



Ventura Racing Association

SPRINT CARS 2010

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Preface

The rules and/or regulations set forth herein are designed to provide for the orderly conduct of racing events and to establish minimum acceptable requirements for such events. These rules will govern the condition of all events and by participating in these events all members are deemed to have complied with these rules. No expressed or implied warranty of safety will result from the publication of or compliance with these rules and/or regulations. They are intended as a guide for the conduct of the sport and are in no way a guarantee against injury or death to participants, spectators or others.

VRA reserves the right to amend by addition or deletion any rule by notifying members, in writing or posting at the track office same changes, at least seven days prior to implementation of said addition or deletion. Rules involving safety may be imposed immediately.

Rules will be imposed as written. It is your responsibility to be familiar with all rules. Official's decision shall be final in all cases.

Mailing Address

2810 West Wooley Road
Oxnard, CA 93035-2540
For Rule Information
Raceway Office (805) 985-5433
Raceway Fax (805) 984-3095
Raceway Track (805) 648-RACE

Track located at

Seaside Park
Ventura County Fairgrounds
10 West Harbor Blvd.
Ventura, CA 93001
off the 101 Freeway



www.VenturaRaceway.com

VRA SPRINT CAR

Safety

All cars must be equipped with the following:

1. Working Ignition switch
2. Check valve in fuel line vent
3. Working fuel shut-off valve
4. Brakes: Minimum three wheel working brakes. (in board brakes allowed)
No titanium rotors allowed.
5. Front and rear bumpers, the rear bumper must be steel, attached in a safe manner. No cotter keys or rivets.
6. Quick release steering wheel. Bolts must be safety wired and equipped with a center pad.
7. Roll cage padding in areas that may make contact with head.
8. Headrest with resilient material. It must be mounted behind driver's head and firmly supported. Seats with built in head rests ok.
9. Competition approved 3-inch seat belts, including 3-inch over the shoulder and 2-inch adjustable crotch strap and arm restraints. Metal to metal buckles required on seat and shoulder belts. Seat belts not to be more than two (2) years old. No cam lock type latches allowed.
10. Snell Sa2000 or newer helmet.
11. All drivers must wear SFI rated fire suite, a minimum two (2) layers, gloves, shoes, socks, hood, and neck brace whenever car is on racing surface.
12. Properly attached roll cage net on right side mandatory, except on cars equipped with full containment type seats. Net shall be securely attached. No temporary fasteners such as tie wraps, bailing wire, tape, etc.
13. Rock screen mounted in front of driver in cockpit windshield area to provide driver protection required.
14. The drive shaft must be fully enclosed. Shaft strap or drive loop mandatory. Must be located at center portion of drive shaft. Buckley joint must be shielded in such a manner to protect the driver from errant fluids.
15. Driver's head must be a minimum of two (2) inches below the lowest section of the top of the roll cage when securely belted into the car with helmet on. A VRA tech approved halo may be added to the top of the cage if needed.
16. Fuel cell safety valve recommended. Must be mounted on driver's left side of roll cage twelve (12) inches below top of cage.

Body and Chassis

1. Any sprint car chassis is allowed, but it must pass any test prescribed by safety inspectors to insure its safety of design and construction. No roadster type chassis allowed. Only sprint appearing type bodies, tails, and hood will be allowed. The roll cage must be of a four-post design. The cage must be constructed of 1 3/8"OD x .095 inch wall thickness minimum. No dirt champ cars. No elliptical (oval shaped) tubing used on or as a part of the main structure. Minimum wheelbase of 83 inches, maximum wheelbase 90 inches. No titanium rotating parts parts allowed.
2. Fuel cell securely mounted. Bladder mandatory. May not be pressurized. Fuel cell must be mounted directly to chassis. No spacers. Minimum of four (4) mounting points. All mountings subject to tech inspection and approval.
3. Securely mounted bumpers and nerf bars mandatory. No aluminum frames, bumpers, or nerf bars. Nerf bars must not extend outside of tires. Side nerf bars which cover at least ¾ of the rear tire width, three (3) point attachment.
4. All cars must start and complete each race with side and rear nerf bars intact. Cars must start race with front bumper intact but may continue to run with front bumper missing if lost during event.
5. VRA approved ,Extreme or Spintech 180 degree Mufflers are mandatory and must meet the current requirements. Cars may not continue to run if they lose a muffler during competition.
6. Headers must be a minimum of .035.
7. Steel or aluminum brake rotors only. No Titanium rotors allowed.
8. No two-way radios or communication devices allowed.
9. No rear view mirrors.
10. All seats must be bolted to the frame with a minimum of four (4) locations (2 on the bottom and 2 in the back) with 3/8" diameter, grade eight (8) minimum, bolts and 1 ½" OD steel flat washers between the head of the bolt and seat.
11. Rear end: Rear axle must be of open tube or full floating axle type.
12. Throttle pedal toe loop mandatory. Two throttle return springs mandatory. One on pedal linkage and one on injector linkage.
13. Any throttle cable must be of push/pull design, such as a Morse Cable type.
14. No driver adjustable shock absorbers or suspension allowed.
15. No forced air induction allowed. (ie. sealed ram induction to injectors)

Minimum Weight Rule

1. A car must weigh a minimum of 1,500 pounds, with driver, after race.

Engine Rules

1. Steel, small block, 360 Cubic inch displacement (360 plus 1% =363.6) Chevrolet type engines only. All cars must be fuel injected no carburetors. No throttle body or plenum type injectors allowed.
2. No V-sixes.
3. No Titanium in engines, excluding valves, valve retainers, and cam drive spud.
4. Aluminum heads are allowed.
5. No down nozzle injectors.
6. Injectors: No relief hole may be drilled above the butterfly on any injector. No alteration of injector manifold mounting hole will be allowed.
7. Heads: No Brodix #12 heads, no 18 degree heads, no canted valve heads, no roll over heads, no heads other than original 23 degree valve angle heads. All aluminum heads must remain within 1 degree of the original 23-degree valve angle.
8. Approved heads must have an unaltered ASCS intake restriction gasket installed or a set of 1 7/8 inch USAC approved intake restrictors. Unaltered means absolutely no modifications to bolt holes or port sizing! These gaskets are to be installed with the logo to the top.
The ASCS restrictor gasket must protrude a minimum of .150 inch into the roofline of the injector port. The .150 inch protrusion must extend fully across the roofline of the intake port in the manifold. There shall be no streamlining or recontouring of intake ports or injectors to reduce the effect of the restrictor gasket. No step studs or relocating bolt holes. You cannot enlarge or relocate restricting gasket bolt holes.
9. Penalty for altering an ASCS gasket is a mandatory three race suspension of car and driver, forfeiture of all points and moneys won during the race, after which the infraction was found and \$500.00 fine. The fine applies to car owner and must be paid prior to the car's return to competition.
10. No turbine driven, turbo or blowers allowed.
11. Only two valves and one spark plug per cylinder allowed.
12. No computer operated ignition systems or controlled parts, such as fuel injections fuel systems, chassis adjusting systems, etc.
13. No traction control devices of any kind.
14. No offset motors will be allowed. Engine must be directly in front of driver. Driver must straddle drive line.
15. No crank fire ignition allowed.

Wheels and Tires

1. Maximum right rear wheel width is 18 inches, left rear wheel width 15 inches. Wheels may be either aluminum or steel.
2. No stock, wire, plastic, titanium, or carbon fiber wheels allowed.
3. May run beadlock on any wheel.
4. Right rear tire must be a Hoosier Tire 102.0/16.0-15 with VRA stamped on tire. (Unless other wise specified) Left rear Hoosier RC 1 series. Two front tires must be Hoosiers.
5. No tire softening or conditioning allowed.
6. No recaps allowed

Fuel and Coolant

1. Methanol or Ethanol only.
2. No performance enhancing additives allowed. No nitrous oxide injection allowed.
3. No flammable liquids allowed in cooling system.
4. No glycol based coolants allowed.

Titanium Parts

1. Titanium Parts Allowed: Titanium shock pins, torsion bar stops, king pins, spindle bolts.
2. Titanium Parts Not Allowed: Any rotating parts in engine, driveline or on wheels. (IE. Driveline, coupler, lower shaft, cranks, rods, rotors, wheel bolts, etc.)