



American Racing Club Competition Rules - CHRONO

REVISION 2021.3 Dated 1/30/21

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Chrono Car Classing (C0,C1,C2,C3)

**Chrono Series Only*

Intent

It is the intent of this series to provide a place where daily driven vehicles can compete in a relaxed environment, but still time themselves against their peers in similar, but not identical performance potential vehicles. **These classes will be broken up by OE published power to weight numbers as a starting point.** Adjustments can and will be made to inaccurate OE published figures, or to balance performance potential. Competitors who modify their cars beyond these numbers and/or exceed the minimum lap time for their base class will be moved up a class. (Large tire size increases, moderate engine power increases and stripped vehicles with roll cages will be combined into a single bump in class.)

ARC/NCRC reserves the right to change the rules at any time for any reason if our intent isn't met or if a vehicle isn't classed correctly.

Car Appearance and Identification

C Class cars will have numbers 10" tall on both doors, in contrasting color. C class cars will also display the provided class ID sticker on the upper driver's corner of the front windshield, as well as the rear bumper.



Conduct

A competitor will display sportsmanlike conduct in all situations. A competitor found to not be displaying sportsmanlike conduct including but not limited to, sandbagging, cheating determined by the NCRC staff and both on and off track altercations, will be disciplined by NCRC.

Disciplinary actions include but are not limited to, event disqualification, points penalties, removal from the club.

Season Points - Chrono C Class cars

Season points will be awarded for Chrono on specified events only. See the public event calendar for specified Chrono events..

1st - 100 pts	6th - 50	11th and below - continues to decrease by 5 pts
2nd - 90 pts	7th - 45	
3rd - 80 pts	8th - 40	
4th - 70 pts	9th - 35	
5th - 60 pts	10th - 30	

Classes

CO = Chrono Open, ie. "super cars" or highly modified street cars

C1 = 7:1 AND fastest lap time Laguna 1:35, Sonoma 1:45, Thunderhill/Buttonwillow 13CW 1:55*

C2 = 9.8:1 AND fastest lap time Laguna 1:41, Sonoma 1:51, Thunderhill/Buttonwillow 13CW 2:01

C3 = 13:1 AND fastest lap time Laguna 1:48, Sonoma 1:58, Thunderhill/Buttonwillow 13CW 2:08

R1 cars class to C1

R2 cars class to C2

R3 cars class to C3

*If a street car weighs more than 3,500lbs with a power to weight ratio of 8:1 to 9.79:1 AND is on a FACTORY suspension they are classed to C2.



0. Timing

- 0.1) All sessions of the day will be timed. The fastest time from all sessions will be used to determine the victor in each class.
- 0.2) MyLaps transponders will be used to record times.
- 0.3) It is a competitor's responsibility to make sure their transponder is working correctly, and if not bring it to the attention of the organizers if they have a rental.

1. Definition of a car

- 1.1) A street car is a DMV registered vehicle and cannot violate the following:
 - 1.1.1) Must have full interior from the rear of the driver's seat forward.
 - 1.1.2) May have any amount of aftermarket roll over protection, but must not violate rule(1.1.1)
 - 1.1.3) May replace both the drivers and passengers seats with aftermarket racing seats for the purposes of safety and drivers comfort. If OE safety equipment is modified, including replacing the drivers and passenger seats, we highly recommend seeking professional installation or building to modern club racing standards ie. NASA/SCCA tech guidelines.
- 1.2) A race car is a non DMV registered vehicle or have the following:
 - 1.2.1) Stripped interior.
 - 1.2.2) Full roll cage with or without chassis integrations.
- 1.3) A tube frame car is a vehicle that has custom vehicle framing.
 - 1.3.1) These vehicles must be submitted directly to ARC to be classed.
 - 1.3.2) All factory built race cars will be considered tube frame vehicles for the purposes of this document.

2. Tires

- 2.1) All C class cars must compete on a tire with a treadwear rating of 100 or above, or the OE tire as sold with the vehicle. If the vehicle comes standard with a faster tire, that will be taken into consideration when classing.
 - 2.1.1) A treadwear rating of a maximum 40 may be used, but the car will be bumped to the next higher class. (Toyo RR's are the only approved 40 treadwear tire at this time.)
- 2.2) All C class cars must compete on a tire size no more than 10mm greater than OE.
 - 2.2.1) Cars with tires more than +10mm from standard will be bumped to the next higher class.



3. Suspension

3.1) Modifications to any suspension components are unlimited, understanding that increasing the cars performance past the lap time minimum for the class will result in the car being moved up in class.

4. Bodywork and Aerodynamics

4.1) Rear wings are allowed provided they bolt to the trunk or exterior of the body, and not protrude beyond the widest part of the car.

4.2) Splitters will be limited to off the shelf, bolt on splitter “lips” or integrated splitters to an aftermarket bolt on bumper.

4.3) No other aerodynamic aids other than OE with the car are allowed.

4.4) Bodywork must be entirely OE excluding:

4.4.1) Replacement hoods of any material is allowed.

4.4.2) Replacement trunk of any material is allowed.

4.4.3) Front bumper as allowed in (4.2)

5. Engine/Drivetrain

5.1) Intake kits are allowed.

5.2) Exhaust replacements are allowed.

5.3) Flashing of the OE ECU to increase horsepower, especially on forced induction vehicles, is not encouraged. The street car classing system is meant to class vehicles by OE power to weight numbers, and provide the competitor to measure their lap times on a somewhat level playing field. Remember that lapping under the class minimum lap time will result in a class bump.

5.3.1) If a competitor wishes to flash their ECU to increase power, we recommend emailing your power figure to the Chrono series leader for car reclassing if necessary.

5.4) Engine and forced induction swaps must be confirmed with ARC for classing. Expect a minimum of a single class bump. Two class bumps may be warranted with large horsepower/torque increases.

5.5) Changing factory gear ratios to anything longer than stock is not allowed.

6. Wheels/Brakes

6.1) Wheels are free provided the tires mounted do not violate tire width rule.

6.2) Brake upgrades are free.

