

# KNOX MOUNTAIN MOTOR SPORT

## Ice Racing Rules 2008-09

- The competition will be organized and promoted by Knox Mountain Motor Sport (KMMS), and its designated members.
- Entries shall be open on November 1, 2008 and shall close on the morning of the event. Entries may be mailed to the official address. Entry fees are to be made payable to Knox Mountain Motor Sport.
- The organizer reserves the right to refuse entry.
- These rules and regulations supersede all rules and regulations previously published, and are at date of publication, binding and supplementary to the current Competition Regulations of the Confederation of Autosport Car Clubs (CACC).

## RULES AND REGULATIONS

### GENERAL:

- Attendance at driver's meetings is *MANDATORY*. A \$20.00 fine will be levied for anyone late for a meeting without substantial reason. This will be payable to Registration before you will be allowed access to the track.
- The Lap Charting Area is off limits to everyone during practice and racing.
- Any registered competitor observed driving on the racing surface at any time other than posted, may be disqualified from the event. All other practice only as permitted by the organizer.
- The speed limit in the pits is a maximum of 10 KPH.**
- All vehicles parked on the ice surface** must have a tarp or mat placed under the engine to catch any fluid leaks. All refueling requires a tarp or mat to catch spills. Failure to do so will result in exclusion from the event.
- Each driver and crew are responsible for **immediate** clean up of spills or garbage of any kind. Nothing is to be left on the ice surface at the end of the day.
- There shall be no alcohol consumption on the day of an event until the last car has left the track. Any alcohol consumed in the pits before this time will result in the exclusion of the entrant from the entire weekend and further action may be taken by the KMMS.
- The rules as set forth shall remain in effect for the entire race season. If there is a serious problem with these rules, an emergency meeting will be held.

### LICENSING REQUIREMENTS:

- All drivers must hold a minimum basic Driver License.
- A current basic license indicating the driver's ability to compete in motor sport is required and such licenses as deemed appropriate by the CACC are accepted by KMMS. (FIA, ASN, CAMRA, SCCA, ELRA, NASCAR, etc.)

### NOVICE DRIVERS:

- Novice drivers, for the purpose of this series, are defined as not having previously competed in one full season of ice racing.
- Novice drivers are required to participate in at least one novice race prior to participating in any points heat races. Upon demonstrating a reasonable level of competence, as judged by the Clerk of the Course, a novice will be allowed to start at the rear of a heat race. The Clerk of the Course may require additional rear of field starts or graduate the novice to start as per normal gridding procedure.
- Cars with a novice driver must display an area of day glow orange on the rear of the car when ever they are on the track. This orange area must be at least 72sq.in. (Equivalent to a provincial license plate) This must be displayed for the first full season of racing.

**RACE PROCEDURE AND DURATION:**

- There are two classes of cars raced, Open and Chevette Class. The two classes of cars may race separately, or race in 'combined' heat races at the discretion of the organizer.
- Each heat race will be between 10 and 30 minutes in length. The competition will consist of a maximum of six races per day for each class. The points for each day raced will be accumulated towards the seasonal championship.
- The first heat race of the season will be gridded by random draw. The first heat, of all other race days, will be gridded placing drivers with lowest accumulated points to date, at the front, highest points at the rear. All other heat races will be gridded in the reverse order to the previous race finish. (inverted)
- Starting grids will be in a side-by-side formation (rows of 2)
- Passing on the grid is not permitted after the drop of the green flag until the start line has been reached.
- The course will contain both left and right hand corners (road race) and flow in a counter-clockwise direction.
- A race that has to be red flagged may be deemed completed if 50% of the allotted time or number of laps has been completed.
- Cars may be impounded at the end of any race.
- A driver may drive any number of vehicles throughout the season; he/she may, however drive only one vehicle in any one heat race.
- Technical inspection of the vehicles shall take place at the lake on race day. No car shall be permitted on the race track until it has passed technical inspection.

**RULES OF THE ROAD:**

- There will be NO BODY CONTACT between racing vehicles. Any body contact will be noted. At the end of each race, the people involved will start the next race from the pits after the green flag and on the starter's instructions. The only exception will be where one of the parties involved in a particular incident accepts fault, relieving other party from penalty.
- Any vehicle unable to return, unassisted, to the race surface, shall be considered DNF.
- A current definition and interpretation of all flags and their application will be given to all drivers at every event. The acceptance of entry is conditional on the competitor having understood these.
- Any failure to obey starter's instructions could result in a penalty.
- The ignoring of any of the following flags will have the indicated results:
  - a) The ignoring of a YELLOW flag by passing or by continuing at full race speeds may result in immediate disqualification from the race in question and may further be the cause for exclusion from the entire weekend.
  - b) The ignoring of a RED flag shall lead to total exclusion for the remainder of the series and the loss of all points accumulated in the series to date
  - c) The ignoring of a BLACK flag in the first instance may result in the loss of all points in the race involved. A second incident may result in the immediate loss of all points gathered in the weekend.
- All published starting times are GREEN FLAG times, which means that the pace lap will actually be underway sixty to ninety seconds before that time. It is up to the competitor to arrive at the pre-grid area before the rolling of the pace lap. In order to assist the competitor with this, the organizer will indicate five minutes, before the rolling of the pace lap.
- Once the pace lap is rolling, no car may enter the track until after the green flag is dropped and then only under the starters orders.

**SCORING:**

- In order to qualify for points in any race, a driver must complete 50% of the winner's total laps.
- No points are scored if the vehicle was assisted to reach the finish line.
- Points will follow a car number in a car class, regardless of driver or car. Car number must be on the car prior to the race start.
- Overall points will be awarded as per the table set out in these rules.
- Ties are to be broken by the greatest number of 1st places, then 2nd places etc.

-For each completed race day, scoring will exclude the points from a cars lowest scoring heat race during the season. For example; a season with six **race days** will result in a car dropping the points for six **heat races**. (including DNS races) This will allow a competitor to miss some races without being eliminated from the point's championship.

		CARS STARTING EACH RACE																			
		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
P O I N T S  T O  P L A C E	1	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	6	3
	2	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	3	
	3	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3		
	4	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3			
	5	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3				
	6	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3					
	7	16	15	14	13	12	11	10	9	8	7	6	5	4	3						
	8	15	14	13	12	11	10	9	8	7	6	5	4	3							
	9	14	13	12	11	10	9	8	7	6	5	4	3								
	10	13	12	11	10	9	8	7	6	5	4	3									
	11	12	11	10	9	8	7	6	5	4	3										
	12	11	10	9	8	7	6	5	4	3											
	13	10	9	8	7	6	5	4	3												
	14	9	8	7	6	5	4	3													
	15	8	7	6	5	4	3														
	16	7	6	5	4	3															
	17	6	5	4	3																
	18	5	4	3																	
	19	4	3																		
	20	3																			

-Finishing positions will be posted within 30 minutes from the drop of the drop of the checkered flag and will remain posted until the end of the meet.

### PROTESTS:

#### Protests

- Protest fee is \$100 cash, refundable only if the protest is found reasonable. Protests are subject to scrutineer's acceptance.
- Teardowns if required will only happen after the final race of the day.
- If found illegal, competitor will lose all points for the day.
- Any race vehicle may be scrutinized following the race.
- Tire legality may be checked at any time.

### GENERAL PREPARATION RULES:

- A 5 or 6 point racing harness is mandatory on the driver's seat. No "Y" shoulder straps are allowed.
- The *WEARING* of a 2000SA Snell Foundation specification, or better, helmet is mandatory any time a competitor is on the racing surface.
- Substantial six point roll cages, minimum National Racing standard shall be mandatory in all vehicles. **A driver side impact protection bar is required. A bar connecting the two outer members of the front hoop near steering column level is required (knee bar).** See CACC General Competition Rules – Appendices for details.
- Cars must be raced with the door windows more than half way up or run an approved window net.
- Fire extinguishers are mandatory in each pit.
- All vehicles must have operational brakes on all four wheels.

- Functional inside and outside rear view mirrors are mandatory.
- No dual wheeled cars allowed.
- No external braking system permitted.
- Anti Lock Braking Systems (ABS) are not permitted.
- No Automatic Traction Control systems are permitted.
- Windshield wipers must be operational on the driver's side of the car.
- Adequate eye protection must be worn by all drivers not having legal wind screens.
- No protruding sharp objects. Cars will run stock bumpers or reasonable facsimile, complete with end caps. No bumpers may extend more than two inches beyond the stock mounts.
- Wooden bumpers are not allowed.
- Trailer hitches etc. shall be deemed to be protruding and must be removed before the vehicle shall be eligible for competition.
- All vehicles may not exceed a wheel base of 108 inches.
- Catch tanks for the engine vents are mandatory as follows: 1-1 liter for oil and 1-1 liter for water or 1-2 liter for both.
- Clear and *HIGHLY CONTRASTING* numbers must be displayed on both sides and front of the vehicles. Number must be registered with the organizers for ensuring availability.

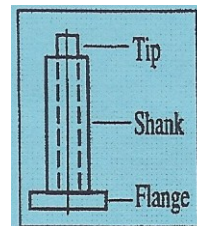
### **TIRES AND STUDDING:**

Optional tire configurations include studded or machine screwed. Contact KMMS for specific tire construction requirements.

Studding is only permitted into a tire's originally factory molded stud holes. Up to and including 38 studs per lineal foot may be installed in the tire. Studs shall comply with the diagram and dimensions below. The stud must be unaltered stock, commercially available Size 17 (TMSI 17) stud (16mm stud). Sharpening of studs is not permitted.

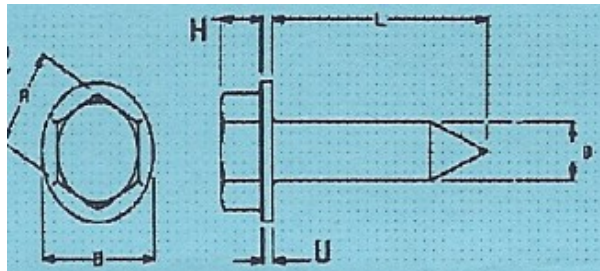
Maximum tip diameter:	2.6mm
Maximum shank diameter at tip	5.2mm
Maximum taper on diameter	0.6mm
Maximum flange diameter	9.1mm
Maximum overall length	16.1mm

Note: no upward tolerances on these dimensions.



Screw tires; may include any reasonable size tire equipped with up to and including 30 sheet metal screws per lineal foot of tire running surface. The screws must be installed in the tire with the hexagonal head on the tire face. The screws may penetrate the casing and may be fastened inside. Screws are limited to #8 screws with 1/4inch hexagonal plain or slotted head. The heads may not be modified in any way and no additional spacers or washers are permitted on the exterior of the tire.

A	.250
B	.375
D	.165 (#8)
H	.145
L	FREE
U	.035



Note: no upward tolerances on these dimensions.

## OPEN CLASS PREPARATION RULES

- All vehicles may have no more than two powered driving wheels.
- Tires and wheels must be of reasonable size for the vehicle.
- No aerodynamic devices of any kind will be permitted except vertical stabilizers which are permitted but must be securely mounted without obstructing vision.
- All batteries contained in the driver's compartment must be completely enclosed and secured with a metal strap.
- All cars must have a substantial fire wall between the engine and driver.
- Any ballast must be contained and secured.
- Headlights or driving lights and tail lights are mandatory. All tail lights shall have standard (stock) bulbs and be mounted on exterior of vehicle. All headlights not in stock location shall be standard headlights or driving lights. Brake lights shall be operational.
- A high mounted tail light of minimum 13 watts is mandatory. It must be mounted above the midpoint of the rear window. It is recommended that two high mount lights (18watt) and a high mount brake light be installed in addition to stock lights.
- Mufflers are required on all cars; maximum noise level of 105dB SPL.

## KMMS "CHEVETTES ON ICE" PREPARATION RULES

### General Event Description

This ice race series is designed as a competitive, low cost race series for conventional drive and real wheel drive vehicles specified by the organizer.

### General Specifications

The race vehicle shall be a 1976 to 1989 Chevette. Note: Chevette = Acadian = Scooter = T1000. Vehicles may be updated or backdated with original (1600cc engine) parts only and subject to the following rules.

### Engine

- All model year engine parts may be used except for the '76 and '77 1400cc crankshaft and pistons (i.e. NO FLAT TOP PISTONS)
- Original contour (OEM) camshafts only, no regrinds permitted.
- Overbore to a maximum of +0.020 inches over nominal design permitted.
- Maximum head planning of 0.010 inches permitted.
- Engine balancing is permitted, lightening of components is not. (I.e. in a balanced set of pistons, rods, caps, pins, etc., at least one part of each set of four must remain untouched.)
- No cylinder head modifications are permitted. No porting, polishing matching etc.
- Valves must retain original dimensions. No polishing or other modifications are allowed.
- All components must remain the original manufacturers position, including battery, engine etc.
- Battery must have a full metal strap retainer over the battery.*
- It is recommended that motor restrains be installed in addition to stock engine mounts to prevent excessive engine movement in the event of an impact. Restraints must not interfere with the normal engine movement as allowed by the stock motor mounts.

### Induction and Exhaust

- Stock Chevette one barrel carburetor and manifold only is permitted, no further modification allowed.
- Stock air cleaner housing must be used or no air cleaner housing at all.

-Original unmodified GM exhaust manifold and down pipe must be used. A single exhaust is free, from the firewall rearward, but the inside diameter may not exceed the outside diameter of original exhaust pipe. At least one muffler is mandatory. Exhaust must exit behind the drivers door and out from under the vehicle at the side or rear. Sound level can not exceed 95dB.

**Fuel**

Pump gasoline only designated for street use. No aviation fuels or additives are permitted.

**Ignition**

Original GM distributor and ignition system must be retained.

**Transmission**

Original 4-speed transmission only.

**Differential**

Original only, no limited slip, welded, or other modification permitted.

**Body**

- Two or four door styles allowed. No lightening or modification(no metal removal).
- Inner fenders (plastic) may be removed.
- No aerodynamic devices or modifications of any kind are permitted.
- Rear hatch is to have a key safety-wired into the lock for "quick-release" purposes; it is also strongly recommended to have a rear hatch "quick-release" from the inside of the car.

**Lights**

- Stock lighting only.
- Two high mounted taillights are mandatory and must be a minimum of 18watts (brake light brightness). These are to be mounted above the centerline of the rear hatch window.
- A third high mounted rear brake light is highly recommended.

**Bumpers**

- Original bumpers and locations must be retained. Original unmodified impact absorbers must be used.
- Bumper end caps must be installed to prevent "bumper hooking".
- Tow hooks (of reasonable size) are required and at least one must be added on the front and rear. These may not protrude beyond the bumpers, yet must remain accessible.

**Interior**

- Interior is free, stock dash should remain, the original stock passenger seat and all paneling may be removed.
- No removal, cutting, or modification of stock metal panels, braces or floorboards.

**Wheels**

Original steel wheels must be used (13x4.5inches). No alloy wheels are allowed.

**Suspension**

- Suspension and alignment must remain within original adjustment ranges. Ride height must remain within the original factory specification. All suspension parts must be OEM or dimensionally identical Chevette and may not be modified.
- Rear sway bars are not allowed.

**Ballast**

NO ballast is permitted. (No spare tires or jacks).