

PETERBOROUGH SPEEDWAY

This set of Rules is designed as a basic guideline. Peterborough Speedway operates on a special events invitational basis. Therefore, some variations for outside cars may be necessary.

All cars running in a feature or qualifying event are subject to technical inspection by random selection at the end of the race. Any car running illegal non-stock parts will be disqualified. No car will be permitted to compete in an unsafe mechanical condition.

2012 - MINI STOCK

The 4 Cylinder class is open to all 4 cylinders (sedan & hatchback) cars 1969 through 2002 no more than 105 wheel base with the exception of:

1. Porches, BMW's Audi's, Saab's, trucks or station wagons of any make.
2. Any turbo charged cars.

No pick-ups, convertibles, or 4-wheel drive vehicles.

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

SPECIFICATIONS

APPEARANCE

Body must be stock appearing and in stock position on frame. No fender flares, Skirts or after market spoilers. All chrome moldings, ornaments, door handles, glass, lights, or plastic components must be removed, except grille and windshield. Appearance of race cars participating in racing event must be presentable in appearance. Cars that are considered unsafe or improperly prepared will be rejected by the tech committee.

BATTERY

Batteries must be securely mounted in a sealed container behind the driver.
E.g. a marine battery container with lid.

BODY

A) BUMPERS

Front and rear bumpers may be aftermarket but must be in stock position. They can be reinforced from the inside only. Both must bumpers must have safety chains attached from the bumper to the frame. Each car must have a tow hook or chain front and back, mounted under bumper and must be visible to safety crew.

B) DOORS

All doors must be welded or bolted shut to the satisfactions of the tech inspector. If only door skins are used then 4 horizontal door bars on driver's side are required with minimum of 2 vertical bars between each horizontal bar. Minimum height of door bars 22 ½ inches from bottom of frame rail. Minimum length of door bars 42 inches. Plus a minimum off 40" x 14" high 16 gauge metal plate between door bars and body skin on drivers side. X bars on right side of cage will be allowed.

C) GROUND CLEARANCE

Minimum frame and body height is 5".

D) HOOD AND TRUNK LID

Full stock hood and trunk must be retained with the exception of the inner bracing which may be removed, No hood openings allowed. A quick hold-down release must be used with easy access in the event of a fire. No modified rear spoilers.

E) REAR & SIDE WINDOWS

Absolutely no rear windows permitted. Side ¼ window openings may be closed in with lexan. Any 4-door cars may close in the rear door window openings. Vent windows are permitted with a window opening of 28" x factory height.

F) SCRUB RAILS

Side bars must extend no further forward than the rear of front wheel opening, and no further rearward than front of the rear wheel opening, and must be flat to the doors and a maximum 1" x 2" welded or bolted to roll cage. No sharp edges. When bolting on scrub rails, you must use carriage bolts (or round-headed bolts), if hex head bolts are used, they must be counter sunk.

G) WHEEL OPENINGS / ROCKER PANELS

Original wheel arches must be retained. Front inner fenders may be removed or trimmed. Rocker panels must be stock appearing, no after market skirts.

H) WINDSHIELD

Windshields must be safety glass with 4 safety clips or lexan. No plexiglass or half windshields allowed. The top 5" of windshield must be kept for Peterborough Speedway division sponsors.

BRAKES

All four wheels must be working. No brake biasing of any kind, including valves, blocked lines etc. No brake lines allowed in the driver compartment. Rear disc brakes are permitted if factory available.

CHASSIS AND SUSPENSION

A) ROLL CAGE

A full 6 point roll cage (see diagram page 17), 13/4" O.D. tubing must be used with a minimum of .095" wall thickness. **No Offset Cages.** No part of the roll cage may project outside the exterior sheet metal. Padding in the driver's area is compulsory. Roll cage cannot be used to support or strengthen the frame. Inspection hole required at base of roll cage. No pipe fittings to be used. Must be a professional looking roll cage with electrical welding only. No brazing. A front hoop may be used and can tie into the front suspension mounting points or strut towers.

B) SHOCKS

No racing shocks allowed. Stock gas shocks permitted.

C) SUSPENSIONS AND FRAMES

All suspension and frame components must be stock for the make, model and year of the car, with no modification. Suspension may not be adjusted. No components can be interchanged for those that are stock with the exception of polyurethane bushings. No modification of stock suspension locating points allowed. No heim joint bracing of suspension points – Strut tower brace is permitted with heims. To achieve wheel camber strut tower bolt holes may be elongated. Suspension bolts must be grade 8 or higher and must be stock diameter.

If camber exceeds 2 ½ degrees + or – a racing wheel and oversize studs & nuts must be used on the right front. A max of 3 degrees rear camber permitted. Unibody cars may install subframe connectors with a max. of 2"x2" .095 tubing. A single strut tower brace with a max. of 1 ¾" .095 tubing may be used. No weight jacking devices of any type allowed. Sway bar bolts and spacers must be same length side to side.

D) SPRINGS

OEM springs may be altered, Spring rubbers or clamps are permitted. Racing springs cannot be used.

CLUTCH AND FLYWHEEL

Clutch and Flywheel must be OEM or stock type replacement. No aluminum or light weight clutch assemblies permitted. No lightning or drilling of clutch assembly. Flywheel must be within 20% of original weight.

COOLING SYSTEM

Larger rads permissible only if they fit in stock rad cradle. No antifreeze permitted, A overflow can must be installed on the firewall, behind the right front tire. Front rad cradle must be retained.

DRIVELINE

Cars must have a safety driveshaft hoop installed at the front of the driveshaft if using a rear wheel drive, and driveshaft must be painted white.

EXHAUST SYSTEM

Stock exhaust manifold only. No headers permitted factory or aftermarket. If a exhaust manifold is not available for the engine being run then factory tubular exhaust is permitted. Max pipe size of 2 ½". A muffler is required, no altering permitted (cars with excessively noisy mufflers will be asked to be changed or will not be permitted to compete), but catalytic converter may be removed. Exhaust pipes must exit to the outside of the car to the rear of the driver and within 18" of the rear wheels. Exhaust should be firmly mounted high enough to avoid contact with the track surface during racing conditions. The exhaust cannot have any sharp edges or protrude outside of the body line. Exhaust may run above the original floor pan but must be completely enclosed and sealed to prevent any gases from entering the drivers compartment.

FUEL

Pump fuel ONLY, The gasoline shall not be blended with alcohols, ether or other oxygenates it shall not be blended with aniline or its derivatives, nitro compounds or other nitrogen containing compounds. No lead additives allowed. No NOS systems.

FUEL SYSTEM

A) FUEL TANK/CELL

Fuel tank is to be securely mounted in its original position underneath the car. Or can be mounted in the centre of the trunk area, with filler inside trunk. The fuel tank must be separated from the driver's compartment by an all metal firewall. There can be no openings in the firewall, any holes must be filled in with metal. No filler neck or fuel line is permitted inside of the driver's compartment. The gas tank must be firmly secured with steel straps to the floor of the trunk. Minimum of two straps front and back, one side to side (straps must be steel and a minimum of 2" x 1/16" flat strap). All filler caps must be non-vented. No car will be permitted to run if any sign of fuel leakage is found. The mounting of the fuel tank is at the discretion of the tech inspector. A single safety hoop with two uprights (similar design as rad hoop – see diag.) is required when using a fuel cell and must extend below the bottom of the cell. Tubing may not exceed 1 3/4" x .095". Hoop can tie into the cage as indicated in the diag. Fuel cell must be at a minimum height of 13" from the ground to the bottom of the cell and must be in an steel containment can. **FUEL CELLS ARE HIGHLY RECOMMENDED.**

B) FUEL SHUT-OFF

There must be a fuel shut off valve in working order and mounted in the rear firewall or window parcel shelf accessible by safety personal. It must be brightly and neatly marked "ON" and "OFF".

IGNITION & CHARGING SYSTEM

Ignition system must remain stock in every respect. Stock replacement parts only. No aftermarket high performance ignition systems. Charging system must be completely working.

Kill Switch Mandatory in main battery line or use of Ford solenoid is permitted, either system must be clearly marked and in reach for safety personnel.

INTERIOR

With the exception of the driver's seat, 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 door 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 must be retained. Seat belts must be firmly mounted to the floor or chassis of the car. Stock interior mirror is permitted. No fuel or brake lines or fuel filters permitted in the driver's compartment. All glass except the windshield must be removed.

PAINT AND LETTERING

Only those cars who are entered in the Mini Stock Car division and registered are permitted to pre-number their car (One or two digits). Numbers of members must be on the sides of the car in large (minimum 18") letters in a colour that clearly contrasts to the paint job on the car. All cars of non-members must have sides and roof clear so the number assigned by the track official can be placed on the car. Sponsor's name and logo may be placed any other place on the car. 4" number required on right front of car. **VULGAR WORDS AND EXPRESSIONS ARE NOT PERMITTED.**

RADIOS

No two-way radios. Race Receivers are mandatory for all regular points nights, these radios can be purchased or rented from the speedway

REAR END

Posi-trac, limited slip and lock-up rear ends allowed. Spools are not permitted. Welding of rear end is permitted on rear wheel drive cars.

SAFETY

A) HELMET & APPAREL

Driver's fire suit is mandatory. No coveralls. Driver and suit must maintain clean looking appearance. Fireproof gloves, neck collar are HIGHLY recommended. A Snell 2005 SA or newer approved racing safety helmet and complete driver's racing suit must be worn in all practice and race events and until car is parked in pit area.

B) BELTS AND HARNESS

All cars must be equipped with a quick release type, 5 point harness with a minimum 3" lap belt and shoulder harness of 3", properly affixed to the roll cage or chassis with aircraft quality bolts, no less than 1/2 inch in diameter. Head restraint **strongly** recommended. Seat belts must be dated within the last 3 years.

C) FIRE CONTROL

Cars must have a 2 ½ lbs fire extinguisher with either a steel or aluminum head mounted in an steel mounting bracket and must be bolted down, and within driver's reach with seat belts fastened. Fire extinguisher must be serviced and inspected each year and dated no later than January 1st of the current year.

D) SEAT

An aluminum racing seat must be used, bolted to roll cage, not bolted to the floor. When mounting seat use minimum 3/8" grade 8 bolts with large washers to hold racing seat to seat framework. Minimum of two bolts on the seat back and two bolts on the seat bottom. Seat must be positioned completely to the left of the centerline of the car. An approved head restraint must be made of some energy absorbing material. Headrest side plates recommended. Driver must have at least 2" top clearance between helmet and roof.

E) WINDOW NET

Drivers side window net mandatory with minimum 3/8 inch rod. Must have top release.

TIRES

TYPE/SIZE

No snow, directional or racing tires allowed. Maximum tire size allowed is 205x60x(rim size). Only one tire size difference allowed from side to side or front to rear. All tires are subject to approval of official in charge. All tires must be DOT approved and cannot have a tread wear rating of less than 200, if either the DOT approved or tread wear rating is removed from the tire it will be deemed illegal. Tires up to and including H rating permitted. Falken – Azenis tire is allowed and recommended. A 1/8" tread depth rule will be enforced.

TRANSMISSION

Any automatic or manual transmission can be used as long as it bolts up to the engine without any modifications and must sit in factory existing mounts. But must be stock. All cars must have a working reverse gear. Transmission coolers are permitted and cannot be mounted in the drivers compartment.

WEIGHT

The car's minimum required weight is calculated based on the engine's displacement. Hondas when using the cc rule must 250 lbs without exceeding the Max weight, (see chart)

Engine Type	Min. Weight	Max. Weight	Max Size	Weight per cc
8 or 12 valve SOHC	NA	2250 lbs	2760 cc	1.15 lb./cc
16 valve SOHC	2200 lbs	2450 lbs	2300 cc	1.20 lb./cc
16 valve DOHC	2350 lbs	2600 lbs	2300 cc	1.30 lb./cc

Minimum required weight is measured with the driver in the car. A maximum left side weight of 55%. And rear weight of 50% No topping up with fuel after the feature.

To equalize the field as much as possible an additional 50lbs of weight will be added to the total weight of the car on any given drivers first feature win and for each subsequent feature win after that, The first 100lbs of penalty weight will be added in the passenger seat location any additional penalty weight after the first 200lbs may be located at the drivers discretion. Penalty weight will not be removed with the exception of the last night before the colours and invitationals. These weight penalties only apply to points events only.

Peterborough Speedway reserves the right to add any amount of lead to any location to keep the class competitive and fun.

WHEELS

Maximum width of 7" measured from bead to bead seat will be allowed. All wheels must be either 12, 13, 14 or 15" diameter. No intermixing of wheel size permitted. No reworking or altering of factory wheels. Steel after-market racing wheels allowed no light weight wheels. Aluminum wheels allowed provided they are stock production for the vehicle. Right side wheels must be steel. Any offset wheel permitted as long as wheels don't protrude outside of the original factory bodyline – no wheel flares or reworking of wheel openings.

WHEELBASE

A ½" tolerance is permitted from side to side for alignment purpose.

ENGINES : I-4

BLOCK ASSEMBLY – ENGINE SERIAL #'S MUST BE PAINTED A BRIGHT COLOUR

Engines must be 4 cylinder , no rotary engines, no V-Tec Engines. No turbo or super chargers. Must be the engine made for that year and model of car. Engine must remain stock in every respect. IF IT ISN'T STOCK, IT ISN'T LEGAL...NO EXCEPTIONS***

CAMSHAFT

OEM style cams and lifters only. No regrinds permitted. No adjustable timing gears or offset or multiple key ways.

CARBURATION

Carburetor is to be stock only as from factory. No spacers permitted. Dual stock carburetors allowed, provided they were manufactured for that model, make and year of engine. Stock fuel injection allowed. Aftermarket air filter may be used "K&N" but must fit under the hood. Air ducting may be used with a maximum air intake area of 70 square inches into the air box.

CYLINDER HEADS

Must be stock for engine being run, No head modification. Stock OEM rocker arms and ratio only.

FUEL PUMP

Stock fuel pumps only. Electric fuel pumps allowed provided car was manufactured with it. No high pressure after market electric fuel pumps allowed. When using an electric fuel pump an oil sender safety shut-off must be used.

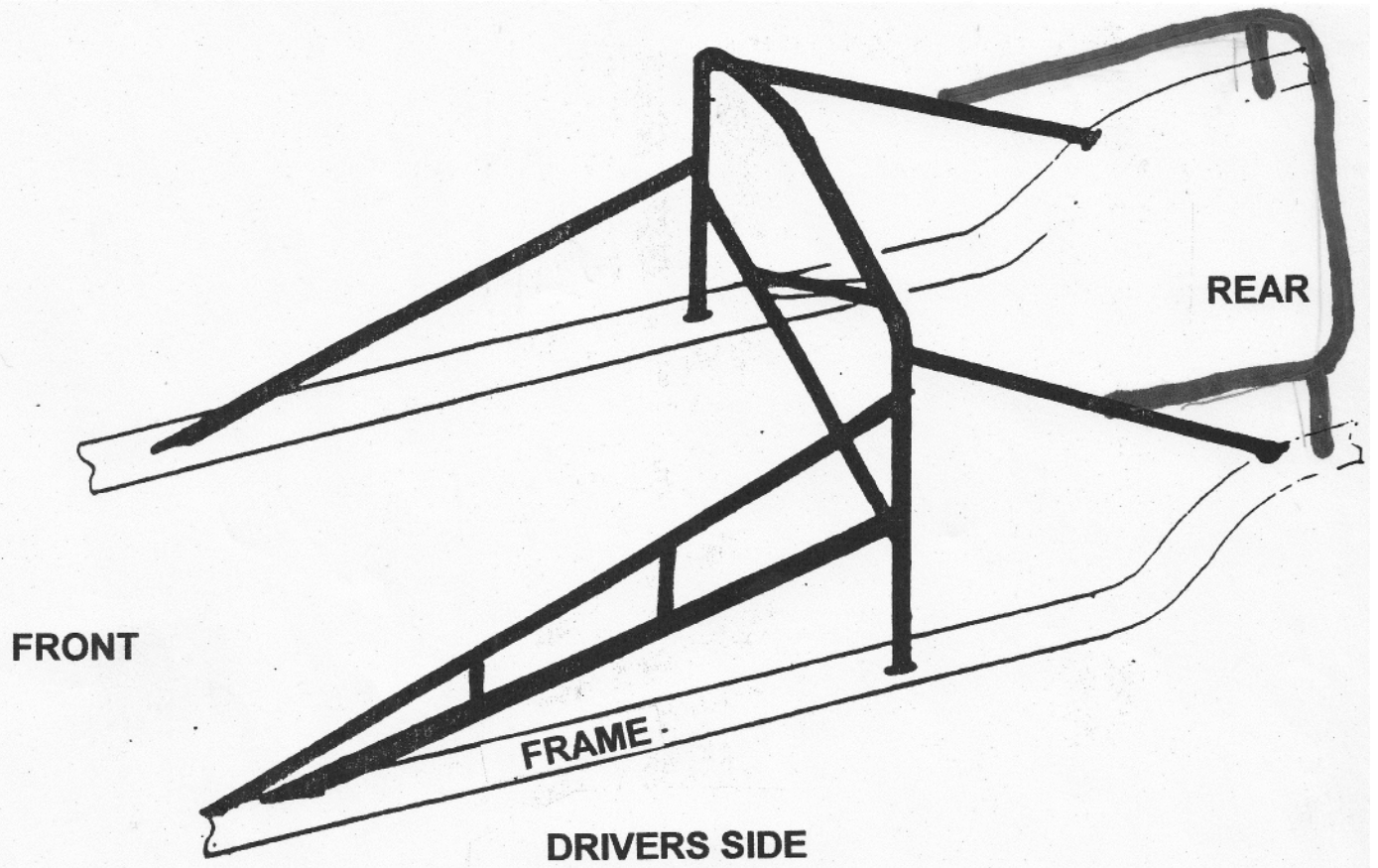
INTAKE MANIFOLD

Original OEM manifolds only. No reworking, No Spacers, Stock only.

WATER PUMP

Stock OEM replacement pumps only.

MINI-STOCK MINIMUM ROLL CAGE REQUIREMENT



MAXIMUM RADIATOR BRACING

