



2012 Silver Dollar Speedway 410 Sprints Rules

SDS-410Rules-011112.1

THIS BOOK IS EFFECTIVE JANUARY 1, 2012 & SUPERCEDES ALL PREVIOUS RULES.

Interpretation of these rules or amendment to these rules may be made at any time. 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 shall govern the condition of all events, and by participating in these events, all registrants are deemed to have complied with these rules. No express or implied warranty of safety shall result from publications of, or compliance with these 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.

RULE BOOK DISCLAIMER:

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 shall govern the condition of all events, and by participating in these events, all participants are deemed to have complied with these rules. **NO EXPRESS OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM 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 a participant, spectator or official. The race director shall be empowered to permit minor deviations from any of the specifications herein or impose any further restrictions that in his opinion do not alter the minimum acceptable requirements. **NO EXPRESSED WARRANTY OF SAFETY SHALL RESULT FROM SUCH ALTERATION OF SPECIFICATIONS.** Any interpretation or deviation of these rules is left to the discretion of the officials. Their decision is final. Referee's decision is final.

THE MANAGEMENT OF SILVER DOLLAR SPEEDWAY

AMB TRANSPONDERS ARE MANDATORY

(mounted to right front down tube between frame rails)

AMB TRANSPONDERS | www.amb-it.com

Personal TranX260 Rechargeable Transponder Ideal for cars that have a limited electrical system on-board or cars whose electrical system is an older 6 volt type, the Rechargeable Transponder offers drivers increased flexibility in operation. For example, the transponder can be easily switched from car to car where a driver races two cars during a weekend. Though the transponder does need recharging after 5 days of operation, its special charging cradle is designed to prolong the battery life when not in use.

1. CHASSIS

- A.** Open to any sprint car chassis 1984 to present.
- B.** Wheelbase minimum of 83". Maximum wheelbase 90 "
- C.** Motor, body, seat and fuel tank must be mounted to the centerline of the chassis.
- D.** Rear-engine cars will not be permitted, No offset is allowed.
- E.** Chassis should be provided with a minimum of 4 mounting points to securely mount the seat as specified by seat and chassis Manufactory.
- F.** No champ dirt cars. No elliptical (oval shaped) tubing used on or as part of the main structure.

2. BODY/GENERAL APPEARANCE/AERODYNAMIC DEVICES

- A.** Body/chassis must be well maintained. NO JUNK. PAINT OVER RUSTED HEADERS ETC. All cars should have at least one number on both sides of tail tank and on the outsides of both top wing side panels. Suggested to have a number on the center of the top wing foil. 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.
- B.** All cars will be required to run a full sprint appearing hood. 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.
- C.** Only Sprint look/look-alike bodies, tails and hoods will be permitted.
- D.** No side foils, rudders or panels are to extend beyond rear cage support bars on any side.
- E.** No body pieces to extend beyond or underneath front torsion tube with the exception of the hood.
- F.** No Gurney lips or turnouts are permitted on any body panels. No wedges or foils underneath race car.
- G.** Sunshields cannot restrict driver vision.
- H.** 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.
- I.** Frames identical to the Maxim "Big Max" frame may be fully paneled but paneling may not extend rearward of the rear rails.
- J.** Firewall to be a solid material and fit between the engine and the driver. Access holes may be drilled for wiring and linkage.
- K.** Floor pan must extend from the firewall to the front of the driver's seat. Constructed of steel or aluminum.
- L.** Mirrors, two-way radios or electronic communications between driver and other team member is not allowed. Manual signaling of any kind including LED lights, sign boards or other devices is not allowed.
- M.** A kill switch is required with in easy reach of the driver and Safety Crews. It must be clearly labeled "ON" and "OFF."

3. WINGS

Top Wing Flat - World of Outlaws wing rule

- A.** Center Foil maximum size of 25 square feet with a maximum width of 60 inches. Center Foil must be square or rectangular in shape with all 4 corners set at 90° angles with no variance allowed. Center foil top is to be flat from front to back and side to side.
- B.** Center Foil shall be fully sheathed in aluminum. Vent holes, dimples, ridges, etc. are strictly prohibited anywhere on the wing.
- C.** Maximum 1" removable wicker bill may be mounted on the rear edge of the center foil. Wicker bill must be 90 degrees to the top of the center foil. No built-in wicker bills or gurney lips allowed.
- D.** The top wing can be cockpit/driver adjustable. Other than the slider mechanism, no moving parts permitted on or in foil structure. Only one slider mechanism allowed on top wing, allowing adjustment forward and backwards only.
- E.** Center foil thickness cannot exceed 9 inches. Underneath side of center foil must appear to be a continuous smooth arc with no recesses, concaves, or protrusions. Center Foil must be one-piece construction. No split or bi-wings will be permitted. Wings must be fabricated of metal alloys only. No fiberglass, carbon fiber or other similar material may be used in the basic framework of the wings. Top wing must not extend beyond outside of rear tires.
- F.** No foils or rudders will be permitted anywhere on the top wing.

Side Board Panels Top Wing

- A.** All braces or supports shall be oriented thin edge to face the air stream. Only rectangular, round or oval metal braces not exceeding 1 inch in width may be used. No adjustable bracing allowed.
- B.** No aero elliptical brace material permitted.
- C.** No brace or support shall resemble a wicker bill or a split wing.
- D.** Side boards must be mounted square to the center foil and parallel to each other. No kick-out allowed.
- E.** Top wing side boards maximum size, 72 inches long and 30 inches tall. The top 2/3's of each top wing side panel shall consist of only 2 corners. Each corner shall be set at a 90° angle with no variance. This portion of the side panel's leading edge cannot be behind the center foils leading edge.
- F.** Panels must be of one-piece construction Panels must be fabricated flat. Turnouts on all edges of the wing must not exceed 1-1/4" x 1-1/4" and must be orientated at a 90 degree angle to the flat portion of the side panel.

Front Wing

- A.** Center Foil maximum size of 6 square feet with a maximum width of 36 inches. Center Foil must be square or rectangular in shape with all four corners set at 90° angles.
- B.** Center Foil shall be fully sheathed in aluminum. Vent holes, dimples, ridges, etc. are strictly prohibited anywhere on the wing.

C. No wicker bills or Gurney lips permitted on Center Foil unless the car is outfitted with Wing Option #1, in which case a maximum 1" removable wicker bill may be mounted on the rear edge of the center foil. Wicker bill must be 90 degrees to the top of the center foil. No built-in wicker bills or gurney lips allowed.

D. Maximum distance from the Center Foil front edge to the front edge of the front axle may not exceed 20".

E. The Center Foil front edge must remain at least 1 inch behind the front edge of the front bumper. Center Foil top surface from side to side must remain flat.

F. Center Foil must be one piece. No split or bi-wings will be permitted.

G. Wings must be fabricated of metal alloys only. No fiberglass, carbon fiber or other similar material may be used in the basic framework of the wings.

H. The Front Wing must not extend beyond outside of front tires. The Front Wing may not be cockpit or driver adjustable while the car is stationary or in motion.

I. No moving parts permitted on or in foil structure. Rudders or fins are not allowed.

J. The 5" section located at the rear of the front foil must not have a belly/curl arc that is out of proportion with the rest of the front foil. As measured on a 5-inch straight edge, the belly at 2 ½ inches from the rear of the foil may not be deeper than 3/8 inch. There is zero tolerance on this 3/8 inch depth. It is suggested that the wing blue print specify 11/32 inch depth, so that if any deflection or movement of the wing occurs, the depth will not exceed the 3/8 inch specification (This 3/8 inch measurement ensures that the belly/curl arc is gradual).

K. The belly/curl arc must span the entire length of the front foil and appear to be a gradual arc with the deepest point, no further back than 12 inches from the leading edge. The belly/curl arc must start at the front foils leading edge and shall not exceed a depth of 2 inches. Front foil thickness cannot exceed 3.6 inches.

Side Board Panels Front Wing

A. Front side boards maximum 12 inches tall and 26 inches long with no more than one inch overhang from the centers foil front edge to the side board front edge.

B. Side boards may have front, back, top and bottom turnouts of no more than ½ inch.

4. ROLL CAGE

A. Roll bars shall be of the full cage type, see rule 4E for material measurements

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

C. Cage to be above driver's helmet by 2".

D. The maximum width that is permitted for the opening at the top of the roll cage is 27 inches. No bracing that would prevent the driver's ability to exit through the opening or inhibit safety/rescue crew's ability to extract the driver will be permitted in the center of the top cage.

E. The following measurements are minimums. Only those areas indicated will be subject to technical inspections.

Suggested material: 4130 normalized.

TOP RAILS: 1½" x .095"

BOTTOM RAILS: 1¾" x .095" or 1½"x .083"

ROLL CAGE UPRIGHTS: 1 $\frac{3}{8}$ " x .083"

ROLL CAGE TOP CROSS MEMBERS: 1 $\frac{1}{2}$ " x .095"

UPPER RAILS: 1 $\frac{3}{8}$ " x .083"

REAR END SAFETY BAR (mandatory): 1" x .083"

BRACE: 1 $\frac{1}{4}$ " x .065

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

G. All roll cage top horizontal bars, rear vertical bars, and side horizontal bars from the top to shoulder height shall be padded with the minimum of 1/2" thickness etha-foam #220 or equivalent for driver/safety crew safety.

H. The technical official or race committee must approve all roll cages.

5. SUSPENSION AND STEERING COMPONENTS

A. Any conventional torsion bar or coil-over suspension is allowed. Combining the two is allowed.

B. Independent rear suspension is not allowed.

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

D. Front anti-roll torsion bar assemblies (sway bar) are not permitted.

E. One shock per wheel. No cockpit adjustable shocks

F. Quick release steering wheel mandatory

G. The only device adjustable from the driver's cockpit or drivers reach will be one (1) top-wing slider mechanism. Said slider is to be one dimensional and allow for forward and backward movement only.

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

I. Steel tie rod & drag link w/ steel Heims is highly suggested.

6. WEIGHT

A. Minimum weight 1425lbs with the driver fully suited in the car at any time, before, during or after the racing event.

B. 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.

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

D. Any car weighing light after the heats or main will be scored and paid for last place.

E. Except for extenuating circumstances drivers must remain seated and inside the frame rails until weighing is completed. Violation may result in disqualification from the racing event for which the car is being weighed.

F. You will be DNQ if you are below the minimum weight after Qualifying, and would be placed at the back of the heats or of a non-qualifiers race, which ever applies. (Qualifying point's penalty would be lowest qualifying points for the field, For Example "Gold Cup" or "Fall Nationals" 200 points to the fast qualifier with 2 point drop.)

G. Please Do Not Drive on scales, All cars weighing will have a crew to push car on & off scales.

7. ENGINE

- A.** Maximum engine capacity of 410 cubic inches. No tolerance.
- B.** No rollover, No overhead cam type motors or multi valves per cylinder heads permitted.
- C.** All engine cylinders must be machined from iron/steel alloy only. Only two valves and one spark plug permitted per cylinder.
- D.** Only normally aspirated motors are permitted. No turbo, superchargers or forced induction of any description will be permitted.
- E.** No titanium Cranks or rods.
- F.** 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.

8. RODS

- A.** Steel rods only.

9. CYLINDER HEADS

10. INJECTORS

- A.** Maximum throttle bore as measured at the butterfly may not exceed 3.000 inches diameter.
- B.** No electronic computers or computerized injection.
- C.** A minimum of two throttle return springs must be used to close the throttle.
- D.** Must have toe strap on throttle pedal.

11. IGNITION

- A.** Magneto type or MSD type ignition is allowed Boxes must be mounted outside of cockpit or in a non-accessible box by the driver.
- B.** Traction control devices are strictly prohibited.
- C.** Cars must have a clearly marked ON/OFF ignition switch within reach of the driver and visible to rescue workers.

12. FUEL

- A.** RACING alcohol only. No Nitro or Nitrous Oxide.
- B.** NO ADDITIVES. Including oxygenated additives OF ANY KIND! SUBJECT TO INSPECTION AT ANY TIME.
- C.** Specific gravity is not to exceed .795 or within (plus or minus) .10 of standard track fuel sample.

13. FUEL SHUTOFF

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

14. FUEL CELL

- A.** FT3 fuel cells are recommended. An approved fuel cell with bladder is to be used.
- B.** Suggested fuel cell capable of 95 combination Green & Yellow flag Laps
- C.** 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.
- D.** 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.
- E.** Tank vent MUST have check valve.
- F.** Manual or automatic fuel shut-offs at tank are highly suggested
- G.** Fuel cell used to qualify MUST BE used in all events.
- F.** All fuel cell mounts subject to safety inspector's or race committee approval.
- G.** Any car leaking or spilling fuel will be BLACK-flagged.

15. RADIATOR

- A.** Must be in front of engine.
- B.** ANTI-FREEZE is NOT ALLOWED.
- C.** WATER WETTER & WATER SUGGESTED

16. DRIVE-LINE

- A.** 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.
- B.** Buckley Yokes OK.
- C.** 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.

17. REAR END

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

18. BUMPERS

- A.** Bumpers and nerf bars must be sprint car type bars and securely bolted to the chassis with minimum 3/16" or 10/32 threads bolts. Bumpers and nerf bars will be constructed of no less than 1" O.D. and .065 wall thickness. Side nerf bars may have a triangular or 4 point configuration and may not extend outside rear tires.
- B.** The front bumper may not extend more than 8 inches from the frame or 23½ inches from center of front axle to front of front bumper.
- C.** All body parts, bumpers and nerf bars must be securely attached Wings, Cotter pins and wire ties will not be permitted.

19. TIRES

- A. Right rear Hoosier Racing Tires, stamped HTW14.
- B. Left rear Hoosier Racing Tires, stamped RD12 or D12.
- C. Optional tire for extreme conditions, stamped HTW 105-18 (Hard)

20. WHEELS

- A. Any aluminum, steel six-pin or spline wheel are OK. Any wheel offset is allowed.
- B. Maximum wheel width: Left Rear 15", Right Rear 18", Maximum wheel diameter 15 inches.
- C. Bead locks on all wheels recommended.
- D. Plastic, Titanium or Carbon fiber wheels are not allowed.

21. BRAKES

- A. 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.
- B. Steel, cast iron, aluminum or titanium rotors only. Carbon fiber rotors are not allowed.
- C. No copper or plastic brake lines.

22. EXHAUST

- A. Mufflers are mandatory.
- B. Mufflers to be securely fastened.
- C. 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).
- D. We will make every effort to inform you if your car is running loud during hot laps, but it is your responsibility to check with the Pit Stewart to make sure you were not loud during qualifying. To make sure you receive as much time as possible to repair sound problems during qualifying, each car should have a crew member check with the steward after their qualifying run.
- E. Track DBA requirements must be met 95dba @ 100'. ABSOLUTELY NO EXCEPTIONS AS THIS NOISE REQUIREMENT WILL BE ENFORCED.
- F. Recommendation: Flowmaster 53545-10

23. BINDING COMPONENTS

- A. No leather straps, ropes, chains or wire may be used to hold or bind components together.

24. SEATS

- A. High-back Aluminum (stockcar 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.
- B. Head rest (behind the head) should include padding
- C. Seat should be mounted in 4 places to the chassis with minimum 5/16" steel bolt and nut.
- D. Mounting hole in seat must have a 2" diameter mounting plate with a minimum .060"

- E. Positively No Homemade Aluminum, Plastic or Fiberglass seats will be allowed.
- F. A right head net or support is highly suggested. Head nets must be equipped with quick release mechanisms.

25. SAFETY BELT REQUIREMENTS

- A. 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.
- B. 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 harnesses no less than 3" wide and submarine belt (crouch) are mandatory 2" wide shoulder harness for Hans device ok).
- C. 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.
- D. 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
- E. All belts must be mounted per manufacturer directions to the roll cage separately from the seat.
- F. 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.
- G. Harness/belts must be worn at all times when the car is on the track.
- H. 2yrs 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.

26. SAFETY

- A. Driver should wear a full face helmet, with at least a valid SA 2005 or SA 2010 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.
- B. The driver should wear the helmet in accordance with the directions provided by the helmet manufacturer and/or supplier.
- C. 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.
- D. Helmet and face shield must be worn at all times while operating a car on the race track. No goggles permitted.
- E. Each driver should wear a fire resistant uniform meeting the SFI 3.2A/5 specification and display a valid SFI 3.2A/5 label.

F. 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.3label. Nomex-type or equivalent fire resistant uniforms (suit), gloves, neck brace, shoes, Are mandatory.

G. Nomex-type or equivalent hood socks or skirts mandatory.

H. Nomex-type or equivalent socks, underwear are highly suggested.

I. Right Side window Net suggested. Window nets must be equipped with quick release mechanisms.

J. Quick release steering wheel mandatory

K. Arm restraints are mandatory

L. Flame retardant roll bar padding, knee and steering pads or padding required.

M. Other SAFETY ITEMS

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

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

3) A marked electrical kill switch in reach of driver.

4) A marked fuel shut off valve in reach of driver.

5) Flame retardant seat padding is suggested.

6) Drive line u-joint scatter shields is suggested

27. GENERAL SAFETY REQUIRMENTS

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

B. 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.

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

D. Seat belts will be used at all times.

28. FIRE CONTROL

A. 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.

29. ROLL-OVER REGULATIONS

A. Any car /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.

30. PROTESTS:

A. 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 IN WRITING and HAND DELIVERED to the Director of Competition or Technical/Pit Steward within

15 minutes of the completion of last event and must be accompanied by a \$500 cash protest fee. MUST BE REGISTERED PARTICIPANT OF TRACK.

B. Do not abuse this rule!

Decisions of SILVER DOLLAR Speedway Official(s) are final and binding without exception. PROMOTER RESERVES THE RIGHT TO ADD OR DELETE EVENTS AS DEEMED NECESSARY. ALL DECISIONS WILL BE FINAL AT THE PROMOTERS DISCRETION.

**2010 STATE RULES ALLOWS NO LIQUID DUMPING
FACILITIES AT THE FAIRGROUNDS.**

Each race car that enters the fairgrounds pit area MUST have an empty container(s) approved by the management of SILVER DOLLAR SPEEDWAY that will hold at least 2 gallons of used oil (fluids) for collecting anything that may be drained out of the race car or tow vehicle at each event. These containers must be removed with the race car after every race and disposed of at an approved facility at the owner's expense. NO TIRES ARE TO BE LEFT AT SILVER DOLLAR SPEEDWAY.

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