

Sheridan Speedway

Mini-Stock Rules

2021

Rule 1 - Car Type

1. Any American or foreign made car or pickup with a factory wheelbase of ~~89-1/2~~ ~~minimum to 104"~~ **107"** maximum. **Mini-trucks allowed maximum wheelbase of 121"** [2021].
2. No convertibles allowed.
3. **Front wheel drive or rear wheel drive.** No four-wheel drive or all-wheel drive vehicles allowed.
4. ~~Front wheel drives are allowed.~~ **If car is legal for Wisconsin Hornet class or IMCA Sport Compact class, it is allowed to run with mini stocks.**

Rule 2- Bodies

1. Must be steel and remain strictly stock.
2. Hoods may be trimmed and liner removed.
3. No cutting or trimming of any body panel is allowed, except for bar and roll cage installation.
4. All glass and chrome must be removed. This includes any exterior chrome, moldings, emblems, door handles, bumper guards and plastic grills. Fiberglass parts that may be subject to being broken must be removed.
5. All flammable materials must be removed from inside the car.
6. Steering shaft must remain in the stock location. A removable steering wheel is allowed and highly encouraged, mounted on stock or solid shaft and with shaft remaining in stock location. A solid shaft must remain the same length as a stock shaft.
7. Bolt on accessories in the engine compartment may be removed. Bolt on accessories in the drivers' compartment will be removed.
8. Full uncut floorboard must extend from the front firewall to the rear bumper. Bottom of the trunk floor may be cut out for fuel tank installation only.
9. Inner front fender wells may be removed. Front and rear fenders may be trimmed for tire clearance. All sharp edges must be rolled or covered. If interior is tinned in, an access door is required to view interior structure. All interior structure must be intact.
10. Doors must be welded shut. Other options must have Tech approval.
11. Bumpers may be welded to help prevent loss. Each end must be turned in to prevent hooking another car. Bumpers must have OEM mounts; no aftermarket or extra materials allowed. **Non-metal OEM bumpers shall be replaced with mild steel, max. 1" O.D., 2 bars rounded at ends and connected, no open-ended bumpers.**
12. Leg protection bar is allowed ~~on the left side only~~ **and strongly encouraged.**
13. Unibody cars must have a plate, minimum 1/8" thick x 6" square, welded under the main cage legs. Plate may be securely welded to main structure of unibody or be bolted through the structure with a matching plate on the underside.
14. One bar no larger than 2" OD tubing (not pipe) is allowed for radiator protection. Bar must be horizontal to the Frame and be behind the sheet metal. Bar must not extend back past the front shock mounts where it is mounted to the frame. Two vertical bars will be allowed on each side of the radiator for support of this hoop.

Rule 3- Suspension

1. No modifying of suspension.

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2. All suspension parts must remain ~~absolutely~~ stock or stock replacement for make, model, and year of car. No spacers, aftermarket parts of any kind or hold down chains allowed. No aluminum suspension components allowed unless OEM.
3. Rubber suspension bushings only. No polyurethane, plastic, steel, aluminum, or brass or any other material not OEM for the model used.
4. Stock OEM spring only. No air shocks or shocks with helper springs allowed. No aluminum suspension components allowed.
5. ~~Shocks or springs can be claimed for \$10.00 each. Spring or shock claim must be paid in full before the start of the main event to the pit steward. Shocks and springs claimed will be exchanged after completion of the main event.~~
6. Rail measurement from ground to rail must remain within 1 in. from side to side.

Rule 4- Transmissions and rear ends

1. All drive train components shall be strictly unmodified stock OEM parts.
2. Stock passenger car type transmission only.
3. Stock passenger car type rear end only.
4. Rear end and transmission must match family of car used.
5. All cars must have working forward and reverse gears.
6. Automatic or standard transmissions are allowed.
7. Rear ends may have spider gears welded or OEM posi-traction.
8. No spools allowed.
9. ~~No aluminum components allowed.~~
10. ~~Rear end gears may be run no deeper than 4.11 gearing.~~

Rule 5- Engines

1. No high performance engines allowed. Normal aspirated only.
2. All engine components must be strictly stock and stock OEM production availability for the make and model of car.
3. Engines may be interchanged within their family line only if no modifications of any kind are required and all mounting remains in stock placement. And the engine came stock in that particular car (make, model, and year), ~~this will be checked by Chilton Manual.~~
4. Up to a .030 over bore is allowed.
5. Pistons shall be a stock flat top or less. No dome pistons allowed unless OEM.
6. Intake manifolds must be stock. ~~No TBI manifolds.~~
7. Stock exhaust manifolds or tubular headers allowed. Exhaust must extend past the driver and manufactured (not homemade) muffler required.
8. ABSOLUTELY no machining, milling, or modifying of cylinder heads, intake manifolds, exhaust manifolds, carburetors or any portion of the cylinder block. May be flat-milled for straightening only.
9. The following must be stock OEM per the engine used: crankshaft, connecting rods, and heads. All heads must be on the proper engine they were intended for. Casting numbers must match and be legible, any grinding or defacing the casting numbers shall be judged illegal.
10. Engine must remain factory stock, no aftermarket or OEM performance parts allowed, ~~no dual overhead cams~~, no rotary engines.
11. Engine maximums: with overhead valves-152 Cu In / 2.5L (2500cc), with overhead cam - 140 Cu In / 2.3L(2300cc). Engines may be interchanged within family line. All cars

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must use hydraulic, flat tappet cam with .410" valve lift or less, no special grinds. Up to .030" overbore allowed. Must idle smooth at 600 RPM (at Tech's discretion)

12. Stock or stock replacement carburetors only, one or two barrel carburetor only, ~~no larger than Holley 4412 (500 CFM)~~. **Carburetor size limited to max CFM of OEM (example, if OEM carburetor flowed 350 CFM, then replacement carburetor limited to 350 CFM)**. May remove choke blade. No machining allowed. Factory stock injection and ECU ONLY.
13. No electric fuel pumps, stock mechanical only. EXCEPT: fuel injected with factory pump and oil pressure cutoff.
14. Stock OEM ignition only.
15. No out of ordinary add on equipment allowed.
16. Stock two or four barrel intake manifolds only.
17. No heads allowed that are listed as high performance in the interchange manuals.
18. Based on results and board determination, injected vehicles may have rule changes implemented to bring them in line with carbureted cars.

Rule 6 – Safety

HELMETS - Helmets are required and must be a minimum of a SNELL ~~SA2000, SA-2005,~~ ~~or SA2010,~~ **SA2015, SA2020** Rating. NO EXCEPTIONS. Manufacturer tag and SNELL sticker must not be removed. Helmets must be worn at all times when the car is on the track and must accompany the vehicle at time of inspection. The helmet must have a face shield or eyewear protection, which must be in place while the car is on the track.

1. Car must have a minimum of a six-point roll cage.
2. Three door bars required on driver's side. A fourth bar is recommended. ~~Highly recommended~~—**If driver's door is "skinned" (inner part of door removed) for bar installation, plate steel to protect driver from penetration through door and driver's side cage bars. Must be minimum 1/8" thickness and be welded or bolted to outside of door bars. Must extend from "A" pillar bar to "B" pillar bar. Must cover from top door bar to bottom door bar.**
3. Two bars minimum on the right side. Third bar recommended.
4. 1-1/2" x .095" minimum mild steel tubing on main roll cage.
5. A competition safety harness with 3" belts mounted in at least five points required. Belts must meet the required safe age limit for use. Belts must be fastened to a point on the frame or cage.
6. Race type seats required.
7. Must have window net or use arm restraints.
8. Must have screen or bars in front of driver. Three 3/8" bars with center roll cage bar or six 3/8" bars. To be approved by the tech inspector.
9. Roll bar padding will be used where the driver's head may make contact with the roll bars. This includes halo and vertical cage bars.
10. A round bar extending forward and horizontal off the roll cage to the car frame past the firewall is allowed - may attach to the frame no further forward than rear mount of the upper control arm. No more than two vertical bars may be installed connecting this horizontal bar to the frame. This horizontal bar may not extend above the body panels between the firewall and the mount location or it may not create a crossover

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attachment from the left side of the car to right side, or visa-versa. The bar may be a maximum size of 1-1/2" dia. .095 thickness. This bar in no way may attach to the radiator protection bars listed in rule 2 item 14.

11. Drive shafts shall be painted white and have the car's number in black.
12. Must have firewall between fuel tank and driver. Front firewall must be sealed between driver and engine compartment.

Rule 7- Fuel

1. Pump gasoline only, 92 octane or less.
2. No additives, alcohol, or exotic octane boosters allowed.
3. Fuel may be tested at any time.
4. No adjustable fuel tanks allowed.
5. Racing fuel cell required. Or approved handmade tank 1/8" thick material.
If fuel cell is mounted in uncut trunk area, may be allowed to be mounted without being in a steel can. Also would not require protection bar in #6.
6. Protection bar around fuel cell required. Bar must protect rear side of tank from collision and extend below the bottom level of the tank.
7. Fuel system must meet safety requirements at all times

Rule 8- Wheels and Tires

1. Approved steel safety wheels, racing wheels, or double-plated centers on stock wheels required on all four corners, stock heavy wheels ok. **OEM aluminum wheels allowed.**
2. Passenger car tread only.
3. No tire known or judged to be manufactured for off-highway or racing use is allowed.
4. No tire is to be ground on, cut on, or modified in any way. No grooving or siping.
5. No aggressive tread design is allowed. All season tread allowed- no mud and snow tires allowed.
6. Maximum wheel size of ~~14"~~ **16"**, 60 series tires w/tread.
7. Maximum rim width 7 inches.
8. ~~Wheel studs will be required to be 1/2 inch diameter on all four corners.~~ Lug nuts must be **1" on steel wheels.**
9. No tire stagger and must be same size of tire side to side.

Rule 9- Weight

1. One pound per engine cc minimum (i.e. 2300 lbs for 2300cc engine) including driver, after the race.
2. Added weight must be mounted with a minimum of two 1/2 inch bolts. Weights must be painted white with car number written on them.
3. Weights cannot be mounted in the drivers' compartment.
Note: weight requirements may be adjusted as needed.
4. No unshielded batteries in the drivers' compartment.
5. When removing weight from car to get close to minimum weight, you must not hinder or lessen the strength/structural integrity of the car. Safety inspector's judgment call will be final.