

# **2023 South Sound Speedway Modifieds**

## **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. Driver eligibility.**

1.1 Drivers must be no younger than 16 years of age

1.2 The parent or legal guardian of a driver 17 or younger must have a minor's release on file.

## **2. Modified Chassis**

1 Any OEM style front clip or Fabricated oem replacement front clip that will meet the templates when requested to submit for chevelle or impala.

2 108.0" wheelbase. Left side at 108, right side measured over or under.

3 80" outside is maximum width, front or rear. Measured at tire buldge.

4 Industry Standard roll cage and door bars required. Door plates mandatory.

5 Total base weight minimum with driver is 2500 lbs and 58.0% left side.

6 Ballast shall be securely fastened with two 1/2" bolts painted white and labeled with car number.

7 Engine Compartment

7.1 Rear of engine (bell housing flange) must be mounted at least 72" forward from the centerline of the rear axel.

7.2 Engine offset must be kept within two inches of the centerline of the front crossmember with engine level.

7.3 Radiator shall be located in front of the engine.

### **3. Body-**

1 Must be of Modified style, engine compartment open w/ no side panels or inner panels.

2 Horizontal width at the back of the deck shall be no more than 6" wider than the horizontal width of the deck at the A pillar.

3 Left side door and quarter panels to be parallel with the frame. Right side panels shall be in place. 4" maximum height skirting approved.

4 Nose panel 45.5" maximum total width, including splitter and sides scoop No part of the nose or splitter may be more than 5" forward of the bumper. MD3 nose ok.

5 Windshield is optional, all cars shall have A and B pillar roof supports unless roadster cars.

6 Windshield will have minimum 3 vertical bars in front of driver.

7 Left and Right side window openings shall be minimum 12" measured at center of opening.

8 Spoiler not to exceed 8 inches tall no more than 4 forward braces on spoiler, not longer than 24" starting at 2" height at forward most location.

### **4. Cockpit**

1 All modern and industry standard safety equipment is highly recommended.

2 Driver shall be sealed off from all drive train components and fluids.

3 Driver in-car adjustable chassis or engine devices not approved. Exception Brake Bias.

### **5. Front Suspension & Steering**

1 Un altered OEM and in Stock Location exceptions below.

2 Upper control arms optional

3 Lower control arms will be OEM no cutting or welding, exception: shock mounts and ball joint replacement.

4 Lower control arm bushing will be 0 offset, aftermarket bushings ok.

5 One steel, non progressive spring per wheel, minimum 4.5" OD. No torsion bars, bags or inner liners. Front sway bar optional

6 Tie rods and tie rod ends optional may be rod end

7 Spindles will be OEM unaltered. Exception: reaming for ball joint fitment, tapping of steering arm to accept bolt. Aftermarket no drop pinto spindle ok if cast iron.

8 Aftermarket hub approved.

9 Rack & Pinion not approved. All Steering components will be either stock steel OEM type steering components ( idler arm ,pitman arm, centerlink) or aftermarket adjustable Howe/all-star type fabricated steel components.

10 steering quickners approved. steering shaft must collapse or have opposing bends.

## **6. Shocks**

Any non-adjustable steel body shock only. Rebuildable ok example Qa1 51 series. Bump stops ok... no compressed air bump stops allowed.

## **7. Rear Suspension**

1 Independent rear suspension unapproved. Main components must be steel.

2 Leaf rear shall be steel or composite leaf springs.

3 Coil overs or coil over eliminators may be used.

4 One steel, non-progressive spring per wheel, minimum 2.5" OD.

5 Spring and biscuit ok on rear links

## **8. Rear End**

1 Any steel approved OEM passenger car or truck rear end allowed. OEM rear end must use spool (full or mini). One piece steel axle tube quick change allowed. Quick change must use spool. Quick change must use minimum one-inch-wide spur gears and bolt on rear cover. Any additional components must be steel, except lowering blocks, axle caps, U-joint caps, and one-piece drive flange. Aluminum 9" carrier ok.

2 Full spool, mini spool or welded differential. differentials may be locked up with long axle but must never come unlocked.

3 Steel axels only. Minimum diameter 1.15"

## **9. Bumpers**

1 Rear Bumper shall be no more that 5" outside of frame rail. If wider than 5" on either side it shall be capped and bent forward 90\*, or constructed in a loop design.

2 Front Bumpers will be constructed frame end to frame end, no wider than width of the material outside of frame horns and with the bottom loop parallel to the ground. Top bar must be above the bottom bar within 2", minimum 6" apart.

## **10 Tires & Wheels**

American Racer 970 treaded tire max 8" steel wheel.

## **11. Brakes**

1 OEM Cast iron single piston or OEM replacement cast iron single piston like Howe

2 Front Rotors OEM or OEM replacement

3 Rear Rotors any vented rotor. New thickness minimum .081"

4 Brake lines shall be visible, all 4 corners shall be operational.

## **12 Fuel System**

1 One Gasoline carburetor.

2 Fuel pump will be mechanical, or belt driven at front of engine.

3 Maximum 22 gallon industry standard fuel cell, with check valve vents in minimum 20 gauge container mounted behind rear end and between rear tires, minimum 4" ahead of rear bumper.

4 Fuel cell protector bar at rear of frame shall be mounted to extend past both sides of the cell and lower than the bottom of the cell.

5 FAST EZ-EFI or FAST XFI Sportsman continued use with prior approval.

## **13. Electronics**

1 Battery shall be securely fastened between frame rails outside of cockpit. All cars shall start under their own power.

2 No transmitting or listening devices, timing retard controls, or digital gauges.

3 Ignition control boxes shall 12v, be non-adjustable and mounted out of drivers reach.

4 Ignition box may have a high-end rev limiter setting via rev chip.

5 Magneto not approved. Traction control not approved.

## **14 Engine Specifications**

1 Wet sump cast Iron Block only.

2 Any cylinder head 1.1" restrictors 2550 Lbs "weight or restrictor may be adjusted" Any OEM cast head 2550Lbs "weight or restrictor may be adjusted" any 4 bbl carb.

3 GM 602 engine as delivered by GM meeting all factory specs ok. Any 750 or less cfm carb. 6200 rev limit. may use PAC 1210X valve springs. 2500lbs

4 GM 604 engine as delivered by GM meeting all factory specs ok. Any 750 or less cfm carb. 6300 rev limit 2550LBS "weight may be adjusted"

5 Rebuilt or unsealed crate engines rebuilt to factory specs add 50Lbs for 602. 1.2" restrictor 604

6 2022 PRA homebuilt engine rule ok. 360 cubic inch or less, must use oem head no vortec, must have dished piston. 2500lbs Any 750 or less cfm carb

## **15. Transmission & Driveshaft**

1 Type and brand Optional- Must have all explosion proof bellhousing precautions in place.

2 Direct Drive approved, Must have at least two working forward gears and one working reverse gear

3 Drive shaft will be steel with a minimum 2" diameter, painted white and have steel slip yolks.

4 360\* driveshaft loops required. Minimum .25" x 2' steel or 1" tubing. Mounting 6' from each u-joint.

## **16. Safety**

Charged Fire System Highly recommended. Head and Neck Restraint System Highly Recommended. Belts, window net, and Helmets must be in perfect condition and within 2 years of valid until date. All Drivers must wear SFI rated suit, gloves, and shoes. SFI

**17 Muffler** - all cars must have a working muffler.

**18 WVS0 B Mods** may race using their rules and weight- exception must be on AR 970 tire unless otherwise noted.