



2017  
Mini Stock Rules

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### **Attention Competitors**

The 4cyl class is intended to provide and encourage stock car racing at an affordable price. The objective of this class is to provide a low cost, safe, cheap way to have fun, and get your feet wet in the sport. 4cyl cars should basically be stock with only modifications for safety. Efforts to “bend” or take advantage of “gray” area rules will not be tolerated! It is nearly impossible with all the different types of vehicles allowed in this class to provide a rulebook which will cover every possible situation that might occur. The Technical Inspector(s) are given discretion to use their judgment to interpret and make changes to these rules at any time should it be deemed necessary, to insure equal competition for all. Management reserves the right to impose weight penalties to any vehicle deemed dominating.

### **Competing Models:**

1. Any American or foreign made hardtop sedan, lift back or pickup truck up to and including current year.
2. Camaro or firebird with 2.5 motor legal.
3. Maximum wheelbase is 108”
4. No mid or rear engine cars allowed

### **Bodies:**

1. Cars must be neat in appearance. Bodies may be cut and trimmed for clearances only.
2. All bodies must remain stock appearing.
3. All doors must be securely fastened (welded, bolted, or chained) closed.
4. Hoods and trunks may be gutted.
5. Door handles must be removed, and covered with sheet metal or aluminum.
6. Full stock front fire wall in stock location. Complete firewall between fuel cell and driver’s compartment also required. Must have stock floors and holes must be patched.
7. Front and rear bumper covers must be in place. No holes in either except for radiator and chain.
8. Front and rear bumpers must be stock and must stay in stock position and be closed on the ends.
9. Front and rear toe chains are required.
10. A minimum of three (3) hood pins required for the hood, and a minimum of two (2) hood pins required for the trunk.
11. Tubing bumpers will be allowed, as long as it is behind the bumper cover and has no sharp edges.
12. Battery must be securely mounted with a cover.
13. Rub rails tight to body between front and rear tires. No sharp edges.
14. Rayline type replacement body panels allowed.
15. Aluminum seat, safely mounted. 5 point harness mandatory.
16. Vehicles with t-tops or convertibles are not allowed. Sun roofs must be removed and covered with a minimum of 22 gauge steel.
17. All glass must be removed with the exception of the windshield. Windshield may be replaced with a lexan type material or a screen. Windows may be replaced with lexan except for front driver’s side window.
18. Stock dash may be removed and replaced with sheet metal.
19. Passenger rear seat and all flammable material must be removed.
20. Stock floorboards and firewalls must remain stock. All holes must be covered with minimum 22 gauge steel. No exceptions.
21. No boxing in driver’s compartment allowed.
22. Quick release steering wheel recommended.

### **Frames:**

1. No tube frames.
2. Frames must remain stock.
3. Uni-bodies may connect front and rear as long as both sides are done the same way.
4. Minimum frame height is 5”. Measured at any point between the wheels. Measured with drive in the car.

**Note:** There will be no adding air to tires to achieve ride height. If you choose to run lower air pressures that’s your choice but the car must pass the ride height rule at all times.

### **Weight Rules:**

1. All vehicles have a minimum of 2200lbs with driver.
2. Front-wheel drive maximum left side weight 53%, rear-wheel drive maximum left side weight 54%.
3. All added weight, lead or steel, must be bolted or boxed in securely.
4. Bolt-on Weight : Any bolt-on weight, 5 lbs. and up, must be painted white with your car # on it and attached to the chassis w/ (2)-1/2" grade 8 bolts
5. In fairness of competition, the Director of Competition reserves the right to add weight or adjust weight percentages as deemed necessary.

### **Engines:**

1. Four cylinder engines only. No turbo, superchargers, or rotary engines allowed.
2. Engine, transmission, and rear ends must be stock for make model and year.
3. Any type of engine or transmission mount allowed. Must be mounted in stock position only.
4. Pickup trucks may have a maximum of one (1) sparkplug per cylinder.
5. All cars with electric fuel pumps MUST have an electrical shut off switch that has to be clearly labeled ON and OFF, and must be located in the middle of the dash or mounted on the center bar of roll cage next to battery kill switch.
6. Stock rods and crankshafts.
7. No polished or ported heads, intakes or exhaust manifolds.
8. Starter and alternator must be working. No alternator shut-off switches allowed.
9. No after-market oil pans allowed.
10. Maximum 2.25" O.D. for all exhausts. Exhaust must exit behind driver compartment, and exit under the car, NOT OUT OF THE SIDE!
11. Mufflers are mandatory, and must pass a 96 decibel test.
12. Electric fans may be used.
13. Must have radiator overflow tank.
14. Any part with serial or part number removed or altered will be deemed illegal.
15. The track reserves the right to bring in a specialist to determine whether a racecars components are within stock requirements.
16. Positively no anti-freeze/engine coolant or other glycol based liquids allowed. Water and water-wetters allowed. Any driver found using such fluids will be subject to a \$250 fine.
17. Stock carburetor, fuel injection or Holley 2 barrel (0-4412) max. Must pass gauge inspection.
18. 1" adapter plate allowed.
19. Stop type ignition only.
20. Starter must be working. STOCK TYPE CLUTCH AND FLYWHEEL REQUIRED.
21. CRANKSHAFT MUST MAINTAIN STOCK STROKE.
22. AFTERMARKET TIMING GEARS ALLOWED.
23. Any 4 into 1 collector header allowed. NO TRI Y HEADERS OR MERGE COLLECTORS ALLOWED.
24. Muffler mandatory.
25. Carburetion/Injection must be stock for make of automobile.

### **Engine, Transmission, and rear end must remain stock for make, model, and year.**

### **Transmission & Rear-Ends:**

1. Stock transmission
2. No diesel transmission allowed.
3. Clutch- stock for year, make and model.
4. Stock flywheels only. No lightening allowed.
5. 2" inspection hole is mandatory so flywheel and clutch assembly may be inspected visually.
6. If rear wheel drive car and drive shaft runs from motor in front to rear end in rear, it must have two (2) drive shaft safety loops made of ¼ "X 2" steel. Drive shaft must be painted white with car number on it.
7. All gears, forward and reverse must work!
8. Torque converter must be used.

### **Tires and Wheels**

1. Maximum of 60 series or narrower DOT radials allowed.

2. Tires must be all either 13", 14", or 15" tires.
3. Size may differ one size for stagger. EXAMPLE 185-195, 195-205, etc.
4. 15" is the maximum wheel size.
5. Steel racing wheel are allowed.
6. All wheels need to be a maximum of 7" wide.
7. No wheel spacers or adaptor plates allowed.
8. No tire may be used that has a market RETAIL PRICE greater than \$100.
9. 1" steel lug nuts highly recommended on all wheels.
10. Right front wheel may be reinforced for safety reasons.
11. The Director of Competition reserves the right to implement a track tire rule or adjust the tire tread wear rule if deemed necessary as for the best interest of competition.

### **Suspension:**

1. Front strut towers may be modified for caster, camber adjustments only at the top. But must have complete tower, no cutting out sides.
2. No jacking bolts, lowering blocks, lowering kits, adjustable cups, or adjustable spring pockets allowed.
3. Springs must be stock and match from side to side. Fronts both must match and rears both must match.
4. Springs must have same number of coils, same coil diameter, same wire diameter, same free height.
5. Wire diameter will be allowed a maximum of .050 tolerance.
6. No adjustable shocks or struts allowed, (internal or external adjustable).
7. Must be over the counter brands such as Monro Sensa-Track, etc. No aftermarket racing shocks or struts allowed. Stock, no alterations at all.
8. All shocks and struts must be approved by Tech Officials and their decision is final.
9. Serial numbers must be intact and legible for inspection.
10. Spring rubbers will now be allowed.
11. Altering of suspension components and/or mounting points is legal. Any modifications must be approved by tech.
12. Wheel base must remain within 1" side to side, rear ends will be straight up and down.
13. Sway bars must be stock. Stock position, mounting and stock links same size and length left to right.

### **Roll Cage and Safety Requirements:**

1. Minimum size of roll cage tubing is 1 ½", .095 thick.
2. Minimum four point cage required.
3. Hatchback type chassis may not have tubing extending beyond the rear axle.
4. All cars must have trunk area shield.
5. Cars may be braced from the front roll cage to the rear of the front strut towers, and from the rear of the roll cage to the front of the rear strut towers. Left and right side bracing is allowed.
6. Four curved bars in driver's door and three bars in passenger door are mandatory.
7. A horizontal bar is highly recommended from between the two uprights and the dashboard bar.
8. Seat must be an aluminum racing seat bolted a steel frame connected to cage in original position. Must have six (6) – 3/8" bolts, grade 8 with washers. One must be in each corner of the seat (2-3" from the outer edge) and two in the headrest.
9. No seats may be bolted directly to the floor board of your vehicle. You must have a steel seat frame of some sort. A support brace must be installed in the rear of the seat.
10. If battery is not mounted in stock position under hood, it must be mounted in a safety box that is securely mounted behind the driver.
11. All cars must have a safety cut-off switch on dash or drivers right side crossbar. Must be within reach of the driver and accessible to safety crews from both sides of the car.
12. All cars must be equipped with a minimum of five (5) point harness system.
13. Maximum allowable age for belts is three (3) years.
14. Belts are not legal without date tags.
15. All vehicles must be equipped with an approved window screen, equipped with a quick release device.
16. A working fire extinguisher with a working sight gauge is mandatory. It must be attached within reach of the driver and accessible to the driver while strapped in. It must be located in the center of the car so that

it may be reached by safety officials from both sides of the car. Must be securely mounted with a quick release mounting bracket. Zip ties and duct tape are not allowed.

17. Stock fuel tank allowed.
18. Stock fuel tank may be replaced with fuel cell. Fuel cell must be enclosed in steel canister. Fuel cell must be held in place by a minimum of four (4) 1"X1/8" flat steel straps.
19. Minimum five (5) gallon fuel cell allowed. Maximum twelve (12) gallon fuel cell allowed. Fuel cell must be mounted in the center of the trunk floor.
20. All fuel lines passing through the interior of racecar must be enclosed in steel conduit.
21. All fuel cell vent lines must have a check valve.
22. Center of steering wheel must be padded.
23. All roll bars within drivers reach must be padded.
24. Full fire suits are required. Tech officials may require you to replace your fire suit if it is full of holes or covered in oil and/or grease.
25. Racing helmets must be DOT or SNELL approved.
26. The following safety items are highly recommended: Full faced helmet or goggles, fire retardant shoes, socks and undergarments, foam neck braces, Hans or Hutchens devices are highly recommended.
27. Scanners are mandatory. NO TWO-WAY RADIOS ALLOWED.

#### **Additional Rules for Pickup Trucks:**

1. Two wheel drive trucks only.
2. Rear-ends may be locked or welded.
3. Beds may not be enclosed.
4. Rear sway bar not allowed.
5. Chassis may be lowered (for safety) within limits of stock suspension components, (lowering blocks only). Must be same from side to side and front to rear.
6. Number of leaf springs must be the same from side to side. No poly-carbonate leafs allowed.
7. Maximum lowering blocks 1" including any wedges.
8. Minimum ride height for pickup trucks is 5".
9. Fuel cell must be mounted in the pickup bed, centered between the wheel wells of the truck. Must be enclosed in a 22 gauge steel container.
10. Battery will be located to the right of the center line of the rear window, and to the front of the truck bed. It must be fully enclosed and securely anchored.
11. All other 4cyl rules must be followed.

#### **Numbers and Paint Schemes:**

1. There must be a number on the roof, lettered to be readable by scorers on right hand side of the racecar.
2. The head scorer reserves the right to ask race teams to make their numbers more legible. You will have one week to comply. Failure to comply will result in your car not being scored.

#### **Driver Eligibility:**

1. All rules are subject to change by the Director of Competition. It is the responsibility of the competitor to obtain and become familiar with the rules pertaining to the division he/she compete in along with General Rules and written race procedures. If there are any major changes in the rules, a memo will be mailed to each competitor. You will be expected to comply by the next race date, or the date mandated in the memo. It will also be updated on our website.
2. When you sign your license application, you have signed that you understand the rules and will abide by them.
3. The rules and/or regulations set forth herein are designed to provide for the orderly conduct of racing events, and to establish a minimum acceptable requirement for such events. These rules are intended as a guide for the conduct of the sport and are in no way a guarantee against injury or death to a participant, spectator or an Official.
4. In the case of failure to pass tech due to presumable on track damage it will be up to the car crew to prove and at the discretion of tech whether the car will or will not pass tech due to on track damage.

**ANYTHING NOT MENTIONED IN THESE RULES SHALL REMAIN OEM STOCK FOR MAKE OF VEHICLE USED UNLESS APPROVED BY TECH. IF IT DOESN'T SAY IN BLACK AND WHITE, DO NOT DO IT!!!**

**All tech decisions are final. The tech team reserves the right to make any changes that need to be made for the best interest of competition.**