection
- 4.10. Must have fuel cell protection bar behind fuel cell and inside trunk area

5. FRAME

- 5.1. Any American made OEM 1964 or newer
- 5.2. Full Frame or Unibody OK
- 5.3. Must be rear wheel drive only
- 5.4. Passenger cars and trucks allowed
 - 5.4.1. S-10 / Ranger OK
 - 5.4.2. Camaro OK
- 5.5. Minimum wheelbase is 108-inches +/- 1-inch side to side
- 5.6. Unibody cars must connect front and rear subframes



5.7. Truck chassis may be C-notched and may flip rear end on leaf springs for lowering purposes

5.7.1. May relocate upper shock mounts to accommodate flip

6. NERF BARS

6.1. One nerf bar allowed per side

6.2. Must not exceed 1.500-inches from body

6.3. May be constructed of square, rectangle, or round tubing

6.3.1. Maximum 1.500-inch O.D.

6.4. Must be rounded or capped with no sharp edges

6.5. Lexan decal protectors OK, must be mounted flush to body

7. BUMPERS

7.1. Stock type front and rear bumpers

7.2. Fabricated front and rear bumpers allowed with aftermarket plastic nose and tail pieces

7.2.1. All supporting material must be inside nose / tail piece

7.2.2. Must have visible tow chain or cable for wrecker hookup on front and rear

7.3. No cattle guard front or rear bumpers

7.4. No sharp edges

7.5. Must be rounded or capped to prevent hang ups

7.6. Must have loop or chain front and rear for wrecker hookup

8. Suspension

8.1. Front and rear suspension must be stock for make and model of frame

8.1.1. No modifications or alterations allowed

8.2. GM Metric chassis may use non-adjustable, bolt on tubular upper control arms (IMCA TYPE) with steel cross shafts allowed

8.2.1. Must be 8-inch or 8.500-inch length only

8.2.2. Must bolt directly to stock, unaltered mount on frame (shims ok)

8.3. Non-GM Metric chassis may use stock length, or minus 0.500" from stock length, non-adjustable steel tubular control arms with steel cross shafts

8.3.1. Must bolt directly to stock, unaltered mount on frame (shims ok)

8.3.2. Must have bolt in ball joint

8.4. All suspension mounts on chassis must remain stock and unaltered

8.5. Ball joints must be OEM replacement

8.5.1. Must remain stock dimensions

8.5.2. No low friction or rebuildable ball joints allowed

8.6. Upper and lower A-Arm bushings may be replaced with OEM type rubber bushings only

8.6.1. No offset, spherical, low friction, solid, or drilled bushings allowed

8.7. No Heims allowed on any suspension component



- 8.8. Aftermarket steel racing coil springs OK – minimum diameter 5.00-inch
 - 8.8.1. Maximum 14-inch-tall rear springs
- 8.9. No adjustable spring spacers or adjustable weight jacks of any kind allowed
- 8.10. No bump stops of any kind allowed, including stock
- 8.11. Leaf spring chassis may run any steel, non-adjustable replacement leaf springs
 - 8.11.1. May use aluminum, non-adjustable lowering block, 2-inch maximum
 - 8.11.2. Must use OEM type rubber bushing on front and rear of spring
 - 8.11.3. No sliders allowed
- 8.12. Sway bars allowed – must be OEM mounted in OEM locations

9. SHOCKS

- 9.1. OEM stock mount replacement shocks only
- 9.2. Steel shocks only
- 9.3. Bilstein, KYB, Monroe type shocks only
 - 9.3.1. No dedicated racing shocks allowed
- 9.4. No air shocks
- 9.5. Shocks must have welded stock type rubber ends
 - 9.5.1. No screw on rod ends or rubber adapters
 - 9.5.2. Shocks must not be rebuildable, adjustable, or special order
- 9.6. All shocks must fully compress and extend at any time
- 9.7. No shocks spacers allowed
 - 9.7.1. Shock must mount in stock location, front and rear

10. REAR END

- 10.1. Rear end must be stock OEM for make and model of car
- 10.2. OEM brackets must be used in stock locations
- 10.3. Control arms may not be lengthened or shortened
- 10.4. Any gear ratio is allowed as long as the housing does not require alteration to accept it
- 10.5. Rear end must be locked
 - 10.5.1. Bolt in mini spools or welding OK
 - 10.5.2. No full spools
 - 10.5.3. No limited slip or Detroit locker type differentials allowed
- 10.6. Aftermarket axles OK as long as they fit into stock housing and carrier

11. STEERING / DRIVER AREA

- 11.1. Steering box must remain in stock location
- 11.2. Aftermarket steering wheel and quick release steering coupler required
- 11.3. Quick steer boxes are allowed
- 11.4. Aftermarket power steering pumps OK, but must have integrated tank



- 11.5. All components must be steel, unaltered OEM in OEM location, and match frame with the following exceptions
 - 11.5.1. Tie rod end adjusting sleeve may be replaced with 5-inch steel tube
 - 11.5.2. Replacement spindle with SPEEDWAY MOTORS raised cast PN 91034501
 - 11.5.3. Bolt on OEM spindle savers allowed
- 11.6. No part of the driver's seat may be further back than 25-inches forward of the driver's side axle tube
- 11.7. Factory manufactured aluminum racing seats only – NO FIBERGLASS OR STOCK SEATS ALLOWED
 - 11.7.1. Must be mounted with minimum 0.375-inch Grade 8 bolts and washers
- 11.8. No knobs, handles, or levers other than the gas and brake pedals allowed for adjustment of carburetor, ignition timing, or brakes

12. ELECTRICAL / IGNITION

- 12.1. One 12-volt battery only
 - 12.1.1. Must be mounted securely between frame rails in trunk area
 - 12.1.2. No voltage generators in series with ignition system allowed
 - 12.1.3. Voltage at distributor may not be more than battery (12 volts)
 - 12.1.4. Electrical Master Kill Switch required within easy reach of driver with clearly marked 'ON' and 'OFF' positions
- 12.2. One (1) stock type distributor, module, and coil in stock location only
 - 12.2.1. Open circuit board modules are not allowed
- 12.3. Ignition switch must be clearly marked for ON/OFF positions
- 12.4. No traction control devices of any kind allowed
- 12.5. No electronic gauges or tachs allowed

13. FUEL / FUEL SYSTEM

- 13.1. Pump gasoline only, NO methanol, e-85, or race gas
 - 13.1.1. All competitors are subject to fuel testing at the track's discretion
- 13.2. None of the following chemicals are allowed in any fuel used for competition – Nitrous Oxide, Propylene Oxide, Nitroethane, MTBE, Hydrazine, or Ethyl Hexanol
- 13.3. Fuel cell must be securely mounted in the trunk with no part of the cell forward of any part of the rear end
 - 13.3.1. Maximum 22 gallons
 - 13.3.2. Must be in a steel container
 - 13.3.3. Must be mounted with a minimum of two 2.00-inch x 0.125-inch steel straps
- 13.4. Fuel cell must be visible for inspection purposes from the top through the removable truck lid
- 13.5. Fuel cell vents, including cap vents, must have check valves



- 13.6. Fuel cell must have aircraft style positive seal filler neck / cap system with ball-type, flapper, or spring rollover valve
- 13.7. Fuel lines passing through the driver's compartment must be enclosed in metal tube
- 13.8. Fuel filters are not allowed in the driver's compartment
- 13.9. Aftermarket mechanical fuel pumps OK
 - 13.9.1. Must mount in stock location and be pushrod activated
 - 13.9.2. May not clearance frame to accommodate aftermarket fuel pump
 - 13.9.3. No electric fuel pumps allowed

14. ENGINE

- 14.1. All engines must be mounted in stock location
 - 14.1.1. Solid mounts OK
 - 14.1.2. No full mid plates allowed
 - 14.1.3. No LS based engines allowed
 - 14.1.4. No Edelbrock or Stewart PRO series water pumps – stock style replacements only

14.2. ENGINE OPTION #1

- 14.2.1. Any OEM factory production small block, cast iron V-8 engine allowed
 - 14.2.1.1. Maximum 364 cubic inches
 - 14.2.1.2. Must use factory bore x stroke combination
- 14.2.2. No aftermarket blocks allowed
 - 14.2.2.1. 2 or 4 bolt mains allowed
 - 14.2.2.2. No splayed bolt main caps allowed
- 14.2.3. Engine bolts may be aftermarket
- 14.2.4. Engine balancing OK
- 14.2.5. Stock replacement 2 or 4 valve relief pistons OK
 - 14.2.5.1. No lightweight pistons or wrist pins allowed
- 14.2.6. OEM or OEM replacement 5.700-inch connecting rods only
 - 14.2.6.1. Aftermarket bolts OK
- 14.2.7. OEM or OEM replacement standard weight crankshafts only
 - 14.2.7.1. Minimum weight 48 pounds
 - 14.2.7.2. No bull nosing, lightening holes, or knife edging allowed
 - 14.2.7.3. Maximum stroke 3.500-inches
- 14.2.8. Aftermarket oil pans Ok
 - 14.2.8.1. Must have 1-inch inspection plug on left side, located to allow tech inspection of rotating assembly using a bore scope while engine is in car



- 14.2.8.1.1. If tech is not able to see all required components, competitor will have to remove oil pan or engine as required to complete inspection
- 14.2.8.1.2. Failure to remove required components to complete inspection will result in disqualification
- 14.2.9. OEM type timing chain systems only
 - 14.2.9.1. Double roller OK
 - 14.2.9.2. No gear or belt drives allowed
- 14.2.10. Aftermarket harmonic balancer OK
- 14.2.11. Maximum engine cranking compression is 175psi
 - 14.2.11.1. For testing, the engine will be spun by the starter for 5 “hits” on the cylinder being tested, at full throttle
 - 14.2.11.2. Tech official’s instrument readings are final
- 14.2.12. Cylinder Heads**
 - 14.2.12.1. OEM production, unaltered cast iron cylinder heads only
 - 14.2.12.2. Minimum 72cc combustion chamber
 - 14.2.12.3. OEM casting number must remain on head
 - 14.2.12.4. No Vortec, double hump, or other closed chamber heads allowed
 - 14.2.12.5. 305 heads allowed on 305 engines only
 - 14.2.12.6. Maximum 1.940-inch intake and 1.500-inch exhaust valves
 - 14.2.12.6.1. Exception – 1.630 exhaust valve allowed on Chrysler engines
 - 14.2.12.7. Heads may be flat milled only
 - 14.2.12.8. No Angle Milling allowed
 - 14.2.12.9. Maximum valve spring O.D. is 1.250-inch
 - 14.2.12.10. Screw in studs, guide plates, and poly locks OK
 - 14.2.12.11. 1.5 or 1.6 ratio, stamped steel rocker arms only
 - 14.2.12.12. No roller tip or full roller rockers allowed
 - 14.2.12.13. No grinding of any kind allowed on heads – no gasket matching, porting or polishing
 - 14.2.12.14. Aftermarket valve covers with breathers OK
 - 14.2.12.15. Oil diverters under valve covers OK
- 14.2.13. Intake**
 - 14.2.13.1. Stock, unaltered cast iron or aluminum OEM intake only
 - 14.2.13.2. No aftermarket, bowtie, marine, or high-rise intakes allowed
 - 14.2.13.3. No internal modifications allowed – no grinding, porting, or polishing
 - 14.2.13.4. Must have 0.250-inch accessible vacuum port on intake for tech
- 14.2.14. Camshaft and Lifters**
 - 14.2.14.1. Hydraulic camshaft and hydraulic flat tappet lifters only



14.2.14.2. No hydraulic, Rhodes, variable duration, or “bleed down” type lifters allowed, even if OEM

14.2.14.3. Maximum valve lift is 0.450-inch, measured at the steel retainer

14.2.14.3.1. Solid lifter will be used for tech

14.2.14.4. Maximum push rod length is 7.800-inch for GM

14.2.14.5. OEM Firing Order only – GM 1-8-4-3-6-5-7-2

14.2.14.6. Engine must have minimum 15 inches of vacuum at 1200 engine RPM –
NO TOLERANCE

14.2.14.6.1. No vacuum canisters or other vacuum generating devices allowed

14.3. ENGINE OPTION #2 – GM “602” CRATE ENGINE

14.3.1. Crate engines must utilize MSD 8727ct rev control box, set @ 6200 RPM

14.3.2. Chevrolet Performance Parts # 88958602 / 19258602 / 88858602 (CT350) “602”

14.3.3. These engines are / must be sealed at the intake, cylinder head, timing cover, and oil pan with approved seals

14.3.4. The ONLY seals allowed for competition are

14.3.4.1. Chevrolet Performance cap seals

14.3.4.2. Crate USA GEN IV (green) or GEN V (black) cable seals, RUSH cable seals, IMCA cable seals

14.3.5. GM TWIST OFF BOLT SEALS ARE NOT LEGAL

14.3.5.1. ACAS, NDRA, CRATE USA GEN I (silver), GEN II (blue), or GEN III (yellow) seals ARE NOT ALLOWED

14.3.6. Competition with any other seal / sealing system must receive prior approval from tech officials

14.3.7. Crate engines must use valve covers and oil pan shipped from GM on engine

14.3.8. ANY ALTERED, DAMAGED, OR MISSING SEALS WILL RESULT IN DRIVER BEING DISQUALIFIED FROM THE EVENT, LOSS OF ALL TRACK POINTS AND \$1000 FINE TO BE PAID IN FULL BEFORE PARTICIPATING IN FURTHER EVENTS

15. CARBURETOR

15.1. All engine combinations must use a single, unaltered Holley 4412, 500cfm, 2-barrel carburetor

15.1.1. No 4412 Ultra XP or HP, no Quadrajets, other 4-barrels, or fuel injection allowed

15.2. Removal of choke flap is the only modification allowed

15.3. No modification to shafts, throttle blades or boosters (including location),

15.4. Must pass inspection with tech official’s GO-NOGO gauges

15.5. Single carburetor adapter mounted directly to the intake and carburetor with a maximum thickness of 1-inch OK



- 15.6. Maximum 2 total mounting gaskets allowed – 1 under adapter and 1 under carburetor
 - 15.6.1. Maximum gasket thickness per gasket is 0.070-inch
- 15.7. Maximum 14-inch O.D. x 4-inch high air cleaners allowed
- 15.8. No ram air of any kind allowed

16. EXHAUST

- 16.1. Stock, cast iron exhaust manifolds or specified aftermarket headers only
- 16.2. Schoenfeld headers PN 185, 185CM2, 165A, 165ACM2 are the only approved headers allowed
 - 16.2.1. These headers will fit almost any GM application – for any other application prior tech approval must be obtained prior to racing
- 16.3. Exhaust pipes must turn down toward ground or extend past driver's compartment
- 16.4. No coating, porting, acid dipping, or modifying of manifolds or headers allowed

17. TRANSMISSION & DRIVE LINE

- 17.1. OEM production type transmissions only
 - 17.1.1. No 5 or 6 speed or overdrive transmissions allowed
- 17.2. All forward gears must function on all transmissions
- 17.3. All transmissions must have forward, neutral and reverse in working order
- 17.4. No aluminum or light weight flywheels
- 17.5. Automatics must have minimum 11-inch diameter working torque converter
- 17.6. No "Dummy" torque converters
- 17.7. No direct drive automatic transmissions allowed
- 17.8. Automatics must, with engine at idle and brake applied, shift from Neutral to Forward and Neutral to Reverse gears without causing engine to stall – car must remain stationary during such shifting
- 17.9. Transmission coolers OK
 - 17.9.1. Must be shielded to protect driver in case of leak if mounted in driver's compartment
- 17.10. Standard transmissions must use a minimum 10.500-inch clutch assembly with an OEM or OEM replacement steel flywheel
- 17.11. Standards must use approved explosion proof steel bellhousing that covers minimum 180 degrees over the top side of the clutch assembly
- 17.12. Aftermarket clutch pedal, hydraulic master cylinder and throw out bearing OK
- 17.13. All drive shafts must be steel and minimum diameter of 2.500-inches



- 17.14. All drive shafts must be painted white
- 17.15. Driveshaft loop required 6-inches behind front u-joint
 - 17.15.1. No chain loops allowed

18. BRAKES

- 18.1. May use any single master cylinder
- 18.2. Aftermarket pedal with single master cylinders OK
- 18.3. Must have at least 3 working brakes – Right Front may be blocked
- 18.4. No brake pressure gauges allowed
- 18.5. No electric or manual cut off switched or valves allowed in reach of driver
- 18.6. Disc brakes allowed in rear
 - 18.6.1. Must use steel, stock type rotors
- 18.7. No aluminum or composite rotors or calipers
- 18.8. No scalloped, drilled, or slotted rotors allowed, even if factory equipped
- 18.9. Must have a rotor or drum on all 4 corners of car
- 18.10. No lightening of components
- 18.11. Optional single, manual brake shut off for Right Front allowed to be mounted under the hood – no electric shut offs allowed

19. TIRES & WHEELS

- 19.1. Any 15-inch diameter x 8-inch wide steel wheel allowed
- 19.2. No beadlocks or tire screws allowed
- 19.3. 0.625-inch studs and 1.00-inch lug nuts required
- 19.4. Maximum 1.00-inch combined wheel spacer allowed per corner
 - 19.4.1. Must have exposed threads through lug nuts with spacer in place
- 19.5. Tires
 - 19.5.1. 8-inch asphalt take-offs, Hoosier G-60, American Racer KK704 and Hoosier H500 (26.5 & 27.0 Only) are the only tires allowed
 - 19.5.1.1. Grinding, siping, and grooving is allowed
 - 19.5.1.2. No chemical softening or conditioning allowed
 - 19.5.2. 105 MOTOR SPEEDWAY RESERVES THE RIGHT TO TEST TIRES AT ANY TIME WHILE COMPETITORS ARE ON SPEEDWAY GROUNDS

20. RADIATOR / COOLING

- 20.1. One radiator in stock location only
- 20.2. Aluminum radiator OK
- 20.3. Water pump mounted, mechanical fans only – NO ELECTRIC FANS

21. WEIGHT / BALLAST



- 21.1. Minimum weight, after race with driver is 3200 pounds (three thousand two hundred)
- 21.2. Weight must be securely added in trunk, under hood, or outside of driver's compartment
- 21.3. Must not be in plain view or within the driver's compartment
- 21.4. Must be painted white with car number on each piece
- 21.5. **No barbell weights allowed**
- 21.6. No weight mounted to rear end housing
- 21.7. All weights must be mounted with at least two 0.500" Grade 8 bolts
- 21.8. Maximum 50 pounds per 2x 0.500-inch bolts
- 21.9. **NO WARNINGS FOR IMPROPERLY MOUNTED WEIGHT – ANY INCORRECTLY MOUNTED WEIGHT WILL BE GROUNDS FOR IMMEDIATE DISQUALIFICATION FROM THE EVENT WITH POSSIBLE FURTHER PENALTY**