

SUNSET SPEEDWAY 2006

4 CYLINDER ROAD RUNNER RULES

The Road Runner division is for the individual participating in the sport of car racing for a hobby. The rules and restrictions are designed to prevent the costs from getting out of hand, giving each individual a fair and competitive chance in this division. The enjoyment of winning and feeling of accomplishment is just as exciting as in the faster, more complex divisions.

THE INTERPRETATION OF THESE RULES WILL BE SOLELY THE JUDGMENT OF THE TRACK OFFICIALS/TECH STAFF

Any cars being teched will be allowed to have only one driver and two mechanics present in the tech area - no one else will be allowed. Any harassment from any driver and/or crew member to the tech staff (or any other track official) may result in an automatic disqualification, thus forfeiting all points earned that night and all money earned at that race meet. The next finishing position will be then moved forward into the disqualified position.

Abiding by the following set of rules will enable everyone concerned to make the upcoming racing season at Sunset Speedway a more enjoyable event for all those involved.

REMEMBER STOCK MEANS STOCK, NO EXCEPTIONS.

TECHNICAL SPECIFICATIONS

The word stock when used herein, shall mean unaltered, as factory available and produced by the O.E.M. (Original Equipment Manufacturer) for the make, model and year of the car being raced. That excludes all aftermarket "High Performance" parts, and all decisions and ruling shall be based on data obtained from the Canadian Service Data Book and other O.E.M. Specification Books.

The *ROAD RUNNER* division is open to any 1996 & older approved 4 cylinder automobile having a factor listed wheelbase of no more than 104" and engine no larger than 2500cc. Cars may be front or rear wheel drive.

Not allowed: convertibles, four wheel drives or trucks.

Porsche, BMW, Audi, Saab
turbo or supercharged engines
twin overhead camshafts.
VVT or variable valve timing
rotary engines.
no mid or rear engine cars.

BODY AND APPEARANCE

Body must be stock in appearance to the original vehicle, with no chopping, channelling or sectioning allowed. Body must be complete with all doors, fenders, quarter panels, hood, trunk and roof as well as both bumpers. All chrome mouldings, door handles, nameplates and lights must be removed. All doors must be welded or bolted shut to the satisfaction of the tech inspector. No open roofs. If open sunroof, it must be covered with minimum 20 gauge steel. Original wheel arches may have minimal trimming. Inner splash aprons in the front fenders may be removed. Trunk floor and inner wheel arches on rear fenders and quarter panels must be retained.

Absolutely no bars shall extend outside of body panel including the grille and bumper, with the exception of side scrub rails. Scrub rails cannot extend any further forward than the rear of the front wheel opening, and no further rearward than the front of the rear wheel opening. (No sharp edges)
Maximum 1 "x 2" welded or bolted to the roll cage. If bolting on scrub rails, use carriage bolts (chrome bumper type, rounded heads), or if using hex head bolts, recess them to the inner face of the scrub rail.

Stock body mounts may be removed.

Cars must not be excessively rusted and must be presentable in appearance. The tech committee will reject cars that are considered unsafe or improperly prepared.

BATTERY

Battery must be securely mounted in front of the firewall OR in a sealed

container behind the driver - NOT in the fuel area.

BUMPERS

Bumpers must be stock for the make, model and year being run. Reinforcing behind the bumpers allowed. Maximum 1 3/4" outside diameter with maximum .095" wall thickness (roll cage tubing) or equivalent. Bumpers must be mounted in stock position with no sharp edges exposed. No cut-offs. Bumper shocks may be welded. Chrome steel type bumpers must be welded and chained, to prevent bumpers from falling off onto the race surface and creating a hazardous condition during a race meet. All cars must be equipped with chains, front and rear, strong enough to be lifted by a tow truck for towing purposes.

BRAKES

Stock four wheel brakes in good working order are compulsory. OEM rear disc brakes allowed.

INTERIOR

All upholstery materials and trim and padding must be removed. The front and rear firewalls must have all holes and openings filled with sheet metal. NO SHEET METAL SCREWS TO BE USED. Pop rivets or welding / brazing only. All inner metal doors and quarter panel bracing must be retained unless full roll cage door bars are used. Any holes in the floor pan must be filled. Original floor pan and firewalls must be retained. No fuel or brake lines or fuel filters permitted in the driver's compartment. Right side floor may be raised a max. of 10" to accommodate exhaust.

All windows and glass except for the front windshield must be removed. No screens or half windshields. Windshield may be lexan or safety glass with a minimum of 4 safety clips (No plexiglass allowed). When using lexan 2 windshield center braces are mandatory. Only factory tinted windshield glass permitted. No obstruction of driver's view on the front or rear windshield area except for the top 4" of the front windshield for a sponsor decal. Front and/or rear windshield braces must be on the interior side of the vehicle. Stock interior mirror is permitted, stock location, maximum size 3" x 10".

ROLL CAGE - MANDATORY

- a. Cage must be minimum 1 3/4" outside diameter with minimum .095" wall

thickness.

- b. Base of uprights must be electric welded to frame of car.
- c. Unibody will be welded to a steel 8"x 8" of 3/16" minimum plate which is formed and bolted or welded to floor pan.
- d. In a Unibody car, the rear upright bars must be connected by a side to side member just above the floor pan.
- e. Cage shall be braced to the rear frame kick-ups and diagonally between the rear uprights.
- f. Full roll cage allowed from firewall back to the rear frame rails. Rear and front hoops allowed.
- g. All welds must be property gusseted of no less than .095" thick. No pipe fittings allowed.
- h. All metal in driver's door bars and roll bars in the driver's area must be properly padded and taped.
- i. Left leg protection bar must be installed between roll cage and left front frame rail.
- j. Minimum 16 gauge metal between roll cage door bars and body skin on driver's side only. Minimum 40" in length by 14" high.
- k. No offset cages.
- l. Minimum 3" clearance recommended between top of driver's helmet and bottom of overhead roll bars.

LETTERING

Only those cars who are entered as registered members of Sunset Speedway Road Runner division are permitted to pre-number their car. Numbers of members must be on the roof reading from the passenger side and in the center of each door, in large (minimum 24") letters in a color that clearly contrasts the paint job of the car. Sponsor's name and logo may be placed any other place on the car.

Block type numbers 6" high, white in color, must be displayed on the upper right hand side of the windshield to make it easier for line-up purposes.

Vulgar words and expressions are not permitted.

ENGINE

Only engines that were factory available for the make, model and year being run are permitted. Maximum engine size is 2500cc. No head modifications. Cam lift will be inspected and must conform to the engine specs for the car.

Maximum overbore of .030" allowed.

Exceptions to the above engine make, model and year rule must be presented in writing to the tech official and tech supervisor for discussion and ruling through the track management.

COOLING SYSTEM: Radiator must be stock type and in stock location.

NO ANTIFREEZE ALLOWED

WEIGHT:

Minimum weight is 2300 pounds including driver for all 2000 cc and larger engines and all Hondas. All others are a minimum of 2000 pounds including driver. 100 pounds weight allowance for all automatic transmissions.

Ballast weight must be securely fastened with minimum 3/8" grade 8 bolts, painted white with car number on them and maintain the 5" ride height. Maximum left side weight is 55%. Maximum rear weight is 50%

Sunset reserves the right to add any amount of weight to any location on any car deemed to be too fast in order to keep this class competitive and fun. Weight to be supplied and installed by car owner.

CARBURETION / FUEL INJECTION:

OEM (Original Equipment Manufacturer) carburetor(s) that is/are factory stock for the engine being run is permitted. Choke accessories may be removed. Must use air cleaner with filter element in stock position. Two throttle return springs are mandatory.

Stock fuel injection for the make, model and year is allowed. Fuel injected cars must have a kill switch, marked in red, which shuts off the power to the fuel pump.

Fuel injected cars must also have a relay which shuts off power to the fuel pump on low oil pressure or loss of ignition. No ram air intakes. Air horn on air cleaner may be removed. No cowl induction air cleaners. Cars originally equipped with fuel injection may opt to use a carburetor, intake manifold, air cleaner and mechanical fuel pump from an older model of the same car.

DRIVELINE:

Stock OEM automatic or standard transmission. Automatic must have stock torque converter. Standard transmission must have all gears working with factory stock clutch assembly and flywheel.

No transmission coolers inside of driver's compartment.

Driveshaft on rear wheel drive cars must have two 360 degree steel retaining loops minimum 1/4" x 2" positioned at the front and rear of the driveshaft within 8" of the U-joint. No chains No aluminum driveshafts. Driveshafts must be painted white or fluorescent.

Locked rear ends are permitted. Mini-spools or welding may be used to lock a rear end. If welding, be sure a professional type job is done. Posi-trac type rear ends may be used.

IGNITION SYSTEM:

Must be stock OEM. Charging system must be working.

SUSPENSION AND FRAMES:

All suspension and frame components must be stock for the make, model and year of the car. No modification of stock suspension locating points allowed except for those listed below. The top of the right front wheel may be cambered in. On McPherson strut front ends; if no camber adjustment is available, then the upper strut tower may be modified to obtain camber. Check with tech official before proceeding. Camber of left front wheel must be within manufacturer specifications.

Unibody cars may install subframe connectors.

Frame height to be a minimum 5" from the ground to the frame or rocker panel, which ever is lowest, and will be measured without driver in the car.

All steering columns must be of a collapsible type and the center of the steering wheel must be heavily padded.

No racing springs or racing shock absorbers allowed. Stock springs may be replaced with stiffer or weaker springs as long as the spring retains the stock

style. Left and right side spring wire diameter must be the same. One 1" thick spacer is allowed on all or any springs.

EXHAUST

Catalytic converters may be removed. Muffler is mandatory (any style). Exhaust pipe must exit to the outside or under the car to the rear of the driver and ahead of the rear wheels. Exhaust pipes must be firmly mounted and have no sharp edges or protrude outside of the bodyline. Maximum exhaust pipe not to exceed 2 1/4" outside diameter. Single exhaust only. Honda four valve cars require a non direct flow muffler, 1 3/4" inlet X 1 3/4" outlet.

FUEL TANK OR CELL

Must be securely mounted in trunk compartment between the frame rails and no lower than rear axle. Hatchback models require a latching, accessible compartment/firewall to be constructed of 22-gauge steel, to house fuel tank. Trunk floor must remain in car. Maximum fuel tank capacity is seven gallons. Any size fuel cell allowed. Neoprene or steel gas line must be securely fastened under floor. No plastic or glass fuel filters. No copper lines. Fuel cell highly recommended. Gas caps must be sealed and vent must have a check valve.

Plastic fuel cells must be placed in a metal container, minimum 20-gauge steel. There must be a minimum 1" gap between the fuel cell and the steel enclosure to act as a crush area.

A fuel cell rear wrap-around protection hoop may be used. Minimum 1 3/4" x .095" tubing.

Gas cap must have an appropriate attaching line to prevent it from being lost.

External electric fuel pumps allowed on fuel injection vehicles as approved by tech staff.

FUEL:

Petroleum based unleaded fuels only. The gasoline shall not be blended with alcohols, ether, or other oxygenates and it shall not be blended with aniline or its derivatives, nitro compounds or other nitrogen containing compounds. No lead additives allowed. No NOS systems.

WHEELS

Maximum rim width bead to bead is 7". Heavy duty or racing rims may be run on all four wheels. No wheel offset allowed except right front. Right front rim must be reinforced, heavy duty or be a racing wheel. 13", 14" or 15" rims allowed.

TIRES

No racing type tires or snow tires allowed. DOT approved radial tires maximum size 215R in 60 or 65 series, 225R in 70, 75 or 80 series tires allowed. Passenger car tires only. No recaps or performance tires. Speed rating limited to S, T, U, and H. No tires to protrude outside of body.

SAFETY EQUIPMENT

1. Safety Belts and Harness

A quick release belt of not less than 3" in width and a 3" shoulder harness are compulsory.

Belts must be securely fastened to the frame and/or roll cage with grade 8 bolts of a minimum diameter of 3/8". Crotch V-belt highly recommended.

Shoulder belts must be mounted to the roll cage. All belts must be in good condition. Contoured neck collar highly recommended.

NO INERTIA OR REEL ROLL TYPE SEAT BELTS PERMITTED

2. Seat:

Option A:

Bucket seat may be used. Back must be welded or secured so it cannot fold down. If seat remains in stock position, it must be anchored at the bottom in four places and securely attached to the roll cage. The seat cannot be adjustable front to back. If the seat track is used it must be welded to avoid movement. Driver must have at least 2" top clearance between helmet and roof. Headrest mandatory.

Option B :

An aluminum racing seat with headrest is highly recommended. Wrap around headrests on both sides are recommended. Seat must be bolted to the seat frame or roll cage.

Seat must be positioned to the left of center line of the car. Use minimum of

3/8” grade 8 bolts with large washers to hold racing seat to seat framework. Minimum of two bolts on the seat back and minimum of two bolts on the seat bottom.

3. Fire Control

Cars must have a current year approved fire extinguisher mounted in an approved mounting bracket bolted down and within driver’s reach with seat belts fastened.

4. Safety Helmet

An approved racing safety helmet must be worn at all times during all races and practices. Helmets must be Snell 2000 Approved or equivalent. Goggles and full face helmets highly recommended.

5. Driver’s Window Net

Proper driver’s window net mandatory with minimum 3/8” rod. Must have a top release.

6. Driver’s Fire Suit

Driver’s fire suit is mandatory. No coveralls. Driver and suit must maintain clean looking appearance. Fireproof gloves, contoured neck collar, balaclava, underwear, socks, shoes and Hans or Hutchins type devices are highly recommended. No nylon shoes.

7. Cars must be self-starting and have two fuel pump or ignition kill switches. Kill switches must be painted red and marked ON and OFF within reach of the driver on the left and right side of the dash.

Thank you for choosing
SUNSET SPEEDWAY
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