

2020 Antioch Speedway Wingless SprintCar Rules

CHASSIS

Open to any sprint car chassis 1984 to present.

Minimum Cage structure to be no less than 1 3/8" O.D. with .095 minimum wall thickness.

Cage MUST extend 2" above driver's helmet. A halo bar will be required if driver's helmet sits too high.

NO TITANIUM. NO EXCEPTIONS.

Motor, body, seat and fuel tank must be mounted to the centerline of the chassis.

Chassis should be provided with a minimum of 6 mounting points to securely mount the seat as specified by seat and chassis

Manufacturer.

Wheelbase minimum of 82". Wheelbase maximum of 96".

Hollow or drilled bolts, fasteners or Heim joints are prohibited.

BODY / GENERAL APPEARANCE / AERODYNAMIC DEVICES

Body/chassis must be well maintained. NO JUNK. PAINT OVER RUSTED HEADERS ETC.

Must have at least one number on both sides of tail tank and on front nose piece. Minimum size of number 18" tall 2" wide and contrasting color of car.

Number must be legible and LARGE ENOUGH TO BE EASILY READ FROM THE SCORING BOOTH. NO EXCEPTIONS.

Conventional sprint car hoods allowed. Hood must extend to the front torsion tubes or a similar location on Coil over cars.

While the hood may be a multiple piece design, it must appear to be one continuous piece. Conventional side panels and tail tanks only.

NO AERODYNAMIC DEVICES ALLOWED.

NO WINGS, WEDGES, FOILS, MODIFIED BELLY PANS (flat only) OR UNDERSIDE MODIFICATIONS. NO EXCEPTIONS.

THE OFFICIAL DECISION WILL BE FINAL. No body part may be designed to trap air or otherwise form a wind break except those to cool or protect the engine or braking system.

No side foils, rudders or panels are to extend beyond rear cage support bars on any side. Body pieces to extend beyond or underneath front torsion tube with the exception of the hood.

No Gurney lips or turnouts are permitted on any body panels.

Sunshields cannot restrict driver vision.

Right side arm guard may not exceed 36" in height measured from top of bottom frame rail. The driver's right side opening must be a minimum 10 inch vertical opening at any point and a minimum 21 inch horizontal opening at any point.

Driver must be able to easily escape the car. Drivers may be asked to demonstrate this capability.

Firewall will be solid metal and fit between the engine and the driver. Access holes may be drilled for wiring linkage.

and

Floor pan must extend from the firewall to the front of the driver's seat. Constructed of steel or aluminum.

No mirrors or electronic communication devices of any kind, No sign boards.

A kill switch is required within easy reach of the driver and Safety Crews. It must be clearly labeled "ON" and "OFF."

ROLL CAGE

Roll bars shall be of the full cage type, mild seamed steel 1 1/2" or 1 3/4" X .120 wall minimum. 4130 Chromoly 1 1/2" or 1 3/4" X .095 wall minimum.

All "T" intersection must be gusseted and welded on both sides.

Cage to be above driver's helmet by 2". A halo bar will be required if drivers helmet sits too high.

You may be asked to drill 1/4" hole in roll cage for inspection purposes.

The tech officials or must approve all roll cages.

SUSPENSION AND STEERING COMPONENTS

Any conventional torsion bar or coil-over suspension is allowed.

Combining the two is allowed. Independent rear suspension is not allowed.

Straight front axle only. Aluminum or Titanium front axles are not permitted

One shock per wheel.

Quick release steering wheel mandatory.

NO COCKPIT ADJUSTABLE SUSPENSION DEVICES. NO EXCEPTIONS.

Drag links must be tethered to the frame with nylon webbing of at least 1 inch width.

WEIGHT

Minimum weight 1600 lbs on all cars with the driver fully suited in the car. *1650 for cars with roller cams

All added weight should be in block form or formed to frame, PAINTED WHITE, with the car number on it. Bolt on weight is permitted but must be securely installed on the cars' basic framework and must be located in the area between the bottom frame rails and axles but mounted no higher than the upper rails. No one piece weights over 20lbs.

Weight cannot be added, moved, or replaced during yellow or red flag conditions.

WEIGHT PENALTIES

Any car weighing less than 1600 lbs (or 1650 lbs for cars with roller cams) after the main event, will be scored last place and forfeit all prize money for that night.

ENGINE

360 cu. in. + 2% (367.6 MAXIMUM cu. in. with NO EXCEPTIONS).

Cast iron block and heads required.

All engine cylinders must be machined from iron/steel alloy only.

Only two valves and one spark plug permitted per cylinder.

Only normally aspirated motors are permitted. No turbo, superchargers or forced induction of any description will be permitted.

Dry sump oil systems OK.

Engine connecting rods must be 100% steel. There must be an inspection plug in the oil pan. Either a #12AN fitting or a 1 inch pipe plug. If a car is to be inspected and there is no inspection plug in the oil pan it will be required to pull oil pan for inspection.

RODS

Steel rods only

PISTONS

Any

CAMS

Any stock or aftermarket flat taper cam and lifter.

Roller cams and lifters allowed must weigh 1650 lbs.

GEAR DRIVES

Are Allowed

CYLINDER HEADS

Must be OEM or aftermarket cast iron heads only.

All heads must be stock valve angle for make. (Chevy = 23 degree, Ford = 20 degree, Dodge = 18 degree)

Grinding, porting and polishing of heads are allowed.

No angle milling of heads.

All casting numbers must remain visible.

ROCKER ARMS

Roller rocker arms or roller tip rocker arms are allowed.

Stud girdles and Shaft Rockers are legal.

INTAKE MANIFOLD

Aluminum 4bbl. intake manifold OK. 1/2" pipe plug in valley area of the intake manifold, (Between carb. and dist.)

To check cams with-out opening engines or pulling distributor.

External modifications to intake are not allowed.

B. Ram intakes are NOT allowed.

CARBURETOR

Must have THREE METAL throttle return springs MANDATORY.
Must have toe strap on throttle pedal.
Bottom of carburetor may be no more than 4" from top of manifold.
Holley #4412 or Demon or 9647 Series 500 cfm. 2bbl carburetor.
1 11/16" throttle bore; shafts and throttle plates must be stock.
External jets OK.
Choke tower may be removed
Track Go-No Go Gauge will monitor carburetor specifications.

IGNITION

All Battery-powered ignitions or Magnetos will be allowed.
Cars must have a clearly marked ON/OFF ignition switch within reach of the driver and visible to rescue workers.

FUEL PUMP

Electric pumps are NOT allowed.

FUEL

Racing methanol or gas only. No Nitro or Nitrous Oxide.
No fuel additives or oxygenating additives of any kind are allowed.

FUEL SHUTOFF

Fuel systems must have shut off device within reach of the driver, marked in large bold block letters and painted a

"Day glow-Red" color for easy identification.

A Waterman Shut-off system is recommended for additional safety.

All fuel lines and filters will be securely and safely mounted to the satisfaction of the officials or race committee. NO EXCEPTIONS.

FUEL CELL

A securely mounted fuel cell with bladder is required. Midget or sprint type is OK.

Minimum 25 Gallon tank. Maximum of 40 Gallons.

Fuel tanks may not be mounted to the chassis utilizing any portion of the access plate or the nut plates bonded into the fuel bladder.

Mounting fuel tank to chassis: All mounting points must have inner and outer plates attached to the shell or use mounts molded into tank. The plates must be of adequate size to insure the tank being secure to the chassis. All tanks will have four different mounts to the cage.

Tank vent MUST have check valve.

All fuel cell mounts subject to safety inspector's or race committee approval.

Any car leaking or spilling fuel will be black-flagged.

RADIATOR

Must be in front of engine.
Ant-freeze is not allowed.
Water Wetter additive is allowed.

DRIVE-LINE

All drive trains must have a driveline or rear end coupler system (to disengage rear end from engine). Torque arm drivelines are not allowed. All drivelines must be enclosed and have no more than 1 u-joint and that u-joint must be at the front of the drive line.

Buckley Yokes OK.

All cars must utilize either a driveline strap or a drive line hoop restraint constructed of .065 inch steel either welded or bolted to the chassis. Metal hoop restraints must react positive to magnet testing. The rear cross member used for mounting the steel driveline hoop must be constructed of .083 inch steel

Steel or approved aluminum shield that covers the flywheel is mandatory when bell housing is inside the cockpit.

REAR-END

Any conventional quick change rear end is allowed with a maximum 2" offset.

BATTERY/STARTERS / Optional

Recommended battery location is under driver's seat.

Battery is must be sealed

Starters are optional. There are no penalties for not self-starting.

BUMPERS

Bumpers and nerf bars must be sprint car type bars and securely bolted to the chassis.

Bumpers and nerf bars will be constructed of no less than 1" O.D. and .060 wall thickness. Side nerf bars may have a triangular or 4 point configuration and may not extend outside rear tires

The front bumper may not extend more than 8 inches from the frame or 23 1/2 inches from center of front axle to front of front bumper.

TIRES

Current track tires are good for the remainder of the 2020 racing season only.

Rear: Only the following Hoosier Tires will be permitted for competition:

Right Rear: HTW, or 105/16 Medium.

Left Rear: Open – Hoosier only

Fronts: Open – Hoosier only

The altering of any tire compound, by any means will not be permitted. Chemical alteration of the tread carcass and/or tread compound, such as tire ‘soaking’ and or the introduction of tread ‘softener’ will not be permitted.

WHEELS

Any aluminum, steel six-pin or spline wheel are OK. Any wheel offset is allowed.

Maximum wheel width: Front 10”, Left Rear 15”, Right Rear 18”.

Bead locks on all wheels is recommended.

Plastic or carbon fiber wheels are not allowed.

BRAKES

Minimum left front and left inboard rear brake system. Front and rear brakes must work at start of event. Rear

brakes must work at ALL times. Additional rear brake OK.

Steel, cast iron, aluminum or titanium rotors only. Carbon fiber rotors are not allowed.

No copper or plastic brake lines.

EXHAUST / MUFFLERS

Mufflers are mandatory.

Mufflers to be securely fastened.

Mufflers and headers must remain attached. All muffler and header components must remain intact and operating.

Failure to comply with this provision will result in automatic disqualification (Black Flag).

Track DBA requirements must be met 95dba @ 100’.

SEATS

High-back Aluminum (Stock car style) seats should be securely mounted to the frame as recommended/required by seat manufacturer and chassis manufacturer. Sprint car suitable FIA manufacturer approved composite seats are permitted.

Head rest (behind the head) should include padding.

Seat should be mounted in 4 places to the chassis with minimum 5/16" steel bolt and nut.

Mounting hole in seat must have a 2" diameter mounting plate with a minimum .060".

Positively No Homemade Aluminum, Plastic or Fiberglass seats allowed.

A right head net or support is highly suggested. Head nets must be equipped with quick release mechanisms.

SAFETY BELT REQUIREMENTS

General - Each Competitor is solely responsible for the effectiveness of personal safety equipment used during an event. Each competitor is expected to investigate and educate themselves with the effectiveness and availability of personal safety equipment.

Seat Belts - Each car should be equipped with an SFI 16.5 or SFI 16.1 approved seat belt restraint system until the date of the belt expiration (usually two years). Seat belts restraint systems shall be installed in accordance with the directions and application of the system supplier or manufacturer. (A quick release seat belt and shoulder harness no less than 3" wide and submarine belt (crouch) are mandatory. 2" wide shoulder harness for Hans device ok).

Seat belt webbing that comes into contact with any sharp or metal edge should be protected from that edge by means of push on grip vinyl trim. Seat manufacturers supply the seat with trim protecting the webbing from abrasion or cutting under impact conditions and should be used to their specifications.

It is the responsibility of the driver, not the Track, Officials or the Promoter to ensure that his/her seat belt restraint system and all components are SFI approved, correctly installed, maintained and properly used.

All belts must be mounted to the roll cage separately from the seat with 7/16" grade five bolts minimum or 3/8" grade five bolts for ratchet belt hold-down.

Belts must come from behind driver. The mounting position is important! Shoulder belt should be mounted approximately 4" below the shoulders. The lap belts mounting should be the same width of the driver.

Harness/belts must be worn at all times when the car is on the track.

2 year old on belts maximum. The date stamp must be readable and

belts must not be worn (frayed) or they will have to be replaced for your safety.

SECTION 8

SAFETY

Driver should wear a full face helmet, with at least a valid SA 2005 Standard Snell and/or a valid SFI 31.1, SFI 31.2 or SFI 31.1 2000 label at all times on the track or when car is fired. The driver should wear the helmet in accordance with the directions provided by the helmet manufacturer and/or supplier.

Neck collars or HANS type device required. HANS type devices are highly suggested. If a head and neck restraint system is connected it should conform to the manufacturer's mounting instructions.

Helmet and face shield must be worn at all times while operating a car on the race track. No goggles permitted.

Each driver should wear a fire resistant uniform meeting the SFI 3.2A/5 specification and display a valid SFI 3.2A/5 label.

Each driver should also wear fire resistant accessories that effectively cover the remaining parts of the body. Shoes and gloves should meet the SFI 3.3 specification and display a valid SFI 3 label. Nomex-type or equivalent fire resistant uniforms (suit), gloves, neck brace, shoes, are mandatory. Nomex-type or equivalent hood socks or skirts mandatory. Nomex-type or equivalent socks, underwear are highly suggested. Right Side window Net suggested. Window nets must be equipped with quick release mechanisms.

Quick release steering wheel mandatory.

Arm restraints are mandatory.

Flame retardant roll bar padding, knee and steering pads or padding highly suggested.

OTHER SAFETY ITEMS

No sharp or protruding edges in or around the cockpit, which would impede the driver's rapid exit from the car.

Windshield screens with a minimum of .090 inch screens must be securely fastened.

A marked electrical kill switch in reach of driver.

A marked fuel shut off valve in reach of driver.

Flame retardant seat padding is suggested.

GENERAL SAFETY REQUIREMENTS

A medical examination of any driver may be required as needed by officials for safety.

All wrecked cars must be inspected by a safety official before re-entering competition. A race car may be inspected by officials at any

time.

Any car found to be illegal will be disqualified from competition.

Seat belts will be used at all times.

All moly or heim ball joints will have flat washers installed.

FIRE CONTROL

It is recommended that teams have in the rear of their transporter an easily accessible fire extinguisher of at least 2.5 gal FFF or equivalent.

ROLL-OVER REGULATIONS

Any car or driver rolling over may be subject to approval to participate in any event that night, unless cleared through the track official. Any official may make comments in regards to the condition of the car and/or driver. ANY CAR, TEAM, OR DRIVER NOT MEETING SPEEDWAY SPECIFICATIONS, OR STANDARD RACING SAFETY PROCEDURES AND EQUIPMENT, IS SUBJECT TO AUTOMATIC DISQUALIFICATION AND/OR PENALTIES.

RACECEIVERS

WORKING Raceceivers are MANDATORY

PROTEST ENGINE/TRANSMISSIONS/CHASSIS

Participating car owners and drivers ONLY may protest another car's compliance with the rules. Car must be still

running competitively at end of feature. The protest must be filed with the Race Director with a \$500 deposit (\$350 protest \$150 Tech Time) for a top end inspection which includes all top end items plus the piston rod assembly, timing chain, camshaft. Deposit must be within 10 minutes after the main event and protested CAR OWNER may counter protest within 10 minutes after being notified. Once the Technical Inspector receives protest money, protest has begun.

Money will not be dispersed until protest inspection of the engine rules and office notified of results. If anything else regarding the engine is being questioned it must be written down on the original protest, it must state what is to be inspected.

Tear down location at track shall be agreed upon by both Drivers. Officials will make final decision if drivers can't agree.

Tear downs will be made by the driver, one pitman or mechanic, the Technical Inspector or person chosen by him to be an observer and two alternates. The committee will also safely check cars and assist in rules interpretations.

If declared legal the deposit goes to the protest owner. If declared illegal the deposit is returned to the protester, the car and owner/drivers will be penalized 100 Championship Points and receive no money for that night of racing or points.