



2018 WINTER SHOWDOWN – RULES and SPECIFICATIONS

1. **BODIES:** The current ABC (Approved Body Configuration) Official Rule Book Version 9.0 and the 2018 SPEARS Southwest Tour Series Rule Book will govern body regulations. The use of factory (AR & Five Star) ABC valances and rocker panels only. A-Pillar vent windows may only have 1/2 inch of straight line deflection. The surface must be smooth and must not have bead rolls or breaks.
2. **WEIGHT:**
 - Minimum Base Weight: 2800 lbs and 58.0% Maximum left side weight at all times (without refueling).
 - For post-race total weight rules, teams may refuel, or officials may utilize “1 lb. per lap” burn-off.
 - Weights include driver, race ready with fuel on board.
 - All lead added weight must be painted white (no tungsten) securely fastened, with car number.
 - Added weight located ahead of the front spindles or behind the centerline of the rear axle must be bolted securely to main frame rails and cannot be used as panning or aero advantage.
3. **TRACK WIDTH:**
 - Measured at spindle height 66” maximum all cars.
4. **ENGINE:**

SRL Tour legal 9.5:1 engine with SSS open 390 carburetor.

 - (See SRL Rulebook for Engine Specifications) NOTE: The Southern Super Series (SSS) legal ‘open 390’ carburetor is allowed - Booster bar removed.
 - All cars must only use the following ignition system: (1) FAST/Crane Cams Ignition part# 6000-6700 (HI-6RC) and a Coil part# 730-0192 (PS92N).

Brodix Spec Head

 - 7800 maximum RPM limits. Limiting device must be operational at all times.
 - All cars must only use the following ignition system: (1) FAST/Crane Cams Ignition part# 6000-6700 (HI-6RC) and a Coil part# 730-0192 (PS92N).
 - Gauge legal 750 carburetors.
 - Only part numbers - Brodix SP - CH / FO / MO - will be allowed.
 - All Spec heads will be supplied with CNC bowl blend and intake port matching.
 - No grinding or blending of CNC work is allowed.
 - No grinding or polishing of any kind is allowed anywhere on the castings.
 - No use of any substance that may change or alter the shape or the size of ports or combustion chambers is allowed.
 - Maximum 1-inch port match allowed to manifold.
 - A maximum valve size of 2.080 intake and 1.600 exhaust will be allowed for all Spec heads.
 - Valve seats and guides are to remain as manufactured and in their cast positions.
 - The original seat center locations as provided by the head manufacturer may not be altered.
 - No tapering or re-shaping of valve guides will be allowed.
 - No titanium springs, steel only.
 - Titanium valves approved.
 - A minimum combustion chamber volume will be 60 cc.
 - Minimum valve stem diameter is 11/32”.
 - Spec cylinder head serial numbers must remain on the head and may not be defaced or altered.
 - No welding modifications are allowed to the original head castings.
 - Maximum c.i. = 362 (Ford, Chevy) • Chrysler = 365 cu. inch – steel blocks only. *
 - Over 362 to 380 c.i. add 50 lbs. / 381 to 400 c.i. add 75lbs. Over 362 c.i. must have prior approval.

Approved S.E.A.L. Engines and SSPE or other approved engines

- All approved S.E.A.L and SSPE engines must use the gauge legal, 750 Holley carburetor (4779 or 80528), or SSS 390 carburetor (6895 or 80507). All Carburetors must be an unaltered and gauge Legal.
- Any tampering of seals or established construction of these engines is grounds for immediate disqualification. 7600 maximum RPM limits (SSPE 7800). Rev limiting device must be operational at all times.

Ignition System:

- All cars must only use the following ignition system: (1) FAST/Crane Cams Ignition part# 6000-6700 (HI-6RC) and a Coil part# 730-0192 (PS92N), only one (1) box mounted on a tray as from Crane Cams, as far to the right and forward as possible inside the car. RPM dial positioned facing right side of car. ONE ignition box must be mounted as far to the right and forward as possible inside the car, all wires in plain view and out of reach of the driver. All wires to the distributor must be run separately and not part of a bigger loom or wiring harness. All wiring must be sealed. No unplugged wiring. Only one box allowed.

More:

- Engines with rear mounted distributors will be located so the forward most spark plug is no more than two inches (2") from the center line of the upper ball joints. Engines with front mounted distributors: up to four inches (4") setback from centerline of upper ball joints. All engines center of the crankshaft must be within one (1) inch of the centerline of frame. 10 inches minimum crank height.
- NOTE: Other engine configurations may be approved, with weight adjustments.

5. FUEL:Sunoco Purple 110 Standard is the Spec fuel of the event. No blending - must be pure.

- Fuel samples may be taken at any time and tested. Alcohol, nitro-methane, nitrous oxide, other oxygenating agents, other additives and/or fuels that contain masking agents or oxygen are not permitted. Street-use pump gas is not allowed. Use of such substances or additives will result in immediate disqualification. No icing or cooling of fuelsystem.

6. TIRES:

- All Tires (LS 3035 and RS 3045) must be purchased from Hoosier Tire West 559-485-4612 and may be pre-ordered and picked up at event.
- Your four qualifying tires will be used to start the race. All tires used for competition must be purchased at the event, scanned and impounded. LCQ – Four approved tires.
- No performance enhancing or appearance enhancing products allowed inside or outside the tires.
- Maximum 10" wide steel wheels and steel lug nuts only.
- Bleeders are not allowed.

7. OTHER:

- Roll cage must be constructed of 1 3/4" OD round steel tubing with a minimum wallthickness of .090". Three inches (3") maximum gussets measured diagonally must be welded in main roll cage area where a 90 degree angle exists or where the roll cage meets the main frame rails. The main frame rails / bolt-on clips must be steel from radiator area to behind the fuel cell. Main Frame rails must be a minimum of 2" x 3" rectangular steel.
- No titanium, exotic materials, parts, or components allowed on racecar or the engine unless specified in the rules.
- No Carbon Fiber; radiator ductwork, rotors, drivelines, and chassis supports or clutches.
- Interiors sheet metal must be magnetic steel or aluminum only.
- Full standard type transmission only will be permitted. No quick-change transmissions will be permitted. Automatic transmissions will not be permitted. A minimum of one reverse and two forward gears will be required. Multi-disc clutches will be permitted. No direct drives. Conventional clutch mounted to fly wheel only will be permitted. No carbon fiber or nonstandard material clutches. The minimum clutch Diameter is 5.5". No "slipper" or "centrifugal" clutches allowed.
- No fifth (5th) coil, torque arm or lift bar suspensions will be permitted. No birdcage set-ups of any kind (3 or 4 link). Trailing arms must mount to rear end and chassis in a solid fashion (heim allowed) and no part of the trailing arm mounting may freely rotate around the rear end or move.
- Springs, shock absorbers, or any dampening devices will not be allowed on the lower trailing arms, track bar or upper third link.
- No cockpit driver adjustments, other than one brake bias.

- Coil Springs and Spindles must be Steel. (Exception: approved Coleman Spindle)
- One shock per wheel. Shocks must be only mechanical in nature and no part of Suspension or shocks may utilize electricity.
- The duct work between the nose and the radiator may be no wider than 29" and no further rearward than radiator.
- No types of under-body air deflectors or panning allowed. All air for brake blowers or coolers in the engine compartment must be pulled thru the nose or the radiator air box. Air may not be blown or forced onto the tire or bead; air may only be directed to the brake rotors. No reverse naca-ducts.
- No under car panning outside of frame rails and no further than drivers' tub front or rear at the bottom of the frame.
- Maximum drivers tub length is 52 ½" and the maximum width of frame is 53 ½" on a straight rail chassis. The steel plate may not be bigger than 500 square inches. Must not extend to the right more than 25 inches from the right side of the driver's box and no farther forward than 25 inches forward of the rear edge of the driver's box on Perimeter cars.
- Fuel Cell Height: 8 inch minimum. A reinforcement plate of not less than 14 gauge (.078 inch thick) magnetic steel flat plate or similar strength aluminum plate, between fuel cell and rear end and be securely welded in place or bolted (min. 3/8 diameter bolts) with two (2) bolts on each side. A similar plate at the rear of the fuel cell is highly recommended no larger than cell. At a minimum, all fuel cell configurations must include a rubber type cell in a steel container.
- Two-way radio communication between driver and minimum of one spotter for each team is required for all competitors at all times while on track. **Mandatory each spotter must have a dedicated stand alone radio or scanner to monitor Race Control at all times frequency at 460.0125.**
- NO Traction Control Devices of any kind - If any 'traction control' device is found, the driver and owner will be disqualified from the event, the car will be confiscated until a \$15,000 fine is paid. Additionally, the driver and owner will receive a lifetime ban from all SRL events.
- No electronic recording devices allowed in or on the car – (cameras inside car may be approved.)
- **No Data Acquisition equipment/wiring is allowed in the car anytime during Winter Showdown.**
- **No cool down units, pumps, exotic fans allowed. If you have to ask it's not Legal.**
- A minimum ground clearance of four (4) inches on any part of the frame, suspension or body (excluding front cross member). Cross member must have a minimum clearance of three (3) inches. The crossmember is the only part of the car allowed at (3) inches.
- A muffler must be used and installed in a configuration that will suppress exhaust noise to a maximum of 99db's at 100 feet.
- **Transponder:** All competitors must have timing transponders on their car for the entire program. Transponder must be mounted 24 inches (center of axle tube to the center of transponder) behind the rear axle housing on outside of right side frame rail. Transponders are mandatory for practice sessions. Available at event.
- The standard opening for the grill screen area, as approved for manufacturer's production, must be maintained at all times. Only ABC manufacturer's standard mesh screen may be used for the radiator opening in the nose.
- Tape may not be used anywhere on the car to control the flow of air or seal/secure seams between body panels (unless approved for repairs). Only exception is that tape may be used on radiator grill and front brake duct openings.
- The minimum wheelbase is 101" and a difference from left to right may not exceed 1/2 inch.

This is not a SPEARS Southwest Tour Series event; the rules are specific and unique to the Winter Showdown. The SPEARS Southwest Tour Series Rule Book is NOT in force, except, 9.5 to 1 engine rules, and driver safety specifications.

For additional information go to www.srlsouthwesttour.com, contact Ricky Brooks at 850-324-6821 or rickybrooks5@aol.com.

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