

# Mid Missouri Modified Midget Racing Association

## “Junior Sprint” Class Rules

### --2024--

#### GENERAL:

- a.) Briggs World Formula – Current KID Sprint Engine Rules (Rule #22)
- b.) Age 6-12 (Rule #1)
- c.) 400 Lb. Minimum Weight (Rule #8)
- d.) Sunoco Purple or Methanol (Rule #7)
- e.) Spec. RR tire (Rule #14) Tire Prep/Dope is NOT allowed
- f.) 5.5 sq. ft. Min. wing size (Rule #17)
- g.) Fuel Bladders NOT Required, but STRONGLY RECOMMENDED!
- h.) HOOSIER Tires on all 4 corners (Rule #14)



1. **Age.** Drivers ages 6 through 12 (A driver whose 13<sup>th</sup> birthday falls during the racing season will be allowed to finish the season in which they began accruing points before their birthday.) may compete in the Junior Sprint Class.
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. Cage shall have gussets at the intersecting bars to the uprights. Bends must have at least 3 inch radius. No square or pointed corners allowed. Roll cage must be a minimum of 3” 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.
3. **Bumpers and Nerfs.** Car must have bumpers 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. All cars must be equipped with nerfing bars. Nerfing bars must extend to inside edge of tires, but not more than 1 inch beyond the outside of the rear tires.
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 21 may be used in 2022, 2023 and 2024.) 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 with one of the three latest SNELL approvals (2010, 2015, 2020) or FIA 8860 or SFI 24.1 for Youth Helmets. Nomex head socks recommended. 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 Total Head containment seats are mandatory. SFI gloves are mandatory for safety. Flame retardant undergarments (long underwear, long sleeve shirt, socks and head sock) and shoes are strongly recommended.
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. No radio communication is allowed with the car or the driver. Allowable Cockpit controls: carb adjusters, kill switch, starter button and engine monitor. No wing sliders, shock adjusters or pan hard adjusters in cockpits.
6. **Battery.** All wet cell batteries mounted in the cockpit must be covered and vented outside the cockpit area.
7. **Fuel.** "Junior Sprint" Class cars may run gasoline (SUNOCO PURPLE ONLY!) or METHANOL. No performance enhancing additives are allowed!
8. **Weight.** Minimum car and driver weight: 400 lbs.
9. **Suspension.** Any shock absorber legal, except No Cockpit Adjustable Shocks.
10. **Wheelbase.** Maximum 52 inches. Minimum 50 inches, center of front axle to center of rear axle. Rear axle to be steel or splined aluminum 1 1/4" min dia.
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 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 wheels while the car is in motion at any given time.

**14. Tires and Wheels.** Wheels to be 8" diameter steel, aluminum or carbon fiber. Bead locks allowed. Wheels must be held on with 3 or more standard lug nuts or knock-off hubs.

Tires on all 4 corners will be Hoosier, Right rear tire to be the spec Hoosier RD 20. Grooving, siping and grinding is allowed on all 4 tires.

**Tire Prep/Dope is NOT allowed on any tires.**

**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 may be made of Aluminum, Metal, Fiberglass, High Impact Plastic or Carbon Fiber (Plywood & Cardboard are NOT acceptable materials). All cars must be painted an attractive color or colors. No rear view mirrors. The only part of the car allowed to be dismantled for driver to enter or exit is a quick release steering wheel hub. 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 sideboard, maximum 42" x 20", minimum 42" x 16". Left sideboard, maximum 42" x 20", minimum 42" x 18". Center Section minimum size 5.5 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 allowed 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.

**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. License.** No license is required to enter a night's event (Minimum age requirements must be met, Rule #1).

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

**21. Hubs.** Front hubs; Go kart type with 5/8" bearings and 5/16" wheel studs minimum. Rear hubs: Douglas 5 x 130 Go kart type or equivalent.

**22. Engine Rules.** Briggs & Stratton World Formula engines as defined by the current **KID SPRINT Engine Rules**. Engine 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. 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. **You may run Stainless Exhaust Valves (Stock size) and Inserted After Market Rods (Stock size).**

*(Should the header or muffler become disconnected from the engine or fall off of the car during a race, the car is to receive the black flag. If, during tech inspection, the baffles have been altered or are absent, the muffler will be deemed illegal and considered a **Class A violation.**)*

**23. Engine protest Rule.** There will be a \$150.00 engine protest rule on the first three finishers. If your engine is the one being protested, your engine will be removed and kept by the track official at the conclusion of the feature. That engine can be torn down on-site by a qualified person or will be delivered to Fairfield Motorsports by a track official or mutually agreeable party on the following Monday to be torn down and researched for legality based on the current posted engine rules. The person or persons that are protesting that engine and the engine owner have the option to be present to witness the tech procedure. This engine, if found legal will be reassembled and back to the owner in time to race the following week.

If the person being protested was found illegal then the person that made the protest will get \$150.00 back. If the person being protested was found legal then they get the \$150.00 (Engine Tech/Reassembly costs are the responsibility of the engine owner). All protests must be presented to the referee in writing within 30 minutes of the completion of the last race. Any appeals must be handled by the Board of Directors.

**23.A. Penalties for anyone caught cheating (motor, fuel, ignitions, or performance) will be as follows (*Class B Violation*):**

- 1<sup>st</sup> offense or First TECH Refusal: \$250 fine, DQ from race, loss of pay and disqualification from the points fund for that season.
- 2<sup>nd</sup> offense or Second TECH Refusal: \$500 fine, DQ from race, loss of pay, 2-week suspension and disqualification from the points fund for that season.
- 3<sup>rd</sup> offense or Third TECH Refusal: \$1000 fine, DQ from race, loss of pay, 1-year suspension and disqualification from the points fund for that season.

If the fine is not paid then that driver and/or owner cannot come back and run in any class at SSMSC until the fine is paid.

**All engines must be within the guidelines that are stated in the KID SPRINT Engine Rules. These engine guidelines can be reviewed, downloaded and printed from the Sweet Springs Raceway website under the Driver Info tab.**

#### **NOTABLE ITEMS:**

##### Fuel:

- Starting in 2018, METHANOL is allowed as a fuel in the Jr. Sprint Class. If Gasoline is used, it must be **SUNOCO PURPLE** with **NO ADDITIVES**.
- Fuel may be checked by any means against a common source. Each competitor is allowed one courtesy check of fuel in his tank with the method to be used at the event. IF Digitron is used, compliance with the common source will be determined by zeroing the Digitron gas meter in a sample of source fuel and allowing each competitor a deviation of +/- 5 points from zero and/or by any Digitron recommended method.

Richard Kreisel  
01/26/24

- Rev. 1- Class B Violation Clarified – 05/08/14
- Rev. 2- Body Material & Shocks Clarified – 12/08/14
- Rev. 3- Engines Rules updated to MMMMRA – 01/07/15
- Rev. 4- Added SFI 24.1 to Helmet – 01/15/15
- Rev. 5- Revised Nerf Bar projection – 02/27/15
- Rev. 6- Updated Helmet & Seat Belt spec., Engine Rules updated to KID Sprint Rules – 12/14/16
- Rev. 7- Updated KidSprint USA rules (w/ exceptions) & added Methanol fuel
- Rev. 8- Updated KidSprint USA rules (2018B) & Clarified Muffler rule – 6/05/18
- Rev. 9- Updated DQ penalties to match General Rule Book – 4/30/20
- Rev. 10- Revised Top Wing Rule (sideboard minimum size) – 8/31/21
- Rev. 11- Updated Belt & Helmet Dates – 1/26/24