

## 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. NO trimming of body panels allowed without tech official approval. NO gutting the hood, trunk, roof, and doors. Doors okay if cage is protruding out. After-market nose is okay. All floor pans MUST be intact. All inner panels 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 driver in a sealed box. Windshield can be lexan or glass. All other glass must be removed. Wheels must remain inside body panels. **There must be an open space at the top of the windshield for the class sponsor.**

### ROLLCAGE:

Roll cages are recommended. Un caged cars MUST have outside door bar. Install a minimum of 6" x 3/4" steel plate (no grader blade) located in the center of the driver's door (horizontal) to extend a minimum of twelve inch (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 floor and roof behind driver. Both ends of upright must be at least 6" x 6" x 3/4". 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.

### LIFTER:

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

### BLOCKS:

MUST be stock OEM. NO aluminum after-market. No v6 and no S2000.

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INTAKE MANIFOLD:

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

EXHAUST MANIFOLD:

MUST be stock OEM. NO greater than one three quarter inch (1 3/4") exit. NO porting. NO polishing. NO deburring. Cast Iron Only!

EXHAUST MUFFLER:

Pipe no greater than two 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. After-market 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 okay.

CARBURETOR SPACER:

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

AIR FILTER:

Can be after-market. MUST fit under 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:

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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.

**WEIGHT:**

Single overhead cam; 2 valves per cylinder

Weight 2400 min

Left 54% max

Rear 44% max

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.

**RIDE HEIGHT:**

Five inch (5") minimum; lowest part of car.

**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.

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**WEIGHT JACK:**

NO weight jacks. Adjustable spring cups ok.

**IGNITION:**

MUST be stock OEM per make and model. NO after-market, 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. (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, And 60-75 height. 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 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 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

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

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