



# **2022 PETALUMA SPEEDWAY HOBBY STOCK CAR RULES**

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# 2022 HOBBY STOCK DIVISION RULES

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## DEFINITION OF "STOCK" OR "OEM":

OEM is the abbreviation for Original Equipment Manufacturer. No carbon fiber parts anywhere on the car.

## MODELS:

1. 1965 or later American mfg. stock production sedan with steel top. 2 door or 4 door. No front wheel drive. Body does not have to match the manufacturer chassis.
2. Wheelbase stock for year, make and model. 104" minimum to 116" maximum +/- 1" for year make and model.
3. Minimum weight for car with driver 3,200 lbs. Any car found to be under the minimum weight requirement will be penalized one (1) position per pound underweight.

## SAFETY:

1. A full perimeter roll cage is required. No offset cage allowed. There must be a minimum of four (4) driver side door bars in the left door area. If a passenger is riding along, there must be a minimum of four (4) door bars on passenger side. Two (2) bars must extend from the top of roll cage to the rear of the frame rails. One (1) bar must extend from the left side to right side of rear roll cage at floor pan level for seat belt attachment. One (1) diagonal bar is required across the rear of roll cage from top to bottom. One (1) bar must be installed from left side of roll bar to center part of cross bar at shoulder level for shoulder harness attachment. Additional roll bars may be added. Where roll bars are attached to the floor pan, must have steel mounting plates under and over floor pan. Plates must be a minimum of 4" x 6" x .125 steel. Single pipe front loop may be installed at radiator top tank level.
2. Radiator protection bar and supports may be added. Subject to technical inspection and approval. All radiator protection bars must be behind the bumper and under front nose piece. All main cage roll bar material must be a minimum of 1 3/4" .090" wall steel tubing No thread pipe fittings allowed. All roll cage welds must have a minimum 2" x 1-1/2" x 1-1/2" x .125" steel gussets. All roll bar structure exposed to the driver and passenger must be padded with approved padding. Roll bar construction and installation is subject to inspection and approval. No offset roll cages. 1/8" plates on left side door bars (both sides if having passenger) are required. This plate must cover rocker panel to the bottom of the top door bar and from the rear upright to a minimum of 12 " in front of the leading edge of the driver's seat.
3. Racing seat mandatory. Seat must have complete cage frame support fabricated to the roll bar assembly. No fiberglass seats.
4. A five (5) point safety harness, with quick release mandatory with a 3" wide lap belt, 3 "wide shoulder belts and a 2"wide submarine belt. All belts must be attached to roll cage.
5. All seat belts must have date of manufacturer and must be within 3 years of the present date. It is for your safety.
6. Roll bar padding mandatory wherever the drivers and passenger head may make contact to the roll cage.
7. Tube front bumpers okay. 1-3/4" .095 maximum size tubing used. Must be turned back and

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capped, must fit under nose piece. Aluminum bumper okay. Front and rear bumpers must be mounted at approximately stock height and location. Bumper height measured from ground to centerline of bumper must be a minimum of 16" and a maximum of 20". Bumpers must not be narrowed. Bumpers must have a 90-degree turn on each side extending back a minimum of 4" from front of car on front bumper. Must extend 4" forward from rear bumper. Bumpers must not have sharp corners or ends. Front and rear bumpers must have metal plates covering full width of bumper securing ends of bumpers to the quarter panels. Front and rear bumpers must have safety chains mounted to the frames. Bumpers are subject to tech approval, call for clarification. Bumpers cannot stick out past bodies. No exceptions, it will be fixed. Bumpers need easily accessible tow hooks mounted.

8. All Passengers MUST have and follow all of the same safety equipment / rules as the driver.
9. Fire extinguisher: Minimum 2 lbs. dry-chemical must be mounted in driver's compartment. Must be accessible to the driver. Must have quick release mount. Must not be taped or plastic tied in. Additional fire extinguisher must be in pits at all times.
10. Safety helmet must meet SNELL 2010 testing standards, bear proper identification, and have no signs of previous damage. No open face helmets allowed. SFI-approved full fire suit required. Fire retardant gloves, shoes and neck brace (or head and neck restraint) required. Recommended: Fire retardant head sock and underwear.
11. Neck brace required at all times. Hans recommended.
12. Equipment will not be considered "legal" simply because it went through inspection unobserved or because a rule has not been written against it.
13. Driver-side window net required, minimum 16 inch by 20" ribbon or mesh style, and must be mounted to roll cage so latch is at top front of window. Strict enforcement on secure mounting. No zip ties or pop riveting. Hard mount only.
  - a. Passenger side window net required when passenger is in car, minimum 16 inch by 20" ribbon or mesh style, must be mounted to roll cage so latch is at top front of window and securely mounted to the roll cage. No zip ties, pop rivets, est.
14. No mirrors of any kind allowed.
15. No 2-way radios allowed. Working RACECEIVERS MANDATORY.

### **BODIES:**

1. Must be mfg. stock for year model used. Fenders, doors and rear quarter panels may be interchanged with similar models as long as end result looks stock. Any fabricated body part must be 22-gauge steel or aluminum.
2. No cutting away of exterior sheet metal except as outlined:
  - a. Body sheet metal may be trimmed for tire clearance a maximum of 5" above tire on both sides of car in race ready position.
  - b. Rear trunk floor and outer portion of inner fender panels may be removed. Inner body panels may be removed.
  - c. All glass and chrome trim must be removed.
  - d. Windshields must be replaced with maximum 1/2" wire mesh in front of driver and passenger. Must have one (1) center vertical support of minimum 1" x 1/8" steel strap.

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- Hood scoops are allowed but must be sealed. Hood and deck lid must have approved quick pull positive hold pins. Back of hood must be closed off to engine compartment. Should not be able to see any part of the air cleaner with hood on and fastened. Trunk area must be closed off. Should not be able to see any part of the trunk fuel cell area with trunk lid on and fastened. Engine to driver's compartment and trunk area must be completely sealed off to driver.
- No fiberglass or plastic fenders, trunk lids or quarter panels may be utilized. Fiberglass hoods okay. Any plastic nose piece may be used, MD3 okay, must look stock, no late model noses or MD3 Late model noses.
- 6" rear spoiler allowed. No wider than the stock trunk unless using an OEM spoiler. No spoiler side plates or supports allowed.
- Body side skirts allowed. Doors and Quarters must be rolled or creased to match front fenders
- Stock or full manufactured sealed floor pan and fire wall.
- Body manufacturers may be interchanged per manufacture chassis; wheel base must remain stock for chassis being used. (Examples: Ford body may be used on Chevy chassis; Monte Carlo body may be used on Camaro chassis.)
- Number must be on both sides of car located on door. Must also have number located on roof and on front of car located in approximate headlight area and taillight area. Minimum number size is 20".  
Number lines must be a minimum of 4" and in contrasting color to the body of car.

### **ENGINE:**

#### **A. Engine Blocks:**

- Stock OEM engine block only. No aluminum. Ford and Chevy 360 cubic inch maximum. No Chevy 400 blocks. Chrysler 370 cubic inch maximum.  
Studded main caps allowed. Must have stock casting numbers on block. The engine block must not be altered in any way so that it could not be used in a street legal production car. Chevy Crate 602 with factory sealed bolts are okay, must have hydraulic cam, stock rockers and valve springs, 602 motors without seals must conform to the open motor rules, no 604 crate motors, no 604 blocks or heads to be used in open motors.
- After market pulleys, air cleaners and valve covers allowed.
- After market fans allowed.
- Aluminum water pumps okay.

#### **B. Pistons:**

- Flat top or Dish pistons ONLY. No lighting of any kind. No domed pistons allowed.

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### C. Cylinder Heads:

1. Stock OEM or World Products S/R Torquer Cylinder Heads for Chevrolet part# 042660 and 042670 or part #5303 for Ford. Dart heads, part #10024361 and Speedway part #9154622 for Chevy.
2. Vortec style: GM Performance #12558060, 12691728. Dart #3042436.
3. No aluminum, angle plug, or aftermarket racing heads allowed, except for the above listed.
4. No port matching, no pocket porting or blending. No angle plug heads.
5. Stock appearing stamped steel rockers only. Roller tips okay, no alloy, no chromoly or titanium allowed. No full roller rockers. Screw in studs okay. Large valve springs okay. Guide plates okay.

### D. Camshaft:

1. Any hydraulic or solid lift cam. Vortex heads and all 602 must run hydraulic cam.
2. No roller or mushroom cams allowed. No gear drives allowed.

### E. Intake and Carburetor:

1. Stock OEM 2-barrel intake manifold. No modifications.
2. Edelbrock Torker II.
3. Edelbrock Performer, Chevy part #2701, or Ford part#71221
4. Weiland, Chevy part# 7547 or Ford part# 7515
5. Vortec head design, GM Performance #12366573, 12464340. Edelbrock Performer #2116.
6. Carburetor spacer must not exceed 1" max. No funneling of spacers.
7. One stock Holley #4412 500 cfm carb allowed only. May remove choke plate and change jetting. No other modifications are allowed. Must pass track's Go/No Go gauges.
8. Gasoline only. No alcohol. No mixing of fuel.
9. No 4-barrel carbonators allowed. No porting or polishing of any kind to any intake or cylinder head. Intake manifolds and cylinder heads are a no touch item.
10. No air forced boxes or air induction allowed.

### F. Additional Rules:

1. Exhaust pipes must extend to the rear of the driver and point to the outside of the car. Stock cast exhaust and headers are allowed.
2. No 180 degree or crossover headers allowed. 2 (two) mufflers mandatory. Maximum DB reading 95 decibels at 100 feet. Mufflers and tail pipes must be mounted below or underneath stock floor pan. No part of the exhaust system is allowed inside the driver's compartment.
3. No electric fuel pumps allowed. Fuel cells mandatory. Fuel cell must be retained by minimum of four (4) straps; two (2) crossways, two (2) lengthwise in center of trunk area.
4. OEM Automatic stock transmissions. Must be equipped with one stock working torque converter, 11 inch diameter minimum width. No stall converter No lightweight flex plate must be stock OEM style replacement. 3 or 4 speed manual transmissions allowed. All gears must work at all times. Transmission cooler okay must be located in the trunk of car.

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5. Single disk OEM type clutches only. No triple disc.
6. No aluminum flywheels. Flywheel must be OEM. No aftermarket flywheels.
7. Aftermarket power steering pumps okay, must be mounted on front of engine.
8. Engine must be mounted in stock location.
9. A quick release steering wheel may be used. Must be padded. Steering quickener allowed. Stock steering columns may be removed and replaced with aftermarket steering shaft U-Joints and couplers.
10. Drivelines must have two (2) retaining straps, one (1) near the front and one (1) near the back. May be made of chain or metal strap. Drivelines must be painted white. No aluminum or carbon fiber drivelines.
11. OEM 4-wheel brakes in good working order required. No turning brakes of any kind allowed. No shutoff or restriction devices allowed.
12. No dual racing type master cylinders or balance bars allowed.
13. One brake master cylinder ONLY may be mounted any location.
14. Distributors must be stock point or HEI type. No step-up boxes, no racing/performance modules or coils allowed. Must be stock OEM replacement. Ignition voltage must be below 13 volts at distributor.
  - a. No MSD or Mallory modules allowed. MSD or Mallory wires okay. One 12volt battery only. No double coils. No electronic ignition unless stock for make and model.
15. All cars must be equipped with one working starter mounted in stock location. Mini starters allowed.
16. One 12 Volt battery securely mounted with terminal covers with plastic or rubber.

### **FRAME:**

1. Frame must be stock only. Additional supports may be constructed to protect the uni-body. Such support bars must follow the contour of the frame and not extend beyond the inside of the wheels.
2. Wheel base – minimum allowable 104”.
3. OEM front and rear sub frames. No cutting, sectioning, or redesign of any frame or sub frame to change the stock location of any suspension component or engine placement.
4. All suspension components and parts must be stock / OEM.

### **REAR SUSPENSION:**

1. Leaf spring cars may use stock style steel aftermarket replacement leaf springs front must mount in stock location. Leaf spring cars are allowed to have adjustable shackles or sliders.
2. May use stock, urethane or aluminum bushings.
3. May replace stock spring pads on rear end with aftermarket pads. Adjustable lowering blocks allowed.
4. Coil spring cars may use any height coil spring with a minimum of five (5”) diameter in stock location.
5. Non-adjustable spacers on top of rear coil springs allowed.

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6. Upper and Lower trailing arms must be mounted in stock OEM location on frame and at rear end. Upper trailing arm mounts on the top of rear end may be altered to allow pinion angle to be re-set in car.
7. No pull bars.
8. Shocks on ALL cars will must be steel, non-adjustable, non-rebuildable and mount in stock OEM location.
9. No rear sway bars allowed. If a rear sway bar was on the car as part of the OEM, it must be removed.
10. Any crash damage repair must locate the suspension components in their original positions with a minimum of reinforcement. Front leaf spring mounts must be stock and in the stock location.
11. Ford 9" Steel floater rear axle assembly is allowed. Locked rear ends are allowed. One piece steel rotors only, weld on caliper mounts okay. Solid steel axles only. No aluminum housing or spools, no Detroit lockers, no Gold Tracks, no traction control devices of any kind. Rear disc brakes okay.

### FRONT SUSPENSION:

1. Any height front coil spring in stock location. Stock diameter only. Adjustable spring buckets allowed. No bite bolts.
2. Shocks on ALL cars will use stock OEM mounts, steel, non-adjustable and non-rebuildable in stock OEM location.
3. Upper A-Arms must be OEM or 1 piece welded tubular steel with steel or aluminum cross shaft nonadjustable (No swedged tubes must not be able to adjust caster or camber without the use of shims on the cross shaft) no heim joint or bearings allowed.
4. Bolt in, or screw in ball joints allowed as long as they bolt up to stock location. Tubular A- Arms must be steel and can be of differing lengths
5. Upper A-Arm mounting plates, must be in stock location.
6. Lower A-arms must be OEM in stock mounts.
7. Lower ball joints may be stock type screw in, bolt in weld in or press in.
8. No aftermarket front spindles or brake rotors allowed. No modifications to spindles or rotors allowed.

### TIRES AND WHEELS:

1. Must use Hoosier G-60.
2. No chemical softening of tires. Tires may be grooved, ground or straight siped within confines of tread (not past factory straight line)
3. No bleeders.
4. ALL wheels must be unaltered. May use bead lock on Right Rear only. External bead lock only and it cannot make wheel any narrower than 8 inches and no wider than 8.75 inches. Must use steel bolts.



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5. Foam type or securely bolted plastic outer mud cover allowed on right side wheels. Outer mud cover mounting tabs and rings must be integral to the wheel or bead lock or be securely welded to wheel.
6. Steel lug nuts only. MUST have ALL 5 LUG NUTS on each wheel.
7. Wheel studs may be replaced with larger studs up to 5/8 inches. All Wheels must be 15 inches.

### WEIGHT:

1. Minimum weight 3,200 lbs with driver. All ballast weight added to the car must be mounted in a safe and secure manner. All ballast weight must be painted white and must have car number stamped or painted on each weight. All weight must be mounted with a minimum of two (2) 1/2" grade 8 bolts or two (2) weight mounts.
2. Any ballast weight dropped on the racetrack at any time is an automatic disqualification for the remainder of that race event.

### FUEL SYSTEMS AND RADIATOR:

1. Gasoline Only. No alcohol or boosters of any kind allowed.
2. All fuel lines in the cockpit must be sleeved with steel tubing.
3. Fuel cells are mandatory. Roll over check valves on fuel cell vents required.
4. Radiator must be in stock locations in the stock position. Aluminum is okay.
5. All fuel cell filler caps will have a safety chain connected to the car.

### IMPORTANT NOTE:

#### RULE BOOK DISCLAIMER

The rules and/or set forth herein are designed to provide for the orderly conduct of racing event 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 participates 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 their opinion do not alter the minimum acceptable requirements. NO EXPRESSED 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. Just because it is not in the rules doesn't mean it is legal. **Note: Any part is subject to tech at any time.**