



# 2016 Rule Book

### **Rule Book Disclaimer**

These rules are designed to provide for the orderly conduct of racing events and to establish minimum acceptable requirements for such events. These rules shall govern the condition of all events, and by participating in these events, all participants agree to conform to these rules. No expressed or implied warranty of safety shall result from publication of or compliance with these rules. They are intended as a guide for the conduct of the sport and are in no way a guarantee against injury or death to a participant, spectator or official.

Sprints On Dirt will hereafter be referred to as SOD.

**Changes/additions are shown as bold, underlined text.**

## 1. General Specifications

- 1.1. Raceceiver one-way radios are mandatory at all SOD events. No two-way radios allowed.
- 1.2. Previous racing experience is required for drivers under 16 years of age. Drivers under 16 years of age must seek approval from SOD prior to competing. Drivers under 18 years of age must have a notarized parental consent form signed by parents or legal guardians.
- 1.3. No earnings will be issued until required W-9 tax forms are completed and returned to SOD. Drivers are considered an independent contractor and as such are responsible for all charges and taxes on any funds received from SOD.
- 1.4. All cars are subject to inspection at any time. SOD reserves the right to refuse entry to any car or driver determined to be unsafe or not meeting SOD rules or the spirit and intentions of the SOD rules.
- 1.5. No alcoholic beverages will be consumed by drivers or their pit crew at any time prior to or during an event. Use, sale or distribution of illegal drugs at any time shall be cause for immediate suspension. Participation by a team member in either activity will result in disqualification with all points and earning being forfeited to the year end points fund.
- 1.6. The driver is the sole spokesperson for the race team and is responsible for their actions. Any drivers or crewmembers fighting will result in disqualification for that team and all points and monies for that evening will be forfeited. Striking an official will result in disqualification for the evening, loss of membership, forfeiture of all points and moneys for that evening, and up to a one-year suspension.
- 1.7. Verbal abuse or inappropriate behavior will not be tolerated. No warning will be given. If violated, the team may be disqualified with all points and/or money forfeited for that night. Other penalties may be applied depending on specific situation.
- 1.8. Car and driver qualify as a team. Each driver can qualify only one car. No driver will be permitted to change cars after taking the green flag of his/her qualifying heat race.
- 1.9. Race teams will collect earnings within 20 minutes of the completion of the A-main unless prior arrangements are made. Failure to collect the night of the race will forfeit all earnings to the year end points fund.

## 2. Safety: Safety requirements include but are not limited to the following:

- 2.1. General car safety: At a minimum, competitors are bound to conform to all safety rules in this book and all current, universally accepted sprint car safety requirements. Proof of safety is the sole burden of the car owner, and only a SOD director can decide if a car conforms to safety requirements. If the safety of any car is determined to be questionable for any reason, that car may be banned from SOD races. See section 3.6.1 for reinstatement of a banned car.

- 2.2. Driver's seat: Seat must be bolted in with a minimum of four bolts. High back style seat is mandatory. Safety harness lap belt must be routed through the belt holes in the side of the seat.
- 2.3. Personal safety equipment: Flame retardant driver suit, gloves, socks, underwear (unless 3 layer suit is utilized), and shoes are required. A head and neck support or restraint system is mandatory. Approved racing, full-face helmet is mandatory; Snell SA 2010 or Snell SA 2015 sticker mandatory. Driver must wear helmet, driver suit, minimum five-point harness system, shoulder harness, anti-sub strap and arm restraints, anytime car is started. Five-point harness system and arm restraints must be no more than three years old and contain unaltered SFI safety labels. Quick release steering wheel and right side cage net or headrest must be used. A five-pound fire extinguisher is mandatory in each pit.

### 3. Car Specifications

- 3.1. Appearance: Car must maintain conventional sprint car appearance as determined by SOD officials.
- 3.2. Fuel tank: All cars must be equipped with a conventional tail tank and fuel cell/bladder.
- 3.3. Weight: Cars are weighed for the purpose of evaluating car safety (see section 2.1) and the effectiveness of SOD rules. Any competitor who refuses to have their car weighed when directed to do so will be disqualified, will lose all points and money for the race program, and the car may be banned. See section 3.6.1 for reinstatement of a banned car.
- 3.4. Car number: Number must be prominently displayed on both sides of the fuel cell, both sides of the top wing, and center of the top wing.
- 3.5. Electronic devices and battery-powered devices: Only the following devices are allowed:
  - Ignition boxes
  - Tachometers
  - Raceceivers
  - Timing/scoring transponders
  - Helmet ventilation systems
  - Oil pressure warning lights
  - Cameras

#### 3.5.1. **Traction control devices are not allowed.**

3.5.2. Other devices are not allowed unless prior written approval has been given. Unapproved devices will be confiscated.

#### 3.6. **Cockpit adjustable devices: Only the following device is allowed:**

- **Top wing slider**

**3.6.1. Other devices including but not limited to brake bias, shocks, and suspension are not allowed unless prior written approval has been given. Unapproved devices will be confiscated.**

3.7. Car conformance to the SOD rule book: All competitors are bound to conform to all SOD rules and the spirit and intentions of the rules. Proof of conformance is the sole burden of the car owner, and only a SOD director can decide if a car is in conformance. If conformance is determined to be questionable for any reason, that car may be banned from SOD races.

3.7.1. Reinstatement of a banned car: To be reinstated, a car owner must 1) Make changes to bring the car into conformance with all SOD rules and the spirit and intentions of the rules, 2) Schedule an appointment to have the car assessed by SOD, 3) Provide proof of conformance, 4) Get the car assessed by SOD, 5) Provide SOD with a conformance, safety, and liability affidavit. The SOD series director will decide if the car is reinstated.

**4. Engine:** No restrictions. Engines may be pumped for the purpose of evaluating the effectiveness of SOD rules. Any competitor who refuses to have their engine pumped when directed to do so will be disqualified and lose all points and money for the race program.

**5. Mufflers:** Unaltered mufflers are required at all tracks.

5.1. All mufflers must be bolted, clamped or welded on header.

5.2. If a muffler is lost during a racing event the car will be disqualified and scored last.

5.3. SOD officials reserve the right to measure Db levels of any competing car to ensure muffler is working properly.

## **6. Wings**

6.1. Top Wing: (see Illustration)

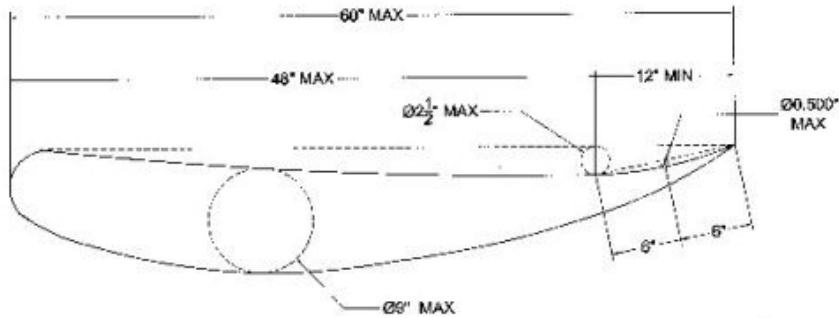
Center Foil maximum size of 25 square feet with a maximum width of 60 inches with a one degree plus or minus tolerance. Center Foil shall be fully sheathed in aluminum. Vent holes are strictly prohibited. Other than the slider mechanism, no moving parts allowed on or in foil structure. Wing must be fabricated of metal alloys only. No fiberglass, carbon fiber or other similar material may be used in the basic framework of the wing.

6.2. No wicker bills or Gurney lips permitted on Center Foil, unless center foil is totally flat. If flat, a one-inch wicker bill is allowed.

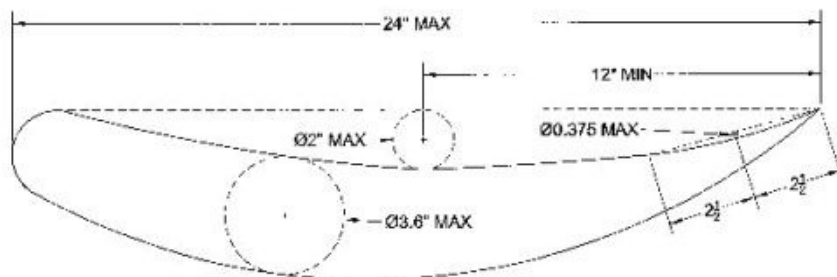
6.3. The 12-inch section located at the rear of the Center Foil must not have the belly/curl arc out of proportion with the rest of the Center Foil. The belly/curl arc must span the entire

length of the Center Foil and appear to be a gradual arc with the deepest point no further back than 48 inches from the leading edge. As measured on a 12-inch straight edge, the belly at 6 inches from the rear of the Foil may not be deeper than ½ inch. There is zero tolerance on this ½ inch depth. It is suggested that the wing blue print specify 15/32-inch depth, so that if any deflection or movement of the wing occurs, the depth will not exceed the ½ inch specification. (This ½ inch measurement ensures that the belly/curl arc is gradual.)

- 6.4. The belly/curl arc must start at the radius of the Center Foil's leading edge and shall not exceed a depth of 2½ inches. Center Foil thickness cannot exceed 9 inches. Center Foil top surface from side to side must remain flat. Center Foil must be one-piece construction. No split or bi-wings will be permitted. Wings must be fabricated of metal alloys only. No fiberglass, carbon fiber or other similar material may be used in the basic framework of the wings. Top wing must not extend beyond outside of rear tires.
- 6.5. Two stationary foils or rudders will be allowed to run the entire length of the underneath portion of the top wing. Maximum height proportions are 1 inch at the front and 3 inches at the rear. Nowhere shall the foil exceed 3 inches in height. The top wing can be cockpit/driver adjustable
- 6.6. All side board panels must be within an eight-degree plus or minus tolerance.
  - 6.6.1. Side panels may not be supported by braces whose section is not horizontal. All braces or supports shall be oriented thin edge to face the air stream. Only rectangular, round or oval metal braces not exceeding 1 inch in width may be used. No aero section side panel brace material allowed. No brace or support shall resemble a wicker bill or a split wing.
  - 6.6.2. Top Wing sideboards maximum size, 72 inches long and 30 inches tall. Panels must be of one-piece construction. Panels must be fabricated flat so as to have no turnouts or flaps made of more than 2 inches of material on the front or rear of panel and no more than 1 1/4 inches on the top or bottom. The entire panel must remain perpendicular to the center foil. No bending the side panel and/or moving the braces to kick out the right side panel.



- 6.7. Front Wing: (see Illustration)
- 6.8. Front wing must be made of metal alloys, max. 6 sq ft, max. 36" wide, max. 12" side boards with 1/2" turn out on top & bottom of sideboards allowed.
- 6.9. A 1" wicker bill allowed on flat or dished front wings.
- 6.10. No split or bi-wings, gurney lips, rudders or any air flow altering devices allowed. Center Foil must be one piece. No fiberglass, carbon fiber or other similar material may be used in the basic framework of the wing.
- 6.11. Maximum distance from the Center Foil front edge to the front edge of the front axle may not exceed 20 inches. The Center Foil front edge must remain at least 1 inch behind the front edge of the front bumper. The Front Wing must not extend beyond outside of front tires.
- 6.12. The Front Wing may not be cockpit adjustable. No moving parts allowed on or in foil structure.



**7. Tires**

- 7.1. Right Rear Tire: Hoosier Racing Tire 100/13.0-15, medium compound.
- 7.1. Left Rear Tire: Hoosier Racing Tire 92/12.5-15, D15 compound.
- 7.2 Front Tires: Hoosier Racing Tires only.

## **8. Race Procedures**

- 8.1. Wheel packing: All cars are required to participate if the race track needs to be run in/wheel packed.
- 8.2. Race push off. You are allowed only one push off per race. If you require a second push off, you go to the tail. After drivers have been called to line up for a race, all drivers must be ready for push off or will start at the tail. If belts come loose, driver must stop by an official to buckle up and will not be penalized.
- 8.3. Yellow flag. If you stop on the racetrack, you go to the tail. During yellow, no working on the car is allowed on the track or the car will be disqualified. Any car that stops twice on the track or is involved in two unassisted yellow or red flags will be black flagged.

Any car that does a 360 spin and does not bring out a yellow flag will continue to race where it falls in line. The track flag person will determine if a yellow flag is needed and will have final say why it was displayed. If the yellow does come out, the car charged with causing the yellow will re-start at the tail of the field.

- 8.4. Red flag. All cars must stop and must not pass crash site. Cars that have ample time to stop, but still pass crash site and keep safety crews from reaching accident site in a timely manner will be disqualified for that race. SOD utilizes only “closed” red flags. On a closed red, crews will not be allowed on racing surface to work on cars. Violation of red flag procedures will result in a black flag. No red flag will be displayed for a fuel stop.
- 8.5. Black flag. If black flag is waved you are disqualified from that race and must return to pits. Failure to leave track will result in disqualification from all races for the remainder of the evening, and all points and moneys for that evening will be forfeited. Any car not running at reasonable racing speed may be subject to black flag for safety reasons. Any lapped car not able to keep a consistent racing line may be subject to black flag for safety reasons.
- 8.6. Starts. Starts will be at the white line in turn four. Pole sitter sets a moderate steady pace. Race starts when front row reaches the white line. Any car passing before the start of the race, or jumping the start will be penalized two (2) positions on the ensuing restart. If a full restart does not occur, then that car will be penalized 2 positions from its finishing position. If an offending car is located on the last row of the starting grid then that car is allowed to restart but will be penalized 2 positions from its finishing position. If the same car commits a second offense, it shall be disqualified from that event. In the event that the race is not properly started by the two (2) front row cars, the responsible car(s)



- will be moved to the second row. Failure to acknowledge and comply with the "move back" signal will result in an instant disqualification from the racing event. NO WARNING will be given for false starts. Cars must be nose to tail when crossing the white line. Any car with excess space in front to try to get a jump will be called for a jumped start and penalized four positions.
- 8.7. Lining up for restarts. Form a single file nose to tail line. Officials will correct the lineup when received from the scorers.
    - 8.7.1. First lap restarts; inside or outside row will move straight up to fill a void for a missing car.
    - 8.7.2. All lapped cars will maintain their position among lead lap cars when a caution comes out during a feature.
  - 8.8. Restarts will be at the cone at the start finish line. Cars must pass between cone and outside barrier of track. Leader of race has option to increase speed anywhere between the restart lines in turn four and must continue to accelerate past the cone. No passing before the cone, driving below, or hitting the cone. Any car in violation will be charged with two positions per car passed, or two positions for hitting or driving under cone. If yellow must come out for the cone, car hitting cone will be charged with a yellow and must start at the tail.
  - 8.9. Flat tire. In the feature only, you may ONLY change a tire in the designated work area, no fueling allowed; designated work area will be announced at drivers meeting. When the one lap signal is displayed, cars will not be allowed to return to the track. Any car changing or removing a tire for any reason will start at the tail.
  - 8.10. A race is considered complete when the checkered flag appears. If a yellow or red flag must be thrown after the checkered flag appears, the race is officially over and the finish will be scored as follows. Any car that crosses the finish line before the caution appears will be scored in the position they cross. Any car that does not cross before the caution or red flag will be scored in the same manner as a yellow/red flag restart.
  - 8.11. Running below the tires or off the intended racing surface to pass another car will result in a penalty of two positions per car passed.
  - 8.12. Any car not obeying an official will be black flagged and scored last for the event. This includes, but is not limited to, not getting in the proper position in a timely manner, stopping on the racing surface to dispute a decision, and excessive speed during yellow flag conditions.
  - 8.13. All feature races that have a caution on last lap will be restarted with a green, then white, then checkered flag finish. There will be NO green and white flags waved together in a feature event, a yellow on last lap means two laps to go when race goes back to green.

## 9. Race Format

- 9.1. No qualifying (standard procedure): Heat race lineup determined by pill draw. As each number is drawn for a car that number will be posted and this procedure will be repeated until a number has been drawn for each car that wishes to compete. The lowest number goes to the pole of the first heat race; the next lowest drawn number goes to the pole of the second heat, etc. Once pole position in each heat is filled, the next lowest number goes to the outside front row of the first heat, etc. If there are an uneven number of cars to equally distribute between heats, the last cars will be placed at the back of the lowest numbered heats. Any cars not represented at the drawing shall be placed at the rear of a heat race. Heat races will determine the starting position for the balance of races scheduled.
- 9.2. Group qualifying (optional procedure): Heat race lineup will be determined by group qualifying sessions as follows:
  - 9.2.1. Each driver draws a pill. As each number is drawn for a car that number will be posted and this procedure will be repeated until a number has been drawn for each car that wishes to compete.
  - 9.2.2. Heat race cars will be divided evenly into two groups. The lowest number drawn goes to 1st heat race 1<sup>st</sup> qualifying session pole position; the next lowest drawn number goes to 1st heat race 2nd qualifying session pole position, etc. until 1<sup>st</sup> heat race qualifying sessions positions are filled. Subsequent heat race qualifying sessions are filled the same way.
  - 9.2.3. Each group runs three laps, then the cars will line up for their heat races by qualifying time with the four fastest inverted.
  - 9.2.4. Any cars not represented at the drawing or not qualifying shall be placed at the rear of a heat race. Heat races will determine the starting position for the balance of races scheduled.
- 9.3. Feature Line Up:
  1. 1st and 2nd place heat race finishers will draw for starting positions,
  2. Other feature qualifiers will line up in heat race finish order,
  3. Number of cars that transfer will be determined at each event,
  4. B-main qualifiers will line up in B-main finish order.
- 9.4. Alternates will be taken to fill vacancies that occur from first nonqualified car. If an alternate is taken, the original qualified car will receive the alternate's pay. No alternate will be taken after the original green flag is displayed.

## 10. Sprints On Dirt Membership

- 10.1. There is a \$10 per car entry fee required for each member and \$25 fee for non-members at each race event that will be deducted from each car at payoff.
- 10.2. All drivers participating in SOD sanctioned events that purchase a membership from SOD at a cost of \$150 per year will receive an insurance policy including accidental death & dismemberment and medical accident coverage (see policy for details).
- 10.3. Drivers must be a member in good standing of SOD in order to qualify for point fund money.
- 10.4. All member cars must display the official SOD decal and decals of major SOD sponsors Engine Pro, ARP, Hoosier, and any other designated sponsors on the outside of both of the side panels of the top wing to be eligible for contingency and point fund money and awards. Decals shall be provided free of charge by SOD.

## 11. Rookie of the Year Award

- 11.1. Rookie candidates are a driver who has competed in no more than a total of six previous SOD races. The rookie driver who finishes highest in total points will determine rookie of the year.

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### Additional Information

1. This booklet contains the official rules and car specifications for all sanctioned events of the Sprints On Dirt. Any point not covered herein shall be resolved by SOD or their appointed representative.
2. All drivers will be charged a maximum \$30 for pit passes at SOD events.
3. All nonmember cars MUST display the official SOD decal and decals of major SOD sponsors Engine Pro, ARP, Hoosier, and any other designated sponsors on the outside of both of the side panels of the top wing to be eligible for contingency awards. Decals shall be provided free of charge by SOD.
4. There will be special event shows during the year that do not follow these formats; competitors will be informed of specific procedures. All racing programs are subject to change. Any such changes will be covered at the drivers meeting.
5. In the event a two-day race is scheduled, the first day will be run with the same format as the second day with the exception that the first four finishing positions in the A Feature the first day will be locked in.
6. SOD points shall be awarded to drivers in accordance with the following schedule:

<b>A Feature Points</b>		
1. 150	9. 113	17. 96
2. 142	10. 110	18. 94
3. 135	11. 108	19. 92
4. 130	12. 106	20. 90
5. 125	13. 104	21. 89
6. 122	14. 102	22. 88
7. 119	15. 100	23. 87
8. 116	16. 98	24. 86

- 65 points will be awarded to all drivers that take a competitive green flag but fail to qualify for “A” feature.
- SOD event cancellation policy: All full-time members in attendance (on site) with a purchased pit pass and their car, verified by SOD officials, at the time official pit draw is closed, will receive 50 appearance points.
- 50 points will be awarded to all drivers that make an effort to compete but fail to take a competitive green flag in heat or feature action.

# **SPRINTS ON DIRT**

**Website: [www.sprintsondirt.com](http://www.sprintsondirt.com)**

**Email: [director@sprintsondirt.com](mailto:director@sprintsondirt.com)**

**Phone: 734.309.RACE (7223)**