

Road Rally Rules 2017

Welcome to the Cascade Sports Car Club's Road Rally Program. If you are new to the sport or the area, feel free to contact a Geargrinders road rally official for information or advice.

CSCC's time-speed-distance road rallies are conducted in accordance with these Road Rally Rules. These rules may be modified by supplemental rules specific to the event.

The object of a time-speed-distance road rally is to complete the rally route **on course** and as close to **on time** as possible. Being **on course** refers to arriving at official checkpoints having followed the route intended by the rallymaster. Being **on time** refers to arriving at official checkpoints having taken the amount of time intended by the rallymaster.

Official time – intended or allowed time – is the amount of time it takes to drive the intended route at the average speeds specified in the route instructions. The rally route is measured in thousandths of a mile from speed change to speed change. Allowed time is computed to the nearest hundredth of a minute.

Each hundredth of a minute that you arrive early or late on each leg is worth one **penalty point**. A perfect leg score is **zero**, arriving exactly on time. The maximum number of penalty points for any one leg is 300. If you are three or more minutes early or late on any leg, your score for that leg is 300.

To learn more about Cascade Sports Car Club's activities visit: www.cascadesportscarclub.org

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1 Procedures

1.1 Registration and Starting

Locate the registrar. Get a registration packet and complete the registration process.

- The driver must have a valid driver's license and carry minimum insurance coverage(s) as required in the state where the vehicle is registered.
- The driver must read and complete the vehicle selfinspection portion of the registration form in its entirety and sign where indicated.
- Return the completed form and entry fee to the registrar. The registrar or Geargrinders Chair may ask for current evidence of CSCC membership to grant member pricing.
- All participants (drivers, navigators, and passengers) must sign the ICSCC Insurance Liability Waiver form available at registration. Participants under the age of 18 must present a parent or legal guardian to the Geargrinders Chair who will witness the signing of the minor release form.
- Failure to follow these mandatory registration guidelines can severely compromise our sport. This may lead to disqualification and/or exclusion from any and all Cascade Sports Car Club events.

The registrar will give you a car number, a score card, and route instructions.

Note the appearance of the official checkpoint, route control, or course marker signs displayed near the registrar.

Set your timepiece(s) to official time at the official time station located near the registrar. Start times are in one-minute increments based on car number. Attend the informational meeting approximately fifteen minutes before the first car is due out.

No later than your assigned start time, leave the out marker at the starting point by following the route instructions.

1.2 Odometer Calibration

Each event includes after its start a clearly defined odometer calibration zone for the purpose of allowing each contestant's odometer to be compared to the official odometer. The odometer calibration zone is at least ten (10) miles long and contains intermediate mileage reference points. The odometer calibration zone is free of checkpoints and route controls.

1.3 Checkpoints

Stop at each checkpoint you encounter, as identified by an official checkpoint sign at the right side of the road on which you are traveling.

- Pull up to the control station beyond the checkpoint sign. Do not get out of line and do not leave your vehicle unless requested to do so by a rally official.
- Give your scorecard and time declarations, if any, to the control station.
- The control station will return your scorecard and time declarations, if any, indicating your End leg time (in time) and Start leg time (out time). You may receive supplemental instructions.
- After receiving all information, proceed out to the out marker and time yourself out by your own timepiece.

1.4 Route Controls

Stop at each route control you encounter, as identified by an official route control sign on the right side of the road on which you are traveling.

- Pull up to the control station beyond the route control sign. Do not get out of line and do not leave your vehicle unless requested to do so by a rally official.
- Give your scorecard to the control station.
- The control station will return your scorecard. You will receive a PAUSE for the time spent stopping at the control and you may receive supplemental instructions which must be executed prior to resuming the numbered route instructions.

1.5 Blocking a Control

Safety at rally control locations is of utmost importance. When identifying and approaching a control, you may not block the entrance of the control by stopping in the roadway, unless you are legally obligated to do so. If a contestant is observed stopping in front of the control they are entering, they will be assessed a maximum leg score (300) and must immediately proceed to the control station.

1.6 Drive Safely

Contestants must obey all traffic laws and drive in a safe manner throughout the event. Contestants observed driving recklessly or in a manner which may imperil the safety of occupants of their own vehicle, other participants, or the public will be subject to disqualification from the event in progress and may be refused entry to subsequent event(s). Any contestant cited by a recognized law enforcement agency for a moving violation during the event will be automatically disqualified.

1.7 Time Declarations

To avoid speeding to make up lost time, contestants may make a declaration of time loss. A time declaration must be requested on the half-minute and cannot be claimed in even minutes (e.g., 0.50, 1.50, 2.50, etc.). Only one time declaration may be claimed for each leg. The time declaration must be submitted in writing at the next manned checkpoint prior to receipt of perfect leg time. Combined time declarations may not exceed a total of 19.50 minutes per event. The Geargrinders Chair has final authority on acceptance of submitted time declarations.

1.8 Scorecard

At the finish, turn in your completed scorecard. The Geargrinders Chair has final Authority on all decisions affecting how the event is scored. If the Geargrinders Chair is a competitor, then the Rallymaster Liaison shall arbitrate scoring decisions.

2 Rally Route

2.1 Rally Route

To follow the intended rally route, proceed by taking the following actions in the order listed:

- Execute emergency directions provided by a rally official.
- Execute a supplemental route instruction provided at a control.
- Execute a note route instruction.
- Execute a numbered route instruction.
- Follow the main road.

2.2 Rally Roads

A rally road is a public through road. Unless otherwise directed, a rally road may be paved or unpaved. Unless specifically described in the route instruction (i.e., you may use this dead end road), do not consider the following as valid rally roads.

- Roads marked "PRIVATE", "KEEP OUT", "NO OUTLET", "DEAD END", "ROAD CLOSED", "NO THROUGH TRAFFIC", etc.
- Roads that are visibly barricaded or impassable.
- Cul-de-sacs that visibly dead-end.
- Roads that visibly dead-end.
- Roads having illegal entry.
- Roads requiring an illegal turn to enter.

2.3 Intersections

An intersection is any joining of rally roads from which the contestant could legally proceed in more than one direction without U-Turning.

A roundabout is a joining of rally roads where traffic travels counterclockwise around a central island. Traffic enters the roundabout without deviation. Once in the roundabout, the main road continues around the roundabout by PRO-TECTION since all deviations from the circular route are protected by yield signs. If placed ONTO a road by name or number or TOWARD a landmark, the main road is the road exiting the roundabout as so identified by a sign. Exiting a roundabout on the same road where the roundabout was entered is a legal deviation and is not considered a u-turn.

2.4 U-turns

No uninstructed U-turn(s) will be necessary to follow the rally route.

2.5 Course Markers

The club initials "CSCC" identify all course markers.

- On-course markers are bright green.
- Off-course markers are bright orange.
- Course correction markers are on-course markers upon which a route instruction number is written; execute that numbered route instruction at that location and continue in numerical order from that point on.
- Roads posted with an off-course marker upon which "DNE" is written; do not consider such a road as a valid rally road.

3 Main Road Determinants (MRDs)

A main road exists at every intersection and is identified by applying the MRDs below. For an MRD to apply, it must identify a single road leaving the intersection other than the one upon which the intersection was approached. To determine that single road leaving the intersection, apply the MRDs in the order listed below. If attempting to apply an MRD results in no choice or more than one choice, go on to the next MRD.

3.1 ONTO

The main road is the road that the execution of a route instruction has directed the contestant to travel upon by use of: (1) the terms ONTO or FOLLOW and (2) the designation (name, number, or letter(s)) of the road as identified by a sign. The designated road is the main road at each intersection where this MRD applies until a deviation not labeled MBCU (requiring the contestant to leave the main road) is executed. In the absence of the term "consider yourself", a route instruction directing the contestant to travel upon a designated road can only be executed when the instruction places the contestant upon the designated road.

3.2 TOWARD

The main road is the road that the execution of a route instruction has directed the contestant to travel in the direction of a landmark by use of (1) the term TOWARD and (2) the designation (name, number, or letter(s)) of the landmark. Follow signs in the direction of the landmark at each intersection where this MRD applies until a deviation not labeled MBCU (requiring the contestant to leave the main road) is executed.

In the absence of the term "consider yourself", a route instruction directing the contestant to travel in the direction of a landmark can only be executed when the route instruction places the contestant upon a route in the direction of the landmark as indicated by a sign.

3.3 PROTECTION

The main road is the single road which leaves the intersection without a back-facing stop or yield sign on it at the intersection.

3.4 SURFACE

The main road is the obvious continuation beyond an intersection of the road with the same type of surface as that which you approached the intersection on. Only a paved versus unpaved distinction will be made.

3.5 STRAIGHT AS POSSIBLE

The main road is that single road which continues through the intersection in the straightest route. If the routes appear to be equally straight, or no route requires less than a 45 degree course change, this MRD does not apply.

3.6 LEFTMOST

The main road is the leftmost road leaving the intersection.

4 Route Instructions

4.1 Types of Route Instructions

There are three types of route instructions:

- Numbered Complete the Numbered Route Instructions (NRIs) in ascending numerical order. An NRI is active (available to be initiated) when all parts of the preceding NRI have been completed. Initiate (begin) an NRI when you reach its first reference point.
- Note Notes are unnumbered route instructions. A note is active from its introduction until cancelled. A note may be executed once, more than once, or never. Action must be taken as directed each time the appropriate action point is encountered. Notes supersede but do not cancel NRIs. Notes are independent of and may overlap NRIs. Canceling a note does not cancel its associated speed.
- Supplemental Supplemental route instructions are usually provided at checkpoints and route controls. Complete all the supplemental route instructions in the order presented (usually alphanumerically) before resuming the NRIs.

When a route instruction consists of multiple actions, each action is to be executed in the order given, at the first opportunity. A route instruction is complete when all parts of the instruction have been completed. Route instructions can refer to other route instructions, reference points, or action points.

4.2 Action Points

An action point is the location where a route instruction is executed. An action point can be any of the following:

- An intersection where the route instruction directs you off the main road.
- An intersection where a route instruction with official mileage directs you to follow the main road.
- An intersection where a route instruction labeled MBCU directs you to follow the main road.
- The indicated point, distance, or duration where no change of direction is specified in the route instruction.

4.3 Reference Points

A reference point is accompanied by an official mileage, has an identifying sign, or is defined in the glossary of these Road Rally Rules or the glossary of the event's supplemental rules. A reference point marking the beginning of a route instruction will occur at a mileage greater than the mileage of the action point marking the end of the previous route instruction. Route instructions labeled API may reference the action point of a previous instruction.

4.4 Landmarks

A Landmark is a physical object identified by a sign. A landmark is identified in route instructions in upper case (all capital letters) not in quotation marks ("") and is not a term defined in the Glossary.

4.5 Deviations

A deviation is a change in course off the main road. L, LEFT, R, RIGHT, S, STRAIGHT, and TURN are deviations. Route instructions may contain more than one deviation.

4.6 Official Mileage (OM)

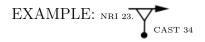
Route instructions that are accompanied by OM must be executed at that mileage provided that:

- The reference is correct and
- An appropriate action point exists

Deviations referenced by an OM may be executed to follow the main road. Contestants will not be required to determine OM to greater precision than 0.1 (one-tenth) mile in order to determine the rally route.

4.7 Alpines

An alpine is a diagram drawn to represent an intersection or group of intersections as closely as possible. The dot in the alpine represents the road on which the contestant enters the intersection(s) and an arrowhead indicates the road on which the contestant leaves. If more than one legal route exists, take the shortest legal route through the intersection(s). A speed change associated with an alpine instruction is executed as you enter the first intersection in the diagram. Alpines are not subject to the MRDs (see Section 3 on page 6).



4.8 Speed Changes

Speed changes that occur at an intersection are executed as you enter the intersection. Speed changes that occur at a reference are executed as you pass by and are even with the reference. When a speed change is to be done for a specified time or distance, you revert to the previous speed after the specified time or distance.

4.9 Comments

Text within parentheses (()) is to be considered clarifying comments. Any action suggested within parentheses, while probably helpful, is not mandatory.

Example: 25. L at STOP. (Use caution, traffic does not stop.)

5 Signs

5.1

A sign is any object on which is written, printed, painted, embossed, inscribed, or otherwise marked words, letters, numbers, and/or symbols. House numbers, utility pole identification letters and/or numbers, mail boxes and newspaper boxes, graffiti and signs of a temporary nature such as political posters, and signs on vehicles will not be used.

5.2

A sign is identified in route instructions in upper case (all capital letters), numbers or symbols enclosed in quotation marks (""). When quoted, a sign will be exact with respect to spelling, punctuation, detail, and shape of symbols as close as graphically reasonable.

5.3

All or any prominent part of a sign may be quoted; however, no intervening words, letters, or numerals or symbols will be skipped, split, combined, or reordered. Hyphens and dashes are considered integral parts of words, letters, and numerals. A sign is read from left to right, top to bottom, or in the sequence presented on the sign.

$\mathbf{5.4}$

A sign used as a reference may be on the left, right, or overhead, approximately parallel to your line of travel, approximately facing you, or at any angle in between.

5.5

A speed control sign will be used only when the sign controls the legal speed limit of the road you are currently travelling upon.

6 Glossary

The words and abbreviations listed below when used in route instructions have only the following definitions when they appear in upper case (all capital letters) and not in quotation marks (""). All words in route instructions appearing in lower case are understood to mean the common dictionary definition.

6.1 AFTER

The first intersection beyond the referenced sign or landmark at which the instruction could be executed.

6.2 API

After previous NRI; at the indicated point beyond completion of the previous NRI.

6.3 BEFORE

The last intersection prior to and in sight of the referenced sign or landmark at which the instruction could be executed.

6.4 BLINKER

An intersection controlled by a conventional traffic caution or stop blinker(s), capable of operating as blinker(s) only. May be off.

6.5 CAST

Change average speed to.

6.6 CROSSROAD

A crossing of two legal rally roads. A CROSSROAD is an intersection and the roads may cross at any angle.

6.7 CSD

Change average speed down by the amount indicated.

6.8 CSU

Change average speed up by the amount indicated.

6.9 DIYC

Do It Yourself Checkpoint. Upon encountering the DIYC reference, record your exact arrival time to the hundredth of a minute as your End Leg time on your scorecard. (Use the seconds to hundredths conversion table in appendix 7.5 on page 22.) Record your next Start Leg time as exactly two (2.00) minutes after your End leg time. Use your timepiece to time yourself out from the DIYC checkpoint.

6.10 FOLLOW

See Section 3.1 on page 6.

6.11 GAIN

To make up a specified time during a specified or implied distance. The distance over which a GAIN is operative is free of checkpoints and route controls. The GAIN time is subtracted in the leg time calculations.

6.12 ITIS

If there is such. Execute an ITIS instruction only if you encounter its action point before you come to the action point of the next (by number) NRI. Otherwise, skip the ITIS instruction and consider it completed.

6.13 L, LEFT

Leftmost deviation of any angle off the main road.

6.14 MBCU

May be considered unnecessary. A deviation labeled MBCU may be executed to follow the main road.

6.15 OBSERVE

To visually note and pass a sign or landmark.

6.16 ONTO

See Section 3.1 on page 6.

6.17 OPP

Opportunity. A possible deviation in the direction indicated, that is paved and/or is named or numbered as indicated by sign(s) at the intersection.

6.18 OR

Complete an OR instruction by executing one-half of the given instruction, but not both, separated by the term OR. The reference point of the two possibilities which is located first determines which half of the OR instruction is to be executed. If both possibilities of an OR instruction have the same reference point, execution is determined by the action point which is located first.

6.19 PAUSE

To pause for a specified time. The PAUSE time is added in the leg time calculations.

6.20 R, RIGHT

Rightmost deviation of any angle off the main road.

6.21 S, STRAIGHT

The straightest deviation off the main road within 45 degrees of straight ahead.

6.22 SIDEROAD

An intersection at which the contestant can TURN in only one direction.

6.23 SIGNAL

An intersection controlled by multi-light traffic signal(s) which may be operating as blinker(s) or may be off.

6.24 SOL

Sign must be on left. May not always be given.

6.25 STOP

An intersection with an official highway stop sign at which the contestant is legally required to stop.

6.26 T

An intersection having the shape of the letter \mathbf{T} as approached from the base. It is not possible to execute the instruction S or the instruction STRAIGHT at a T.

6.27 TOWARD

See Section 3.2 on page 7.

6.28 TRANSIT

A part of the rally in which no checkpoints or route controls are located and for which there is no stated average speed. Route instructions apply, but you may leave the route for rest or refueling stops. The TRANSIT time is added in the leg time calculations.

6.29 TURN

A deviation from the main road in the only direction possible. A TURN instruction cannot be executed if an instruction to go straight (S, STRAIGHT) would take the contestant on the same route.

6.30 Y

An intersection having the shape of the letter \mathbf{Y} as approached from the base. It is not possible to execute either the instruction S or the instruction STRAIGHT at a Y.

6.31 YIELD

An intersection with an official highway yield sign at which the contestant is legally required to yield.

7 Appendix

7.1 Competition Classes

Competitive classes are divided into two categories, defined by the type of equipment allowed:

7.1.1 Unequipped

Only pen, paper, timepiece(s) and stock odometer permitted. No calculation equipment allowed (including average mph display). Three classes compete in this category:

Novice – This class is intended for beginners only.

- **SOP** (Seat of Pants) This class is intended for intermediate level competitors.
- Masters This class is intended for experienced competitors.

7.1.2 Equipped

Navigational and calculation equipment is permitted as described below in the two classes that compete in this category:

Limited – Navigational and calculation equipment is permitted in this class provided that such equipment does not receive a direct input from any distance-measuring device interfaced with the vehicle. All inputs for mileage must be made manually. Calculators, personal computers, external odometers, average MPH display, and GPS units are permitted in this class. **Unlimited** – As its name implies, this class is not limited in any way. Any contestant may compete in this class, regardless of equipment in use.

Unequipped Equipped Driver Year Driver Navigator Navigator Steven Smith John Masterman Kevin Poirier 2016 Chris Hale John Lehman Mitchell Mlinar Kevin Poirier Chris Hale 20152014Blake Harer Brandon Harer Kevin Poirier Chris Hale 2013 Tracy Ringering Kevin Poirier Simon Levear Chris Hale 2012 Larry Anson Fran Hanchek Brandon Harer Chris Hale 2011 Brandon Harer Marcus Gattman April Song Marcus Song 2010 Larry LeFebvre tie: Rick Vonk / Kevin Poirier Chris Hale Jill Zurschmeide 2009 Steven Smith John Masterman April Smith Marcus Song 2008 Jeff Zurschmeide Jill Zurschmeide April Smith Marcus Song Marcus Gattman Marcus Song Matt Tabor 2007April Smith Monte Saager 2006 Jeff Zurschmeide Jill Zurschmeide Victoria Saager 2005 Jeff Zurschmeide Jill Zurschmeide Brandon Harer Marcus Song 2004Jill Zurschmeide Jeff Zurschmeide April Smith Ben Bradley Victoria Saager Matt Tabor Marcus Gattman 2003Monte Saager 2002 John Tabor Darlene Tabor Monte Saager Victoria Saager 2001 Brandon Harer Jennifer McGrew Russ Kraushaar Katy Wood

7.2 Friday Nighter Rally Series Champions

7.3 Championship Points Policy

7.3.1 Friday Nighter Series Trophies

Season trophies are awarded to the drivers and navigators who accumulate the most points during the Friday Nighter Series, as follows:

- Unequipped: First, Second, and Third Place
- Equipped: First, Second, and Third Place

Points are awarded at each Friday Nighter based on a competitor's overall placement within their category of competition (unequipped or equipped). Unequipped includes SOP and Masters only Novice entries do not count toward season points.¹ Unequipped competitors earn 25 points for finishing first, 24 for second, 23 for third, etc. Equipped competitors earn points similarly, but first place receives 10 points, 9 for second, 8 for third, and so on. Season ties shall not be broken. For all trophies except the perpetual cups, duplicate place trophies will be awarded. For the perpetual cup, both winners' names will be engraved on the cup, and the winners shall share possession of the cup during the year.

7.3.2 CSCC Championship Trophies

Season trophies are awarded to the drivers and navigators who meet the eligibility requirements described below. Award is based on the points standings described above, as follows:

- Unequipped: First Place
- Equipped: First Place

To be eligible, the competitor must be a Cascade member at the time of the event for which championship points are earned. In addition, the competitor must accumulate at least 10 CSCC worker points (20 volunteer hours) or served as a rallymaster during the season. Contact the Geargrinders Chair or CSCC Pointskeeper for more information about worker points.

7.3.3 Event Tie Breaker Priority

In case of a tie, for the purpose of awarding event trophies, the tie is resolved as follows:

• a) Most zeros

¹Novice competitors may be provided with special route instructions that provide significant course-following tips and rule explanations. Thus, it is recommended that teams remain in Novice class only until they have a good working knowledge of the rules. It is to their advantage to move up to the SOP class so they can earn Series Points. Three podium finishes in the Novice class indicates a good working knowledge of the rules.

- b) Most ones
- c) Sum of squares

7.4 Time-Speed-Distance Formulas

7.4.1 Odometer Correction Factor

Odometer correction factor = Your odometer Miles / Official miles Corrected Speed = CAST X Odometer correction factor

If your odometer miles are less than Official miles, you must drive slower. If your odo is greater than Official, you must drive faster to stay on time.

7.4.2 TSD Timekeeping

Use the following formula to calculate precisely how long it should take to travel a specific distance at a specific average speed.

Time = (60 X Distance) / Speed

Example: CAST 30 next 2 miles

Time = (60 X 2) / 30 = 4 minutes

7.4.3 Gaining Time

Use the following formula to calculate what your average speed should be to complete a GAIN.

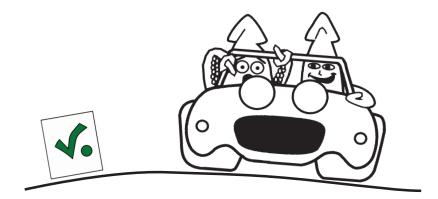
Speed = 60 / ((**Time** at stated CAST - GAIN time) / **Distance**)

Example: CAST 30, then GAIN 1 minute next 2 miles

Speed = 60 / ((4 - 1) / 2) = 40 mph

Seconds to Hundredths	Seconds to Hundredths	Seconds to Hundredths
:01 = 0.01	:21 = 0.35	:41 = 0.68
:02 = 0.03	:22 = 0.36	:42 = 0.70
:03 = 0.05	:23 = 0.38	:43 = 0.71
:04 = 0.06	:24 = 0.40	:44 = 0.73
:05 = 0.08	:25 = 0.41	:45 = 0.75
:06 = 0.10	:26 = 0.43	:46 = 0.76
:07 = 0.11	:27 = 0.45	:47 = 0.78
:08 = 0.13	:28 = 0.46	:48 = 0.80
:09 = 0.15	:29 = 0.48	:49 = 0.81
:10 = 0.16	:30 = 0.50	:50 = 0.83
:11 = 0.18	:31 = 0.51	:51 = 0.85
:12 = 0.20	:32 = 0.53	:52 = 0.86
:13 = 0.21	:33 = 0.55	:53 = 0.88
:14 = 0.23	:34 = 0.56	:54 = 0.90
:15 = 0.25	:35 = 0.58	:55 = 0.91
:16 = 0.26	:36 = 0.60	:56 = 0.93
:17 = 0.28	:37 = 0.61	:57 = 0.95
:18 = 0.30	:38 = 0.63	:58 = 0.96
:19 = 0.31	:39 = 0.65	:59 = 0.98
:20 = 0.33	:40 = 0.66	:60 = 1.00

7.5 Seconds to Hundredths Conversion



Cascade Sports Car Club proudly presents: The 2015 Friday Night Rally Series

Just bring a navigator and a street-legal vehicle!

March 6	Registration opens at 6:00 p.m.	
April 3	Driver's meeting at 6:45 p.m.	
May 1	First car out: 7:01 p.m.	
June 12 July 10	Competition classes: Novice, Seat of Pants (SOP) Masters, Limited/Equipped and Unlimited	
August 7 September 11	Only \$20 per car; \$15 for club members – Club membership available at registration.	
Start location:	Lowe's parking lot, 13631 SE Johnson I Just west of I-205 from exit 13 at Hwy 224 & Jo	
Info/contact:	Road Rally Rules, results, forms and more available online: Join our up-to-date info – www.groups.yahoo.com – search for "Geargrinder contact Geargrinders chairman Brandon Harer at brandonharer(This year we also celebrate the 50 th anniversary of everybody's f	rs". You can also ⊉comcast.net avorite event:
	Mountains to the Sea on August 15 th . Stay tuned for more in	formation.