



## 2024 Sport Compact Rules

Updated: 02-02-2024



**Anything noted in red is for the modified class.**

## **COMPETING MODELS**

Open to any 1980-2004 American or Foreign 2-4 door hardtop front wheel drive model cars.

## **BODIES**

All cars must maintain stock OEM bodies for year, make, and model. No carbon fiber or Kevlar parts. Cars equipped with a sun/moon roof must have glass and mechanism removed and replaced with a solid single piece of minimum 18-gauge metal held in place with a minimum (8) rivets, screws, or bolts. A minimum of (2) pins per hood and deck lid. Hood and deck lid latches may be removed. Hood and deck lid hinges may be used. Full stock steel floorboards and firewalls required in stock location. A rear spoiler may be used.

**BUMPERS, HEADLIGHTS, AND TAILLIGHTS** Stock front and rear bumpers are required. All bumper covers must be complete and neat appearing. Headlights, marker lights, and taillights must be removed. **For modified class aftermarket bumper cover allowed.**

## **WINDSHIELDS, WINDOWS, WINDOW NETS, AND MIRRORS**

A windshield is mandatory. The windshield must be replaced with a one-piece sheet of Lexan minimum 1/8" thickness or a steel mesh screen is acceptable. All other windows must be removed. All cars must have a minimum of two supports between the dash board and inner structure of roof behind Lexan or mesh screen.

Window nets with a quick release latch are mandatory and securely fastened to the chassis, no rivets or zip ties. A rear-view mirror is mandatory. A driver's side mirror may be used but cannot extend past the body.

## **DOORS, FENDERS, AND QUARTER PANELS**

Steel doors only. Doors must be welded or bolted shut with a minimum of (2) 3/8" bolts and a 1" by 6" steel strap. Stock steel fenders and quarter panels only.

## **FRAMES AND ROLL CAGE**

A roll cage built to the following guidelines is mandatory: Constructed of magnetic steel with a minimum outside diameter of 1 1/2" and a minimum thickness of .090. All welds must be of good quality. Bolted cages kits may be used with the approval of Orange Show Speedway officials. Cages must have 3- door bars on each side and must be welded to the main cage. Door bars can be straight. The door bars

must be connected to the main cage with an A-post bar on both sides. The main cage hoop must be welded or bolted to the car using 2"x2" by 4" 3/16" thick angle steel, if bolted a minimum of (4) 3/8" grade 8 bolts must be used.

A horizontal cross bar must be welded to the main cage both at the dash and behind the seat. Door bars must be covered with a minimum 1/8" steel plate, it must be welded and cover the door bars from top to bottom and extend the entire width of the door bars. Stock frames for year, make, and model only. No modifications to the frame. Strut tower bars or any bars to stiffen frame allowed, subject to judgment by Orange Show Speedway officials.

### **WEIGHT, WIDTH, AND WHEELBASE**

Minimum weight is one pound per cc without a driver. Left and right weight percentage must be balanced within 1%. Minimum wheelbase is 90" and maximum is 107". Cars must remain factory produced in regards to wheelbase. Added weight must be securely mounted using (2) 1/2" grade 8 bolts. Weight must be attached to the floor pan with an 1/8" thick strap between the nut or bolt head and floor pan. All added weight must be painted white with a car number on it. Weight cannot be mounted further back than the rear axle and no further forward than the firewall.

### **ENGINE**

The engine must be completely stock for the make and model of the car. All engines must be mass-produced for the US market. No special performance options will be allowed. 4-cylinder naturally aspirated engines with a maximum displacement of 2.5 liters (2500cc). No turbo-chargers or supercharger allowed. Engines may be rebuilt or repaired to manufacturers and industry standards approved by Orange Show Speedway Officials. Other than parts used to rebuild or repair an engine to the approved standards, no aftermarket parts are allowed in or on the engine.

Parts and components used for an approved repair or rebuild to the engine must be of the same design and characteristics as the part(s) that are being replaced. Stock fuel injection or carburetor for make and model car only. Stock head only. A stock head will be characterized as a cylinder head which was offered as standard equipment with no performance advantage and stock for make and model. Stock blocks only with no modifications. Stock type timing chain or belt only.

The cam(s) must remain stock. Stock unmodified OEM intake manifold only. Exhaust manifold or header must be approved by Orange Show Speedway Officials. Paper or gauze air filter/air filter elements are allowed. A washable air filter element ok. Aftermarket air tubes that relocate the air filter and housing inside the engine compartment are allowed but must be approved by Orange Show Speedway Officials. The engine must be located in the stock location. All engine mounts must be securely bolted.

## **ENGINE COOLING SYSTEM**

A one (1) quart minimum water overflow catch can unit required. Must be mounted in the engine compartment. No antifreeze, coolant or similar products. Radiator must be in the stock location. Mechanical or electric fans are approved.

## **ELECTRICAL SYSTEM**

Stock ignition only. Stock ECU, ECM and PCM for a year, make and model only. No performance aftermarket ECU/ECM, PCM distributors, ignition components (except spark plugs and plug wires). All cars should be equipped with a master electrical switch located in the cockpit of the car. The switch must be clearly marked "OFF" and within reach of the driver and safety crew from the left or right side of the car.

The switch must shut off the car. Batteries must be securely mounted in the car in a sealed battery box. Except for those that are original equipment of the car being used, the use of data loggers capable of storing information, timing retard controls, GPS devices, torque control or electronic traction control devices will not be allowed.

## **EXHAUST SYSTEMS**

Any Stock OEM exhaust system allowed. The muffler and catalytic converter may be removed. The exhaust must exit behind the driver. Cars must not exceed 90db @100 feet. 4 into 1 exhaust is allowed.

## **DRIVE TRAIN**

Stock manual or automatic transmission and transmission components (clutch, flywheel, pressure plate, etc.) for make and model being used. No modifications to the transmission or its components. All gears must be operable including reverse. No mechanical limited slip differentials. No traction aid devices.

**No welded differential. One front wheel must be able to rotate with the other front wheel or the ground.**

## **SUSPENSION**

The only modifications allowed to the suspension are those detailed below. All other suspension components must remain as design and unaltered from the original for the make and model of car being used. No widening of the suspension. Any OEM type steel non-adjustable, non-rebuildable, factory sealed (welded) shock or strut that fits the stock mounts in the stock location may be used.

Strut and shock ends must be OEM original. Stock type springs for make. All springs must be approved by Orange Show Speedway before being used in

competition. The spring location and mounting may not be altered in any way. No adjustable spring mounts. The maximum camber adjustment allowed front or rear is 3 degrees with the driver in the car.

Any camber allowed. Camber max adjusted with the use of offset Ball Joints, camber bolts or camber plates.

## **BRAKES**

With the exception of the brake pads and fluid, all other brake system components must remain stock for make and model cars being used. The brake pads may be replaced with high-performing pads.

## **STEERING COMPONENTS**

Stock steel OEM for make and model steering components only.

## **FUEL AND FUEL SYSTEM**

Pump fuel only. No additives, octane boost or blending of fuels. The only oxygenates present in the fuel cannot exceed the amount common to pump gas. The gas tank must remain in the stock location.

## **WHEELS AND TIRES**

Steel or aluminum wheels only. The maximum wheel width is 7-inches. The maximum wheel diameter is 17-inches. Wheels may be any off-set but the offset must match for all four wheels. All tires used in competition must be submitted to Orange Show Speedway Officials for approval.

The lowest treadwear rating for an approved tire is 200. The treadwear rating must be clearly visible on the sidewall of the tire. No tire bleeders allowed. The maximum purchase price for any single tire used in competition is \$135 The maximum tread width of a single tire is 7.5-inches. Orange Show Speedway reserves the right to mandate a track tire that must be used by all competitors. 4 tires may be purchased on opening night, with 2 tires available at each race thereafter.

## **SAFETY EQUIPMENT**

For all safety equipment, it is the responsibility of the driver, to ensure that all safety equipment is correctly installed, maintained, and properly used. The safety equipment manufacturer 's installation and use guidelines must be used at all times to ensure the proper use and maintenance of all safety equipment.

## **SAFETY HARNESS SYSTEMS**

A minimum five-point safety harness, manufactured to the SFI standard is mandatory. All belts shall be attached using minimum 3/8 grade 8 hardware or the mounting hardware supplied by the seat belt manufacturer. Wrap around shoulder belts ok. Must be mounted per manufacturer guidelines. Shoulder belts must remain stationary on the bar and not move allowing the belts to slip off of the driver's shoulders. Safety harnesses/seat belts must not show wear. Torn or frayed belts must be replaced.

## **HELMET/HEAD AND NECK RESTRAINT**

A helmet meeting the Snell SA2010 or SA2015 standard is required. An SFI approved head and neck restraint device is recommended.

## **FIRE SUIT AND FIRE-RESISTANT CLOTHING**

A fire suit meeting the SFI 3.2/A1 standard at a minimum is mandatory at all times. Gloves are mandatory. Approved racing gloves, racing shoes and fire-resistant undergarments are recommended.

## **FIRE EXTINGUISHER**

A fire extinguisher installed in the car within driver's reach is recommended.  
Steel mounts only

## **APPEARANCE AND IDENTIFICATION**

A number with a minimum of height of 18-inches on the roof and both sides of the car must be used. Side numbers may be located anywhere rearward of the front fender. All numbers must be of a contrasting color of the car. Roof numbers face toward right side of the car. Numbers are assigned by Irwindale Speedway. Numbers may be one to three digits. Double and three-digit numbers must not overlap.

No duplication of numbers, additional letters such as "Y" and "N" are not to be used. The letter "X" shall be deemed to represent the number 10.

Advertising or names on the windshield is not permitted except those that are an approved sponsor of the Orange Show Speedway Enduro Division. Advertising, logos or slogans that are deemed by Orange Show Speedway to be unsuitable or offensive, will not be allowed.

## **COMMUNICATION**

All cars must be equipped with a one-way radio monitoring the Orange Show Speedway race control frequency. All drivers must be able to monitor all communications from race control at all times while their car is on the track during an event.

All rules are subject to change at any time if deemed necessary to ensure even competition within the division.

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