



2021

MINI STOCK RULES

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2018 Riverhead Raceway

Mini Stock Rules

ELIGIBLE CARS

The Mini Stock division is open to any normally aspirated passenger car built from 1980 through 2012, with a maximum wheelbase of 110". Excluded are trucks, convertibles, four wheel drives, T-top cars, mid-engine, aluminum bodied, and special production sports cars. No superchargers, turbochargers or hybrids allowed. All cars are subject to approval by track officials.

Any car deemed to be outside the intentions of the division will be disallowed at the discretion of the track officials. If you have any question as to the eligibility of your car, please ask officials to approve it before you waste valuable time and materials constructing a car which may be disallowed.

Any car deemed not structurally sound (i.e. excessive rust of the frame or unibody, etc.) will be ineligible to compete. The decision of Track Officials and raceway management will be FINAL.

Stock means for the Year and Make of the car being used.

PERSONAL EQUIPMENT

1. All drivers must have a full face Snell 2010 rated or better helmet. In good condition. No M rated helmets.
2. All drivers must have a Firesuit SFI rated 3.2A-1 or better.
3. All drivers must have racing Gloves and Shoes SFI rated 3.2A-1 or SFI-1 or better.
4. Neck brace or Nascar approved HANS type device Recommended.
5. AMB 260x, MyLaps Flex or MyLaps X2 transponder mounted a minimum of 12" behind the rear axle on passenger side.
6. Must have Securely mounted fire extinguisher mounted within the driver's reach.
7. All Drivers MUST monitor the NASCAR frequency (461.200) at all times but, two-way communication in any form is Prohibited. Only a Raceciever or Scanner with the NASCAR Frequency locked will be permitted, this INCLUDES all practice, qualifying and features

ROLL CAGE

1. 6 Point Cage Required. No offsetting of cages.
2. Minimum 1 ½" X .120" or 1 ¾" X .095" round steel tubing . Unibody - Roll cage must be attached to unibody with no less than 1/8 inch steel plate. Plates must be a minimum of 6 inches x 6 inches.
3. All cars are required to have a rear vertical hoop behind and above the drivers' head, connected to the left and right front roll bar legs by a roof hoop. A cross bar must connect the left and right of the rear vertical hoop at seat height and a second bar across the floor pan as low as possible.
4. The front roll bar legs must follow the contour of the windshield post and cowl. Maximum distance from the windshield to the rear of the roll bar should be no more than 4". An additional bar must be installed at dashboard level, extended from the left front roll bar leg to the right front roll bar leg.
5. A minimum of (4) door bars on the left side and (3) door bars on the right side must be used. Driver's side door bars must be bent to extend into the door panels. Plating of driver side door bars mandatory with a minimum of .090 thick plating.
6. Front Strut tower supports allowed, must attach from front strut towers to roll cage front uprights. No bars or bracing in front of strut towers allowed.
7. Rear downbars are required and may NOT go past the rear axle.
8. Newman Bar, Earnhardt Bar, and Brain Bar Highly Recommended.
9. High Backed Aluminum Racing seat mandatory. Bolted to a steel frame, and connected to the roll cage only. (steel frame can not be attached to car frame/body)
 - a. Must use 6 3/8" grade 8 bolts with 2" washers.
 - b. 1 bolt located in each corner of the seat 2" to 3" from the outer edge.
 - c. 2 bolts in support brace at shoulder height.
 - d. Shoulder height support brace must attach to crossbar of roll cage.
10. Quick release Nascar approved, SFI 16.1 minimum, 5-point harness. All belts and harnesses must be securely fastened to the cage (harness must be attached below shoulder level). All belts must be un-frayed and in good appearance. (date within 5 years of mfg.)
11. Roll bars in the drivers' area must be padded.
12. Drop-down style window nets installed in an approved manor are mandatory. (Should be attached to the cage)
13. Rear hoop required to protect fuel cell if cell is located in trunk area. Must not extend to rear bumper.

BODY AND EXTERIOR

1. ARCA/K&N and Sportsman style aftermarket body are the only styles permitted (other than Stock). Steel parts only. No composite, plastic or any other non-metallic materials to be used except for the front and rear bumper covers.
2. No excessive gutting of stock body components (hood, trunk, roof etc ...) other than doors for Door bar clearance.
3. All doors must be welded or bolted shut.
4. All glass must be removed except windshield. Windshield may be replaced with reinforced Lexan (3/16 thick minimum). A minimum of 2 straps of 1/8" x 1" steel must be installed inside and outside of the windshield for reinforcement of the Lexan.
5. Hood and trunk must be secured with pins or bolts and must be openable for inspection. No Chains.
6. If anything other than Hood pins to secure and fasten the hood is used a 10-inch hole must be cut above the air cleaner. No flaps. Trunk must be secured with pins or bolts and must be openable for inspection.
7. Pre-Registered Number is to be displayed on both doors and roof, at least 3" thick and 18" tall, additionally the vehicle number must be on the upper right corner of the windshield for easy visibility by on track officials. Car Base Color and Number Color must be of high contrast to maximize readability of the number for scoring purposes.
8. All cars must be neat appearing. All cars must have complete bodies, hood, fenders, and bumpers in top quality condition.
9. Sunroofs must be covered by one sheet of 18-gauge (minimum) steel and riveted or welded.
10. No sharp edges on the exterior of the vehicle.
11. Headlights, Tail lights, Chrome trim and all other trim must be removed from the outside of the vehicle

INTERIOR AND DRIVERS COMPARTMENT

1. No holes in driver's compartment, all holes must be covered by sheet metal.
2. All interior trim must be removed. Dashboard may remain and may be covered by sheet metal. All air bags must be removed.
3. No sharp edges in the driver's compartment.
4. Removal of lock plate from OEM column Mandatory.
5. Quick Release, metal to metal steering hubs are mandatory. After market racing steering wheels allowed. The center of all steering wheels must be padded.

BATTERY

1. Battery may be relocated to driver's compartment, must be enclosed in a spill proof container and be secure. Container must have a cover!
2. If battery is relocated, it must have a battery disconnect switch mounted in plain view, clearly marked On-Off. The switch lever itself must be painted Bright Orange.
3. Only one standard automotive battery, maximum 12 volt, will be permitted.

ENGINE

1. 4 or 6 cylinder engines only.
2. Engine size and specifications must be stock for year, make and model and use stock location engine mounts. Urethane mounts permitted.
3. Absolutely NO Aftermarket or high performance parts allowed with the exception of K & N style aftermarket air filter kit. All air filter elements must remain in the engine compartment.
4. Engine computers must be OEM stock for year, make and model.

EXHAUST

1. Stock Exhaust manifold only, must match year make and model.
2. Stock exhaust system or cherry bomb glass pack muffler part number #87502CB only.
3. Single Exhaust only. Must exit behind driver on either side of the car..
4. Maximum Pipe diameter 2"

FUEL SYSTEM

1. Fuel Cell is mandatory if stock tank is mounted behind the rear axle. Fuel Cell must be in a minimum of 18 gauge steel case and have foam inside cell. Steel firewall installed between driver and cell/tank.
2. Cell must be mounted on top of trunk floor, as far forward as possible and be centered in the car.
3. Fuel Cell must be secured with (4) one inch x 1/8 inch steel straps. 2 going from front to rear and 2 going left to right. Large washers or 1/8 steel plates on underside and a minimum of 3/8 inch bolts securing the straps.
4. No fuel line is inside drivers compartment.
5. Electric fuel pumps must match OEM Specs for fuel pressure.
6. Electric Fuel Pump Cutoff Switch Mandatory. Must be accessible, and painted a bright orange. Must be clearly marked FUEL On/Off.

RADIATOR

1. Must be in stock location.
2. No auxiliary cooling units allowed

RUB RAILS

1. Rub Rails Allowed between the wheel-base only.
2. 1 3/4" OD round tube, or 1" x 2" Rectangular tube Maximum
3. No lower than the center of the hub and no higher than the top of the tire.
4. Rub rails may not extend out more than tires. Must be mounted flush to the body.
5. Nerf bars must be securely attached to roll cages.
6. No sharp ends and all Ends must be capped.

SUSPENSION

1. Minimum Ride Height of 5"
2. + or - 4 degrees maximum camber on any wheel.
3. **Camber may be obtained by slotting or by shimming. The use of aftermarket parts that are solely intended for camber adjustments is allowed in the front suspension only. Cutting and welding of control arms is eligible with the exception of cast and forged control arms.**
4. Heavy duty stock mount, non-adjustable shocks or struts permitted. Springs may be altered but must mount in factory mounts.
5. Spring spacers allowed but must be wired to the vehicle to prevent loss on racing surface.
6. **No cutting, heating, welding, altering or modifying of any suspension parts allowed. With the exception outlined in rule #3 suspension**
7. Stock rear axles must remain in the stock location for the year, make and model. Modifications of the locating arms and/or locating arm mounts is strictly prohibited.
8. No Brake Proportioning other than stock.
9. OEM Brakes only.

TOW HOOKS

1. One Hook, Loop or Bar both front and rear, must mount between the frame rails above the bumper for towing. must not protrude past the bumper and be no wider than 16". (tow bar)

TRANSMISSION

1. OEM Standard Shift transmission or OEM Automatic Transmission ONLY.
2. No removal of gears.
3. No aluminum flywheels.
4. No multi disk clutches.
5. OEM diameter converter. No hollow converters.
6. No manual valve body.
7. Torque converter stall speed must match oem specs.

TIRE RULE

1. The STOCK OEM wheels or equivalent aftermarket steel wheels may be used.
2. if steel wheels are used 1 inch lug nuts are mandatory and thread should be exposed on outside of lug nut
2. Wheels must be 13" or 14" diameter, and a maximum of 7" wide.
3. All four wheels must be the same width, offset, and backspace.
4. The tires cannot extend outward beyond the fenders and quarter panels. You may not alter the shape of the fenders and quarter panels to meet this rule. If your tires stick out beyond your fenders or quarter panels, you may be assessed a 100 lb weight penalty.
5. Any DOT street legal, 60 series or numerically higher "H" rated (or less) tire with a UTOG wear rating of 350 or higher may be run.
6. Tires must match wheel diameter. Steel belted radials only.
7. All four tires must be the same size.

Example: If you run 205/60-14's, then all four tires must be 205/60-14's.

8. No mixing of tire manufacturer, brands or styles.
9. INEX Tire Option
 - a. The tires must be sets of 4 "INEX" marked Federal tires.
 - b. Size 205/60 R13 with INEX logo only.
 - c. Federal Tires must be mounted and used in the direction indicated on the sidewall.
 - d. Camber cut tires allowed.
 - e. No tire Softening allowed by any means - If any federal tire is softer than 58 points on the tracks durometer, the driver will be disqualified.

WEIGHT RULES

Base Weight of each vehicle will be calculated based on the following formula:

(CC displacement of the engine ÷ 2.377) x Valve Factor +1400 lbs. = base weight (push rod engines)

(CC displacement of the engine ÷ 2.377) x Valve Factor +1500 lbs. = base weight (non push Rod)

Valve Factors:

- 8 valve engines will have a valve factor of 1.0
- 12 valve engines will have a valve factor of 1.1
- 16 valve engines will have a valve factor of 1.2
- 20 valve engines will have a valve factor of 1.3
- 24 valve engines will have a valve factor of 1.4

DOHC engines will add 100 lbs. to the total

Quad Cam engines will add 200 lbs. to the total

V-tech or any VVT/VCT (variable valve/cam timing) engines will add 200 lbs. to the total

Example using a 2.4 liter Quad4 DOHC motor.

2392.3 cc Displacement ÷ 2.377 = 1006.44

1006.44 x 1.2 valve factor = 1207.73

1207.73 + 1500 lbs. = 2707.73

2707.73 + 100 lbs. DOHC = 2807.73 lbs.

Rounded up to 2808 lbs. base weight.

Maximum Mini Stock base weight 3250 lbs.

THESE WEIGHTS MAY BE ADJUSTED AS NEEDED TO KEEP ALL OPTIONS EQUAL

Base Weight Includes Driver. Maximum 55% left side weight with driver.

A TIME TRIAL/IMPOUND RACE WILL REQUIRE ALL CARS TO WEIGH 30 LBS. MORE WHEN PRESENTING CAR FOR PRE TECH.

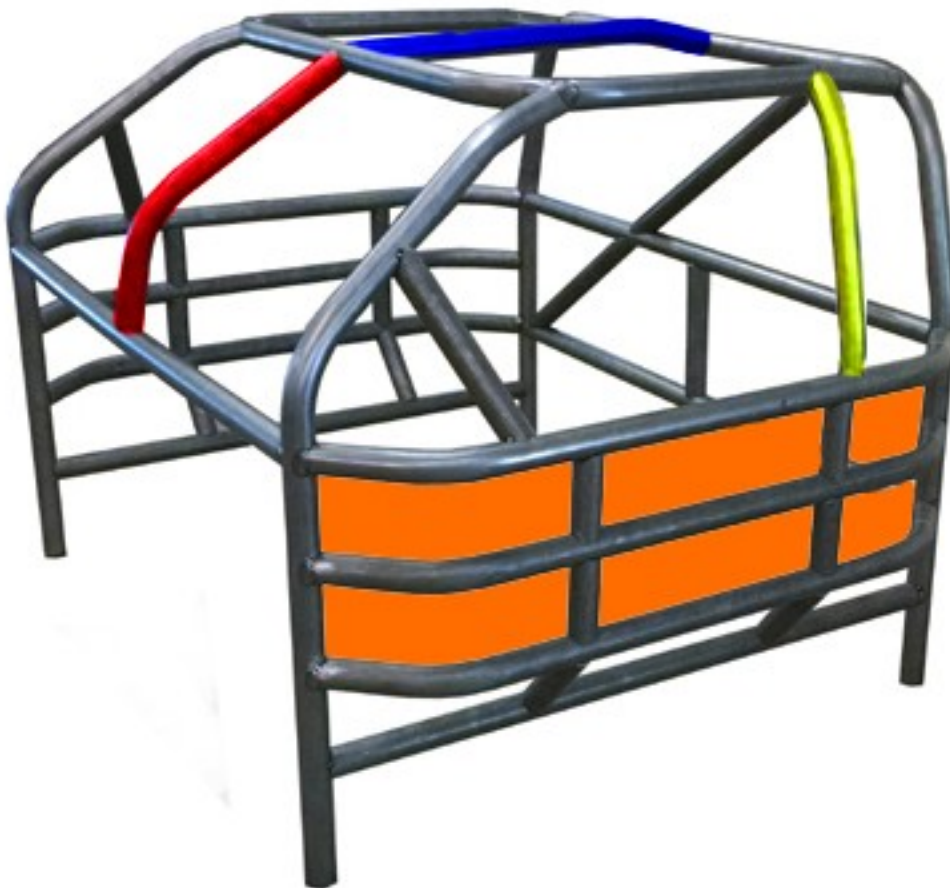
All lead ballast must be painted white with the car number on it, and must be securely mounted with a minimum of 3/8" grade 8 bolts and a minimum of 2" diameter washers.

**The displacement in cc's and base weight of the vehicle MUST be displayed on
the right side of the hood at least 3 inches tall.**

ROLL CAGE REFERENCE

Roll Cage rule #6 on page 2 - **Plating illustration in ORANGE**

Recomended Extra roll cage bars (NOT REQUIRED)
Newman Bar illustration in BLUE Earnhardt Bar
illustration in RED
Brain Bar illustration in YELLOW



CAR REGISTRATION

1. All Mini Stock cars must be registered with the Head Tech Official.
2. You must supply Make, Model, Year and VIN number.
3. Tech will then give you your base weight.
4. Weight and Displacement must be displayed on the right side of the hood or fender at least 3 inches tall.