

# ***SOUTH SOUND SPEEDWAY***

## **2023 HOBBY STOCK 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.

### **1. COMPETING MODELS:**

(A) Open to all American made, steel bodied hard top sedans or coupes. No station wagons, jeeps, four wheel drives, convertibles, or trans axle type cars. Minimum wheelbase 108" Percentages must be maintained before the event, a weight allowance for fuel will be given when scaled following the main event. **Maximum 64 1/2" tread width measured at center of spindle. If it doesn't say you can then you CAN'T**

(B) **ALL Hobby Stock cars will be required to have a transponder on their car. You can buy it or rent it from Race Car Supply.** The transponders must be mounted on the right rear side of the frame. It must be mounted so that the leading edge of the transponder is 15" back from the center of the rear end axle tube. **No radios allowed.**

(C) **Cars must weigh a minimum 3250 lbs with a maximum 54% left side weight. Max 49% rear. A driver with 2 wins in a row will add 50lbs up to a maximum 100lbs and carry the weight the rest of the season.**

## **2. BODIES:**

(A) Bodies must remain stock appearing. All body parts will remain intact. Wheel opening may be trimmed for tire clearance only. Inner door panels inner roof, inner hood and trunk may be removed. Entire floor pan must remain stock as well as front and rear firewalls. Firewalls will be sealed with .035 minimum sheet metal. Fuel cell must be closed off from drivers compartment completely with minimum 18 gauge sheet metal. Stock core support may be replaced. **Bodies must remain stock appearing, aftermarket sheet metal minimum 22 gauge (0.029) or aluminum minimum (0.030) may be used for door skins, lower fenders, and lower quarter panels, etc must be securely fastened. You may trim the inner and outer fender panel. example top shelf of fender and 1/4 remain stock and rivit a patch panel for lower half. No plastic or fiberglass body parts other than nose/tail/Hood**

(B) Stock OEM front nose or only Five Star type replacement front nose allowed. NO dirt track style noses. NO homemade front spoilers. **Rear spoilers are permitted max width 60" x 6-1/2"**. All cars must have complete bodies. Bodies must be top quality condition. Body May be welded to frame. All bodies must be acceptable to Technical Officials.

(C) The outside of the front nose can be a maximum of 1-1/2" past the outside of the front tires.

(D) Hood must close in the original position and maintain the original configuration. A minimum of four (4) hood pins at the leading edge of the hood and two (2) hood pins or hinges at the trailing edge. No hood scoops or bubbles allowed. All body parts must be fastened securely and in a manner acceptable to Technical Officials. Hood may be aftermarket fiberglass.

(E) It is mandatory that a full dash bar be intact.

(F) The trunk must be able to be opened for inspection purposes. Positive metal fasteners or pins must be used on the right and left sides of trunk.

(G) Radiator protection hoops are allowed, but cannot be any further ahead than the front grill.

(H) No streamlining allowed, no under and/or belly pans allowed.

(I) All flammable material must be removed, along with chrome strips, door handles, ornaments, etc.

(J) All glass must be removed with the exception of the front windshield. This includes headlights, taillights, etc.

(K) Windshield is mandatory, but may be replaced with minimum of 1/8" Lexan. Side port windows are not allowed. Rear windows allowed but must use a minimum of 1/8" Lexan. Must have a minimum of two (2) – three (3) recommended – vertical braces inside the windshield spaced at least 6" apart and centered. Must be welded or bolted with a minimum of 1/4" bolts and flat washers to the roof hoop and the dash. Materials permitted are 3/4" x .065 tubing, 1/8" x 1" flat bar or 1/2" solid.

**(L)** You may have a left side maximum 4" round mirror that cannot protrude outside the bodyline of the car. The inside mirror can be a maximum of 17" x 3".

**(M)** Bumpers must be stock type or aftermarket 1.75" minimum tubing .095 wall mounted in stock location. The rear bumper must have straps either welded or bolted flush to the quarter panels if it isn't covered by a rear bumper cover. Bumpers must be the full width of the chassis. No cow catchers.

### **3. SUSPENSION:**

**(A)** All working suspension must be stock. All components must be un-altered OEM for the make, model, and year of the car. All steering components must be stock un-altered for the make, model, and year of the car. Maximum 2" negative camber allowed on Right and max 0 degrees positive on left. Rear control arms must remain stock un-altered for the make, model, and year of car and must remain in stock location. All bushings must remain in stock location. OEM ball joints only no adjustable, rebuildable, or tall ball joints

**(B)** Frames must remain stock for make, model, and year of car. No frame alterations allowed. No alterations to lower height or gain suspension travel. Minimum ride height of frame and all components is 5" without Driver in the car. Wheelbase must be within 1" of stock oem spec. All cars may run a 1 3/4" front hoop. 2 bars forward, 1 bar from hoop down and 1 bar across at the front. Crash repair using 1.75" tubing or 2" square is acceptable but don't over do it.

**(C)** Racing springs allowed. Springs must be stock production and in the stock location. Nothing between spring coils. Adjustable spring spacers allowed in front spring pockets only and rear coil spring cars. NO Jacking Bolts allowed. NO weight controlling devices of any sort allowed, steel leaf springs only. NO mono leaf and NO composite springs allowed. Minimum 4 (four) leafs per spring pack. Springs may be heated or cut. Adjustable shackles ok. Straight cut lowering blocks ok.

**(D)** No re buildable or adjustable shocks allowed. Must be mounted in stock oem location with stock mounting hardware. Steel shocks only.

**(E)** Car will have brakes in good working condition on all four corners of the car. No aftermarket front rotors or calipers. Calipers must be stock OEM cast iron. Rear disc brakes ok must use stock oem cast iron calipers, aftermarket hat and rotor ok. An aftermarket proportioning valve and/or brake bias adjusting device OK. OEM master cylinder only.

**(F)** Rear ends must be stock production. Open spider gear, Welded spider gear, spool or mini spool rear ends allowed only. No posi type rear ends. C-Clip eliminator kits for rear axles allowed. 9 inch rear end allowed. floater rear end ok

**(G)** Right rear axle is to be aftermarket of 1541L alloy or better. Lug studs must be a minimum 1/2" diameter, five studs per wheel. Lug stud threads must fill entire threaded body of lug nut.

(H) **WHEELS:** Maximum 8" steel wheels permitted. Must be approved for Circle Track, Bassett, Aero, etc. No remanufactured or homemade wheels. No bead lock wheels permitted or extreme beads. May run one ¼ wheel spacer per corner.

(I) **TIRES:** American Racer 970 tire limit may be announced.

#### **4. ENGINE AND TRANSMISSION:**

(A) Stock production V-8 or smaller cast iron engines only max 370 cubic inch. Vortec block allowed. Cast iron blocks and cylinder heads only. Crank must be stock OEM for engine block, Rods can be aftermarket claimer I beam rods maximum retail price of \$299. No domed pistons allowed. Dished or flat top pistons only. Any flat tappet cam allowed. No stroked or de-stroked motors allowed. No roller or long slot rockers allowed. **NO aftermarket performance parts allowed except oil pans.** Aftermarket oil pans recommended. Aftermarket power steering pumps allowed. Must use 6300 RPM maximum rev limiter in line with distributor. May use MSD 6AL box or MSD 8728 rev limiter or similar Must be mounted out of drivers reach and easy for tech to see.

(B) All engines must be mounted in original stock factory location. Steel mounts ok. No engine setback.

(C) Stock OEM cast iron heads must be used. No port matching, porting, polishing or deburring of port and/or combustion chambers permitted. No angle milling of heads. No Bowtie, angle plug, truck, marine, motor home, or aftermarket heads permitted.

(D) Any unaltered stock OEM cast iron 2-barrel or 4-barrel intake manifold only. Stock OEM cast iron exhaust manifolds only. Headers are **NOT** permitted. No port matching, porting, polishing, or deburring or runners. Ramhorn exhaust manifolds are not permitted. Max exhaust size 2.5 inches i.d. Exhaust system must have a 12 inch section of solid 2 inch exhaust pipe in front of or behind each muffler. No bowtie intake manifolds allowed.

(E) **CARBURETOR:** Holly #4412 or 4412CT two (2) barrel, not to exceed 500 cfm. No performance carbs. All carburetors must have an unaltered choke tower and you must be able to read the factory 4412 number clearly on the choke tower. No modifications, alterations, removal, or addition of any parts other than the removal of the choke plate. Maximum 1" spacer and/or adapter permitted between the carburetor and intake manifold. Carburetor must have an air cleaner on at all times. No foam air cleaners. No devices of any kind that direct or duct air to or from the air filter allowed.

(F) Electronic distributors are permitted, must be stock type housing, equipped with a magnetic pick up, gear driven and mounted in stock location. No magnetos allowed.

(G) NO traction control.

(H) Oil coolers permitted, but must not be mounted in the Drivers compartment.

(I) Transmissions will be stock unaltered OEM. No aftermarket transmissions and/or parts. Transmissions must be bolted directly to engine or bell housing without alteration. Flywheel and single disc clutch assembly only, will be stock, unaltered OEM. No

aluminum or alloy flywheels. No aftermarket, lightweight or multi-disc clutches allowed. No lockup converters, torque converter must be operational. Reverse gear must be in working order. All transmissions are subject to the Technical Official's approval.

(J) Must have steel scatter shield or reinforced belting of 3/8" minimum thickness material. Entire transmission hump, to the end of the transmission, must be covered if belt material is used. Belt material must be securely fastened.

(K) Drive shaft and universals must be similar in design to standard factory production. Shaft must be steel. No aluminum drive shafts allowed. Must be painted white and be a minimum of 2 3/4" in diameter. The drive shaft must be surrounded by either two (2) 360 degree solid steel straps no less than 2" x .125 or chain 1/4" thick or cable 1/4" thick and be placed not more than 12" from each universal joint and fastened to the floor or cross member.

(L) **5.3L LS Concept Engine option:** Steel or aluminum block Chevrolet 5.3L engine may be used with aluminum heads, roller cam and rockers. Factory dish pistons only. May use oem, SUM8700 or ct525 camshaft only. Must use Holley 300-132 intake and msd ignition controller 6010 or similar. Must use 4412 carb and 6500 rpm rev limiter. If this package proves to not be competitive a different carb may be considered.

(M) Chevrolet 602 crate engine may be used pat number **88869602**. This engine must have the new encrypted GM seals, and must remain unaltered from factory specifications. this engine must use tool legal Holley 4412 Carb. 6300rpm rev limiter required. adjustments may be made to equalize this package.

## **5. ROLL CAGE:**

1. A roll cage is **Mandatory**. It must be fabricated with a minimum of 1 3/4" x .095 round ERW or DOM tubing. Roll cage must have main hoop, roof hoop, two (2) A-post bars, dash and main hoop spreader bars and main hoop diagonal bar. Minimum of three (3) door bars on each side. Left side door bars must radius out to within 1" of the door skin. It is mandatory that a 10 gauge steel plate completely cover all left side door bars from front to rear and top to bottom, and be solidly welded in place. Removal of left inner door panel optional. Right inner door panel may be gutted if door bars extend past inner door panel. Inner roof panel may be removed for roll cage clearance only. Roll cage legs must be attached to the frame rails and not to the floor pan. Dash bar must go over top of the steering column. All overhead welds must be gusseted. front and rear hoops ok

2. Roll bars in Driver's area must be padded.

## **6. 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"**. Recommend 12-16 gallon cells.
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. All fuel lines that run through the Drivers compartment must be encased in metal pipe or conduit and wrapped with red tape and labeled fuel line for the safety crew. Fuel lines under the car must be safely secured away from exhaust and moving parts in metal casing.
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 that all seats have padded rib protectors and seat leg extensions on both sides. 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. Where 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 2 years after the manufacture expiration date. 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 3/4" 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.

**(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.

## **7. GENERAL RULES:**

(A) 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.

(B) 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.

(C) Ballast weight may be used. Must be painted white with the car number on it. Minimum ballast 5 lbs. Ballast must be securely fastened with 3/8 or larger bolts. Ballast that is not painted white, doesn't have your car number on it or is not securely fastened will earn a \$500 fine.

(D) 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.

(E) No electric fuel pumps allowed.

(F) A one (1) gallon radiator overflow metal catch can must be installed on the right side of the firewall and attached to the radiator overflow. Vent line from catch can must exit on the lower right side of the windshield.

(G) No onboard computer, or record keeping devices.

(H) No traction control devices of any kind allowed.

(I) Hobby Stock cars must be registered by South Sound Speedway and will be assigned a number. **Call Stormy 360-701-2489 for numbers.** 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.



(J) 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.

(K) 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 MAY BE ADJUSTED TO CREATE A BALANCE IN COMPETITION OR FOR SAFETY REASONS.

## **8. NOTES AND AMENDMENTS:**