

12/9/23

## 2024 Humboldt Speedway/ 81 Speedway Mini Stock/Tuner Rules

In 2024, drivers will be able to select 1 of 2 rule package options as detailed below.

- Mixing of rules is prohibited.
- Drivers must be 12 years of age or older
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### Safety

1. Helmets are required and must be a minimum of SA2015 OR NEWER with certification label inside helmet
2. Helmets must be worn at all times car is on track
3. SFI approved flame/fire retardant fire suits, gloves and shoes are mandatory
4. An approved head/neck restraint system is mandatory (Hans, G-force, Hutchens or SFI rated neck collar)
5. Nomex underwear is highly recommended
6. Seat belts and shoulder harness cannot be more than three years old
7. The date of manufacture should remain visible at all times
8. A lever-type quick release latch must be fastened to the lap belt
9. All seat belts and shoulder harnesses must connect at the lap belt with a quick-release buckle acceptable to series officials
10. Only custom manufactured racing aluminum seats acceptable to officials
11. All seats should have padded rib protectors
12. All seats are required to have a head rest on the right side
13. All belts must be a minimum of three (3) inches wide
14. Belts must be bolted to the roll cage with no less than 3/8inch bolt
15. A center, crotch belt must be securely mounted to the lower seat frame at the bottom and to the lap seat belt on the top
16. Where the belts pass through the seat edges, it must have a grommet installed, be rolled, and/or padded to prevent cutting of the belt
17. Window nets are mandatory
18. No cell phone, or radio in car or on driver. Except for raceceiver one way listening device set on race director channel.
19. Windshield must have three (3) bars in front of the driver.
20. ROLL CAGE MUST BE 3 INCHES OR MORE ABOVE DRIVERS HEAD with helmet on and strapped in seat.

## Option 1: 2024 Mini Stock Rules

### Frame & Body

1. American passenger car only. No convertibles
2. Front or Rear wheel drive cars.
3. Wheelbase Min 93 Max 103"
4. Steel or Aluminum bodies; 70" max width of body; 4 inch Spoilers
5. Fabricated bodies are expected to resemble late model or modified type race cars
6. Aftermarket polypropylene nose pieces allowed; however must be inside or flush with front tires; 74" max width
7. One (1) loop bar or chain on both ends mandatory for tow hookups
8. No mirrors
9. No tube frames
10. Full OEM frames from center of rearend forward
11. Numbers must be on both doors & top of car. Must be at least 4" thick & 20" high.
12. SAIL PANELS MUST BE SOLID AND EXTEND FROM BACK OF DRIVER SEAT TO WITHIN 2 INCHES FROM SPOILER AND MATCHING ON BOTH SIDES. CAN NOT CONNECT OR TOUCH THE REAR SPOILER.

### Weight

1. 2350lbs minimum with driver after race
2. Any bolt on weight must be securely mounted
3. All bolt on weight must be painted white and have car number on it
4. NO bolt on weight in driver compartment

### Roll Bars

1. Modified 4 point steel cage mandatory
2. 1 ½ diameter; .095 wall with gussets as needed welded to (4) 4x4 plate bolted to floor
3. Bars may pass thru firewall forward and rear
4. 3 door bars inside the driver's door mandatory
5. Galvanized aluminum or exhaust tubing is not permitted
6. Approved padding must be used at any point where driver contact might occur
7. Minimum number of places roll cage may be anchored to car is six (6)
8. APPROVED HIGH DENSITY PADDING MUST BE USED AT ANY POINT WHERE DRIVER CONTACT MAY OCCUR
9. Must have a minimum of one (1) cross bar in top halo of roll cage

## **Fuel Cells**

1. 8 gallon max fuel cell
2. Fuel cells are mandatory
3. Rollover value in fuel cell is mandatory
4. Must be securely strapped with a minimum of two 2"inch thick steel straps

## **Engine**

1. Max 7600 RPM rev limiter chip
  - a. May be accomplished by using 1 non-adjustable 12 volt ignition box with one high end rev limiter setting or an internal setting inside the box
  - b. MSD #8728 rev or MSD #8738 additional rev control box allowed
  - c. Preset Crane #6000-6478 ignition box allowed
  - d. No additional ignition accessories allowed
  - e. No Magnetos or Crank Triggers allowed

1) The first FOUR (4) finishers in the main event must drive their racecars directly to the designated claim area at the conclusion of the main event, and are subject to being claimed by any other driver that finishes fifth or lower. Any of the top four cars that do not go to the claim area will be disqualified but are still subject to being claimed.

2) Claims must be made within FIVE (5) minutes of the completion of that division. A feature to official in the claim area. Claiming driver must be on lead lap of A feature. Driver making a claim must drive immediately after feature, under their own power, directly to claim area. Driver must have the correct amount of cash in hand. Claiming driver is allowed TWO claims per race season.

3) Claim rule will not be in effect on first TWO track point nights. Following second night, no driver may claim unless they competed at least TWO previous weekly track point events. Engine claim rule will not be in effect on season championship night. Exception is: If a driver is claimed at any weekly point event, they may claim at any following event at that track without needing perfect attendance.

4) Should one (or more) of the INITIAL top four finishers be disqualified, ANY DRIVER ADVANCED INTO TOP FOUR is NOT eligible to CLAIM or BE CLAIMED.

5) Only drivers may claim and agree to sell or refuse. In case of multiple claims, drawing will be held to determine outcome. Claim is not charged to drivers not awarded item. If the first eligible driver withdraws the claim, the next eligible driver will be awarded the claim.

6) Once a claim has been made and accepted, the engine should not be started and the car should be pushed to where removal will occur (both cars are to be pushed with exchange claim). Under certain circumstances, the engine may be started at the discretion of officials.

7) All claimed items must be removed at the track, within a reasonable amount of time (at discretion of track officials) and must leave the track under possession of claiming driver. If any driver is caught at the track claiming for another driver, both will be issued the claim refusal penalties in that division.

8) Any sabotage MUST be discovered during engine removal. Drivers are accountable for sabotage and will result in same penalty as engine claim refusal in that division. IF SABOTAGE IS DETERMINED by an official, claim will be disallowed and money returned to claimer. Once the engine is released to the claiming driver, no sabotage penalties will be issued.

9) Must be running same type of car Example Tuner can not claim Mini Stock engine

ENGINE CLAIM: There is a \$500.00 engine claim

1st refusal: Loss money & points and a TWO 2 show suspension

2nd refusal: Loss money & points and a FOUR 4 show suspension

3rd refusal: Loss money & all accumulated points and a ONE 1 year suspension

\*CLAIM DOES NOT INCLUDE: Clutch, pressure plates, bell housing, headers, carb, starter, motor mounts, oil sending units, carb spacer, fan, pulleys, clutch ball, clutch arm, throw out bearing, water pump, fuel pump, distributor, plug wires, breathers.

All components must be out of reach of driver, but accessible for inspection

ALL CARS MUST USE MAX. 7600 RPM REV LIMITER CHIP. THIS MAY BE ACCOMPLISHED USING ONE, NON-ADJUSTABLE, 12 VOLT IGNITION BOX WITH ONE HIGH END REV LIMITER SETTING OR AN INTERNAL SETTING INSIDE BOX. MSD #8728 REV CONTROL

OR MSD #8738 ADDITIONAL REV CONTROL BOX ALLOWED. PRESET CRANE #6000-6478  
IGNITION BOX ALLOWED. NO ADDITIONAL IGNITION ACCESSORIES ALLOWED. ALL  
COMPONENTS MUST BE OUT OF REACH OF DRIVER, BUT ACCESSIBLE FOR  
INSPECTION. NO MAGNETOS OR CRANK TRIGGERS

1. Four (4) cylinder engines only
2. 145 cubic inch limit
3. Any flat tappet camshaft
4. Adjustable cam gear allowed
5. Rotary and/or Turbo engines are not allowed
6. No roller anything may touch the camshaft
7. No Aluminum heads
8. Headers must be pointed down or to the rear
9. Engines must be in original position (No setback)
10. OEM Block
11. 5.7 Max Rod Length
12. 2300 Crank Only
13. No Crankshaft alteration allowed
14. Maximum stroke 3.126
15. Must have 1" inspection plug in oil pan above oil level

#### **Carburetor**

1. Stock Holley 350 ONLY – (checked w/ go-no-go)
2. Stock Intake, no altering allowed
3. One (1) inch maximum spacer
4. Two (2) throttle return springs mandatory mounted to engine

#### **Suspension**

1. OEM stock spindles only
2. Adjustable spring buckets are allowed
3. No extra shocks or coils allowed
4. OEM shocks only allowed

#### **Steering**

1. Quick release style only
2. Steering quickeners are allowed
3. Steering box must remain in stock location

#### **Rearends, Transmission, Clutch, Flywheels**

1. Any stock transmission
2. Stock rear ends: locked rear ends are allowed
3. Flywheel weight must be 20lbs minimum
4. Stock OEM Clutch

### **Fuel**

1. Gas only, no alcohol allowed

### **Wheels, Tires & Brakes**

1. 13, 14, 15 inch in diameter tires only. Max. tire size allowed, any DOT Highway legal 225 series. MUST be available by retail to the public. **No altering of tire**
2. Max 7" wide wheel
3. Beadlock allowed on right rear only
4. Oversized lug nut required for all four (4) wheels
5. **Spacer or offset wheel, or any combination of the two is allowed but cannot exceed two (2) inches of total offset per wheel**
  - a. **Aluminum wheel spacers only allowed**
6. Stock brake systems only
7. Brake adjusters are allowed
8. Absolutely no weight may be added to the wheels in any fashion
9. **No mud or snow tires. No tires that are designed to accept spikes or cleats**
10. **No grooving or sipping of tires.**

## **Option 2: 2024 Tuner Rules**

### **Safety Equipment**

1. Master kill/fuel pump switch required on left side of dash within easy reach of driver
  - a. Must be clearly marked 'OFF' and 'ON'.

### **Body/Chassis**

2. Any front wheel drive, compact car with three or four cylinder engine. All cars must remain strictly OEM. Must be unaltered OEM-appearing body. No station wagons, convertibles or two seat sport cars allowed, no Honda CRX. Wheelbase must be stock for type of car maximum one inch difference from side to side. OEM steel unaltered floor pan only. Inner fenders may not be removed. Hood and trunk lid/hatch must be securely fastened. All doors must be securely welded or bolted. All glass, exterior lights,

chrome/plastic trim and hood insulation must be removed. Dash may be removed, but can remain. Maximum seven inch front and rear sun visors allowed, opera window may be closed. Skirting allowed, must maintain OEM appearance. Car number must be minimum four inches thick and 20 inches tall and clearly visible, on both sides and roof of car; six inches tall on front and rear.

### **Vehicle Identification Number**

3. (V.I.N.): The V.I.N. must remain clearly visible and unaltered in at least two of the OEM locations. Any car missing the V.I.N. will not be allowed to compete.

### **Bumpers/Rub Rails**

4. Bumpers must be approved OEM in OEM location, welded, chained or cabled to frame. Front and rear tow hooks mandatory. OEM bumper covers should remain. May have one horizontal bar - maximum 1.75 inch OD - tying front frame horns together ahead of the radiator. One additional maximum one inch OD bar may be added for radiator protection; must be behind bumper, within the confines of body, no wider than OEM frame horns. Maximum one inch wide by two inch tall steel or lexan rub rails allowed - bolted flush to body. No sharp edges allowed on bumpers, rub rails or bolts. No bars past outside edge of body other than rub rails.

### **Roll Cage**

5. Six-point, full perimeter roll cage required. Must use minimum 1.5 inch O.D. with 0.095 inch wall thickness tubing. Rear hoop must have "X" bracing configuration. Rear kickers required. Recommended: front brace bar from main halo to front cowl. Forward brace bar allowed from main cage to front strut tower. Must have 1.25 inch minimum O.D. cross bar in top halo. Cage must be electric welded and attached using adequate plating (Recommended: minimum 0.250 inch). No iron, galvanized pipe or fittings, square tubing, brazing or soldering allowed.

### **Door Bars**

6. Minimum three horizontal door bars on driver side and two horizontal door bars on passenger side. Both sides must have vertical bracing from top to bottom door bars. All tubing must be minimum 1.5 inch O.D. with 0.095 inch wall thickness. Steel door plates, 18 gauge or 0.049 inch minimum thickness, must be securely welded to outside of door bars on driver side. Plate must cover area from top door bar to frame and from rear down post to five inches in front of seat. Must be visible for inspection.

## **Driver Compartment**

7. Minimum three windshield bars and protective screen mounted in front of the driver. Aluminum high-back racing seat required. Must be securely mounted to roll cage using 0.375 inch bolts. Driver must be sealed off from track, engine, transmission and fuel cell/tank. No mirrors. No gutting allowed except for roll/door bar clearance. All flammable material, radio and air bags must be removed. Front and rear firewalls must remain and have no holes. Interior must remain open.

## **Suspension and Steering**

8. All components and mounts must be unaltered, OEM and match year, make/model of car used. Exception is: Recommended right rear safety hub (for example 1987-1995 Caravan hub assembly). Brace bar allowed between strut towers in front and rear. No other bracing allowed on front end. No weight jacks, modifications, racing components, aftermarket or homemade traction devices allowed. Rear wheels must track straight ahead and be in alignment with front wheels. No more than 2 degrees camber on any wheel. No center steering. Quick release steering wheel is allowed, must maintain OEM column. No aftermarket remote reservoir power steering.

## **Springs/Shocks/Struts**

9. All shocks and struts must remain OEM, in OEM location. No strut boots or covers. OEM springs may be modified. No bump stops allowed. Maximum one 360 degree by 2" tall spring rubber per wheel.

## **Tires and Wheels**

10. OEM DOT 13, 14, 15 or 16 inch diameter unaltered passenger tires only. Minimum 60 series, M, N, P, Q, R, S, T, and H speed rated tires only. No racing, mud or snow tires. No re-caps, softening, conditioning, grinding, sanding, siping or grooving allowed. Must be unaltered OEM steel or aluminum wheels, with standard bead bump and maximum seven inch width. Reinforcing of wheels recommended. Front tires and wheels must be the same series, size and offset (0.50 inch tolerance); rear tires and wheels must be the same series, size and offset; do not have to match front to rear. Tires must be inside of body. No wheel spacers or bleeder valves. Must use one inch O.D. steel lug nuts on steel wheels.

## **Brakes**

11. Must be steel, unaltered, OEM operative, four wheel disc or drum brakes, and match year, make and model of car used. OEM master cylinder only, in OEM location. No brake shut off or bias adjuster. Steel brake lines only.

## **Exhaust**

12. Exhaust can not go into driver compartment.

## **Weight**

13. No ballast (extra weight) of any kind allowed. Any item deemed as ballast will be required to be removed.

## **Battery/Starter**

14. One 12 volt battery only. No lithium batteries. Must be securely mounted with positive terminal covered. Battery must be in Marine type case if mounted in driver compartment. OEM starter only, must be in OEM location. Car must leave initial staging area on demand, unaided, or go to the rear of that race.

## **Gauges/Electronics**

15. No cell phones, unapproved cameras, transmitting or listening devices (exception is one-way Race Receiver radio by officials). 12 volt ignition system only. No ignition boxes. No performance chips. All ignition components must be unaltered, OEM and match year, make and model of car used. Aftermarket analog tach, oil pressure and water temp gauges only. Vehicle computer (ECU) should be mounted in an accessible location for inspection.

## **Fuel System**

16. Must have complete, unaltered, OEM fuel system for year, make and model of car used. Gasoline only, maximum 93 octane. No E85. No performance additives. Gas tank ahead of rear axle allowed but must install shield under it. Gas tank behind rear axle must be replaced with maximum eight gallon racing fuel cell and relocated to trunk area. Must mount with minimum one inch square tubing or two solid steel straps around entire cell, two inches wide and 0.125 inch thick. Metal firewall or cell cover must be between driver and cell. Fuel cell vent, including cap vent, must have check valve. If racing fuel cell does not have aircraft style positive seal filler neck/cap system - a flapper, spring or ball type filler rollover valve is required. External electric fuel pump wired to the ignition switch allowed with aftermarket fuel cell. No cool cans. Fuel lines through driver compartment must be steel. Aftermarket fresh air pipe and air filter allowed, but no ram air.

## **Transmission**

17. Must use OEM, unaltered transmission that came in year, make and model of car used. All forward and reverse gears must be operational. Flywheel, flexplate, clutch assembly and torque converter must be unaltered, OEM for year, make and model of car used. Must have inspection hole in bell housing (accessible from top). No transmission coolers in driver compartment. No mini clutches, couplers, torque dividing final drives, locked differentials or CVT transmissions.

### **Engine Compartment**

18. Engine and radiator must be OEM, in OEM location for year, make and model of car used. May use solid engine mounts or safety chains. No accumulators/accusumps.

### **Engine**

19. 3 or 4 cylinder in-line engines only. Recommended: double overhead cam. All engine components must be unaltered OEM for year, make and model of car used, must match V.I.N. Must use OEM crank, rods, valve sizes, stroke, etc. No aftermarket racing heads. No high performance or sports car engines of any kind. No turbo charged, super charged, rotary engines, or engines utilizing variable cam-timing. No unapproved alterations allowed to any engine; disqualification and \$250 fine if illegal.

Disclaimer: 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 EXPRESSED OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM PUBLICATIONS 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 reasonable and appropriate deviation 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.

