



JUNIOR SPRINT CLASS RULES

UPDATED
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JUNIOR SPRINT RULES AND REGULATIONS

All drivers, owners, and crew persons are responsible to follow all the Safety rules, and track rules of Plaza Park Raceway. Any person violating those rules will be subject to suspension, and expulsion from the facilities. This is at the sole discretion of PPR and its appointed officials.

Disclaimer: All rules may be changed/modified/adjusted as needed by PPR. Rules are designed and enforced to keep competition equal and safe.

10.1: Age: Drivers ages five (5) through twelve (12) (a driver whose thirteenth (13th) 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. Once a driver moves up to a different class for more than two (2) races, the driver cannot move back down to the Junior Sprint class. Prior to entering an event at PPR, all drivers must provide a copy of their birth certificate to be kept on file.

10.1.01 Up to Speed: Any car not driving at a reasonable speed will be blacked flagged or lined up/put to the rear of the field for safety reasons. If a car is black flagged for not being up to a reasonable speed, the promoter will allow additional hot laps/practice throughout the event if time allows.

10.2: 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. Weld in Halos are encouraged for driver protection. Cage shall have gussets at the intersecting bars to the uprights. Bends must have at least 3" radius. No square or pointed corners allowed. Roll cage must be a minimum of 3 "above the driver's helmet to the top of the cage at any point above the driver's 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 driver's shoulders.

10.3: 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 or the tires or wheels, whichever is the widest. No sharp corners or design as to hook or damage. All cars must be equipped with nerf bars. Nerfing bars must extend to inside edge of tires, but not beyond the outside of tire.

10.4: Safety: Seat belts must be securely attached to the car and used at all times. Metal to metal latches only. Five-point seat belts, shoulder harness and sub strap are required. Belt dates must meet the requirements of section 5.11. Arm restraints are mandatory and must be adequately adjusted to keep the driver's hands below the top of the roll cage. Helmets must be full head coverage competition type and one (1) of the two (2) latest SNELL approvals. Nomex head socks recommended. All drivers will wear a name brand flame-retardant uniform. Neck braces and/or cage nets with an SFI 3.2-1 rating or higher or Total Head containment seats are mandatory. SFI gloves are mandatory for safety.

10.5: 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. Receivers are mandatory (per rule 3.45). Cockpit controls: kill switch, starter button and engine monitor. No driver operated shock adjusters, wing sliders, panhard adjusters or power steering adjusters allowed in cockpits.

10.6: Battery: All wet cell batteries mounted in the cockpit must be covered and vented outside the cockpit area.

10.7: Fuel: FUEL WILL BE ONLY METHANOL IN 2020. No additives allowed, i.e. top end lube, Power Mist, propylene oxide, nitro methane, etc. **No M5.**

10.8: Weight: Minimum car and driver weight: Four hundred (400) pounds.

10.9: Suspension: Adjustable Aluminum or steel body shocks are legal. Coil Over or Torsion Bars or combination of both is permitted.

10.10: Wheelbase: Maximum fifty-two (52) inches. Minimum fifty (50) inches, center of front axle to center of rear axle. Rear axle to be steel or splined aluminum 1¼ inches minimum diameter.

10.11: Maximum Tread Width: Not to exceed fifty-five (55) inches outside of tire to outside of tire.

10.12: 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.

10.13: Brakes: Brakes will be of sufficient strength so as to slide the wheels while the car is in motion at any given time.

10.14: Tires and Wheels: Wheels to be eight (8) inches diameter steel or aluminum non-bead lock only. Spec right rear tire must be Hoosier "JS". Hoosier tires must be run on all four corners of the car. Tire grooving is allowed on all 4 corners. No softening is allowed. Any doping of tires is illegal and will result in disqualification. The promoter reserves the right to send off tire samples to a third-party testing agency at any time. Wheels must be held on with three (3) or more standard lug nuts or knock-off hubs.

10.14.1 Tires: Hoosier tires must be run on all four corners of the car.

DOPING/ALTERING TIRES CHEMICALLY ANY doping of tires is illegal and will result in disqualification.

- NO TIRE on ANY corner of the car shall be doped or chemically ALTERED.
- **Doping Defined:** Chemical alteration of ANY Hoosier tire from its factory production condition is explicitly PROHIBITED. Chemicals, sprays, soaking, bathing, wiping, rubbing, massaging, baking, needling or any act of applying a foreign substance applied to either the INTERIOR surface of the tire or EXTERIOR surface of the tire will NOT be allowed. Injecting chemicals through bleeders or valve stems is explicitly prohibited.
- The head technical inspector is given the right to determine altering based on sensory
 - SIGHT: the act of doing
 - SMELL: the odor of chemicals within the rubber of a tire not conducive with the factory form)
- Penalties: **ZERO Tolerance**
 - Forfeit finishing position of the most recent completed race.
 - If caught during the course of a racing event. Car & Driver will be disqualified from the remainder of event.
 - 2 Race Suspension for Car & Driver
 - This includes any points paying race and/or special event.
 - \$500 fine to be paid before entering next calendar event the participant wishes to enter.
 - 2 Race Suspension for Participant Action
 - Any individual caught in the act (SIGHT) of chemical alteration on PPR property will serve suspension along with the car & driver.
 - 2nd Offense for similar infraction:
 - 1 Year Probation for ALL PPR events **NO EXCEPTIONS**

10.15: Bodies: All cars must have complete bodies of Sprint Car design only. Tail sections (tail cone and rear bumper) 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 on cars not equipped with an approved fuel cell. Body of car must be made of aluminum, metal, fiberglass, carbon fiber or high impact plastic. 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 drivers 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.

10.16: Transmission: The drive will be by engine or jackshaft mounted clutch. No axle mounted clutches or variable speed clutches of any type allowed. No direct drive will be allowed. Chain guards will be made of .090" 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

10.17: Wings: Right sideboard, maximum 42 inches x 20 inches. Left sideboard, maximum 42 inches x 20 inches. Minimum size is six (6) square feet. The wing cannot be mounted outside the centerline of the tires. Side boards may not extend more than three (3) inches beyond center section and sides must cover center section. All wings must have 1/16-inch radius edges or edging. No raw edges. No wood except for ribs or spars inside center section. Lower front corner of the wing sides cannot be more than 4" below top of roll cage on a straight line to the top of the front roll cage crossmember. Top of roll cage is defined as the point of the roll cage or halo that would contact the ground. Use of a welded-on Halo is encouraged for driver protection but bolt on halos are not considered as part of the chassis structure and

are not the top of the roll cage or chassis. Nose wings cannot exceed 24 inches x 18 inches 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.

10.18: Numbers: All cars must have legible numbers painted in contrasting colors on both sides of car and the nose.

10.19: 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, sandbags, rocks, log chains etc. allowed.

10.20: 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.

10.21: 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 an 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. Coating is allowed. See attached USAC document for Junior Sprint Engine Tech / Rules

10.22: Exhaust: All cars must have a muffler mounted on the header. See General Rules (3.38)

10.23: General Rules: Please read the General Rules & Regulations. All drivers and crew are responsible for knowing and following these rules.

10.24: Penalties: See General Rules (7.02) for Illegal Fuel Penalties and (9.05) for Engine Violation Penalties.

10.25: Protest Rules: Please reference the Protest Rules (9.02) under General Rules & Regulations. All drivers and crew are responsible for knowing and following these rules.

10.26: Penalty For Non-Spec Engine By Technical Inspection If a car is found to be in violation of the engine rules, the driver will have the following fines and penalties assessed; in addition to having the engine pass Tech inspection.

- Penalties: **ZERO Tolerance**
 - Forfeit finishing position of the most recent completed race.
 - If caught during the course of a racing event. Car & Driver will be disqualified from the remainder of event.
 - 2 Race Suspension for Car & Driver
 - This includes any points paying race and/or special event.
 - \$500 fine to be paid before entering next calendar event the participant wishes to enter.
 - 2nd Offense for similar infraction:
 - 1 Year Probation for ALL PPR events **NO EXCEPTIONS**
- If car owner/driver refuses any tech inspection at any time, penalty will be:
 - Disqualified from the current night's race program, and \$500.00 fine.
 - Penalties for any subsequent refusals to allow tech will be up to the Promoter.

2025 USAC Racing Jr. Sprint Engine Tech Manual - Briggs & Stratton World Formula Engine

See attached USAC document for Junior Sprint Engine Tech / Rules