

WILROC LITES

WINGLESS SPRINT CAR RULES
2009/2010

Safety Rules Revised July 19, 2010

Tire rule updated February 2010.

Any questions relating to the rules are to be put in writing attention Russ Crawford and you will receive a clarification to the rule in question back in writing.

2010 EXECUTIVE

President: Russ Crawford
Vice President: Sherri Conway
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Rules Disclaimer and Release

The following rules are designed to establish certain minimum accepted requirements for, and the orderly management of, WILROC sanctioned events. They are intended to be followed by all racing teams (including owners, drivers and pit crew members) participating in WILROC racing events, but WILROC reserves the right to interpret, change or modify the rules at any time.

WILROC officials (including board members, committee members and race day officials) are empowered to make the necessary changes, modifications and interpretations of the rules at their sole discretion and their decision is final and cannot be challenged, except as outlined in the rules below.

All participants in WILROC sanctioned events understand that racing is a dangerous sport. By participating, each person agrees to follow the WILROC rules, accepts the risk inherent in sprint car racing, accepts that the rules in no way guarantee the safety of any participant and agrees to release WILROC from any liability for injuries or damages.

Racing teams are solely responsible for the design, construction, fabrication and maintenance of their sprint cars and related equipment, as well as safety equipment (including seat belts, head and neck restraints, arm restraints, safety netting, helmets, racing suits and shoes) used in the sprint car or worn by the driver and pit crew members. WILROC rules must be followed, but it is the responsibility of all participants to ensure that their sprint car, driver and crew are safe.

WILROC is not responsible for any damage or injury to equipment or participants at any WILROC sanctioned event.

THERE IS NO EXPRESS OR IMPLIED WARRANTY OF SAFETY FROM THE WILROC RULES, COMPLIANCE THEREWITH, OR PARTICIPATION IN WILROC SANCTIONED EVENTS. BY PARTICIPATING, EACH PERSON ACCEPTS ALL RISKS ATTACHED TO SUCH PARTICIPATION AND RELEASES THE WILROC SPRINTCAR ASSOCIATION, ITS OFFICERS, DIRECTORS, OFFICIALS, EMPLOYEES AND AGENTS FROM ANY AND ALL LIABILITY, AND INDEMNIFIES THEM JOINTLY AND SEVERALLY FROM ANY LEGAL ACTION ARISING FROM ANY EQUIPMENT DAMAGE OR INJURY SUFFERED BY THE PARTICIPANT AT ANY WILROC SANCTIONED EVENT.

VOTING: Only one vote for representative of a car (owner or driver). Multiple car teams have only one vote. Car must have competed under the WILROC banner to have voting eligibility NOTE: The following rules are subject to change in the fairness of competition.

WILROC Rules shall apply at all WILROC events. Track officials and/or WILROC officials will be responsible for enforcement at all WILROC sanctioned events. At the discretion of WILROC officials in charge, any competitor may be disqualified for rule violations, hazardous equipment or unsafe actions. All race cars at a WILROC sanctioned event are subject to inspection at any time. Approval of a race car, at a WILROC sanctioned event, by WILROC official(s) shall mean only that the car is approved for participation in a competitive event and shall not be construed in any way to mean that the inspected race car is guaranteed mechanically sound.

The WILROC official(s) shall not be liable, nor shall WILROC, for any mechanical failure, and not for any losses or injuries resulting from same. Tech and safety inspections may occur at any time and are solely at the discretion of the Tech and Safety Committee members.

Absolutely NO alcoholic beverages will be consumed by drivers or their pit crew members prior to or while competing in any WILROC sanctioned event. Use, sale or distribution of illegal drugs at ANY TIME shall be cause for immediate, indefinite suspension.

All drivers must be at least 16 years of age (proof of age required). Drivers under 18 years of age must have a signed and notarized Parental Consent Form by parent or legal guardian and said document must be in the hands of the WILROC officials prior to participation in any event. (NOTE: The Sanctioning body may require a participant to undergo a physical examination before being able to compete in a WILROC sanctioned event).

A ROOKIE is a driver who has not driven a WILROC race car previously. Rookie drivers will be examined by WILROC officials and must receive their approval prior to being able to compete.

SAFETY

1. Roll cages are mandatory on all cars and must be constructed of seamless steel tubing with a Minimum O.D. of 1¼" and a minimum wall thickness of .095. This structure must be attached and secured to a strong component of the chassis structure and adequately braced fore and aft to secure it in an upright position. All roll cages must pass technical inspection. Roll bar cage must be a minimum of 2" higher than the driver's helmet. Any bars in close proximity of the driver's helmet must be padded with high impact material conforming to SFI Foundation Specification 45.1. securely fastened to the bar. Driveline hoop and bar at bottom rear of seat required. Safety inspector reserves the right to drill a 1/8" inspection hole.

2. Fuel cells must be securely mounted behind driver and well protected. Bottom of fuel cell must be above frame rail. Fuel cells must be USAC approved type. Sprint car fuel cell must be centered in rear of chassis. Plastic fuel tank may be used and must be enclosed in 20 gauge steel minimum with the filler ring grounded to the can or chassis, and must be covered by a Sprint Car type shell. Gas caps must be approved racing type. No plastic fuel lines; must be reinforced pressure hose. Tank must be vented in a manner that it will not leak if upset. Main fuel line must have ¼ turn shutoff valve between the tank and fuel filter. Fuel shutoff must be clearly marked as to ON and OFF positions. It is mandatory that the valve be visibly accessible from outside the car. No plastic or glass fuel filters. No spring type clamps on fuel lines. All electric fuel pumps must use oil pressure activated switch.

3. No refueling on the track. All refueling must be accomplished in the pit area unless otherwise designated. Driver must be out of the car when refueling. Fueling with the driver in the car will result in \$100 fine and back-of-pack start. A second offence in the same season will result in the loss of points and monies for the night.

4. All drivers must wear fire resistant head sock, underwear, socks, gloves and uniform able to fit snugly around the neck, wrist and ankles. It is required that the uniform meet SFI 3.2/5 foundation specifications. Footwear must be fire resistant racing apparel. All safety equipment is to be clean and in good repair.

5. All participating drivers must wear safety helmets designed specifically for auto racing that meet or exceed the SA2000 or SA2005 (SA2005 or better for 2011 season) Snell Foundation or SFI Foundation 31.1 Specifications and are labeled as such. Helmets will be subject to inspection at each event by the Technical and/or medical representative. Face shields required. Helmets must be replaced following any severe contact. A head and neck restraint system is mandatory.

6. Seat Belts - The use of an approved seat belt is mandatory. Both the fastening design and condition of the belt are subject to the inspection of the Technical Committee. Life of the belts in use shall not exceed three (3) years and must be date stamped by the manufacturer. All belts must have a label showing that they meet SFI specification 16.1 or 16.5.

a. Seat belts must be worn as tight as possible.

b. Seat belts must be worn in such a manner that it passes around the pelvic area at a point below the anterior superior iliac spines. Under no condition may it be worn over the area of the intestines and abdomen.

c. Seat belts must come through the seat at the bottom of each side thereby wrapping and holding the pelvic area over the greatest possible area. At any point where the belt passes through the sides of the seat, the seat edges must be rolled and or have grommets to prevent chafing or cutting of the belt material.

d. Five or six point (crotch) belts connected to main belt quick release mechanism and securely attached to the chassis are mandatory.

Shoulder Harness - The use of double over the shoulder straps is mandatory.. Both the fastening design and condition of the straps are subject to the inspection of the Technical Committee. Life of the shoulder straps in use shall not exceed three (3) years and must be date stamped by the manufacturer. All straps must have a label showing they meet SFI specification 16.1.

a. Shoulder straps must be attached directly to a strong structural member of the chassis close behind the driver's head and neck. At points of attachment they should be four (4) to six (6) inches apart. They should be attached in a line approximately 90 degrees to the seat back and be approximately level with the top of the driver's

shoulders. They should not be more than two inches below the through hole in the seat back.

b. Where the straps pass through the seat or body structure of the car, the edges must be rolled or have grommets to prevent chafing or cutting of the strap material.

c. Shoulder straps must be secured behind the driver's shoulders so that they are prevented from sliding sideways more than one (1) inch in either direction.

d. Two belts joining in a "Y" behind the neck to form one strap may not be used.

e. The shoulder harness should be worn as tight as possible.

7. Knee guards on the car or driver worn knee pads required to protect from impact within cockpit.

8. A full firewall is required between the engine and driver's compartment. It must be fully sealed to protect the driver from water, flame or metal fragments.

9. Hoods are required and must cover radiator, cap and engine compartment. Must be on car when it is on the racetrack, during practice and in competition.

10. Belly pans or floorboards must extend from frame rail to frame rail and from firewall to under seat (or as approved by safety official). All oil or grease leaks are to be cleaned up – including floor at all times. Dirty or greasy driver's compartments or improper seals will lead to car being "parked".

11. All cars must have foot operated hydraulic brakes in good working order.

12. All cars must be equipped with front and rear bumpers. Must extend a minimum of 6" ahead of the front tires and 6" behind the rear tires. Bumpers must not be more than 4" wider than the frame. Torque arms must have safety cable on front pick up point.
13. All cars must be equipped with side nerf bars which must extend to the normal width of the tire. No part shall extend beyond the width of the car. Nerf bars must also extend to the fullest length possible between the front and rear tires.
14. Ignition shutoff must be of a toggle type and mounted within easy reach of the driver. All switches to be clearly and permanently labelled "ON" and "OFF".
15. Batteries must be securely mounted. Conventional batteries must be retained in case of a crash or rollover. On sealed batteries, the vent hose must be routed to the outside of the car. Batteries must be covered to prevent spillage and have a clearly identified master disconnect switch.
16. All cars must have a radiator catch can. An overflow tube may run into the header system a minimum of 3 feet from the final exhaust outlet.
17. Mandatory that all teams have a fully operable ABC type fire extinguisher (min. 5# capacity) plus 4 litres of water in their pits – visible at all times.
18. No glass (except instruments) allowed. No rear view mirrors allowed.
19. Wrap around metal high back bucket seat with built in headrest of rigid back construction. Containment seat is mandatory and **must be securely mounted and be padded with rigid high impact foam**. Head rest minimum 5"X7". Seat to be securely fastened with a minimum of three grade 8 or better 3/8 " bolts and fender washers or four grade 8 or better 5/16" bolts and fender washers. Seat back to extend to top of driver's shoulders. (Safety Committee Approved).
20. No car to have pitman arm or drag link inside of roll cage.
21. No coolers can be attached to roll cage.
22. No riding on race cars or trailers permitted.
23. Recommended: Fuel cans labeled and coloured RED / water cans labeled and coloured BLUE.
24. WILROC reserves the right to withhold any car from competition if it does not conform to safety regulations and official inspections.

CHASSIS

1. Must be an open cockpit open wheel sprint car or roadster design.
2. Wheelbase will be 85" minimum and 102" maximum.
3. The maximum chassis offset allowed, for both front and rear wheels, is four (4) inches (8inches overall) measured from the centerline of the chassis to the inner wheel bead seat. The outside bead seat cannot exceed 43 inches from the centerline of the rear axle center section. The outside bead seat of the left rear wheel cannot be less than 31 inches from the centerline of the rear axle center section. The outside of the right front wheel cannot be more than 43 inches from the centerline of the chassis. Overall width will be limited to a maximum of 78". Distance measured from outsides of opposite tires on a perpendicular plane. NOTE: This wheel-offset rule does not apply to roadsters, however roadsters must meet the 78-inch width rule. No portion of car to extend outside tires. NOTE: 78" maximum includes tire sidewalls.
4. No independent suspension allowed front or rear. Torsion bars / coil overs/ spring perches allowed.

5. Full floater stubs and axles allowed on passenger car type rear ends. Quick change type centre sections allowed. Open tube rear ends allowed.
6. No four-wheel drive, front wheel drive, rear-engine or "Oswego" type offset cars.
7. No driver adjustable or external adjustable shocks or gas shocks, weight jackers, traction control systems allowed.
8. Cars must have complete body panels and be of professional appearance (Tech approved).
9. Cars must have an under pan under the cockpit area and vertical panels to effectively seal the cockpit area from the engine compartment.
10. No bodywork may extend over any portion of the front or rear tires, measured vertically from the rear tires outside edge in a straight line forward. Bodies must not exceed more than 2" outside frame rails and floor must extend to it. Bodies must be sprint car or roadster type and be securely fastened. Bodies may extend a maximum of 36" forward of the front axle centerline.
11. No titanium parts anywhere.
12. No carbon fibre parts anywhere.
13. Minimum weight: 1600 pounds (including driver). Cars may be weighed at any time during race meet. Any cars can be weighed after Main Event (No Fuel added)
14. Engine height minimum-7" center of crankshaft to bottom of frame rails.
15. Engine to be mounted upright in chassis and be located within the frame rails.
16. All weight ballast to be painted white and indicate car #. Must be securely bolted between the frame rails (Tech approved).
17. Driveshaft and torque arm: All revolving parts inside the cockpit must be shielded by a suitable guard (fully enclosed – Tech approved). Buckley joint must be shielded in such a manner to protect the driver from errant parts and fluids.

REMINDER: IF IT'S NOT IDENTIFIED IN THE RULES, IT MAY BE CLASSIFIED AS ILLEGAL. If in doubt, check with the Tech. Committee FIRST.

BRAKES

1. All cars must be equipped with a hydraulic foot operated braking system capable of stopping the race car in a safe manner.
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.
3. Master cylinders not fixed to the frame must have flexible lines. Copper tubing is not allowed anywhere in the braking system.

ENGINES

1. Maximum engine size will be 360 cubic inches plus 1%.
2. Flat top pistons may run double bump or small chamber heads.

3. Domed pistons must run big chamber heads with a minimum of 76 c.c.
4. Engine must have stock or stock replacement crank and rod length for make and model of block. NO STROKERS. Aftermarket rod bolts are allowed. Stock OEM after market rods are allowed. NO LIGHTWEIGHT AFTERMARKET CRANK OR RODS ALLOWED. Balancing of rotating assemblies allowed. NO REMOVAL OF SERIAL NUMBERS OR MANUFACTURES EMBLEMS.
5. Cylinder deck may be machined for clean up and truing only. NO ZERO DECKING ALLOWED.
6. Cylinder heads must be bone stock cast iron O.E.M. production heads. There must be NO chisel, grinding, sandblasting or shot peening marks in the cylinder heads anywhere. This means NO de-burring, porting, polishing, cast slag removal, matching of ports or anything else that alters the head from factory rough stock. Machining for screw in studs and guide plates are allowed. Opening of push rod slots in cylinder heads is allowed. Steam relief holes may be drilled to a larger size. Cylinder heads may be surfaced slightly for truing but must maintain the manufacturer's minimum c.c. combustion chamber volume for the head being used. NO angle milling is allowed. NO Vortec G.M. heads allowed. World Product heads may be used Serial #043600 or 043610 Chev or #053030 Ford. No World Product Head available for Chrysler.
7. Valves and seats may be reground and may only have three angles, with a facing cut of 45 degrees. No back cut allowed on valves. New valve seats are allowed. Bottom cut into head measured from the floor of chamber; to be a maximum of 7/16.
8. No titanium or hollow stem valves.
9. Maximum valve sizes are as follows: G.M. 1.94 intake 1.60 exhaust Ford 2.04 intake 1.66 exhaust Chrysler 2.02 intake 1.60 exhaust
10. Stock diameter replacement valve springs and retainers only. Hardened keepers allowed.
11. Any flat tappet hydraulic cam and lifters allowed. Anti pump up lifters allowed. NO solid cam and lifters allowed. NO roller cams, lifters, allowed. 12. Rocker must be of stock OEM ratio only and be clearly marked as so by manufacturer. Roller rockers or rockers with slots lengthened will be allowed. Stud mounted rockers only.
12. NO belt or gear drives allowed.
13. Oil pans may be modified. Wet sump only.
14. Stock 2 barrel carburetor only of maximum 1 11/16 throttle bore on a stock 2 barrel cast iron manifold only is allowed. NO carburetor adapters or spacer plates allowed. A carburetor air cleaner or suitable flame arrester is required. Fuel jet size swaps and Holley jets allowed. Removal of all choke parts allowed. No Holley Carburetors. A go no go gauge will be used during tech. Mechanical throttle linkage only
15. No 180 degree headers, no merge collectors, or Tri Y headers allowed. Mufflers required to meet 95 DBA at 100 feet. Must meet local track requirements as directed. Being over the sound limit may result in a penalty, fine or disqualification.
16. NO porting, polishing or grinding of intake allowed.
17. HEI Distributors or Mag allowed. No MSD Mag or crank triggers or traction controlled devises allowed.
18. Bow Tie (G.M.), S.V.O. (Ford), Mopar (Chrysler) etc. performance racing parts are not allowed.

FUEL

1. Gasoline only. No performance enhancing additives allowed.

RADIOS

1. No transmitting devices in car, WILROC approved radios/transponders only. No electronic monitoring computer devices capable of storing or transmitting information allowed (except tachometer).

STEERING

1. Steering mechanism must be engineered and assembled in accordance with sound engineering principles.
2. All highly stressed steering components must be made from SAE 4130 steel or an alloy, specific by the manufacturer, of the component as equivalent in necessary strength for its intended use.
3. Rack and pinion steering permitted.
4. Steering wheel to be a metal "quick release" design.

THROTTLE

1. Throttle toe straps and a return spring are mandatory. In addition, a minimum of 2 return springs must be connected to different locations on the butterfly shaft. (3 springs in total)
2. The throttle pedal must have a wide open stop.

TIRES

1. All cars limited to four tires. No dual wheels. Only one 18" maximum width tire permitted (RR)-balance to total 36" maximum.
2. Tires currently to be run are Hoosier M55 (right rear); Hoosier M45 (right front); Hoosier M30 (left rear); and Hoosier M10 (left front).
3. All compound numbers must remain on tires, otherwise may be deemed illegal
4. Lite cars are to run the Hoosier M55 on the right rear for 2 main events consecutively and tech will be strictly enforced. The tire used in qualifying must be used in all races for the balance of the night. Should that tire become damaged (i.e. Cut or Torn, Worn), a used tire can be used after the tech committee approves it. Used tires must meet the max. tread depth of 5mm.

WHEELS

1. Steel, aluminum (alloy) and carbon fibre allowed. Bead locks permitted.
2. Wheel weights must be stick on only and be securely attached.
3. Any car using a lug nut type right front hub must use all six lug nuts. A 360 degree pressure plate of either 1/8" steel or 3/16", aluminum or harden washers between the lug nuts and the wheel face is recommended.

SPORTSMANSHIP

Sprint car racing is a very emotional sport. As such, good sportsmanship is the key element of any competitive racing program. This must include respect for all participants-drivers, owners, pit crews, and officials. For our part we will make every effort to be consistent with our rules regardless of whom or what is involved. We will treat all participants with respect and expect similar treatment in return. A racer's pit area is his castle-therefore please stay out of other racer's pit areas, especially after an incident when you have been involved with that racer. Drivers remember that you are responsible for the actions of your crew. Any offending parties will be fined appropriately and disciplinary actions will be initiated as deemed necessary.

PENALTIES

1. Verbal Abuse to any WILROC official \$100.00.
2. Assault to any WILROC official or Track Owner/Promoter automatic suspension.
3. Fighting results in a 1-year suspension.
4. Rowdyism in pit area \$100.00
5. Speeding in pits (after warning) cars and quads first offence \$50.00 second offence \$100.00.
6. At anytime during a race no crew or driver will be allowed to approach lap recorders. Fine \$50.00
7. All fines will be withheld from driver's payout. Should the fines exceed the payout, they must be paid in full before offender will be permitted to participate in a WILROC event.

PROTESTS

1. All protests must be submitted in writing to a WILROC Official within 30 minutes after the end of the last WILROC race and will only be accepted from a registered driver. Any engine protest must accompany \$300.00 cash. If engine protest is found legal the monies will be given to owner/driver of protested car.
2. All other protests must be accompanied by \$100.00 cash.
3. If a protest is successful the protester will be refunded his money.

APPEAL PROCEDURE

1. A participant desiring an appeal hearing of action taken by WILROC must submit a written request to the Secretary of WILROC for an appeal hearing accompanied by written reasons why an appeal should be heard, no later than five days after the date of suspension or fine.
2. A non-refundable fee of \$100.00 cash, must accompany the request for an appeal hearing.
3. An appeal panel will be struck and a decision reached within 14 days of the date of the appeal.

NOTE: ALL DRIVERS MUST HAVE A CURRENT RULE BOOK IN THEIR POSSESSION AT EVERY RACE EVENT.