



PETALUMA SPEEDWAY MINI STOCK RULES

Current as of June 20 , 2024



PETALUMA SPEEDWAY

2024 Mini Stock Rules

As of 6/20/2024

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All changes are highlighted in Yellow.

Mid Season revisions highlighted in red

1 Safety Equipment

1.1 Driver

Anything to improve driver safety is generally permitted.

Driver Suit

All drivers must wear a driving suit of fire resistant material that effectively covers the body.

Minimum requirements are a single layer Nomex suit with underwear, gloves and neck brace. Nomex socks, shoes are mandatory and Nomex helmet skirt recommended. Uniforms must be clean and in good repair. Soiled, torn, worn, or poorly fitting uniforms will not be allowed.

Drivers suit. Must be free of defects, rips, or tears. Must be SFI approved . **Nomex underwear is recommended.** Suits may be one or two piece.

Helmet

Helmet. Must use a **Snell SA2020** or newer helmet. No "S" or "M" helmets allowed. All helmets must have a "SA" sticker with the date and serial number. Helmets with a altered, missing or un-readable "SA" sticker will not be allowed.

Helmets which are abused, thrown or involved in an injury accident will be confiscated by Officials.

Driver's helmet should carry name, blood type, allergies and date of last tetanus shot along with pertinent medical history – this is optional but suggested.

Gloves. Must be free of defects and cover the complete hand.

Neck Brace. It is highly recommended that you utilize a head and neck restraint system.

Shoes Must be free of defects.

Other

1.2 Driver Compartment

Steering wheel with quick release mandatory.

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All cars must have a manual fuel shut off valve painted yellow within easy reach of Driver.

ELECTRIC PUMPS MUST HAVE AN ADDITIONAL SHUT OFF SWITCH CLEARLY MARKED AND EASILY ACCESSIBLE ON LEFT OF STEERING WHEEL.

Window Net

All cars must have an SFI approved window net, securely mounted and latched whenever on the track.

Window Net. Nets must not be older than **two years old**. Nets missing tags, date not punched out, or unreadable tags will not be allowed.

1.3 Fire Equipment

Car

An on board fire extinguishing system may be installed instead of a dry chemical extinguisher so long as it has a minimum of one nozzle in the driver's compartment and a minimum 5 lb bottle filled with Halon or equivalent fire suppression chemical or agent. If no on board system, a minimum 2 1/2 lb. dry chemical fire extinguisher must be mounted in the car in an approved mounting bracket well within reasonable reach of the driver.

Pit

Each pit area must be equipped with a serviceable A-B-C type (dry powder) fire extinguisher minimum 7.5 pound capacity. This is in addition to extinguisher in race car. The extinguisher must be visible from pit road.

1.4 Seat

SFI approved or equivalent racing seat mandatory.

There must be a head rest on either the seat or mounted on the roll cage.

All seats must be mounted to the roll cage or frame, not the floor pan using a minimum of 6- 3/8" grade 8 bolts.

All seat bolts must use large diameter washers to prevent pull through.

1.5 Seat Belts

A quick release 5 point seat belt with shoulder harness no less that 3" wide and a submarine (crotch) belt are mandatory.

All belt ends must be attached to roll bar cage or frame separately from the seat with minimum 1/ 2" grade 5 bolts.

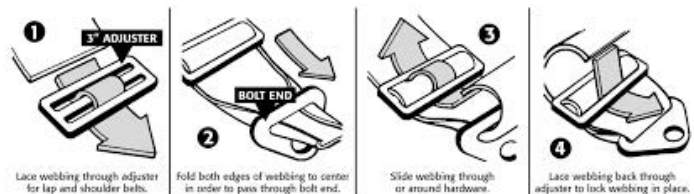
A steel plate may be welded to roll bar cage at driver's right side for belt attachment to prevent driver from sliding from side to side under belt.

Belts must come from behind the driver. Must loop back through adjuster as shown in diagram. *

Safety Belts. Belts must not be older than **two years old**. Belts with missing tags, date not punched out, or unreadable tag will not be allowed.

*Follow manufactures recommended installation instructions

Belts must be fastened at all times while on the race track.





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This bar must be made with flat steel that is a maximum of 1 /4" x 2" or Box steel that may not exceed 1 1/ 8" x 2".

No round pipe.

Must be securely bolted or welded to the main roll cage. If bolted, you must use a round headed bolt for mounting. The ends of the rub rail must be tapered and welded shut.

Must be mounted 24" from the ground ±1" and must be bolted within 2" of ends.

No other exterior rub rails permitted.

5 Engine

5.1 Block

Must be absolutely stock as delivered from the factory. Engine may not be changed from model to model.

Maximum displacement of 2400 cubic centimeters with no more than 2 valves per cylinder.

Mazda's: Piston or rotary okay. Toyota, DOHC, Honda Canadian head and Honda CVCC 3 valves are approved. Any other engine not fitting these specifications must be approved in advance by Petaluma Speedway.

Compression must not exceed:

175 psi @ 2,000 lbs minimum weight

200 psi @ 2,150 lbs minimum weight

225 psi @ 2,300 lbs minimum weight

250 psi @ 2,500 lbs minimum weight

Any engine over 2400cc will add 1lb of weight per CC over in front of rear engine block centerline. In addition to vehicles current total legal weight.

Any engine found after race over 2400cc without extra weight will be given a DQ for the event

Compression will be measured as follows: hot engine, wide open throttle, all sparks plugs removed and 3 or more compression cycles for tested cylinder.

Motor Mounts may be replaced with solid mounts of the same dimension as OEM. In stock location only.

ENGINE SIZE MUST BE PAINTED or DECALED ON HOOD. MUST BE LEGIBLE.

5.2 Crankshaft NO lightweight, No Knife edge, No Stroker

5.3 Connecting Rods Steel Only. No lightweight performance connecting rods

5.4 Pistons Any piston

5.5 Heads

Must be cast iron and stock except: Valve guides open. OEM aluminum heads ok (Toyota) etc.

Valves must be stock. Valve springs, keepers, retainers open. No Titanium material in the motor.

No angle milling. Cylinder head must be as cast. The intake port may be ground to match the gasket no deeper than 1/ 2" from the gasket surface. No other modifications of any kind allowed.

No porting, polishing or grinding. No bowl blending, acid porting, extrude honing. Ford 2.3 CAM Tower straps ok

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5.6 Springs Open

5.7 Valves OEM stock diameter size for cyl head model

5.8 Camshaft Open, Factory style Roller ok. Adjustable Cam Sprocket Ok

5.9 Rockers OEM ratio roller rockers ok

5.10 Oil Pan Open, wet sump only. 1" inspection plug recommended for engine tech without pan removal

5.11 Intake

Any manifold, stock, with adapter, allowed on all motors to facilitate the installation of the track carburetor. If intake needs to be modified to install carb, the manifold may be modified only to install carb. No porting, polishing or grinding. If only an adapter is necessary, the intake must remain stock.

5.12 Air Cleaner

Any type of air cleaner may be used except oil-coated.

5.13 Fuel Delivery System

WEBER "DG" series or one (1) HOLLEY "5200" series or Holley 4412. These two choices of carburetors have one butterfly of 32MM and one butterfly of 36MM. The only modifications allowed to the carburetors are 1) the removal of the choke shaft and butterfly assembly and 2) the addition of a float bowl vent. No other grinding, polishing, enlarging or modifications are allowed. Must conform to tracks No-Go Gauges

Electronic fuel injection allowed. No mechanical fuel injection.

Fuel pump low-oil shut-off switch allowed.

Any fuel pump allowed. Fuel pump mounting will be subject to tech approval.

5.14 Ignition

Ignition switches must be painted red and may be relocated.

No double coils. No traction control devices, no magnitos, no special ignition boxes, rev limiter is ok

5.15 Cooling System

Oil Cooler may be installed but must be in the motor compartment.

Any stock production radiator must be located in stock position. No holding tanks. No auxiliary radiators. Electric fans can be added to assist stock fan. Stock fan may not be removed. Catch tank must remain in engine compartment. Overflow hose must lead to ground. "Stock" = Belt driven fan

Water only to be used for coolant. Use of antifreeze results in disqualification. Water Wetter or equivalent ok.

6 Drivetrain

6.1 Transmission

Must be OEM and with all gears operational. Automatics OK.

Transmission cooler OK provided it is mounted in the engine compartment or trunk compartment or rear shelf area. Lines that go through driver's compartment must be enclosed in pipe or steel conduit or be steel braided lines.

Must be able to shift into all gears and maintain stock shifting configuration.

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6.2 Flywheel

OEM ONLY! No lightening flywheel. No Aluminum flywheel OEM Style Clutch Only!

50lbs of weight to be added for any non-OEM style assembly to front of car

6.3 Driveshaft

Steel only and must be painted white.

A safety loop of 1" x 1/2" x 1/8" thick steel must be securely mounted in the front section of the drive shaft.

6.4 Rear End

OEM type. No aftermarket locking devices of any kind permitted.

Welded spider gears OK.

No switching rear ends to accommodate posi-tractions. Posi-tractions or limited slip rear ends are OK provided they came stock from the factory for the year, make and model of car.

6.5 Miscellaneous

7 Exhaust

7.1 Manifold/Header

Stock or headers allowed.

7.2 Exhaust System

Exhaust system must be mounted in such a way as to direct spent gases away from the cockpit of vehicle and away from areas of possible fuel spillage.

7.3 Mufflers

Must run any stock or aftermarket muffler as long as it meets the DBA limit. Strict db reading of 95 decibels at 100 feet. And pointed down Any car exceeding this limit will not be allowed to compete.

All mufflers may not be modified in any way from original production.

8 Body

8.1 Body, Body Types

Must be stock appearing to make and model. Competitors may fabricate replacement body parts due to race damage however, the shape, form, and contour must remain stock and recognizable for make and model. Fabricated replacement body parts must meet with tech official approval.

Safety modifications include: Fender edge may be cut a maximum of 3" around tire for clearance.

No body, hood or roof gutting.

All plastic, pot metal, glass, chrome, decor, grills, etc. must be completely removed (in general, anything on the car body that might be jarred loose and fall on the track must be removed).

The back seat and all excess upholstery must be removed.

The doors must be securely welded or bolted closed.

Trunks, hoods and/or hatches must be secured with two quick release pins.

"Five door" models are OK provided all other safety requirements are met (also see gas tank rule).

Front and rear wheel wells must remain intact.

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Trunk area must be enclosed. Two 1" drain holes may be added.

Hood may be bubbled to fit air cleaner, but must remain solid. No holes.

No spoilers or wings even if stock. No aerodynamic devices.

Front and rear windows and all side windows must be removed. All glass must be removed, including mirrors.

Front windscreen must be 1/ 2" wire mesh screen.

You may not fill in any window opening.

8.2 Spoiler

No wings.

8.3 Body Appearance

See General Rules

Bodies must be free of excess dents and maintain the car's original, stock-appearing contour.

8.4 Identification

ENGINE SIZE MUST BE PAINTED or DECALED ON HOOD. MUST BE LEGIBLE.

Car Number must be a minimum of 6" x 26" on both doors and roof.

Car number must also be at the left headlight and taillight areas, a minimum of 6" high.

Minimum 2 1/2" separation between numbers. (Color combinations other than white and black which are too difficult for the officials to see or score will be required to change.)

Numbers should be a contrasting color to the car color and easy to read from the scoring tower.

9 Fuel System

9.1 Fuel

Gasoline, race gas, or E85 allowed.

No performance enhancing additives allowed.

9.2 Fuel Cell

Must be fully enclosed in the trunk of the vehicle or in a specially constructed container.

Complete fire walls must protect the driver's compartment from any gas spill.

Spouts must also be enclosed in the "trunk."

Tanks must be mounted, deep in the trunk, to avoid rear impact.

All tanks will be placed in a 1" square tube frame and secured with 4 straps 2" wide x 1/8" thick- steel only.

5 door and 3 door lift back cars must have fuel cell in rear area behind where trunk area would be and must be enclosed in steel box so it cannot spill into driver's area.

Two 1" drain holes must be drilled in the bottom of fuel cell containment box.

Trunk may be cut to fit fuel cell but must be sealed.

Vent must have check valve.

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Gas lines must be securely clamped at every joint and protected from rough or sharp surfaces.

No plumbers tape on any fuel related item.

If the gas line runs through the driver's compartment, the line must be enclosed in steel conduit.

10 Tires and Wheels

10.1 Tires

Must be Hoosier or D.O.T. P205/60 or 70 series ONLY with stock tread pattern. P205, 215, 235-60D-13 Hoosiers OK

No mud, snow, sand or other specialty tires permitted. No race tires or re-grooved tires. No recaps.

The tire must be designed to mount on a 5 1/2" wheel minimum. Tires must have 50 durometer or higher

Tires of any competitor may be "Claimed" by the race track for \$30.00 each at the completion of any A-main event.

10.2 Wheels

Max 15" steel wheels only.

Wheel width must not exceed 8", stock offset only. No positive offsets. No other aftermarket wheels are permitted. EXCEPTION: White spoke wheels or similar wheel design OK provided it does not exceed neutral offset (50/50). May use wheel screws, maximum of five per wheel. Wheel centers may be reinforced or double centered. Studs may also be reinforced. Open ended lug nuts with extra threads recommended

A maximum of one, 1/2" spacer per wheel may be used on both front wheels to avoid tires rubbing the studs.

11 Miscellaneous Class Specific Rules

Front wheel drive vehicles may run with a left rear flat provided the vehicle maintains control.

After the first week of competition the winner will start his or her next main event last. Correspondingly the runner up will start their next main event second to last.

Remember this is an inexpensive class of racing.

12 Disclaimer

FROM: THE MANAGEMENT OF PETALUMA SPEEDWAY

The rules and/or regulations set forth herein are designed to provide for the orderly conduct of racing events and to establish minimum acceptable requirements for such 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. They 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 official. The race director shall be empowered to permit minor deviations from any of the specifications herein or impose any further restrictions that in his opinion do not alter the minimum acceptable requirements. NO EXPRESSED OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM SUCH ALTERATION OF SPECIFICATIONS. Any interpretation or deviation of these rules is left to the discretion of the officials. Their decision is final. REFEREE'S DECISION IS FINAL.

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2004 STATE RULES ALLOW NO LIQUID DUMPING FACILITIES AT THE FAIRGROUNDS. Each race car that enters the Fairgrounds Pit Area MUST have an empty container(s) approved by the MANAGEMENT OF PETALUMA SPEEDWAY that will hold at least 2 gallons of used oil (fluids) for collecting anything that may be drained out of the race car or tow vehicle at each event. These container(s) must be removed with the racecar after every race and be disposed of at an approved facility at the owner's expense.

IMPORTANT NOTICE

It is ultimately the obligation of each participant to insure that his/her conduct and equipment comply with all applicable Petaluma Speedway rules and regulations as they may be amended from time to time. No expressed or implied warranty of safety shall result from publication of or compliance with these rules. They are intended as a guide for conduct of the sport and are in no way a guarantee against injury or death to participants, spectators or others.