

Winston Speedway  
2017  
Lightning Sprint Rules

**General rules for drivers and crew.**

**All decisions by Winston Speedway officials or scorers are final!**

This is a sporting event for the enjoyment of the racers and fans alike. Never forget what this sport is about.

1. Drivers, owners and crew members will conduct themselves as professionals. Any unsportsmanlike conduct by drivers, owners or crew members shall be ground for disqualification and/or suspension.
2. All drivers or crew members under the age of 18 must have a waiver and parent consent form signed before entering the pit area or competing at Winston Speedway.
3. No equipment or race car will be considered as having been approved by reason of having passed through inspection unobserved.
4. Any person who defies or violates the intent or spirit of the Winston Speedway rules shall be considered to have engaged in unsportsmanlike conduct and shall be subject to suspension and/or removal from the premises.
5. Winston Speedway reserves the right to refuse any car or participant at any event, for any reason.

**Sportsmanlike Rules for Drivers and Crew**

1. All discussions with officials shall be conducted in a professional manner.
2. Drivers are responsible for the conduct and actions of all crew members (this includes spouses, relatives and significant others). Unsportsmanlike conduct, fighting or harassing officials may result in disqualification and/or suspension.
3. All drivers and crew will conduct themselves in a professional manner.
4. Disqualification and/or suspension will result for the following unsportsmanlike behavior;
  - A. Driver or crew member going into other driver's pit area.
  - B. Fighting or assault.
  - C. Any driver threatening or touching an official.
  - D. Any driver stopping on the track and throwing a tantrum or holding up the show.
  - E. Any driver that takes his/her helmet off while on the track during an event.
  - F. Any driver or crew member using profanity or obscene gestures at the flagman or any official.
  - G. Any driver that intentionally makes contact with another car following the finish of a race or during a caution period.
  - H. Or any other unprofessional or unsportsmanlike conduct not covered in this section.

**Driver Safety Equipment**

It shall be the responsibility of each competitor to ensure full compliance with all safety requirements. All entrants are subject to an inspection of any or all safety equipment prior to each event. Any participant not complying in full with all safety requirements will not be permitted to compete.

1. Approved aluminum and composite seats may be used, no fiberglass. Seats must be

- mounted with minimum of 4 bolts 5/16 diameter. Seats must be installed and used in accordance with manufacturer's instructions.
2. It is mandatory that all cars have a headrest of high impact, shock-absorbing material meeting SFI specification 45.2 behind the driver's head with a minimum thickness of one (1) inch.
  3. Five (5) point seat belts with shoulder harness and sub strap are required. Seat belts must meet SFI 16.5 or SFI 16.1, be within two (2) years from date from manufacturer (must have label). Seat belts must be installed and used in accordance with manufacturer's instructions.
  4. Helmets – All participating drivers must wear safety helmets designed specifically for auto racing that meet or exceeds the SA 2005 or SA 2010 Snell Foundation or SFI Foundation 31.1 Specifications and are labeled as such. Helmets will be subject to inspection at each event by the tech.
  5. Uniforms – All drivers will be required to wear a fire resistant driving uniform to meet minimum of the SFI 3.2/5 SFI specification and display a valid SFI 3.2A/5 label. All drivers should wear fire resistant accessories including but not limited to; head sock, under garments, and socks. All drivers will be required to wear fire resistant shoes and gloves. Shoes and gloves will be required to meet minimum of the SFI 3.3 specifications and display a valid SFI 3.3 label.
  6. Arm Restraints – Arm restraints are mandatory and must be worn at all times during competition.
  7. Roll cage nets will not be required if approved full containment seats are utilized. Roll cage padding conforming to SFI specification 45.1 mandatory if not utilizing full containment seat in all areas surrounding head.
  8. A SFI approved head and neck restraint system is highly recommended.
  9. Raceceiver mandatory.
  10. Drag link straps are highly recommended.
  11. All cars must have nerf bars, rear bumper, and hood in order to start or continue in a competition. Competitors must start the event with these items but, may continue without nerf bars during the event if damaged.

### **Driver Compartment / Cockpit**

1. Top of roll cage must be a minimum of three (3) inches above the top of the driver's helmet. Measured vertically at center of helmet.
2. Chain guards are mandatory and must completely shield the driver from the chain.
3. A firewall between engine and driver is required and must completely separate the engine from the driver's compartment. Driver's feet are required to be behind the firewall and motor.
4. Radiator and all coolers must be located in a shielded area outside the driver's compartment and cannot extend above or be located behind the driver's head.
5. No car will be allowed to compete that requires dismantling portions thereof to enter or leave the cockpit with exception of the steering wheel.
6. A kill switch is required and must be within the driver's reach with arm restraints on. The switch must be clearly marked and must disconnect electric fuel pump (if the exist) and ignition.
7. The driver shall be seated directly behind the engine.
8. Rear view mirrors are not permitted.
9. Removable steering wheels incorporating a quick release mechanism conforming to SFI

specification 42.1 are mandatory. Pin type mechanisms are not allowed.

### **Design and Construction**

All phases of design and construction are subject to approval. The official and/or tech may exclude any car, design or construction, which they deem unsafe or not meeting the specifications, the spirit and/or the intentions of the rules contained herein.

#### **Chassis**

1. Frame roll cage and halos must be constructed of a minimum 1-1/4x.095 4130 tubing.
2. Must be chain drive.
3. Bumpers and nerf bars must be bolted to the frame and cannot have any sharp edges or corners. Nerf bars cannot extend past the outside edge of rear tires.
4. All cars must be rear drive only. Engine offset is a maximum of 6" measured at the rear of the engine, center line of inside cylinders to the center line of the motor plate uprights in chassis.
5. Radius rods may not be attached within the confines of the cockpit.
6. No independent suspension. The car's axles connecting the wheels must be of one-piece tubular construction.

#### **Body**

1. The front part of the body, known as the nose assembly, shall not be wider than the parallel lines of the body and may not exceed the width of the frame. The nose assembly may not extend forward beyond the confines of the front bumper.
2. The engine must be covered with a cowling or hood secured in place. The hood or cowling need not enclose the sides of the engine.
3. Side visors on roll cage will be limited to eight (8) inches tall.
4. Only steel or aluminum floor/belly pan are permitted.
5. Sun visors must not extend forward more than seven (7) inches from the front of the forward most edge of the roll cage / halo tube, and may not be wider than the width of the cage; sun visors must be flat on both sides.
6. Panels attached to nerf bars will not be permitted.
7. All paneling must not extend past edge of frame rails more than thickness of material.
8. One (1") inch turnout allowed on all body and sail panel edges, except sun visor.
9. The car must be equipped with a rear bumper at all times.
10. Front and rear bumpers, and nerf bars must be constructed of magnetic and/or stainless steel (NO TITANIUM) tubing with a minimum O.D. Of 7/8 inch and having a minimum wall thickness of .065 inch and a maximum wall thickness of 120 inch. A maximum of three horizontal and/or three vertical tubes are allowed in the construction of nerf bars.
11. All cars must have a tubular front bumper extending forward no more than 21 inches from the leading edge of the front axle. Bumpers must be constructed so as not to cause a safety hazard.
12. Bumpers and nerf bars must be bolted to the frame and cannot have any sharp edges or corners. Nerf bars cannot extend past the outside edge of rear tires.
13. With the exception of the exhaust system, no components or accessories may be attached to the nerf bar assembly.

## **Wings**

1. Top wing to be maximum 16 sq. ft. Wing must be a single airfoil with maximum wicker bill of 2" tall and bent at 90 degrees. Wicker bill is included in the airfoil dimension. All four sides of wing body must be a straight line from corner to corner. Side panels to be maximum RS 1460 sq.in. And LS 1680 sq.in.
2. Front wing to be a maximum 576 sq.in. Must be single airfoil. Side panels maximum 12"H X 26"L.
3. No portion of either wing can be outside the tires.
4. One cockpit adjustable electric wing actuator is allowed.

## **Dimensions and Weight**

1. The wheelbase must be at least 65 inches and no more than 74 inches. (Measured center-line to center-line)
2. All cars must weigh a minimum post-race including driver:
  - A. 1000 CC Stock Engine: 950 lbs
  - B. Over 1000 CC: 1025 lbs

NOTE: Existing engines that are over 1000cc will be permitted to compete with specified weight applied. Engines under 1000cc will meet 950 lbs minimum. Early generation 1100cc and 1200cc engines would be permitted to compete at 1025 lbs.
3. A weight decal will be placed on both sides of the frame rail to signify car weight to scale operator.
4. Additional bolt on weight must be mounted and fastened to the frame and/or chassis in a secure manner. Weight must be mounted in an area between bottom frame rails, to the main frame, between front and rear axles and no higher than mid rails at cockpit. All weight must be mounted within confines of frame. **NO BALLAST/WEIGHT IN NERFS, BUMPERS, FRONT AXLE.**

## **Fuel and Fuel System**

1. Maximum 112 octane gas, E85, or Methanol. No additives or oxygenated fuels will be permitted. All fuel is subject to testing at any time. Any fuel that does not conform to these standards, as administered at the track, will be considered illegal. The use of illegal fuel could result in disqualification from the event and/or the entire program.
2. All tanks must have a minimum of four mounts to the chassis.
3. Fuel tanks may not be mounted to the chassis utilizing any portion of the access plates or the nut plates bonded into the fuel bladder.
4. The engine must be equipped with a fuel shut-off device.
5. A Midget/Micro/Sprint tank must have a bladder. Metal tanks are not permitted. Rollover valves will be mandatory. All tanks/fuel cells must be securely mounted between frame rails and behind the driver.

## **Engine Specifications**

1. Any 1000cc, normally aspirated, production motorcycle engine may be used. Engine model must be in production for two full calendar years prior to use. No limited production engines will be permitted. No current year production engines allowed. Serial number must be identifiable.

2. Engine case, cylinders, head, crank, rods, pistons, cams, valves, transmission, coatings, and clutch must remain stock OEM and operational.
3. Cylinder head may be milled for cleanup. Deck height must remain within .010" of OEM specification.
4. Degreeing of stock OEM cams is permitted.
5. All cars must be able to start the first race under their own power without assist.
6. Mufflers are mandatory.
7. Oiling system may be modified for reliability. Oil pan, cooler, lines, tank(s), and pump(s) may be modified or replaced. Cylindrical oil tanks must be mounted inside the frame rails.
8. Electronic or Mechanical Injection may be used. No weight penalty exists for either injection system. Carburetors are also permitted.
9. The motor plate may not be made from carbon fiber, or any type composite materials.

### **Electronics**

1. Aftermarket Engine Control Module(s) or Fuel Management System(s) will be permitted. Electronics that provide traction control are prohibited. No aftermarket plug-in traction control devices, wheel speed, or chain sensors will be permitted. All electronic components may be inspected, sealed or confiscated by organizer at any time. The maximum penalty for utilizing traction control is a one year suspension from competition and loss of all points earned for the season.
2. All cars must be equipped with ignition switch or emergency shut-off located within easy reach of the driver.

### **Exhaust**

1. Mufflers are mandatory. Exhaust system tail pip(s) must not be any wider than nerf bar.
2. The car may be required to have a muffler if local conditions warrant. If so, this will be stated on each individual entry blank. The technician director may disallow a muffler that in their opinion is not within the spirit or intent of this rule.

### **Suspension Components**

1. No cockpit adjustable electronic weight, shock, sway bar or any suspension item adjuster.
2. All front axles must be constructed of 4130 tubing. Titanium front or rear axles are not permitted.
3. Adjustable shocks are permitted.

### **Wheels**

1. The number of allowable wheels is restricted to two (2) front wheels and two (2) rear wheels on each car.
2. The wheel diameter must be 13 inches.
3. The wheel width is limited to eight (8") inches for both front wheels.
4. The rear wheels are a maximum in width of: ten and a half (10.5") inches for the left rear, and twelve and a half (12.5") inches for the right rear.
5. An approved tire bead locking device must be used on the outer bead seat of the right

- rear tire and wheel assembly.
6. All bolts are mandatory in bead lock and wheel centers.

### **Tires**

1. All tires must be Hoosier.
2. Any device(s) used for warming the tires prior to competition is prohibited.
3. Any solvents or a chemical applied to the tire that alter the chemical makeup of the compound or have the effect of altering tire durometer is prohibited.
4. Sipping and/or grooving is permitted.
5. Tires (LF-D12, D15) (RF-D12,D15,D20) (LR-D12, D20) (RR-SP2, SP3, SP4)
6. Electronically controlled tire pressure bleeders will not be allowed.

### **Brakes**

1. No electronic controlled brake bias adjuster. (Manual adjustment only)
2. If at any time during competition it becomes evident that a car is without brakes, the necessary repairs must be completed before the car can continue in competition.