

SOUTH SOUND SPEEDWAY

2024 MINI 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.

Explanation The Mini Stock division is designed to promote greater interest in stock car competition and to enable new and inexperienced drivers and owners to compete in their own class. It enables individuals with moderate means to participate without spending a significant amount of money for race equipment. Decisions and interpretations of the rules by Tech Inspector shall be final. No changes from stock production automobiles to component parts except as listed in these rules are allowed. If the rules don't state that you can, you can't.

1. COMPETING MODELS

1. Competition will be open to American and foreign vehicles, 104" stock wheelbase or less.
2. Please call for year, make and model questions before building new vehicles.
3. No turbo, supercharged engines allowed.
4. No convertibles, roadsters four-wheel drive or four wheel steering allowed.

2. WEIGHT

1. Minimum weight, including driver is before the main event
2. 2200 lbs. Front engine, front wheel drive.
3. Front carbureted engine, solid axle, rear wheel drive.
 - a. 0 - 2359cc engine: Hyd. Cam, non-roller non-ported – 2200lbs
 - b. 0 – 2359cc engine: Roller Cam & ported – 2300lbs
 - c. 2360 – 2600cc engine – 2400lb4. 56% maximum left-side weight. 47% max rear weight

3. ENGINES

1. OEM production 4 cylinder engine allowed in like chassis ford to ford chevy to chevy ect
2. Maximum 2600 cc with overbore.
3. Engine must be mounted in stock location and centerline.
4. Stock production 4 cyl engines with OEM Block only, modifications allowed.
5. Aftermarket and modified internal parts allowed.

4. CYLINDER HEAD

1. Cylinder head must be OEM for make of engine. No racing heads allowed (i.e. Yates, Ford Motorsport, Cosworth, Rhea etc.)
2. Porting and polishing allowed on single cam (8 valve and 12 valve).
3. Porting and polishing NOT allowed on dual cam or 16 valve heads.
4. Four valve heads to be used only on correct cc factory block.
5. No Aluminum head on ford 2300 block

5. INTAKES

1. Modification allowed, aftermarket allowed, adapters allowed.

6. CARBURETORS

1. Any single two-barrel carburetor allowed. Maximum 500 CFM. Must be 4412 gauge legal 1.375 venturi x 1.6876 throttle bore.
2. Choke horn may be removed.
3. Air cleaner mandatory .

4. Air cooled Volkswagen may use any carburetor setup with up to 650 cfm. or 48MM bores, single and dual carbs allowed
5. Must have two return springs.

7. FUEL INJECTION

1. Fuel injection must be stock for year, make and model of engine. Modifications allowed. OEM or aftermarket ECU allowed. Fuel mapping, timing, delete sensors, etc. may be modified.
2. Only single throttle body allowed on fuel injected cars. Aftermarket throttle body OK.
3. Aftermarket injectors allowed.
4. Aftermarket air box allowed.
5. No complete standalone fuel injection systems allowed. Must use some stock components for year, make and model of engine.

8. COOLING SYSTEM

1. Cars must carry an approved catch can or overflow tank; cannot be mounted in driver's compartment.
2. No antifreeze or ethylene glycol coolants allowed. Red Line Water Wetter allowed.

9. LUBRICATION

1. No graphite based oil.
2. No dry sump systems.

10. ELECTRICAL SYSTEM

1. Must have working starter at all times.
2. Crank trigger ignition allowed.
3. A master on off switch must be located on the roll bar directly behind the driver's seat and accessible from the outside, or on the dashboard just right of the center, and must be clearly labeled.
4. Battery must be mounted securely in an approved battery box.
5. Battery to be mounted behind driver in front of rear firewall and as far left as possible.
6. Battery will not be permitted in the fuel tank area.
7. No driver adjustable timing. box must be out of reach
8. No magnetos allowed.

9. Aftermarket distributors and MSD units allowed.
10. Only one coil allowed unless OEM, or crank trigger with 2 coils
11. Must have oil pressure shut off switch on electric fuel pump cars

11. EXHAUST

1. Mufflers are mandatory
2. Any exhaust system mounted through car must be covered in a clean, safe manner. Subject to tech. Headers ok.
3. Must be securely mounted.
4. Maximum noise level is 95 DBA at 100 feet.
5. Exhaust must extend behind driver and exit outside of car.

12. TRANSMISSION

1. OEM transmissions only, adapters allowed.
2. Must have working first and reverse gear
3. Scatter shield mandatory. ¼" steel or approved blanket or 3/8 belting with 180 degree coverage.
4. Starter mounting position must remain in stock location. No reverse mount set ups.
5. Rear wheel drive vehicles may not use Posi traction or limited slip differential. Must be open, spool or welded differential only. FWD factory LSD, Open or spooled ok.

13. FRAMES

1. Original frame rails required. No lightening. May be reinforced. front and rear frame horns may be fabricated.
2. Rear firewall with minimum 20-gauge steel is required between driver's compartment and the fuel cell. Cover must be removable for tech inspection.
3. Original floor pan required. Must be complete in driver's compartment, rocker panel to rocker panel, fire wall to fire wall, exhaust cut out only. Front firewall mandatory and sealed to engine compartment. OEM type material. Rusted floors may use steel patch panels. No altering front firewall for engine set back.
4. Fender wells and strut towers may be removed.
5. No roll cage bars to the front bumper directly. Must retain crush zone and are subject to tech.
6. All cars must have tow hooks, must be readily visible.

14. SUSPENSION

1. Suspension style must be per make, model & year. (strut to strut, coil to coil, leaf to leaf etc..)
2. Reinforcing allowed, coil-overs allowed only on factory coil over cars ex. Honda.
3. Springs optional: must be per manufacturer type (i.e. leaf, coil etc.) for make, model and year. coil overs may not replace leaf springs.
4. Weight jacks and adjustable sleeves allowed.
5. Sway bars optional, one piece only.
6. Spindles and/or steering knuckles must be OEM or direct replacement.
7. Control arms: OEM front lowers, OEM or production remanufactured rear lowers mono ball on one end only, fab upper mounts on mustang ok. Must use all 4 links on an oem 4 link car.
8. Control arm Mounts may be slotted, adjustable and/or heavy duty
9. Any aluminum or steel single adjustable shock or strut per manufacturer. Rebuildable allowed. No canister or external reservoirs. No mono tube . Maximum MSRP of \$199 each with the exception of the QA1 HS601S. QA1 HS601s is allowed on Mustangs
10. Pan hard bar NOT allowed.
11. Wheel base must be within plus or minus one inch, not to exceed 104".
12. No Bump stops
13. Stock production rear end. No aftermarket aluminum center section, no aluminum tubes. 9 inch ok. No bolt on snouts.
14. Minimum 3.5 inch ride height on frame, chassis, and suspension components.
15. Mustangs may use tube sub frame with oem lowers
16. FWD cars no more than 1/2" camber in rear.

15. DRIVE SHAFTS - REAR WHEEL DRIVE

1. Steel or Aluminum driveshaft only must be painted white.
2. Must have two U-shaped brackets no less than 2" wide and 1/4" inch thick fastened to floor to keep drive shaft from coming dislodged.

16. STEERING

1. Steering racks and steering boxes may not be moved or repositioned from stock OEM location
2. Heim Joints allowed.

3. Steering column must be padded. Collapsible preferred or must have 2 opposing bends
4. Steering wheel must be padded, and should be removable.

17. BODIES

1. All cars must have complete stock appearing bodies, trunk and deck lid, hoods, fenders, etc. No downforce type bodies. Body swaps are ok ie PT cruiser on mustang chassis. No ground effects, no belly pans, no rear defusers, stock 1/4 panel and rear bumper length and height off ground.
2. All bodies must be installed on frame as per manufactured, and in the stock location.
3. Nothing to protrude thru the hood
4. Doors must be stock appearing; may be made of aluminum. All doors must be securely fastened.
5. Hood may be lightened and trimmed to allow aftermarket nosepiece. No wedge or dirt style noses allowed. Hood must have rolled edges with no sharp edges. Fiberglass replacement hood ok.
6. Fenders may be altered for clearance only, no handmade fenders.
7. Front hoods must use hood pins, rear deck lid, if operable must use hood pins.
8. Side skirts, air dams, front and rear spoilers allowed, must be securely fastened. No fiberglass.
9. One 6" rear spoiler allowed. Must be mounted past the rear tires and not protrude farther back than the outermost edge of the bumper. Must not exceed the width of the body. No sideboards.
10. Sunroofs must be removed and covered.

18. BUMPERS

1. Aftermarket bumpers and bumper covers allowed
2. Cannot extend outside of body lines
3. Side nerf bars allowed: 1 1/2" maximum outer diameter tubing or 1" x 2" rectangular tubing. Ends must be capped and smooth, no jagged or rough edges. Must not extend past outer edge of tires. **Prefer no nerf bars**

19. GLASS

1. Windshields mandatory. Must be mounted in factory location.
2. Lexan windshield OK. Must be installed in a safe manner. If using factory glass, safety clips must be installed with four (2 top and 2 bottom) 3" x 1" x 1/8" bolted to car and extending 2" over windshield. Subject to tech. No holes in front windshield

3. Mirrors must be mounted within the bodylines of car.
4. Quarter and back windows may be replaced with Lexan. No glass.
5. All front glass must be removed except windshield.

20. BRAKES

1. All cars must have four wheel brakes in operating condition. Wilwood style pedals with dual master cylinder with brake bias allowed. A maximum of one proportioning valve on each car.
2. Rotors must be stock. No home built or drilled rotors.
3. Maximum two cooling ducts or scoops per wheel. 3" Max flexible hose. 4. No anti-lock brakes or components allowed.

21. WHEELS

1. 8" maximum wheel width. Maximum back space 2"
2. One piece steel wheels only.
3. No wheel spacers allowed.

22. ROLL BARS

1. Full roll cage of 1 ½" x .095" steel seamless tubing required. All specifications are subject to tech.
2. Minimum three crash bars on driver's side, two on passenger side. Driver side bars must extend into driver's door cavity and touch door skin; at least one bar must extend into passenger side door cavity.
3. One windshield bar must run from top of cage to cowl area to prevent cave in. Must be 1 ½" x .095"
4. A minimum ¼" inspection hole in driver's side vertical support.
5. All main cage and driver's side door bars must be gusseted.
6. Cage legs must extend from floor to roof and conform to inside body contour.
7. All cars must have 1/8" steel plate welded onto or in between driver's side door bars.
8. Front hoop mandatory.

23. FUEL TANKS AND FUEL

1. Gasoline only. No methanol or exotic fuels of any kind.
2. Electric fuel pumps allowed. If mounted in rear area, pump must be protected by a skid plate.

3. Oil pressure shut off override mandatory with electric fuel pump.
4. Fuel tank or fuel cell must be moved into trunk and be securely fastened in a safe manner as close to the firewall as possible, equal distance between frame rails. All tanks must be approved by tech.
5. No aluminum fuel tanks, cells, or lines.
6. Maximum fuel capacity of 15 U.S. Gallons.
7. Fuel vent line and filter neck must be equipped with check valve. No converted grease or oil containers or similar utensil may be used as a fuel tank.
8. Fuel cell or tank and fuel cell container, if installed in a recessed well, must be secured with steel straps 1/8" by 1 1/2" not less than two lengthwise and two crosswise. Base frame must be made of 1" square tubing minimum, bolted flat to the floor pan with no spacing. Fuel cell container must be supported by three straps, minimum of 1" square tubing to frame equal distance from each end.
9. When mounting fuel cell or tank through trunk floor, an additional container of minimum 20-gauge steel must be used. 1" square tubing frame must be welded to the frame rails only and extend under the fuel cell container and not beyond the rear frame cross member. 8" minimum ground clearance.
10. No fuel cooling cans or devices will be allowed. No glass or plastic filters or filter canisters allowed.
11. Any fuel lines that run through the driver's compartment must be one piece steel braided line or encased in steel tube. No connections inside driver's area. Steel braided line highly recommended. Wrap all fuel lines with red tape and label "Fuel Line".

24. TRANSPONDERS

1. Transponders are required and are to be mounted 15" behind the rear axle on right side of the car.
2. Transponder must be run at all times, including ALL PRACTICE SESSIONS to insure proper operation with scoring. Transponders may be rented from Race Car Supply. If you enter the racing surface with no transponder you will be Black Flagged. If this happens during a race, you will relinquish your starting position and return to the pits to obtain one.

25. TIRES:

1. American Racer approved 13" x 7" tire only

PERSONAL SAFETY EQUIPMENT

A. GENERAL 1. South Sound Speedway is not responsible for the effectiveness of any personal safety equipment. 2. Each competitor is solely responsible for the effectiveness of all personal safety equipment used. 3. Each competitor is expected to investigate and educate himself/herself fully in respect to the availability and effectiveness of personal safety equipment. 4. It is strongly recommended that during race conditions, any crew member that steps into the car servicing area, or is involved in fueling of the car be protected by fire resistant clothing and/or equipment that effectively cover the body, including helmet.

B. PROTECTIVE CLOTHING 1. Fire resistant clothing and equipment must protect all parts of a driver. 2. South Sound Speedway requires that all drivers and wear a fire suit in good condition. It is recommended that all drivers and crew wear balaclava, socks, gloves and shoes in good condition. 3. IT IS THE RESPONSIBILITY OF THE DRIVER, NOT SOUTH SOUND SPEEDWAY, TO ENSURE THAT HE/SHE MAINTAINS, WEARS AND PROPERLY USES PROTECTIVE CLOTHING.

C. HELMETS 1. Drivers must wear a helmet meeting the specifications set forth in The Federal Regulations, Federal Safety Standard, or meet the specifications set forth by the American National Standards Institute Inc. at all times on the race track. 2. Snell SA2015 or newer. Full face helmets required. NO EXCEPTIONS. 3. The driver must wear the helmet in accordance with the directions provided by the helmet manufacturer. Any modifications to the helmet for any purpose should not detract from its effectiveness.

D. HEAD AND NECK RESTRAINT DEVICES 1. It is strongly recommended that at all times during any event (practice, qualifying and competition) drivers must connect their helmet to a head and neck restraint device system. The head and neck restraint device/system when connected must conform to the manufacturer's mounting instructions and it must be configured, maintained and used in accordance with the manufacturer's instructions.

E. SEAT 1. Aluminum racing seat is mandatory. No homemade seats. Mandatory high back double wrap around. Seat must be securely mounted to roll cage and both top and bottom. The seat must be located so that no part of the driver is outside of the roof hoop coverage area. All seats should have padded rib and shoulder protectors. Full containment seats are recommended. 2. A padded headrest approved by officials is mandatory A containment seat is highly recommended.

F. SEAT BELTS 1. A quick release lap belt of 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. 2. 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 driver's shoulders or less than 10 degrees. 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. 3. A center or submarine belt must be mounted to the lower seat frame at the bottom. 4. Where the belt passes through the seat edges, it must have a grommet installed, be rolled and/or padded to prevent cutting. 5. All seat belts and shoulder harnesses must connect at the lap belt with an approved quick release buckle. 6. 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.

G. WINDOW NET 1. A nylon window screen is mandatory. It must be 22" wide and 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 driver's door bar on the cage. 2. The window screen must be rib type made from 1" wide nylon material with a maximum of 1 3/4" square between the ribs. 3. All window net mounts must be welded to the roll cage. Window net must be within 2 years of valid until date

H. FIRE EXTINGUISHER 1. It is mandatory that each car have a fire extinguisher within the driver's reach. 2. It is strongly recommended you have built in, fully charged Halon 1211 or equivalent fire extinguishing equipment with a visible operating pressure gauge, but it must not be dry powder or liquid type. The fire extinguisher must be securely mounted. No fire extinguisher may be secured by duct tape, zip ties or wire. All entrants must have in their pit area at all times a fully charged minimum 10-pound capacity dry chemical Halon or its equivalent with a visible operating gauge and current inspection certificate.

3.

GENERAL INFORMATION All participants are expected to take pride in being part of our entertainment. Racing entertainment is what we sell to the public and we will not tolerate anyone or anything that detracts from the show. Cars in the opinion of the Officials that lack in appearance or are deemed unsafe will not be allowed to race until acceptable. All car construction rules will be decided by South Sound tech inspectors. Burden of proof on any concern will be the responsibility of the driver.

It is the responsibility of the driver to ensure their car confirms to all rules and regulations at any time while on the racing surface or anywhere on premises. This includes practice, qualifying and competitive racing. 2017 South Sound Speedway. All Rights Reserved

Amendments: