



Non-Wing Sprint Cars

TECHNICAL SPECIFICATIONS

13.1 Sprint Car Specifications

1) Car Construction

- a) Only normal traditional Sprint Car bodies will be permitted.
- b) Supermodified or Roadster-type bodies are not permitted.
- c) No rear-engine sprinters or wings.
- d) No off-set chassis are allowed. The engine must be on the chassis centerline. The driveline and rear axle center section must be on the chassis centerline. A maximum of 1/2 inch offset (one inch overall) from center and one degree from vertical will be allowed.
- e) All cars shall be rear-wheel drive only.
- f) All cars **MUST** be equipped with roll cages. Cars **MUST** have a full belly pan. Additionally, all cars **MUST** utilize a blanket or similar material underneath the oil pan. Fuel Cell with Bladder is mandatory.
- g) Independent suspension is not permitted.
- h) Fuel tanks may not protrude from the body of the car, nor shall they cause lines of the car to be altered out of shape or exposed outside the body, and **MUST** be in a standard, safe location.
- i) The wheelbase must be at least 83 inches and no more than 92 inches. Centerline rear axle to front king pin center line
- j) The rear axle offset shall be determined by measuring from the farthest portion of the wheel, including beadlock bolts, to the centerline of the rear axle centerline assembly. The **MAXIMUM** distance allowed is forty-four (44) inches.
- k) The total overall width is seventy-eight (78) inches, front and rear.
- l) The floor/belly pan may not extend rearward past the leading edge of the rear axle and must be flat from side to side without any aerodynamic aids. Horizontal panels may not extend below the plane of the floor/belly or fuel tank. The belly pan may not extend past the frame rails except for in conjunction with the front splitter rules.
- m) There shall be no undertrays allowed. Only a single belly pan is permitted.
- n) Nerf bars cannot extend beyond the outside edge of tires at any time.
- o) Cars must have a front bumper, rear bumper, left side nerf bar, right side nerf bar at all times.

- p) Front bumper and nose assembly, including splitter, may not extend forward more than 28 inches from the leading edge of the front axle.
- q) All cars **MUST** weigh a minimum of 1,450 lbs with the driver before, during, and after qualifications, B-main and A-main.
- r) Throttle toe straps are mandatory. In addition, a minimum of two (2) return springs must be connected to the throttle and at least one of these must be connected to the butterfly shaft.
- s) No electronic controlled brake bias adjuster. (manual adjustment only) No digital readouts.

2) Bodywork

- a) Right-side cockpit panels **MUST** be a **MAXIMUM** of thirty-eight (38) inches high at the center of the opening as measured from the top of the bottom mainframe tube at the engine plate. The opening **MUST** be parallel with the top frame tube until it reaches the seat back.
- b) Left-side cockpit panels may be (38) inches high, measured from the top side of the lower frame rail. The opening **MUST** be parallel with the bottom frame rail until it reaches the seat back.
- c) Airfoils, wings, spoilers, or other aerodynamic appendages will not be permitted.
 - i) No turnouts or turn-ins will be allowed
 1. Exception: one flat 1" turn in that is parallel to the ground and a maximum length of 20" is allowed on the left and right arm guards. This must be a single piece.
- d) A maximum of **one side riser** is permitted on **each side** of the body panel of the hood, for a **total of two side risers** on the vehicle. Each side riser must not exceed a height of **2 inches**. Any additional side risers or side risers exceeding this height are prohibited.
- e) Number plate can have a Max of 1" side risers
- f) Sun visors are limited to nine (9) inches from the top to bottom including any tabs, extensions, etc. and cannot be wider than the cage. Sun visors cannot extend above the cage. Sun visors must be flat on both sides without any bends, wickers or aerodynamic advantages.
- g) No side visors are allowed on either side
- h) No bodywork or paneling in the cockpit of the Sprint Car.
- i) The nose assembly **MUST** not be wider than the parallel lines of the body and **MUST** not exceed the width of the front of the frame.
- j) Splitters must not extend more than 2 inches from the bottom edge of the front and sides of the nose. The splitter also must not extend rearward beyond the leading edge of the front axle. The splitter must be flat with no turn-up's or turn-downs of any kind.

3) Engines / Ignitions

- a) Engine size is limited to a maximum of 410 CID.

- b) All cars must be equipped with one (1) ignition kill switch or emergency shut-off located within easy reach of the driver.
- c) Electronically controlled fuel injection systems are not permitted.
- d) A magneto-style ignition or MSD-style ignition is permitted.
- e) One (1) switch that alternates the current between the magneto and the crank trigger may be mounted to the dash within the driver's reach.
- f) The use of any data collection device is not permitted. A tachometer with water temperature and oil pressure collection capability is the only item approved for use to collect record data. QuickCar oil/temp digital gauge permitted.
 - i) Digital dashboards of any kind are not allowed
- g) Multiple coil pack ignitions are not permitted.
- h) Electronic ignition is not permitted. All ignition system components, including but not limited to electronics, parts, and control boxes may be inspected, sealed, or confiscated at any time.
 - i) Ignition control boxes may be required to be removed and replaced with a provided Open Wheel Showdown technical teams control box at any time.
 - j) No Battery powered ignition systems.
 - k) Water radiators must be within the confines of the main frame tubes.
 - l) No starters or clutches are permitted on cars at any time.
 - m) Methanol ONLY.
 - n) Electronics that provide traction control/launch control are prohibited.
 - o) All electronic components may be inspected, sealed, or confiscated by Open Wheel Showdown technical team at any time.
- i) Series officials reserve the right to measure tires with a durometer or break down tires at any time.
- f) Soaking of tires is strictly prohibited.
 - i) Any competitor caught soaking tires will be disqualified from the event and subject to additional penalties.
- g) Competitors may use tires not purchased from the Open Wheel Showdown. **One set of tires is required to be purchased at the Open Wheel Showdown.**
- h) Requirements:
 - i) Tires **MUST** meet and be approved by Open Wheel Showdown Officials.
 - ii) Tires **MUST** have an original Hoosier barcode on the tire and be completely intact.
 - iii) Tires **MUST** not be altered in any way. .
 - iv) In the event a tire is damaged or destroyed, the following requirements apply. Open Wheel Showdown Officials will have the final say on all replacement tires.

5) On Board Cameras

- a) One onboard camera is allowed per car on race day
- b) Cameras must be securely mounted to the frame.
- c) Cameras can only be mounted to the frame of the racecar.
- d) Cameras are subject to Open Wheel Showdown officials impounding and downloading the footage received.
 - i) This footage can be used but is not limited to promotional videos on the Open Wheel Showdown website and social media channels.
 - ii) Failure to abide by allowing the footage to be downloaded can result in disqualification from that event and/or revoked privileges for utilizing cameras in the future.

4) Tires

- a) Tires limited to 20-inch cross-section maximum (measured with hoop).
- b) Digital Air bleeders are allowed but cannot be remotely controlled. Air may not be introduced to the tire from any onboard system.
- c) All cars must start the feature/A-Main on the same right rear tire that was used to qualify their car.
 - i) Cars in violation of this rule shall be moved to the rear of the field
- d) All cars must utilize Hoosier tires. Specified Hoosier Tires will be published before each event.
 - i) No softening
 - ii) No Tire Warmers are allowed.
 - iii) No altering the softness or hardness of the tire in any way will be allowed.
 - iv) No cooling of the tire other than a dry blanket to shade sun
- e) Any solvents or chemicals applied to the tire that alter the chemical makeup of the compound or have the effect of altering the tire durometer are prohibited including water.