



## 2025 600cc SPRINT RULES -

*Any and all efforts will be made by race officials to enforce and if necessary modify rules to ensure the integrity of the race. **Officials decision is final!***  
*No express or implied warranty of safety shall result from publication of, or compliance with, these rules. They are intended as a guide, and are in no way a guarantee against injury, or death, to participants, spectators, and/or others.*

Updated December 3, 2024 - Any changes to the specs will be noted in red on the website ([www.indoorautoracing.com](http://www.indoorautoracing.com))

**CHANGES FOR 2025 SEASON:** • Any Hoosier Dirt Tires 42xxx Series • Fuel Pump Relay Mandatory • Fire Bottle is not required.  
• No seat angle rule • No dash height rule • No offset rule • Tread-width 65" MAX • Wheelbase 70" Max - 50" Min  
• One Sway Bar, front or rear allowed • Front & rear mounted radiators only

1. **CAR MUST BE SPRINT CAR IN APPEARANCE**
2. **TIRES & WHEELS:**
  - a. Hoosier DIRT Tires on all four corners.
  - b. Tire must be part of the 42xxx series (List attached on last page)
  - c. No chemically altering tires - Signed Tire Agreement Form required.
  - d. **10" Diameter wheels only. (Updated 11-12-24)**
  - e. All wheels must be an approved racing type. (No Carbon Fiber)
  - f. NO wheel center bolts made of aluminum.
  - g. NO Wheel covers.
3. **WEIGHT RULE - 775lbs - Before or After events. No Fuel may be added to make weight.**
4. **ENGINE RULES - 637cc Maximum Displacement**
  - a. All cars must be self starting.
  - b. NO 2 stroke engines allowed in 600 Micro Sprints.
  - c. Fuel injection or carburetion may be used.
  - d. No forced induction or nitrous is allowed.
  - e. Racing grade methanol or racing gasoline sold at the event
  - f. A fuel pump relay that turns the fuel pump off when the engine stops running is mandatory.
5. **SPEC MUFFLER: 600cc muffler sold by Beyea Headers.**  
**PART# MS6M or MS6M-SS MUFFLER MUST HAVE BEYEA PLATE**
  - a. NO tampering with or modifying the muffler in any way. - \$500 fine for tampering with muffler
  - b. Muffler must remain stock from Beyea and in good working condition.
  - c. Muffler must be removable at the track if thought to be tampered with, no welding mufflers on.  
- No altering muffler flange, must remain stock size so officials can replace muffler with stock muffler at track.  
- Multiple sizes available, buy the right one for your headers!
6. **CHASSIS:**
  - a. All frames must be constructed of 4130-chrome molly tubing or equivalent.
  - b. Roll Bars Shall be welded to frame, no bolt on frames allowed.
  - c. Chain guards are mandatory
7. **SUSPENSION**
  - a. **TREAD-WIDTH: Front & Rear**  
- Measured from outside edge of tire to outside edge of tire. MAX - 65"
  - b. **WHEELBASE - 70" max., 50" minimum.**
  - d. **AXLES, WINGS, BRAKES & SWAY BARS:**
    - Straight one piece front axles only, no independent suspension.
    - 3 Piece axles not permitted, no point of the axle should be able to rotate.
    - Front axle must be solid king pin to king pin
    - Maximum of THREE brake calipers and rotors on car. Two Front & One Rear.
    - One sway bar, either front or rear.
    - No Top or Front Wings Allowed.
  - e. No Carbon Fiber Suspension Parts.

**8. BODIES:**

- a. Sprint Car appearing bodies.
- b. Right side of cockpit must be enclosed.
- c. No wild bodies. Officials decision is final.

**9. FUEL TANKS:**

- a. All fuel tanks must be rear mounted sprint car style tail tanks with bladders. No square tail tanks.
- b. No side tanks.
- c. **ALL TANKS ARRIVE EMPTY!!!** Must use Methanol sold at the event.

**10. BOLT-ON WEIGHT BALLAST -**

- a. All weight shall be bolted to or within the confines of the MAIN frame rails.  
(Engine hoop not considered part of main frame rails)
- b. Weight may not be mounted further forward than the engine.
- c. Bolt on weight must be mounted to a welded tab on the frame or directly to frame rail.  
Tab must be a min 1/4" thick.
- d. All bolted-on weight shall be painted white and numbered to correspond with car number
- e. Weight shall be secured using a minimum 5/16" Grade 8 bolt and have double full nuts
  - Bolt may not extend 1" past nuts.
  - Rub rails are not considered part of frame.
  - All ballast locations must be approved by officials. Official's decision is final.
  - Any car losing weight would be disqualified from that event.

**11. RUB RAILS -**

- a. Only muffler can be mounted to left side nerf bar
- b. No lead or weight bars shall be mounted to rub rails.  
No batteries mounted to nerf, batteries must be securely mounted in side main frame rail.
- c. Must be a 2" crush zone all the way around nerf (excluding exhaust).
- d. Car must remain open wheel in design.
  - No bumper or nerf bar shall extend past, over or cover any tire.
- e. No blunt, sharp or protruding edges of any kind.
- f. Left and right nerf bar may have 3 vertical and 2 horizontal bars only.
- g. Left Side Rub Rail can extend max 1/4" past outside edge of any part of tire. No tolerance.
  - Right Side Rub Rail cannot extend past outside edge of tire.
  - *A straight edge will be used. Must be legal before and after event. Car on ground with driver.*
  - *Side panel will be used in measurement. Make sure rub-rail is exposed.*
- h. Aluminum Sheet Metal can be placed in between rub rail hoops for promotional use.
  - Min - .050 • Max - .063 ALUMINUM ONLY
  - If rub rail isn't exposed, panel becomes part of the measurement in section
- i. Nerf Bar Construction
  - All nerf bars shall be made of material with a maximum 1/8" wall thickness and 1 1/8" OD
  - Nerf bars may not be made from solid material
  - Nerf bars may not be filled with shot peen or any other form of lead
    - Any competitor may be required to remove left side nerf bars in post race tech.
    - Denial will result in loss of time or disqualification from the event.

**12. BUMPERS -**

- a. Front bumper must extend 2" in front of tires, max. 10".
  - Front Bumper must have a flat leading edge, no pointed/round bumpers

Not Acceptable (top view)      Acceptable (top view)



- b. Front bumper may have max. 2 horizontal bars, top and bottom and 2 vertical bars
- c. Front and Rear bumper cannot extend wider than the frame.
  - Front and Rear bumper may not extend wider than frame sockets.
  - Frame Sockets may be as wide as main frame rails

Not Acceptable (top view):      Acceptable (top view)



- d. No square rear bumpers, standard sprint car style bumper.
  - Rear bumper must protect tail tank.

- 13. RADIATORS / COOLING:** NO ANTI-FREEZE, Water Only! Radiators will be checked in tech.
- Front or rear mounted radiators only. No side mounted radiators.
  - Antifreeze ruins racing surface and must be eliminated.
    - **\$500 fine to anyone caught with anti-freeze in motor.**
  - All radiators must have sufficient catch cans to prevent overheating water from hitting racing surface.
    - All radiators and reservoirs must be shielded from driver.
    - Radiators or reservoirs mounted under the front hood must be shielded from driver.
  - Overflow Tanks
    - A small water/drink bottle is not an acceptable radiator overflow tank!
    - Radiator overflow return system is HIGHLY recommended.
- NOTE: Water/Oil dripping can ruin the track surface just as bad as oil downs. A dripper will be considered a leaker and put off the track. Prepare in advance to avoid being disqualified during the event.**
- 14. CAR DIAPER:**
- All cars shall have a diaper mounted underneath motor and cooling system to prevent leakage on to racing surface.
    - Must cover engine and radiator compartment in their entirety.
    - Must contain an absorbent material such as pig rags.
    - If using a sheet of aluminum, seal to the frame with silicon to prevent seeping.
- 15. SAFETY ITEMS -** All cars and drivers must comply with NJ State Safety Regulations. Fire Bottles **NOT** required.
- A. DRIVER SAFETY EQUIPMENT**
- ALL DRIVERS REQUIRED to wear fire resistant underwear and one piece driving suit to cover arms, legs and body.
  - Suit must have **SFI rating of 3.2A/5** or greater or **FIA 8856-2000** or greater.
  - **Nylon covered fire suits are prohibited.**
  - Arm Restraints are Mandatory
  - All Drivers Required to wear fire resistant gloves, shoes and socks.
  - Steering wheels must have a padded center & quick release hub. No pull-pin.
- B. HELMETS -**
- All drivers must wear a properly secured full face helmet, which meets or exceeds the latest Snell SA Rating.
  - The current snell rating is SA2020. Acceptable ratings include SA2105 and SA2020
- C. HEAD AND NECK RESTRAINT -**
- All drivers must wear a properly secured SFI 38.1 rated Head and Neck Restraint Device/System.
  - Must have certification no more than 5 years old.
- D. Rollbar/cage padding meeting SFI 45.1 Specs**
- padding required anywhere a drivers helmet may come in contact with the rollbar/cage.
- E. Rollover Bars -**
- NJ State law requires a minimum distance of 3" between the top of the driver's helmet and the bottom of the roll bar measured at the closest point between the two with driver is seated and belted in place.
  - A Halo will count for the measurement.
- 16. SEAT BELTS -** Must meet SFI Specification 16.1 rating as a minimum.
- Date of manufacture cannot be more than two (2) years old.
  - Wrap around or bolt-in quick release five-point belt harness with all connections to be secured at frame.
  - Shoulder harness must pass over a round bar located at the driver's shoulder height.
  - No alterations to manufactured design.
  - All belts must be in good condition and bear the date and manufacturer's name.
- 17. SEATS -**
- All cars must have a full containment seat or a seat utilizing a bolt on containment system.
  - Must have both left and right side head and shoulder containment.
    - Products such as Kirkey Basic Head Supports Part Numbers 100 (right) & 200 (left) NOT ALLOWED.
  - Approved Bolt-On systems such as:
    - Kirkey Bolt On Restraint Kit, The Joie of Seating "Safer System" & Butler Sportsman Advantage kit
    - *If you have questions email davey@aarn.com with a picture of your seat or product you are looking at.*
  - Seat shall be attached to the frame with at least four (4) three-line 5/16-inch bolts.
    - Two bolts shall be installed at the bottom of the seat not more than three (3) inches from the outside edge
    - Two bolts shall be installed at the two most practical widely-spaced points at the top of the seat rack.
    - Vehicles with metal seats do not require straps, but do require larger washers at each bolt.

**18. BATTERIES -**

- a. Batteries located in driver's compartment shall be secured and shielded to prevent leakage.
  - Batteries must be securely mounted in side main frame rails. (Engine hoop not considered part of main frame rails)
- b. Batteries located adjacent to the fuel supply must be secured in a metal box bolted to the frame.
  - Box shall be secured by at least four 3/8-inch bolts
  - And in such a manner to apply maximum pressure against the frame.
  - Battery shall also have a marine-style box cover secured to the top of the metal box as to not allow movement of the battery.
  - Batteries located in any other area not specified above shall be secured and shielded to prevent leakage from damage or turnover.

**19. MISC / RACE CONTROL ITEMS**

- a. Car numbers - All cars must have visible large numbers on front and back of car.
  - Numbers plates on left side frame rail are strongly encouraged.
  - Duplicate numbers may be required to add a letter or number to differentiate.
- b. Driver must have working one-way raceceiver radio to monitor race control at all times.
- c. All cars required to have a working transponder. Transponders available for rent if needed.
  - Transponders shall be mounted to back of roll cage point upward. Loop is above the track.
- d. No mirrors or two-way radio communications allowed in cars.
- e. All vehicles must have an ignition switch within easy access to the driver in the cockpit and clearly marked.
  - Ignition switch must kill all power to the fuel pump.
- f. A fuel shut-off valve must be easily accessible to the driver and marked with brightly-colored "On & Off".
- g. A fuel pump relay that turns the fuel pump off when the engine stops running is mandatory.

**20. ROUGH RIDING -**

- No rough riding! Considering this your first warning.
  - First offense in a race sends driver to JR Michalski Cool Down Zone
  - Second offense car is sent to the pit area.
  - Officials have the right to park a car for the weekend at any point.
  - A car will be sent to the pits after a total of three unassisted cautions or rough riding calls.

**\*\*\*Officials Decision Is Final On All Items Noted or Otherwise\*\*\***

**APPROVED HOOSIER 42xxx Dirt Series Tires (Updated 1/21/25)**

<b>MODIFIED MIDGET / MICRO SPRINT DIRT / JR. SPRINT</b>										
ITEM NUMBER	TIRE SIZE	TREAD PATTERN	TREAD WIDTH	APPROX. DIA.	APPROX. CIRC.	RECOM. RIM WIDTH	MEASURED RIM WIDTH	SECTION WIDTH	COMPOUND	COMPARISON SOFT TO FIRM
42050	57.0/ 6.0-10	Micro Front	5.8"	18.0"	57.0"	5-6"	5"	6.8"	D12, D15	
42100	57.0/ 6.5-10	Super Chain Link	7.0"	18.0"	57.0"	7"	7"	8.7"	D12, D15	
42110	58.0/ 7.0-10	Micro Front	8.0"	18.25"	58.0"	6-7"	6"	8.25"	D12, D15	
42124	59.0/ 8.0-10	Large Crossblock	8.5"	18.5"	58.5"	8"	8"	9.5"	D10, RD12, RD15	
42130	60.0/ 7.0-10	Super Chain Link	7.5"	19.0"	60.0"	7"	7"	9.0"	D12, D15	
42164	61.0/ 8.0-10	Large Crossblock	8.2"	19.0"	60.5"	8"	8"	10.1"	RD12, RD15	
42168	61.0/10.0-10	Large Crossblock	10.2"	19.0"	60.5"	10"	10"	11.8"	RD12, RD15, RD20	
42170	62.0/ 8.0-10	Large Crossblock	8.2"	19.7"	62.0"	8"	8"	10.1"	RD12, RD15	
42172	62.0/10.0-10	Large Crossblock	10.0"	19.7"	62.0"	10"	10"	11.9"	RD12, RD15	
42173	63.0/ 8.0-10	Large Crossblock	8.2"	19.0"	63.0"	8"	8"	10.1"	RD12, RD15	
42183	63.0/10.0-10	Large Crossblock	10.0"	20.0"	63.0"	10"	10"	12.0"	RD12, RD15, RD20	
42185	64.0/ 8.0-10	Large Crossblock	8.2"	20.2"	64.0"	8"	8"	10.6"	RD12, RD15	
42195	64.0/10.0-10	Large Crossblock	10.0"	20.2"	64.0"	10"	10"	12.5"	RD12, RD15	
42225	65.0/10.0-10	Crossblock	10.0"	20.5"	65.0"	10"	10"	11.5"	D10, RD12, D12, RD15, RD20, D25	
42237	69.0/10.0-10	Crossblock	11.0"	22.0"	69.0"	10-12"	10"	12.5"	RD15, RD20, D25	
42239	69.0/10.0 W-10	Crossblock	12.5"	22.0"	69-70"	10-12"	11"	14.7"	RD12, D12, RD15, RD20	
									D25, KS1, ASC2	
42400	15.0/ 6.0-8	Treaded CAB	6.0"	15.0"	49.0"	6"	6"	7.4"	D12, RD20	
42450	15.0/ 7.0-8	Small Crossblock	7.0"	15.0"	49.0"	6"	6"	7.5"	RD20	
42500	15.0/ 8.0-8	Small Crossblock	8.0"	15.0"	49.5"	7"	7"	8.5"	RD20	
42550	16.0/ 8.5-8	Small Crossblock	8.5"	16.0"	53.5"	9"	9"	10.5"	RD20	
SOFT									FIRM	
	D10	RD12	D12	RD15	D15	RD20	D25	KS1	ASCS2	