

# ***SOUTH SOUND SPEEDWAY***

## **2023 Vintage Modified Rules**

### **RULE BOOK DISCLAIMER:**

The rules and/ or regulations set forth herein are designed to provide the orderly conduct of racing events and to establish minimum acceptance requirements for such auto racing 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.**

These rules and regulations are intended as a guide for the conduct of auto racing at South Sound Speedway and are in no way a guarantee against injury, or death to a participant, spectator, officials, or others.

The Race Director and/or Technical Director shall be empowered to permit minor deviation from any of the specifications or rules herein, or impose any further restrictions that, in their opinion, do not alter the minimum acceptable requirements.

**NO EXPRESS OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM SUCH ALTERATION OF THESE SPECIFICATIONS OR RULES.**

Any interpretation of, or deviation from these specifications or rules is left to the discretion of the Race Director and/or Technical Officials. Their decision will be final

### **A. BODY**

1. Any American made car body 1972 or older, Amc pacer ok. Neat in appearance. No convertibles or pickups. Fiberglass bodies allowed with tech approval. Aluminum side skins and roof panel ok.
2. All bodies must be recognizable as factory production cars – original in appearance. No wings, spoilers, aerodynamic aids, etc. Radiator shrouds allowed.
3. 1/8<sup>th</sup> inch or greater Lexan type windshield must be used. All factory upholstery must be removed.
4. Front and rear fenders must be removed. Doors and rear deck lids are mandatory.
5. Floorboards are to be a minimum of 20 Gauge steel or .080 Aluminum. All sheet metal to be securely fastened..
6. Front Bumpers: Minimum of two (2) horizontal bars separated by a minimum of 6”, minimum of two vertical bars between the horizontal bars. Front bumpers must not extend out beyond 2” on either side of the front frame rails.
7. Rear bumpers must not extend beyond outside edge of the rear tires and extend to a minimum of 2” inside the outside edge of the tires. All bumpers and rear nerf bars will have a contact

height of 16" at the bottom bar static position for the entire bumper or rear nerf bar. No bumper or nerf bar will have an end that can catch, poke, etc. another vehicle **No Sharp Edges**. Tech Committee can mandate additional bumper bars as needed for safety.

8. Minimum body height is 45".

## **B. SAFETY:**

### **(A) FUEL CELL:**

1. The use of a commercially manufactured fuel cell is mandatory. The maximum capacity, including filler spout and overflow vent check valves is 22 gallons. Filler spout and overflow check valves are required. The fuel cell vent must exit out of the trunk area on the left rear side of the car. No materials other than standard foam supplied by the fuel cell manufacturer are permitted to make the fuel cell meet the 22-gallon capacity. **Minimum ground clearance is 10"**.

2. Fuel cell container is required. **The fuel cell must be enclosed in a container of not less than 22 gauge steel.**

3. Fuel cell and fuel cell container must be fastened to the frame in a recessed frame support as far forward in the trunk area and at an equal distance between the frame rails.

4. Fuel cell and the fuel cell container must be secured with 1"x1" x .065 steel tubing. Not less than two (2) lengthwise, and two (2) crosswise, and two (2) across the top, evenly spaced at the top and must bolt to container support frame. The support frame must have two (2) tubes that are welded to and extend between the left and right frame rails. Three (3) tubes must be evenly spaced across the recessed well (front to rear). These tubes must be welded to the cross support tubes and extend down the front side, rear side, and under the fuel cell container. If the fuel cell container has a bolt-on top, it must be bolted together with a minimum of 1/4" diameter bolts spaced a maximum of 4" apart. If the fuel cell container has a bolt in end panel, it must be fastened together with a minimum 10/32" diameter screws with nuts spaced a maximum of 4" apart. No sheet metal screws or pop rivets are to be used to secure to top or end panel of a fuel cell.

5. A protective bar, minimum 1 3/4" x .090 must extend below the rear frame section behind the fuel cell. This protective bar must be as wide at the rear frame rails and extend as low as the bottom of the cell with two (2) vertical uprights evenly spaced between the frame rails and attached to the rear cross member. Two (2) support bars; one (1) located on each corner must angle upwards and be welded to the rear frame rails.

6. A reinforcement plate, of not less than 14 gauge (0.078) inch thick magnetic flat steel, must be installed behind the fuel cell container. The plate must extend the entire width and height of the fuel cell container. The plate must be welded in the spaces between the rear cross member and/or the cross bracing at the rear of the rear sub frame. It must be welded with a 1" weld, spaced a maximum of 4" apart.

7. **FUEL LINE:** If your fuel line runs through the Driver's compartment, then the outside of the fuel line **MUST** be painted **RED** or wrapped with **RED** duct tape. Take a **BLACK** marker and write on the outside clearly and in big letters, three (3) or more places: "**FUEL LINE**". Fuel line may be run under car but must be mounted away from exhaust and moving suspension.

8. No exotic and/or fuel additives allowed. Fuel will comply with ASTM D4814, Standard Specification for Automotive Spark Ignition Fuel. No electric fuel pumps, no fuel cooling devices, no NOS, no Oxygen bearing agents, no Nitro, no HRB-11.

### **(B) SEATS:**

Only approved, custom manufactured, aluminum seats are permitted, Minimum .090 thickness required. It is recommended to use a containment seat. Leg extensions on both sides also recommended. A padded headrest is mandatory. Seat must be mounted to the roll cage, not the floor pan. A minimum of four (4) Grade 8, 1/2" bolts, and flat washers must be used.

### **(C) BELTS:**

A quick release lap belt no less than 3" wide is required. Both ends of the lap belt and both ends of the shoulder harness must be fastened to the roll bar with Grade 8 bolts not less than 1/2" in diameter. The shoulder harness and lap belts must be bolted so that the ends of the belts move freely. Shoulder harness must be no less than 3" wide and must come from behind driver's seat max 3" below the drivers shoulders or less than 10 degree's. If wrapped around the rollbar here the harness crosses the roll cage, it must pass through a steel guide welded to the cage that will prevent the harness from sliding side to side. Shoulder harness inertia reels cannot be used. A center (crotch) or submarine belt must be mounted to the lower seat frame at the bottom. Where the belt passes through the seat edges, it must have a grommet installed, be rolled and/or padded to prevent cutting. All seat belts and shoulder harnesses must connect at the lap belt with an approved quick release buckle. Seat belts must be dated by the manufacturer and must not be used beyond the SFI valid until date by more than 2 years. If a HANS device is being used, then the HANS style seat belts may be used.

### **(D) HELMETS:**

It will be mandatory for **ALL** Drivers to wear a helmet carrying a valid, orange SA2015 or newer, standard Snell sticker, or a sfi 31.1 rating at all times while on the racing surface. **NO** motorcycle helmets and **NO** "M" Snell sticker helmets. Helmets must accompany the car at time of all inspections. **It is strongly recommended that all Drivers record blood type and RH factor, plus any major medical allergies to adhesive tape label to outside back of helmet.**

### **(E) CLOTHING:**

Drivers must wear an approved Nomex or Proban driving suit at all times when the car is on the track. Driving suits must effectively cover entire body and meet a minimum sfi 3.2A/1 rating. It

is strongly recommended that the Drivers wear Nomex underwear, headgear, socks, gloves and shoes made of fire resistant material.

**(F) WINDOW NET:**

A nylon window screen is mandatory; The window screen must be a rib type, made from 1" wide nylon material with a maximum of 1-3/4" square opening between the ribs. The minimum window screen size shall be 22" wide by 16" high. It must release from top with seat belt type latches, and it must be fastened to the roll cage top bar and highest Drivers door bar on the cage. All window net mounts must be welded to the roll cage. **WINDOW NET:** Window net must be dated by the manufacturer, must meet SFI specifications, and not be used beyond the SFI valid until date by more than 2 years.

**(G) FIRE EXTINGUISHER:**

It is mandatory to have a Dry charged 2-1/2 lb. minimum, with quick release fire extinguisher. This fire extinguisher must be securely mounted to the frame and/or roll cage structure and must not use hose clamps, worm drive clamps, duct tape, or cable ties. It may NOT be taped to the roll cage. Must be fully charged. The gauge must be easily visible for the Technical Official to read. Recommended on-board fire extinguisher system. It is mandatory that all entrants have in their pits, at all times, a fully charged 10 lb. Class B fire extinguisher, showing current inspection certificate and a visible operating pressure gauge.

**C. FRAMES AND SUSPENSION**

1. Fabricated or stock front clip using only Stock oem style lower a frames may be used. Rack and pinion ok, aftermarket steering components "idler and pitman arm, drag link" may be used
2. Stock lower control arms must be used. A stock lower control arm is defined as the outside stamped configuration of the A-frame and shall be unaltered. Additions may be made for the shocks and sway bar. Ball joints will remain in the stock location. A-Frame mounts on the frame are to remain in the stock location.
3. Upper control arms and mounts may be stock or fabricated steel. Upper control arm mounts may be repositioned.
4. Stock OEM dimensioned cast iron spindles may be used. No cutting or welding. May drill tie rod hole to 5/8" for use of rod end. Minor grinding is allowed to remove flashing and clean up spindle. Must declare spindle make, model, year to tech. Aftermarket fabricated steel spindle ok add 50lbs.
5. Weight jacks are allowed on all four corners of the car.  
a. Springs and Shocks: No coil over type front suspensions, NO STRUTS. No coil over spring eliminators to be used. Minimum 5" diameter coil springs to be used. Rear leaf springs allowed. One steel or aluminum non-adjustable shock per wheel. No internal or external bump springs or stops. Rear coil over spring and shocks ok.
6. Non rebuildable non adjustable twin tube 10lbs per shock weight break.
7. 102" minimum wheelbase.
8. No straight front axle cars.

9. Frames may be stock from the clip back or may be manufactured from a minimum 2"x3x.090 steeltubing or equivalent. IF 2"x3" or equivalent is used it must extend beyond all cage uprights.
10. Engines must be placed between the front frame rails, with the most forward spark plug no more than 2" behind the centerline of the lower ball joints. Crankshaft centerline must be no lower than 11" from the ground.
11. No independent or "c" clip rear ends. No Detroit lockers, gold tracks or similar locker units allowed. Full or mini Spools only. Quick change optional. **1 piece axle tubes only...No bolt on snouts, no cambered drive plates allowed. Min axle diameter 1.160"**
12. Wide 5 type wheels may be used. a Wide 5 spindle adaptor may be used ex. Coleman fs-809
13. Maximum track width, outside edge to outside edge at spindle height is 82" front and rear.
14. **Front** stock pad brake calipers only. aftermarket ok 2 piston ok, no 4 piston. Any rear caliper ok.
15. No center pull rear suspension. conventional 3 link, oem 4 link, or leaf spring only. solid trailing arms and top link only. No rubber bushings or travelling links. Solid rod ends only.
16. An OEM or 1 piece tubular slapper style sway bar may be used. **NO 3 piece bars**

## D. ENGINES AND RUNNING GEAR

1. No fuel injection, blowers, superchargers, or turbos. All engines must be cast iron block with factory cubic inch 360 or less before being bored.
2. No dry sump engines.
3. Any Cast Iron head. Heads may not exceed 200 CFM on intake runner.
4. Chevy 23 degree steel heads only. Ford and Dodge stock angle.
5. No porting, polishing, or port matching on heads. No tapering or grinding below 1" of valve seat. If in doubt see a Tech official for clarification.
6. Maximum 370 Cubic Inch engines. Flat top pistons only. After market steel rods and crankshafts are OK. No stroked or destroked engines. Ask Tech for Clarification. Chevy 3.5" crank ok.
7. Any type ignition is approved. No magnetos.
8. Any intake manifold with a normally aspirated carburetor, 2 or 4 barrel may be used. No homemade/custom made intake manifolds.
9. No mushroom lifters or roller camshafts allowed. Roller rockers are permitted. All cars must be equipped with a working clutch. After market clutches allowed. No in-out boxes. NO Aluminum flywheels. Clutches 7.25" and smaller may use aluminum bellhousing, all others must use a steel scattershield OEM transmissions only must have working reverse. Automatic transmissions ok and my use coupler.
- 10 The GM sealed crate engine, part # 19434604 or previous 604# must conform to the Super Late Model crate engine rules, must use an unaltered Holley 80541-1 or 80541-2 Carburetor. 604 engine can deduct 100 lbs from total weight. 6400 or less rpm rev limiter must be used
- B** The GM "602" factory sealed crate engine may be used and must run a 6200 rpm chip. You may deduct 125Lbs and add 1% of left side weight.
- C** Crate engines may be refreshed, but must retain all manufacturers' specifications unless specified. No reground cams. must retain the factory hydraulic cam Max lift .474/.510, Maximum compression on all cylinders is 180psi on our gauge. No port/polish, 1.5 rockers, must

be externally balanced crank, champ pan optional part # CP106LTRB. rebuilt crate may deduct 50lbs

**11.** Tires will be the American Racer 970.

**B.** Each car will be allowed 12 tires for the season. You may bring a used tire into your inventory instead of a new tire but it will count as 1 of your 12. Tires have a serial number and it is your job to give tech the serial numbers of the tires in your inventory. You do not have to enter all tires at one time.

**C.** The minimum tire durometer reading at anytime on raceday will be a minimum of 55.

## **E. MISCILANIOUS RULES:**

**(1)** An ON/OFF ignition switch will be installed within reach of the driver when belted in the car. The on/off switch will be clearly marked. A MASTER on/off switch must be located on the roll bar directly behind the driver and accessible from the outside and must kill power to the entire car.

**(2)** Car must have securely fastened working muffler with exhaust exiting behind the driver. Maximum sound level is 95 decibels at 100 Feet. Will be strictly enforced.

**(3)** Ballast weight must be securely attached to mainframe or major cross member structure with a minimum of two (2) 1/2" bolts. It is strongly recommended that majority of the ballast weight be contained inside the frame rails. Must be painted white and display car number. Must be in block form of no less than five (5) lbs. No ballast/weight shifting devices allowed. No "outrigger type" ballast weight brackets. No dumbbell or weight lifting weights allowed. Any lead found to not be painted, have car number on it, or be securely fastened will be a \$500 fine

**(4)** Battery may be relocated to inside of the car, but not in the trunk area. Battery must be isolated from fuel lines, must be enclosed in a protective container, and must be securely fastened to the floorboard. One battery permitted per car.

**(5)** Electric fuel pumps must run oil pressure shut off.

**(6)** No onboard computer, or record keeping devices permitted.

**(7)** No traction control devices of any kind allowed.

**(8)** Vintage Modified cars must be registered by South Sound Speedway and will be assigned a number. **Call Stormy 360-701-2489 for number.** Last years numbers will be reserved until the January registration meeting, at which time the numbers will be given out on a first come, first serve basis. Numbers are to be displayed on the car as follows: A minimum 24" high by 3" wide number is required on both door areas. A Minimum 30" high by 3" wide number is required on the roof of the car readable from the right side of the car. All cars must have a 5" number on the top right hand corner of the windshield and/or right head light cover. All numbers must be

legible with paint schemes approved by South Sound Speedway. Sponsors names and lettering must not interfere with the car numbers. **No Metallic or reflective numbers are allowed. They must be able to be seen at night across the track.** South Sound Speedway retains the right to approve commercial or editorial messages on competing cars. Suggestive or rude remarks are not permitted on cars.

(9) Rainout Policy: **NO CASH REFUNDS WILL BE GIVEN.** If ANY car takes the track for practice, there will be only a half rain check given. Full rain check only if cars have not taken the track.

(10) ALL RULES ARE SUBJECT TO INTERPRETATION OF THE TRACK OFFICIALS, ANY EQUIPMENT THAT THE OFFICIALS CONSIDER EXOTIC OR NOT IN THE INTENT OF THE RULES WILL BE CONSIDERED ILLEGAL FOR COMPETITION. IN THE INTEREST OF FAIRNESS, THE RULES AND WEIGHT MAY BE ADJUSTED TO CREATE A BALANCE IN COMPETITION OR FOR SAFETY REASONS.

## **F.Weights and Percentages:**

Base weight for all cars 2900lbs 57% left. weight before each race starts.

### **Deductions:**

-100 lbs for GM sealed 604 crate engine

-50lbs unsealed 604 crate

-125lbs for GM sealed 602 crate engine and 58% left

+ 50lbs for aftermarket spindle

## **G.Amendments:**