



2020

Autocross Event Rules

Highlands Sports Car Club Autocross Rules

Originally Approved May 2007. Amended and Approved May 2009. Amended and approved March 2019. Amended and Approved February 2020.

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1. General Rules:

- A. For matters not defined in this document, refer to the current year's SCCA SOLO Rule Book at <https://www.scca.com/pages/solo-cars-and-rules>.
- B. In the case of questions regarding safety, protests, or any issue regarding general rules the Autocross Chair and the Event Chair will be involved in the decision. They may ask for input from any participant not directly involved in the issue. If an Autocross Chair or Event Chair is involved in the issue, they will remove themselves from the discussion. Involved parties will be allowed to offer their input. If, for some reason, disciplinary action must be taken, all HSCC officers present at the time of the incident will decide upon the correct action. The officers may give the competitor a time/class position penalty or disqualify the competitor from the event, or future events.
- C. The Event Chair(s) will be responsible for making any decisions or clarifications regarding the running of their specific event. Event Chair(s), after consulting with the Autocross Chair, will determine the number of runs and whether fun runs will be done.
- D. On event set up days, only Event Chair(s) or drivers selected by Event Chair(s) may pre-run the course. An officer should conduct the pre-runs or ride along with the Event Chair doing the pre-run.
- E. No alcohol, drugs or any controlled substance may be consumed during the event, and any person under the influence of alcohol, drugs, or any controlled substance will be asked to leave. An event starts when registration opens and ends when the last run is made and the course is picked up. Additional prohibitions on tobacco use and vaping may be made on request of the hosting venue.
- F. All people present at an event must sign the insurance waiver and will be given a wrist band that must be worn for the duration of the event. This includes all participants, spectators, and crew. Participants are responsible for having their family members, crew

or friends sign the waiver. An announcement will be made by the Event Chair(s) at the driver's meeting pointing out this rule. It is the responsibility of all participants to ensure compliance with this rule.

- G. The course may be walked as many times as desired before the drivers' meeting. Only walking is allowed. This rule is intended to keep people from riding bikes or using skateboards, rollerblades, or scooters during the walk through. All Novices should participate in a course walk that will be conducted by a veteran autocrosser.

2. Eligibility of Participants

- A. Participants must have a valid driver's license at the time of the event and must be prepared to present such license during registration. Kart drivers between the ages of 12 and 16 shall be exempt from this rule. See below for the minor waiver requirement.
- B. All participants must be 18 years of age, OR if under age 18, must have a HSCC minor release form signed by a parent or legal guardian. Such form is to be presented and signed off by the President, Vice President or Autocross officer, then turned into the registrar. Minor release forms are to be kept on file with insurance waiver forms.
- C. HSCC reserves the right to refuse to allow anyone to participate if it is not possible to verify the above qualifications.
- D. Passengers under 12 years of age are not permitted to participate in any runs on course, including fun runs. Any passenger must have a valid driver's license and must have signed the waiver.

3. Safety and Car Preparation

- A. Refer to the current year's SCCA SOLO Rule Book for car classing and preparation regulations.
- B. Vehicles will be identified with car number and car class as follows:
 - a. Numbers must be a minimum of 8" high with a 1.25" stroke. Class letters must be a minimum of 4" high with a 0.75" stroke. In all cases, the height of the class letters must be between 25% and 75% of the height of the numbers. Stroke width must be at least 10% of the height.
 - b. Class shall be represented by the upper-case abbreviated form rather than be spelled out. Ladies classes shall be indicated by the letter L preceding the class letters. (Example: LBSP instead of Ladies B Street Prepared).
 - c. For full Vehicle Identification rules, refer to the current year's SCCA rule book.

- C. It is the responsibility of the driver to ensure that his/her vehicle is properly prepared and safe for competition, as well as properly identified, prior to tech inspection.
- D. Speed through the pits and grid area will be no more than a walking pace (5 MPH). No tire warming, brake warming, or other high-speed maneuvers will be allowed anywhere on the event site. Violation of these rules will be grounds for a competitor expulsion from the site.
- E. All cars must pass a technical inspection. Cars will only be inspected after the driver(s) have registered and before tech inspection closes.
 - a. Sunroofs must be securely attached to the car or completely removed from the car.
 - b. All loose objects must be removed from the car and trunk. Spare tires may be left in if secured.
 - c. Helmets and seat belts must be worn on every run by every person in the car. This includes fun runs and runs during set up days.
- F. Both driver side and passenger side windows must be down when the vehicle reaches the start line and remain in the down position until the vehicle crosses the finish line.
- G. Participants are permitted to ride as passengers in the automobile during training sessions and driving schools. Participants are permitted to ride as passengers during competition runs. All passengers must meet the requirements of section 2 above. Specifically, they must be in an automobile which has passed technical inspection; must wear seat belt and approved helmet and must have signed the waiver. A competitor may request the assistance of an Officer, or other experienced autocrosser, if they are having difficulty with the course.
- H. During runs, drivers (and passengers if applicable) must keep arms, hands, and all body parts inside the car. No handheld cameras or other devices are allowed unless secured to the vehicle.
- I. Car number and class needs to be on both sides of the car. If more than one driver, driver is responsible for reporting to the starter the correct class and number. Two driver cars must be clearly marked with a 2 in the upper right-hand corner of the windshield. Shoe polish and/or painter's tape is available on-site.
- J. Helmets: Helmets meeting the following standards must be worn while on course: All helmets meeting the current or two immediately preceding Snell Foundation standards (SA, K, or M), or SFI standards 31.1A, 31.2A, 41.1A, or 41.2A are acceptable. For maximum protection, helmets must fit securely and should provide adequate peripheral vision. The chin strap must be securely fastened. Loaner helmets are available to vehicle occupants not having their own.

4. Registration

HSCC highly encourages registering online prior to each event. Additional fees will be charged for those registering onsite. For convenience, you may also pay your registration fee online. The online site for registration will be announced at the beginning of the season.

- A. All competitors must check in at registration before registration closes. If a competitor registered and paid online, they may check-in upon arrival on the Club's iPad, or other designated device, when they sign the waiver.
- B. Competitors must be prepared to show a valid driver's license at registration check-in.
- C. A driver may only register in one car and one class for an event. In the event of a mechanical failure, another competitor's vehicle may be used to complete the driver's runs if said vehicle is legal for the driver's class. It shall be the responsibility of the drivers to inform an Officer and/or the timing staff of the change.
- D. Registration will be refused to anyone that has not signed the waiver or has an invalid driver's license.
- E. Night Series registration will close at 6:15 pm and Day Series Registration will close at 9:15 am. No onsite registrations or payments will be processed after registration closes.

5. Worker Assignments

- A. Each driver must work at the event. If a driver cannot work at the event, they must arrange to have someone work for them. Additionally, no NCAC points and/or HSCC points will be awarded to anyone who has not worked. They will be awarded a DNW (Did Not Work). Lastly, anyone who did not work an event will be refused entry into the next scheduled HSCC event and will be required to work an event without competing before being allowed entry at another HSCC event.
- B. All work assignments will be performed as while keeping the safety of all participants, workers, and spectators in mind. Workers assigned to stations on or near the course, must be attentive to their assigned work station - no cell phones, no socializing, no smoking, never turn your back to a car on course, and always wearing the supplied safety vest. Novices will be assigned a post with an experienced autocrosser and will wear a different colored vest.

6. Event Classing and Scoring

- A. Car Classification is the responsibility of the participant. Any vehicle that is protested for misclassification, in which the protest is upheld, shall receive DNF's for all runs completed at that event in the wrong class. Any car deemed misclassified by the Officers may be re-classed in its appropriate category during the results audit, rather than being awarded DNF's.
- B. Car classifications and preparation will follow the current year's SCCA SOLO Rule Book.

- C. Points are only awarded to a participant that completes at least one run. DNF's do not count as completed runs.
- D. Five cars or five minutes minimum must exist between runs. Reruns will also follow this guideline. A competitor may choose to go to the end of the line.
- E. Any cone that is no longer standing upright will count as a 2-second penalty. Any cone that is standing upright but no longer has ANY part of its base within the marked area will count as a 2-second penalty.
- F. Points for each event are awarded to drivers based on the percentage of the class winner's time and the individual driver's time. To determine the individual driver's points, the winner's time is divided by the individual driver's time and multiplied by 100. This system helps prevent ties and encourages close competition. A driver must complete at least one clean run at an event to earn points for that event. No points will be awarded if all runs are DNF (Did Not Finish) or DNS (Did Not Show). Additionally, no points will be awarded for DNW (Did Not Work).

Example: If the top time in STS is 40.123 seconds, the winners score is: $(40.123/40.123) * 100 = 100$ points. If second place's time is 42.532 seconds, then: $(40.123/42.532) * 100 = 94.34$ points. This continues until all competitors in the class are awarded points.

- G. Results for each event will be published on the Club's website (www.hscclub.com), as well as announced on the Club's Facebook page, as soon as possible following each event.

7. Classes Supported

- A. HSCC supports all official SCCA classes, including Ladies subclasses, as defined in the current year's SCCA SOLO Rule Book, unless otherwise published for a specific event.
- B. The following additional classes are supported by HSCC.
 - a. **Novice Class (N)** - Competitors are eligible for novice class if they have run three or fewer autocross events before the beginning of the autocross season. If a novice wins an open class at an autocross event, the driver is no longer eligible for novice class. Tire choice in Novice Class is open. No competitor is required to compete in Novice. Novice will be designated at "N" and the number. Novice will be scored on Raw time, or a PAX of 1.0.
 - b. **Pro Class (P)** - Pro Class is established for competitors that seek the next level of competitiveness and often compete in regional and national events. Any competitor who wishes, may choose to run in Pro Class. Class will be shown as a P then the open class designation (PAS, PSTS, PASP, PSM, etc.). Kart classes are specifically prohibited in Pro. Pro will be scored on the current year's PAX index.

7.1 Karts: Karts shall comply with the safety rules in SCCA Solo rules, regardless of age or engine type. At a minimum, HSCC requires long pants, long sleeved shirt, full face helmet, closed toed shoes, and gloves. We recommend a neck brace and full karting leathers. All karts must have a shut off switch capable of being operated by the driver and at least one brake on the rear axle.

In addition to the official SCCA kart classes KM, JC, JB and JA, HSCC supports the following supplemental Kart Classes (AKM and AK), which have no restriction on tire size or compound as long as they are 5- or 6-inch kart tires:

- A. **Adult Kart (AK)** Competitors must be at least 16 years old. Engine and chassis rules are identical to Junior Kart (JK).
- B. **Adult Kart Modified (AKM)** Competitors must be at least 16 years old, chassis rule is the same as JA and AK, except front brakes are allowed. Engine must be a 4 stroke Honda or "clone" engine not to exceed 212cc but is otherwise unlimited - forced induction and nitrous are prohibited. Shifter and gearbox motors are prohibited. Any octane of gasoline fuel (including "race gas") may be used (alcohol fuels are prohibited). A cut-off switch capable of being operated by the driver is required, and the brakes must be capable of stopping the vehicle. Full karting safety gear is recommended.
- C. **Kart Mod (KM)** The official SCCA KM class. Refer to the current SCCA Solo rules. Minimum age requirement is 15 years old to participate in KM. Previous Karting experience is recommended for teens entering this class.
- D. **Junior Class A (JA)** Ages 12-16. A low budget class intended to introduce children to the sport of autocross. Any tube frame "racing" chassis is allowed, no yard karts. Engine must be a 4 stroke Briggs and Stratton, Honda, or "Clone" engine not to exceed 212 cc. Only the following modifications are allowed: air filter, exhaust pipe, valve springs, removal of the governor, re-jetting of the carburetor, and non-adjustable flywheel. Engine must run on pump gas, including ethanol free. Chassis design must use a rear-only brake system. Refer to the current SCCA Solo rules.
- E. **Junior Class B (JB)** Ages 8-12. A low budget class intended to introduce children to the sport of autocross. Any tube frame "racing" chassis is allowed, no yard karts. Engine must be a 4 stroke Briggs and Stratton, Honda, or "Clone" engine not to exceed 212 cc. Only the following modifications are allowed: air filter, exhaust pipe, valve springs, removal of the governor, re-jetting of the carburetor, and nonadjustable flywheel. Engine must run on pump gas, including ethanol free. Chassis design must use a rear-only brake system. Other engines allowed Comer® K-80® the Rotax® Micro-Max® and the Rotax® Micro-Max® spec gearing of 14-tooth drive gear and 73-tooth axle gear is required.

For (JB) class: If using the Briggs & Stratton® Animal®/LO206®/206® the Carburetor, clutch, and exhaust as supplied with engine by manufacturer must be used. Engine must remain sealed as from manufacturer. Required Restrictor: A specific throttle slide restrictor (Briggs & Stratton® "Blue" slide, part #555734) must be installed in the carburetor.

- F. **Junior Class C (JC)** Ages 5-8. This is a Regional-only, RESTRICTED AVAILABILITY class; available by prior approval from the SCCA® National Office only.
- a. Age: 5 to 8 years
 - b. Engines
 - i. Comer® 50/51
 1. Fuel: Gasoline and oil
 2. Weight: No restriction is imposed at this time.
 3. Carburetor, exhaust, and clutch as supplied with engine from manufacturer.
 - ii. Honda GHX50
 1. Fuel: Gasoline only
 2. Weight: No restriction imposed at this time.
 3. Yellow oil alert wire must be disconnected or cut.
 4. Must comply with GXH50_Class_Rules.pdf (see SCCA® website or contact Solo® Department for details).
 - c. Chassis: "Baby Kart," "Kid Kart," and "Cadet Kart" racing-style chassis only. Intermediate- and full-sized racing chassis are inappropriate for this class regardless of any adaptation or modifications.
 - d. Tires: Maximum size for front tires is 4.60/10.0-5. Maximum size for rear tires is 5.00/11.0-5. Tire brand and compound is restricted to the MG® HZ or HZi "Red." Also, Cadet-designated tires from any manufacturer are allowed.

Emergency Kill Switch: All Formula Junior karts must have a maintained (non-momentary) emergency ignition kill switch clearly visible and easily accessible to the driver while seated and operating the kart. The ignition kill switch shall be located on the steering wheel, near the top of the Nassau panel, or on the frame between the driver and gas tank in plain view with unimpeded access. All drivers must demonstrate the ability to shut down the engine both while driving and stationary. The ignition kill switch type must be a maintained switch (retains the OFF position when released; not a momentary switch).

8. Event Operation

- A. A car that starts but is unable to complete a run due to mechanical failure or due to missing a gate, the run will be scored as a DNF (Did-Not-Finish). Once a car crosses the start line the run is officially started. Once the car crosses the finish line the run is over. (This last part seems obvious, but it is intended to clarify any situation where it is possible to hit the finish line before finishing the course. For instance, miss a turn and wind up unintentionally in the finish box.)
- B. If, during a run, a participant sees a cone out of place, he/she must bring the car safely to a stop on course and point out the cone or cones. After this is done and the corner worker acknowledges this, the participant will drive to the finish line following the course at a reduced and safe speed. The participant will be issued a re-run. This rule does not apply to a cone moved by that participant during their run (i.e. on the way out along the same part of the course they come back on).

- C. If a cone is knocked down by a competitor on the way out on a part of the course that is used again and, on their way back, has not been re-set by a corner worker because of insufficient time between the two passes of the car, no re-run will be issued. In this case, the competitor will drive the line that was originally marked by the cone. No extra cone penalty will be given if the knocked down cone is hit because it is in the line. The reason for this rule is to keep a competitor from gaining an advantage because of a knocked down cone and to protect the course workers.
- D. For a timer malfunction or other situation resulting in a re-run, the car on course should be red flagged as soon as is safe and possible. The car should proceed at reduced and safe speed to the finish line while still following the course.
- E. A car that is red flagged for a safety issue will be given a re-run. Safety should always be the prime consideration by all corner workers. If a competitor's car develops a mechanical problem that may cause a safety problem, even if the car can finish the run, they should be red flagged. Because the red flag was for a safety problem and NOT the mechanical problem, the competitor will get the re-run.
- F. Anyone damaging the timing equipment or hitting the large cones by the timing equipment will be given a DNF for that run and will be responsible for the costs of replacing/repairing the equipment.
- G. Competitors will be given a minimum of three (3) runs per heat, per event. The actual number of runs will be announced during the event's drivers meeting.

9. Season Class Championship Points

- A. HSCC will award separate class championships for events classified as Day Series events and for events classified as Night Series Events. To be eligible for either Series Class Championship, a competitor must compete in the same class a minimum of half of the events plus 1 (50% +1) in the respective Series.
- B. Membership in the Highlands Sports Car Club is required to be considered eligible for an end-of-year championship. Membership must be established for a minimum of three events and is not retroactive.
- C. Season Class Championship trophies and awards will be given out at the Club's annual banquet held in January.