

Desoto Wingless Sprints

TECHNICAL NO TOP WING & NO NOSE WING ALLOWED

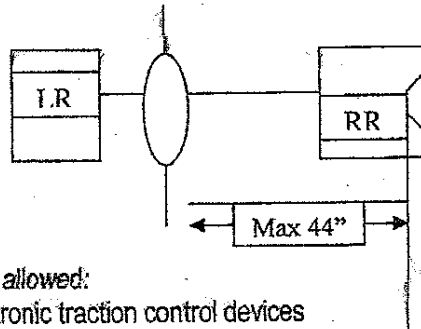
Body & Frame

- 1) Must be a Sprint Car design, no roadsters or super modifieds.
- 2) **WEIGHT RULE 1,600 lbs with driver after race.**
- 3) No airfoils, wings, or other aerodynamic appendages will be allowed. Officials may have any panel removed which in their opinion is not within the rules.
- 4) No aluminum, titanium or bolt on cages allowed. Only special racing type.
- 5) Approved tail & tank with bladder(mandatory)
- 6) Sun visors are limited to a minimum of 7" inches from the top to the bottom and a maximum of 9 1/2" inches including tabs, extensions, etc. and cannot be wider than the cage. Sun visors must be flat on both sides. Wicker cannot exceed 1" inch for aerodynamic advantages. For fan recognition it is recommended that the driver name appear in large letters on the visor.
- 7) All cars must have effective hood latches and must be securely fastened at all times during competition.
- 8) Surface width not to exceed two (2) inches wider than the frame. Side risers not to exceed two (2) inches.
- 9) Front body work sheet metal not to exceed more than 8" in front of forward frame cross member tube and maximum length as measured from front of axle not to exceed 28"
- 10) The car appearance must be clean and look professional. If car doesn't meet the standards you could be asked not to participate until it is cleaned up.
- 11) Side nerf bars, front and rear bumpers are required.
 - a. Front bumpers and nerf bars must not exceed 1" O.D. Nerf bars can not extend beyond the limits of the wheels/tires on either side.
 - b. Rear bumpers must be constructed of 1" minimum O.D. x .065 wall all steel tubing and should be pinned to allow for lifting.
 - c. Side panels can be used on nerf bars if bolted to nerf bar by 1/4" bolts. (NO tie straps) Must be attached on 4 corners & center. Panels to be designed out of .040 to .060 aluminum material or Lexan. (NO plexiglass)
- 12) All body parts must be securely attached to the frame, but must be readily removable and not rigid mounted.
- 13) Racing approved seats only and they must be attached to the frame. (Suggested aluminum seats).
- 14) Wheel base must be a minimum of 84" up to a maximum of 90" center to center of the hubs.
- 15) Drivelines must be between the driver's legs. No open drivelines permitted. Must have Safety Hoop or STRAP. Web for steering optional. No titanium drive shafts or driveline. No carbon fiber torque tubes.
- 16) All open yoke drivelines we strongly recommend you have a scatter shield, which must be approved by safety inspector or director of competition.
- 17) No cantilever rear or front ends allowed.
- 18) No aluminum chassis. No titanium front or rear axles.
- 19) No titanium or carbon rotating mass.
- 20) No lead or pellets allowed in any bumper or nerf bar.
- 21) The engine drive line and center section of the rear axle must be mounted on the chassis centerline at ninety (90) degrees angle to the front and rear axles of the car. The engine must be mounted to the chassis in a vertical position, a maximum of one (1) degree variation will be allowed as measured from the crankshaft centerline. Driver must not be positioned on or beside the engine. All cars must be rear drive.
- 22) Centerline to frame. To establish the centerline of the frame do the following:
 - a. Establish the center of the front frame cross member and center of rear cross member.
 - b. Establish a line between these two (2) points, which will be considered the centerline of the chassis.

- c. Fuel tank, seat, driveline, and engine must be within $\frac{1}{2}$ " of this centerline in either direction.
- 23) No independent suspension front or rear. Front axle must be single tube with kingpin bosses securely welded at each end as ordered from any sprint car supplier or manufacture. (Note: may be straight or dropped axle but must remain one piece). See sketch below. Optional 4 point pick up.



- 20) Maximum amount of offset for right rear wheel. The maximum distance from the centerline of the driveline to the outermost portion of the right rear wheel is forty-four (44") inches. (Note this measurement is to the outermost part of the wheel and not the sidewall of the tire. See sketch below.



- 24) None of the following allowed:

- a) Electronic traction control devices
 - b) On board computers or any other computer adjustable devices
- 25) Location of liquid carrying devices. Coolers and/or radiators must be mounted inside the frame rails and may not be out more than 12" from the pre-established centerline of the chassis.
- 26) No oil coolers, water coolers or any other type of liquid in the driver's cockpit.
- 27) No internal driver adjustable shocks.
- 28) NO adjustable weight jackers. If you have a weight jacker installed in the car you must have it disabled.
- 29) If battery is used it must be contained in a battery box.
- 30) Firewall must be installed between the engine compartment and the cockpit.
- 31) Mandatory to install floor pan in driver cockpit area and belly pan from the motor plate forward to the front of the radiator. This must be fabricated from steel or aluminum. It is recommended you also use what is known as a diaper (not pampers).
- 32) Mufflers – headers must merge into collector. All cars must meet decibel requirements of the individual tracks.
- 33) NO RADIOS on board or crew radios allowed.
- 34) Race receivers will be mandatory you must have one to participate in race.

Roll Cage & Restraints

The main members of the roll cage (bar) must be constructed with a minimum of 1-3/8" O.D. x .095 wall 4130 chrome molly tubing. For 1020 Shelby tubing, 1-1/2" x .125 wall is recommended.

- 1) Main members of the roll bar must be braced to the front or rear with material having a minimum of the same wall thickness as the main member with at least 7/8" diameter. Recommended rear bracing used and be made from the same diameter tubing as min member.
- 2) Braces must be attached to the main members at a point within six (6) inches from the top of the rear transverse member as close as possible.
- 3) Roll cage must extend at least two (2) inches above the driver's helmet when sitting in an upright position. Roll cage padding is recommended.
- 4) Seat belts (5 point harness) must be at least three (3) inches wide. (Racing approved belts only) Belts must not exceed 3 years old. And be stamped by the manufacture. All belts must have labeling showing that they meet SFI specifications 16.1 or 16.5 this also includes shoulder harness

- and crotch belts. Belts must have metal quick release button. If belts are worn or out of date the technical inspector has the right to restrict you from said event.
- 5) Belts must come through the seat at the bottom of each side, therefore wrapping and holding the greatest possible area of the pelvic region of the body.
 - 6) Anti-submarine (crotch) belt is mandatory
 - 7) Cage "Window Net" is mandatory on both sides of car. ONLY if you do not have a full contained approved racing seat.
 - 8) HELMETS- All Drivers must wear a helmet designed for Auto Racing with a minimum safety rating of FIA8860-2004, FIA 8860-2010, Snell SA 2005, Snell SA 2010, Snell SAH 2010, Snell Foundation 31.1/2005.
 - 9) All drivers must wear fire resistant head sock, underwear, socks, gloves and a one piece uniform fitted snugly at the neck, wrist and ankles. It is highly recommended that these items meet SFI specifications 3.2A and 3.3.
 - 10) A SFI approved head and neck restraint is recommended. Example Hans or Hutchens type.
 - 11) Approved racing boots only (No sneakers).
 - 12) Driver uniforms must be in clean condition and not covered with dirt and oil.
 - 13) Knee guard recommended.
 - 14) All equipment will be inspected.
 - 15) When being pushed off please wave off the push truck.

Engines

Blocks:

American Manufactured cast iron block for automobiles or trucks with a stock camshaft location and has eight (8) cylinders. NO Aluminum or Billet Blocks permitted.
Maximum of three hundred sixty six (366) cubic inches.

Ignition:

Ignition is optional. Must have a shut off switch within easy reach of the driver or the outside rescue crew in case of an emergency. Must be plainly marked!
NO NITROUS! No superchargers or turbo chargers permitted.

Fuel & Air Systems

- NO Gasoline
- Fuel must be Methanol only. (The only additive permitted is Top Oil)
- Mandatory Fuel Shut Off clearly marked.
- Fuel is subject to testing without notice. Being found illegal will result in disqualified and the loss of all monies and prizes. Loss of season points.
- Any device or materials that artificially reduce the temperature of the fuel is prohibited (except fuel covers).
- No plenum type injector system allowed. One injector and butterfly per cylinder is required. Injectors with sleeves to reduce intake volume will be allowed.
- Reducing sleeves a minimum of three (3) inches in length must be installed in the stacks above the butterflies.
- On Chevrolet engines the injectors must be no larger than 2-3/16" PLUS .005" inside diameter of the injector stacks. All Ford engines are not to exceed 2.100" plus .005" inside diameter.
- No relief holes or grooves may be exposed above or below the butterflies on the injectors.
- No glass filters or pumps permitted

Heads:

Only stock appearing heads for the engines with two (2) valves and one (1) spark plug per cylinder allowed. Twenty three (23) degree angle heads must be within plus or minus 2 on Chevrolet. All heads must remain within two degrees of 23 degree valve angle heads. This rule pertains to small block Chevy; however any engine may be used after approval

You must use stock valve angle cylinder head for the make of engine. No modifications.
Spread port exhaust will be allowed.

Titanium:

NO TITANIUM in the engine excluding valves and valve retainers.

Oil pan inspection plug of at least 1" NPT is required so it is accessible for inspection of crank shaft material. If you do not have a plug you will be asked to pull the pan.

Wheels & Tires:

- a. NO PLASTIC or CARBON FIBER WHEELS acceptable.
- b. Wheels designed for racing only.
- c. All cars must have a safety pin in both rear wheels, on the outside of the wheel nut.

Steering:

Steering system must be engineered and assembled in accordance with sound engineering principles.

Approved removable steering wheel disconnects only. NO plastic parts acceptable.

Steering must be on the left or right side, no rack & pinion.
