

## **2020 81 Speedway Street Stock Rules**

### **Frames**

1. Factory production complete full parallel American passenger car frames only
2. No weight penalty on stock stub
  - a. fabricated frame must add 150 lbs in front of motor plate.
3. Must be full and complete on both sides
4. No part of the frame may be lower than four (4") inches from the ground except front cross member
5. 106" minimum wheelbase.
6. Top tubular A-Arms are allowed
7. Unibody frames may be tied together from front firewall to rear pickup
8. Kickups from rear end to rear bumper optional
9. All cars must have a front & rear hook-up devices such as a loop to assist wreckers
10. No mirrors

### **Roll Cages**

1. Car builders and driver/owners are responsible for roll bar installation
2. Round steel tubing, seamless roll-over bars are required for the basic roll cage.
  - a. Acceptable minimum size tubing is as follows: one and three-quarters ( $1\frac{3}{4}$ ) inches by 0.090 of an inch or one and one-half ( $1\frac{1}{2}$ ) inches by 0.095 of an inch for mild steel and DOM tubing - one and three-quarters ( $1\frac{3}{4}$ ) inches by 0.083 of an inch for chrome-moly tubing). Aluminum and/or other soft metals are not allowed. Roll bar connections must be properly welded. Roll bar installation and workmanship must be acceptable to track officials.
3. Low carbon, mild steel tubing is recommended.
4. Must be frame-mounted in at least six places.
5. Must consist of a configuration of front and rear hoops connected by tubing on the sides or side hoops.
6. Roll cage must be 3 inches or more above the drivers head with helmet on and strapped in seat.
7. Must have a minimum of one cross bar in top halo of roll cage.
8. Roll cage must be securely supported and braced.
9. Must have a bar across the back of engine with vertical bars and rub rails, or similar protection.
10. No brace bars forward of cage may be higher than stock hood height.
11. Main cage no further forward than engine plate.

## **Door Bars**

1. A minimum of three driver side door bars, at least 1.5-inch O.D., must be as parallel with the ground as possible and located perpendicular to the driver so as to provide maximum protection for driver, but without causing undue difficulty in getting into or out of vehicle.
2. The side bars must be welded to the front and rear of the roll cage members
3. Must have at least one cross door bar, minimum 1.25-inch O.D. on the passenger side of the car, either horizontal or angled.
4. A minimum of 18 gauge steel door plates welded from 'A' post to 'B' post top to bottom of the door bars will be required.

## **Body**

1. Bodies are expected to resemble late model type racecars.
2. Fiberglass roofs and hoods are allowed.
3. Steel or aluminum bodies.
4. Rear Quarter Panels cannot extend in or out of doors.
5. Aftermarket nose pieces are allowed.
  - a. May not extend outside of the tires (82" max).
6. Floor pan thickness must be 1/8" metal minimum.
7. 6.5" rear spoiler max, spoiler supports may not extend above or beyond spoiler.
8. Max of 4 supports may be used
9. Must have a minimum of 3 bars in front of driver-screen is optional
10. Sail panels must be of matching design with matching styles on both sides of racecar.
  - a. Sail panels may have a maximum bow of four (4) inches top to bottom, maximum bow of three (3) inches front to back and may be no more than eight (8) inches above the back edge of deck.
  - b. Must be solid, no open sail panels allowed.

## **Safety**

1. Helmets are required and must be a minimum of SA 2015
2. with certification label inside helmet
3. Helmets must be worn at all times car is on track
4. SFI approved flame/fire retardant fire suits, gloves and shoes are mandatory

5. An approved head/neck restraint system is mandatory (Hans, G-force, Hutchens or SFI rated neck collar)
6. Nomex underwear is highly recommended
7. Seat belts and shoulder harness cannot be more than three years old
8. The date of manufacture should remain visible at all times
9. A lever-type quick release latch must be fastened to the lap belt
10. All seat belts and shoulder harnesses must connect at the lap belt with a quick-release buckle acceptable to series officials
11. Only custom manufactured racing aluminum seats acceptable to officials
12. All seats should have padded rib protectors
13. All seats are required to have a head rest on the right side
14. All belts must be a minimum of two (2) inches wide
15. Belts must be bolted to the roll cage with no less than 3/8 inch bolt
16. 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
17. 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
18. Window nets are mandatory
19. Windshield must have three (3) bars in front of the driver.
20. No cell phones, or radios in car except for Raceceiver one way listening device set to

### **Gauges/Electronics**

1. All cars must use a max 7800 RPM rev limiter chip.
  - a. This may be accomplished by using one, non-adjustable 12 volt ignition box with one high end rev limiter setting or an internal setting inside the box.
  - b. MSD #8728 or MSD #8738 rev control boxes are allowed.
  - c. Preset Crane #6000-6478 ignition box allowed.
  - d. No additional ignition accessories are allowed.
  - e. All components must be out of driver reach, but accessible for inspection.
  - f. No magnetos or crank triggers are allowed.
2. No transmitting or listening devices in car
3. No electronic monitoring computer devices capable of storing or transmitting information except tachometers allowed on car
4. Digital tachs allowed
5. One 12volt ignition box allowed; must be located outside of cockpit in front of driver
6. No additional ignition accessories allowed
7. No timing retard controls allowed

8. No traction control devices
9. Any car suspected of running a traction control device due to unusual handling characteristics can be pulled out of competition and not allowed to race
10. No bundling of wires, all wires must be open and visible

### **Fuel accessories & Fuel**

1. Fuel cells mandatory
2. Must have screw of lock type cap
3. Must be set in steel box with minimum 2 inch steel straps
4. Manual pumps only
5. No belt driven or electric fuel pumps
6. Racing gas or Alcohol only
7. No nitrous oxide
8. No pressure fuel systems
9. If fuel cell does not have aircraft style positive seal filler neck/cap system, a flapper, spring or ball type rollover valve is required.

### **Engine Option 1**

1. Max 410 cubic inch allowed.
2. No aluminum blocks or heads allowed.
3. No angle milling allowed.
4. Roller cams allowed.
5. Port and Polish allowed.
6. No magnetos allowed.
7. 23 degree heads only.
8. No dry sump systems allowed.
9. No titanium engine parts allowed, except valve retainers.
10. Steel rods only.
11. Headers with collectors pointed down or rear mandatory.
12. One 2 barrel or one 4 barrel carburetor; 2 throttle return springs are mandatory.
13. Self starters only mounted in stock location.
14. Engines may be no further rearward than 4 inches from the #1 spark plug hole aligning with the centerline or the upper ball joint.

### **Engine Option 2 LS engines**

1. 383 Ci max
2. Stock Steel block – must have GM cast number 4.8/5.3 to be inspected on left front of engine
3. Stock piston only – must be DISH or FLAT, no dome pistons.

4. Any Stock Iron Cathedral port head. Stock Aluminum Heads allowed. Part numbers 706, 862, 317, 035 only – NO 243, 799 or aftermarket heads!  
Port/Polish ok
5. Car must display what engine package it is running with “LS” or “SBC” or “SBF” on the A pillar
6. Valvetrain: Hyd roller cam only, stock rocker arms only, Beehive valve springs only
7. Ignition MSD 6010,6012,6014
8. 7800 RPM
9. Fuel: Gas or Alcohol
10. Carbureted only – no fuel injection. Belt driven or mechanical pump ok. No electric fuel pumps!
11. Ignition: Flat timing curve from 2500-7800 mandatory
12. Engine must be a minimum of 82” from back of block to center of rear end.

### **Battery**

1. Must be securely mounted and covered
2. Must be fully enclosed if in cockpit

### **Transmission & Driveshaft**

1. Any manual four speed or standard three speed with full gears including reverse.
2. Automatic is ok with stock appearing torque converter and in working condition.
3. Any racing type transmissions are allowed.
4. Driveshaft must be steel and painted white.
5. Minimum driveshaft diameter is 2 inches.
6. At least one driveshaft hoop made of at least 1/4”x 2” steel and securely mounted to frame, cross member or floor pan.
7. No ball splines allowed.

### **Flywheel & Clutch**

1. Pressure plates optional
2. No buttons
3. Multi-disc clutch are allowed
4. Must have steel scatter shield

### **Differentials**

1. Any passenger or half ton pickup rear end is allowed

2. Floater rear ends are allowed
3. No quick change rear ends allowed

## **Brakes**

1. Four wheel brakes in working condition at all times
2. Adjustable brakes are allowed
3. No scalloped rotors allowed
4. No aluminum or titanium calipers
5. No aluminum or titanium rotors
6. Brake pads, rotors and calipers must be the same side to side

## **Wheels & Tires**

1. Steel wheels only
2. Beadlocks allowed on right side only
3. No bleeder valves allowed
4. 10 inch wheel max
5. Hoosier 500
6. Absolutely no weight may be added to the wheels in any fashion.
7. No softening or conditioning of tires allowed
8. Wheel covers are permitted on right side wheels only (5 fastener types recommended).
  - a. Inner mud plugs are permitted.
  - b. All mud covers must display car number on at least one side
  - c. Spacer or offset wheel, or any combination of the two are allowed but cannot exceed two (2) inches of total of total offset per wheel.
    - i. Aluminum wheel spacers only allowed.

## **Suspension**

1. 2 or 3 link suspension allowed
2. Stock 4 links allowed in stock location with stock mounts and stock pan hard bar
3. Shocks do not have to be in stock location
4. Rear suspension must retain stock trailing arms in stock location and length
5. Weight jacks are allowed
6. One (1) extra shock and One (1) extra coil allowed on rear suspension
7. Must be leaf or coil spring, cannot be both
8. All suspension parts must be visible on both ends
9. No torque arms allowed
10. All rear control arms & panhard bars must be straight. No J-Bars allowed.  
Panhard bar Min. 26" center hole to the center hole. Must be behind rear end.

11. No sliders allowed
12. Pull bar or solid straight bars only

### **Steering**

1. Quick release style.
2. Steering box location optional.
3. Rack and pinion allowed.

### **Shocks & Springs**

1. One steel non-adjustable shock per wheel.
  - a. No threaded body shocks.
2. No coil-overs, air or remote reservoir shocks.
3. Steel leaf springs only allowed.
4. One coil and/or leaf spring per wheel only.
5. No schrader valves allowed
6. No external or internal bumpers or stops allowed.
7. One steel, non progressive, closed end spring per wheel only allowed.
  - a. All coil springs must be minimum 4.5 OD.
  - b. Front coil springs must be 9.5" free height with 0.5" tolerance.
  - c. Rear coil must be 11"-16" free height with 0.5" tolerance.

### **Weight**

1. Engine Option 1: 2600 lbs
2. Engine Option 2: 2750 lbs
3. All bolt on weight must be securely mounted and painted white with car number on it
4. No bolt on weight inside driver's compartment

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