

Thunder Valley Speedway

Wingless Sprint Car Rules 2023

- Any sprint chassis is allowed.
- The roll cage **must** be of (4) four post design.
- Dirt champ cars are not permitted.
- *All chassis are subject to tech and safety inspection at any time and will only be accepted when design, materials, and the quality of construction has met with approved practices.*
- Wall thickness of main cage tubing **must** be .095" chromoly tubing or thicker. • Minimum wheelbase is 83", maximum wheel base is 92".

BODIES

- Bodies are **required**, style optional.
- Hoods are **mandatory** and **must** cover the radiator and engine compartment.
- Belly pans or floor boards **must** extend from frame rail to frame rail and from the front fire wall to the rear of the foot area.
- Sub flooring or foot retainers **must** be attached to the frame rails and **must** keep feet inside of the car.
 - Floor boards or belly pans under the fuel cell are not permitted
- WINGS ARE NOT PERMITTED

BUMPERS

- Front bumpers, rear bumpers, and side nerf bars are **mandatory**.
- Front bumpers that extend more than 8" past the front face of the front torsion tube is not permitted.
- 8.5 ROLL CAGE
- **Must** be a minimum of a four (4) point roll cage.
- 8.6 IGNITION
- Ignition switch **must** be a toggle or push/pull type and clearly marked with ON/OFF.
 - Key type switches are not permitted.

SUSPENSION

- **Must** have at least one working shock absorber per wheel.
- Remote or cockpit adjustable and/or remote reservoirs are not permitted.

SEAT

- **Must** be a racing containment seat that meets safety standards.

STEERING

- Steering type optional.
- The pitman arm **must** be outside of cage.
- Quick release steering wheel **required**.

REAR ENDS

- Any type rear end is permitted except independent.

BRAKES

- Brake rotors **must** be made of steel, aluminum, or titanium only.

TRANSMISSION

- Any transmission or in and out box allowed.
- All drive lines **must** be broken in the coupler or rear slider.
- The drive line **must** be fully enclosed and contain no more than one U-joint or CV joint.
- Torque arm drive lines are not permitted.
- A safety hoop that is securely attached to the chassis is **required**.

FUEL DELIVERY SYSTEMS

- Carburetor permitted
- EFI permitted
- Mechanical injection permitted max 2 3/16 stacks max.
 - Reducers must be no less than 3" long.
- Fuel cell or bladder sprint car tank **mandatory**
- • A toe strap on the throttle pedal is **mandatory**.
- • Methanol
- • Gasoline
- ASCS gaskets **mandatory**
- Mufflers or insert mufflers optional

ENGINES

- Offset engines are not permitted.
- The engine **must** be directly in front of the driver.
- The driver **must** straddle the drive line.
- Cast iron blocks **only**, any manufacturer, aluminum blocks permitted in the LS version
- 360 cubic inch, variance for boring.
- 5.3 liter max for LS motors
- Flat top pistons **only**
- 250 psi max +/- 10% @ 200 rpm's (push speed)
- CYLINDER HEADS
- Cylinder heads **must** not exceed 2.02 / 1.60
- 23 degree heads only
- Cast or aluminum are both permitted
- Max rpm of 6500

- **For the 2023 season only, a ROOKIE may run any legal ASCS motor even **WITHOUT** flat top pistons with 2 3/16 stack reducers at a min of 3" long.*
 - *A rookie is considered someone who has competed **less than one full day** in a sprint car previously.*
 - *Someone that doesn't have prior open wheel or "big tire" racing experience i.e. late model, Imca modified etc.*
- Tire rule TBA by 2-15-22 (take off Hoosiers with 50% min of the tire through the wear bars or a compound on the harder side of avg as a
- Weight rule: 1475 lbs minimum with driver at the conclusion of any race.

SAFETY GEAR

- SFI rated fire suits are **mandatory**
- SFI rated gloves are **mandatory**
- SFI rated racing shoes are **mandatory**
- Arm restraints are very highly recommended
- Neck restraints are **mandatory**, HANS device is highly recommended
- Fire suppression system is highly recommend
- Full face racing helmet with a snell rating is **mandatory**