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Sauble Speedway 2016 ~ 4-Cyl. Rules



4 Cyl. Rule

1. 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. No off shore parts. All makes must conform to Canadian specifications. No interchanging of parts from make to make. All parts must be O.E.M. and available in Canada.

The 4-Cyl. Division is open to any **approved** 4 cylinder automobile having a factory 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, Audi, Saab turbo or supercharged, or rotary engines. VVT or Variable valve timing must be approved by the speedway. No mid or rear engine cars.

You are required to inform Sauble Speedway of the VIN, make, model, and year of body and the engine of the car - it may be necessary to supply a serial number you will be entering, in an event at least 7 days prior to the event. You will be inspected based on the O.E.M. specifications of the Make, Model, and Year you provide. It is your responsibility to inform tech prior to an event of any changes from what you originally register. You are required to supply tech with a technical service manual for inspection purposes. OBD connector must be accessible and functional for the tech department. If a competitor refuses to submit to dyno testing the competitor will forfeit all points earned to date and money earned for that event, and will not be permitted to compete in the next three events.

2. Body and Appearance

Body must be stock in appearance to the original vehicle, with no chopping, channeling, widening or sectioning allowed. Body must be complete with all doors, fenders, quarter panels, hood, trunk and roof as well as both bumpers. All chrome moldings, door handles, nameplate 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. Scrub rails must be fastened within 6" of the front and within 6" of the rear of the scrub rail. Side skirts may be used for advertising purposes, must not extend any lower than the bottom of the rocker panel.

Wheels must not extend outside the body at spindle height, no exceptions.

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.

Side skirts may be added to the stock lower portion of the body for cosmetic purposes only.

No down force type additional bodywork will be permitted. A rear spoiler may be added - a maximum of a 5" spoiler is allowed. The spoiler must follow the contour of the rear of the car. No side pods, no bracing.

3. Battery

Must be anchored securely and in a spill proof container, and must be mounted behind the driver's seat, and must have a master disconnect, must be mounted 3" down from the roof on the outside left side of the car. Disconnect must be on the positive side of the battery, and must be marked on and off. 1- 12 volt battery only.

4. 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 or aircraft cable, front and rear, strong enough to be lifted by a tow truck for towing purposes.

5. Brakes

Stock four-wheel brakes in good working order are compulsory. OEM rear disc brakes allowed. No Anti-Lock Brakes, no traction control. Stock only. No brake line restrictors. No adjustable proportioning valves. Brake pads must be stock as produced. No removal of brake pad or brake shoe material.

6. Interior

All upholstery materials and trim and padding must be removed. Dash may remain. 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. Floor pan and firewalls must remain in stock location and must be 22 gauge steel minimum. Cars that remove stock bracing will be assessed a weight penalty – see tech.

No fuel or brake lines or fuel filters permitted in the driver's compartment.

All windows and glass except for the front windshield must be removed. No screens or half windshields. Windshield, rear window and opera windows may be lexan or safety glass with a minimum of 4 safety clips on the front window (No Plexiglas 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. No mirrors.

If driver's compartment or trunk floor is not structurally sound it shall be replaced using O.E.M. replacement floor panels or 22 gauge of sheet steel for the passenger side, and 18 gauge sheet steel under the driver's seat and foot box. Steel must be fully welded and in stock location. A tunnel in the driver compartment to allow clearance for exhaust is permitted to exit under the door. It is a minimum of 22-gauge steel and welded in place. Any and all additions and modifications to the floor will need to be inspected and approved by the tech official's prior to competition.

A shelf on the passenger side will be permitted as long as it is constructed of 22-gauge steel, and has a minimum of 24" x 24" access panel for inspection of the O.E.M. floor pan. This is intended to be for cosmetic purposes only, and is not meant to have any structural design.

7. Roll Cage - Mandatory

- a. Cage must be minimum 1 3/4" (or 1 1/2" DOM x .095") 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 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. All 4 uprights must go right through unibody frame.
- 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.
- m.** Seat and seat belt brackets must be built into roll cage.
- n.** Fuel line may run through drivers compartment in 1 3/4 x 0.95 which must run from rear fire wall to front firewall and be securely fastened to roll cage on right side of car. It must be sealed from driver compartment. It must be clearly identified as the fuel line.
- o.** Minimum of 3 horizontal door bars on the driver side and 2 on the passenger side

8. Paint and Lettering

All cars must be neatly painted. Numbers assigned by the track must be painted on both sides of car and roof in minimum 18" high X 3" wide (read from right side) of a color of car. No foil numbers. No trick numbers. 4" numbers on headlamp and tail lamp locations mandatory.

9. Engine

Only engines that were factory available for the make, model and year being run are permitted. No off shore engines or parts. Maximum engine size is 2500cc. No head modifications, head may be milled to straighten surface (a maximum increase in compression ratio of 0.5:1 above advertised stock) Cam lift will be inspected and must conform to the engine specs for the car. Must be Stock. Engine must not exceed 190psi per cylinder. No modifying of the engine mounts.

No - turbo or supercharged engines, or rotary engines. A Chain may be used to tie down engine on stock rubber mounts.

10. Cooling System

Radiator must be stock or stock replacement and in stock location, aluminum racing rad permitted. NO ANTIFREEZE ALLOWED. Oil coolers permitted.

11. Weight

Minimum weight is 2000 lbs or 19 lbs/ horsepower as tested on chassis dyno (whichever is greater).

Maximum starting weight (before rewards weight) will be 2800lbs, meaning the maximum hp you can compete with is 140. Maximum left side weight is 56%. Weights will be done with driver in car. 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 rear weight is 50%. If the Azenis 205/50R15 tire is used a weight penalty of 50# and maximum of 54%LS

Sauble Speedway 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. The extra weight to be supplied and installed by car owner. For invitational races Sauble Competitors are permitted to weigh the lower of the invited rule packages

Weight will be added to the first place finisher only. It must be in place for the following event and for the remainder of the season in the designated location by the tech director. The rewards weight for competitors will be as follows :40lbs for a competitors second feature win and any feature win after that. Penalty weight will be added to the weight of the car following the event in which the competitor earned the penalty. All penalty weight will be located on the passenger floor.

Note: If the make model and year you are racing is less than 100 horsepower as tested on chassis dyno you are permitted to modify to achieve up to a safe base weight. Any proposed modifications must be submitted in writing and approved by Sauble Speedway. **Any approved modifications will be made public**

12. Carburetion / Fuel Injection

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

Stock fuel injection for the make, model and year is allowed. No chipping or re-mapping with the exception of altering of rev-limiter permitted. 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, or non computerized fuel injection.

Carb: No adapter plate between carburetor and intake manifold permitted.

13. Driveline

Stock OEM automatic or standard transmission. Automatic must have stock torque converter. Transmission must have all the gears working. Standard transmissions must use a factory stock clutch assembly and flywheel. Must have 1/4" scatter shield 180degrees around bell housing. 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 driveshaft. The driveshaft 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 track rear ends are not allowed.

14. Ignition System

Must be stock OEM. Charging system must be working at all times. No traction control.

15. 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. Uni-body cars may install sub-frame connectors. Upper and lower strut ties allowed. No Adjustable suspensions. Optional LF camber may be beyond factory specs. LF lower control arm may be modified to achieve desired camber. OEM shocks and struts only, no KONI shocks.

Frame height to be a minimum 5" from the ground to the frame or rocker panel, whichever is lowest, and will be measured without driver in the car. All steering columns must be of a collapsible type and the Centre of the steering wheel must be heavily padded.

Aftermarket springs permitted. No "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 rate must be within 10% of each other. Spring spacers up to 1" are permitted. No aftermarket bump stops of any sort permitted. OEM bump rubbers for the make model and year of the car are allowed with no substitutions or modifications or spacers. **One spring rubber (one coil) permitted per wheel. Spring rubber to be one coil type rubber only, all other are not permitted.**

Sway bars must be stock sway bar with stock bar links for make model and year being used, equal length side to side. Larger sway bars will be permitted on an individual model basis only, must be presented and approved in writing by the speedway. **This will be treated as an approved upgrade.**

Urethane bushings may be used in place of O.E.M. rubber as long as they retain O.E.M. dimensions.

16. Exhaust

Mufflers and catalytic converters may be removed. Exhaust pipe must exit to the outside of the car to the rear of the driver and no more than 10" ahead of right rear tire. Exhaust pipes must be firmly mounted and have no sharp edges or protrude outside of the bodyline. Maximum exhaust not to exceed 2 1/4" outside diameter. Single exhaust only. A muffler is mandatory.

17. 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 or in steel pipe through the driver's compartment. 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 and exit outside back of car. The fuel cell must have a ground wire from the fuel cell to the frame.

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.

The fuel cell, (tank, cap, filler, vent line) must be separated from the driver compartment by a minimum of 22 gauge steel.

18. 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.

19. Wheels

Maximum rim width bead to bead is 7". Heavy duty or racing rims may be run on all four wheels. Right front rim must be a racing wheel. 13", 14" or 15" rims allowed. Stock back-spacing only permitted

20. Tires

To be announced - we are testing American Racer Tires for potential use in 2016

21. Safety Equipment

a. Safety Belts and Harness

A 5 point harness - all belts must be attached to roll cage. A quick release belt of not less than 3" in width and a 3" shoulder harness is 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

b. Seat:

An aluminum racing seat with 2 head rest only. 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. Seat must be fastened to roll cage.

c. 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.

d. Safety Helmet An approved racing safety helmet must be worn at all times during all races and practices. Helmets must be 2010 Snell Approved or equivalent. Goggles and full-face helmets highly recommended.

e. Driver's Window Net

Proper driver's window net mandatory with minimum 3/8" rod. Window net must have a top release.

f. 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 Hutchens type devices are highly recommended. No nylon shoes.


g. Kill Switch.

Cars must be self-starting and have two ignition KILL switches. KILL switches must be painted red and marked KILL - ON and OFF within reach of the driver on the left or right side of the dash. Also a master shutoff on left opera window no more than 2" down from roof.

22. Data Acquisition. Tech will decide which cars will carry data recorders to determine theoretical hp

23. Mirrors: If the driver is using an approved head and neck restraint system (Hans, Hutch, Defender) then a rear view mirror is permitted.

Attention: Drivers - Please Read Rule Book Disclaimer.

2016 4-Cyl. Feature Pay Out		Sauble Speedway 2016 4-Cyl To be eligible for nightly points you must have the windshield banner installed		
1st	\$175.00	2016		
2nd	\$150.00	1st		\$500.00
3rd	\$140.00	2nd		\$300.00
4th	\$120.00	3rd		\$250.00
5th	\$100.00	4th		\$150.00
6th	\$ 75.00	5th		\$100.00
7th	\$ 50.00	6th		\$100.00
8th	\$ 50.00	7th		\$100.00
9th	\$ 50.00	8th		\$100.00
10th	\$ 50.00	9th		\$100.00
11th	\$ 50.00	10th		\$100.00
12th	\$ 50.00			
13th	\$ 50.00			
14th	\$ 50.00			
15th	\$ 50.00			
16th	\$ 50.00			
17th	\$ 50.00	2016 Year End Awards:		<p>Thank you for choosing Sauble Speedway as your Place to Race... "Good Luck, to each of you! Have a Great Summer at the Beach...."</p>
18th	\$ 50.00	Top 10		
19th	\$ 50.00	Best Appearing Car		
20th	\$ 50.00	Rookie of the year		
21st	\$ 50.00	Most Sportsmanlike Driver		
22nd	\$ 50.00			
23rd	\$ 50.00			
24th	\$ 50.00			