

Circus City Speedway 2021 Rules

Junior Sprint

1. **Age.** Drivers ages 6 through 12 (A driver whose 13th birthday falls during the racing season will be allowed to finish the season in which they began before their birthday) may compete in the Junior Sprint Class. Drivers age 5 with previous racing experience (karts or ¼ midgets) may race, but will start at the tail until they prove that they can handle the car safely. Race director reserves the right to allow or deny participation based on age and skill level.
2. **Roll cage.** Roll cages shall be at least 1 inch .083 wall thickness mild steel, or 1 inch .065 wall thickness chromoly steel minimum. The front section of the cage shall be no further back than the steering wheel. Roll cage shall have sufficient fore and aft bracing and strength to support the weight of the car & driver in case of an upset. Bends must have at least 3-inch radius. No square or pointed corners allowed. Roll cage must be a minimum of 3 inches above the drivers helmet to the top of the cage at any point above the drivers helmet. It is mandatory to install a cross brace behind the seat to support the shoulder harness at a point not lower than 1 1/2 " below or above the top of the drivers shoulders.
3. **Bumpers and Nerfs.** Car must have bumper extending beyond the front and rear tires. Nothing may extend beyond a tangent line from the outside edge of the tires to the bumpers. Nothing may extend beyond the outside edge of the tires or wheels, whichever is the widest. No sharp corners or design as to hook or damage. Front bumpers not parallel with front frame bar must be straightened or replaced. All cars must be equipped with nerfing bars. Nerfing bars must extend to inside edge of tires, but not beyond the outside of tire.
4. **Safety.** Seat belts must be securely attached to the car and used at all times. Metal to metal latches only. 5 point seat belts, shoulder harness and sub strap are required. Belt dates must not be over three years old (Example: Oct 15 may be used in 2016, 2017, and 2018). Arm restraints are mandatory and must be adequately adjusted to keep the drivers hands below the top of the roll cage. Helmets must be full head coverage competition type and one of the three latest SNELL approvals. All drivers will wear a name brand flame-retardant uniform. Neck braces and/or cage nets with a SFI 3.2-1 rating or higher **or** full containment seats are mandatory. SFI gloves are mandatory for safety.

5. **Cockpit Controls.** On and off switches must be on dash, top of the cowl, or on steering wheel. On/off switch must be functional and clearly marked. No radio communication is allowed with the car or the driver.

Cockpit controls: Kill switch, starter button and engine monitor. There can be **NO** driver adjustable controls in the cockpit. No wing sliders, shock adjusters, panhard mounts, radius rod mounts, or carb adjusters.

6. **Battery.** All wet cell batteries mounted in the cockpit must be covered and vented outside the cockpit area.
7. **Fuel.** Gasoline or Methanol. Performance enhancing additives are not allowed.
8. **Weight.** Minimum car and driver weight is 400lbs (Winged) and 380lbs (Non-Wing).
9. **Suspension.** Aluminum or steel body shocks are legal. Torsion bars and coil overs are legal. Adjustable shocks cannot be accessed from the cockpit.
10. **Wheelbase;** Maximum 52 inches. Minimum 50 inches, center of front axle to center of rear axle. The rear axle to be steel or splined aluminum 1 1/4" minimum diameter.
11. **Maximum Tread Width.** not to exceed 55" outside of tire to outside of tire.
12. **Steering;** Front wheels must be connected by a solid or tubular aluminum or steel tie rod. Rear wheel drive only. All suspension bolts except wheel nuts must be secured by some type of locking device.
13. **Brakes.** Brakes will be of sufficient strength so as to slide the rear wheels while the car is in motion at any given time.

14. **Tires and Wheels.** Wheels to be 8" diameter steel, or aluminum. Beadlocks allowed. All 4 corners will be Hoosier. Right rear spec tire to be Hoosier 16x8.5x8 RD 20. The Right Rear will be checked with a Durometer to a min. hardness of 42, 15 minutes after the race. Wheels must be held on with 3 or more standard lug nuts or knock-off hubs. Tires may be siped and grooved.

15. **Bodies.** All cars must have complete bodies of Sprint Car design only. Tail sections must be in place for time trials and all races. There must be a metal firewall between driver and engine, made of 24 gauge steel or .060" aluminum. Body of car must be made of aluminum, metal, fiberglass or high impact plastic. All cars must be painted an attractive color or colors. No rear view mirrors. All mechanically operated devices must be mounted below the driver's shoulders for safety. All fuel tanks must be equipped with a one-way check valve designed to prevent the spillage of fuel from the fuel tank vent in the event of a rollover.

16. **Transmission.** The drive will be by engine or jackshaft mounted clutches. No axle mounted clutches allowed. No direct drive will be allowed. Chain guards will be made of .090 inch thick aluminum or equivalent and will run on top of chain from the front of the front sprocket to the center of the rear axle. Driver must not be able to touch the chain or sprockets while sitting in the cockpit.

17. **Wings.** Right side board, maximum 42" x 20". Left side board, 42" x 20". Minimum size is 6 sq. ft. The wing cannot be mounted outside the centerline of the tires. Side boards may not extend more than 3" beyond center section and sides must cover center section. All wings must have 1/16" radius edges or edging. No raw edges. No wood except for ribs or spars inside center section. Lower front corner of the wings sides cannot be more than 4" below top of roll cage. Nose wings cannot exceed 24"x 18", and must carry car number. Top wings are mandatory to enter a night's event. Cars may finish without a wing if no replacement is available but must still meet the minimum weight requirement.

18. **Numbers.** All cars must have legible numbers on both sides of car and the nose. Minimum height of numbers is 8" on the nose or nose wing, 10" on each side of the tail, and 12" on the wing.

19. **Ballast.** Any material used for ballast must be firmly attached as a part of the car's structure/frame. No liquid or loose ballast such as water, fuel, oil, sand bags, rocks, log chains etc. allowed.

20. **Hubs.** Front hubs; Go kart type with 5/8" bearings and 5/16" wheel studs minimum. Rear hubs: 5/16 bolt minimum or splined with safety key.

21. **Engine Rules.** Briggs & Stratton World Formula engines as defined by the KSUSA engine and FIA Homologation specs. Engine may or may not be sealed, but both versions must pass Tech as defined by the previously mentioned rules upon request of a Track Official. The Briggs World Formula will use a RLV 5442S header or stock pipe and RLV 4100 silencer as defined in the KSUSA Briggs World Formula rules. Stock pipes may be cut and turned as necessary to fit the race car as long as the pipe still retains the original length, diameters, and volume as the original stock pipe.

Rules Infractions

1st Offense: Disqualification for the event.

2nd Offense: Disqualification and 2-week suspension.

3rd Offense: Disqualification and suspension for the remainder of the racing season.

Anyone that refuses to go thru tech will be disqualified and forfeit all prize money.