# Stateline Speedway - Roadrunner - Rulebook 2023

## Roadrunner

**This is a beginner, entry level class for learning and fun. No tolerance will be given to those who do not compete to the spirit of this class. Any 4-cylinder passenger car that came from the factory with seating capacity for at least four persons and a maximum of 104 inch wheelbase may be used. No all wheel drives.**

**BODY:**

**Remove the carpet headliner, door panels, and all mirrors, except outside driver side mirrors and all seats except driver's seat. Remove head and tail light glass and all window glass except windshield. The factory dash is optional. If the dash is removed, it must be replaced with an aftermarket dash. Aftermarket nose is okay. All floor pans MUST be intact. Can cut out trunk for fuel cell. MUST have a sealed firewall front and rear. Stock radiator core support must be in place. Fuel cell must be in trunk and have a 20 gauge steel cover. Battery must be behind the driver in a sealed box. Windshield can be lexan or glass. All other glass must be removed.**

***There must be an open space at the top of the windshield for the class sponsor.**

**ROLLCAGE:**

**Roll cages are recommended. Uncaged cars MUST have outside door bar. Install a minimum of six and three-eighths inch (6" x ⅜") steel plate (no grader blade) located in the center of the driver's door (horizontal) to extend a minimum of twelve inches (12") in the front and rear. Round off the outer corners. Bar to be bolted with a minimum of a half inch (1/2") stove bolts with a six inch (6") square backing plate, minimum four (4) bolts. Upright pipe of at least two inch (2") O.D. between the floor and roof behind the driver. Both ends of upright must be at least 6" x 6" x ¼". Minimum of four (4) half inch (1/2") bolts on each end. A minimum of two inch (2") O.D. pipe crossbar must run from the door bar to the opposite of the car, this pipe must be attached to both the upright and the door bar. Front hoop okay, but must keep all stock panels in place.**

**ENGINE HEAD:**

**MUST be stock OEM casting with stock valve size. MUST match block. Can be milled, cast-iron .080 aluminum .040 MAX. NO porting. NO polishing. NO deburring. NO adjustable timing gear. NO aluminum timing gear. NO head studs.**

**CAM:**

**CAM .510 lift max. Style per make and model. NO rollers**

**LIFTER:**

**Hydraulic lifter per make. Solid lifter per make. Hydraulic lifters MUST de-pump full stroke. NO relocating cam dowel. NO rollers**

**BLOCKS:**

**MUST be stock OEM. NO aluminum aftermarket. No V6 and NO S2000.**

**INTAKE MANIFOLD:**

**MUST be stock OEM. NO porting. NO polishing. NO deburring.**

**EXHAUST MANIFOLD:**

**MUST be stock OEM. NO greater than one and three quarter inch (1 ¾ ") exit. NO porting. NO polishing. NO deburring. Cast Iron Only! NO STOCK HEADER**

**EXHAUST MUFFLER:**

**Pipe no greater than two and one quarter inch (2 ¼ “) and MUST have a muffler. MUST pass 95db reading. Exhaust MUST exit under the car.**

**ROTATING:**

**Rods stock OEM rods. Aftermarket pistons ok. Stock OEM crank per engine.**

**OIL SYSTEM:**

**Stock OEM oil system.**

**RADIATOR:**

**MUST be in stock location and can be aluminum. Must be in stock core support.**

**CARBURETOR:**

**MUST be stock Autolite, Motorcraft, Holley 350/500 with choke horn and with part number in place. Fuel injection ok. NO RACING CARBURETORS- VDL, DORTON, WILLY, ETC. NO SCREW IN AIR BLEED. MUST BE TOOL LEGAL.**

**CARBURETOR SPACER:**

**Adapter to Holley ok. NO CNC machined or custom machined spacer, one and one half inch (1 ½”) MAX.**

**AIR FILTER:**

**Can be aftermarket. MUST fit under the hood.**

**CLUTCH:**

**MUST be stock OEM cast iron. One (1) stock disc. Stock steel pressure plate. NO racing clutches. NO escort flywheels.**

**TRANSMISSION:**

**MUST be stock OEM.**

**REAR END:**

**MUST be stock OEM per model. NO lockers. NO welded. NO posi traction. NO locked trans-axles.**

**DRIVELINE:**

**MUST be stock steal. MUST have loop twelve inches (12”) back from transmission.**

**BRAKES:**

**Must have stock OEM brakes and all four (4) must work. NO brake bias adjuster. NO aluminum calipers.**

**WEIGHT:**

**Single overhead cam; 2 valves per cylinder 2100cc or less**

**Weight: 2300 min**
**Left: 54% max**
**Rear: 44% max**

**Single overhead cam; 2 valves per cylinder 2150cc or more**

**Weight: 2400 min**
**Left: 54% max**
**Rear: 44% max**

**WEIGHT Cont:**

**Single overhead cam; MORE than two (2) valves per cylinder**

**Weight: 2500 min**
**Left: 54% max**
**Rear: 44% max**

**Dual overhead cam; front wheel drive.**

**Fuel Injection okay with stock injectors and 180cc max.**
**Weight: 2600 min**
**Left: 54% max**
**Rear: 44% max**

**Single overhead cam; UNDER 1800cc front wheel drive**

**Weight: 2100 min**
**Left: 54% max**
**Rear: 44% max**

**Single overhead cam; OVER 1800cc up to 2000cc front wheel drive**

**Weight: 2300 min**
**Left: 54% max**
**Rear: 44% max**

**SHOCKS:**

**MUST be stock OEM per make and model. NO air shocks. NO adjustable. Shock tower; NO adjustable plates**

**RIDE HEIGHT:**

**Five inch (5") minimum**

**SWAY BAR:**

**All Thread OK. Must have stock pivot points with stock hardwear**

**A-ARM:**

**MUST be stock OEM.**

**TRAILING ARM:**

**MUST be stock OEM with stock mounting points.**

**CAMBER:**

**MUST be no more than one and one quarter inch (1 ¼") measured from top of wheel.**

**WEIGHT JACK:**

**NO weight jacks. Adjustable spring cups ok.**

**IGNITION:**

**MUST be stock OEM per make and model. NO aftermarket, no crank triggers. NO electronic tuning.**

**FUEL TANK:**

**Fuel cell recommended. MUST be located in trunk and sealed off from driver. MUST be covered in twenty (20) gauge steel. Fuel line MUST be in conduit if located in driver's compartment. NO "G" cans. NO plastic.**

**FUEL PUMP:**

**Mechanical or electric ok. If electric, it MUST be located in trunk.**

**WHEELS:**

**Steel wheels only. Seven inch (7”) wide maximum.**
**Racing wheels recommended. NO aluminum. NO spacers.**

**TIRES:**

**MUST be a 400 tread-wear or greater. MUST be no wider than 185/60. MUST be DOT approved. NO recaps. NO racing tires. NO softening.**

**SAFETY:**

**MUST have race padding on all bars that your hands and head can reach. MUST have a window net. MUST have three inch (3”) wide shoulder belt. ALL belts must be five (5) years or newer. MUST have two inch (2”) sub belt. MUST have fire extinguisher. MUST have master electrical shut off behind driver's seat. Helmet MUST be SNELL SA 2005 or newer; NO motorcycle helmets. Head and neck restraint recommended. Driver’s suit must be clean with no visible holes. Racing gloves must be worn at all times. Holes around shifter must be covered. Seats must be aluminum. 2" belt okay with HANS or youth.**

**TRANSPONDER:**

**Location: Right rear frame rail; fifteen inches (15”) behind center of rear-end**

**CAR NUMBERS:**

**Doors: Twenty inch (20”) MINIMUM Roof: Twenty six inch (26”) MINIMUM**

**If it does not say you can, you cannot.**

**Please build to the rules, not around them.**

**These rules can be adjusted at any time to even competition.**