



## Cascade Sports Car Club's 59th Mountains to the Sea

Bonus Rally Weekend  
Sept. 21-22, 2024



## General Information and Road Rally Rules

Welcome to the Cascade Sports Car Club's 59th Mountains to the Sea Road Rally with an added Bonus Rally on Sunday.

These events are conducted in accordance with the most recent version of this document as posted on the event website. <http://www.cascadegeargrinders.org/Mountains-to-the-Sea.html>

### Format

These are time-speed-distance tour-style road rallies exploring less traveled paved roads between Portland and the Coast. The rally routes are easy to follow. Route instructions are accompanied by mileage. Speeds are set at or below legal speed limits. Pauses are provided where cross traffic or congestion may occur.

### Registration and Check In

Online registration is required to enter.  
Registration closes midnight Wednesday,  
Sept. 18. <http://msreg.com/CSCC24M2C>

Entry requires a street-legal vehicle, a licensed and insured driver, a navigator, and a cell phone or tablet running the [Competitor Richta GPS Checkpoints](#) app (app is free).

All communication about the rally occurs via email. Watch for emails and respond promptly.

Early Thursday, entrants receive their car number assignment (start time) and instructions to complete virtual check-in on Thursday: register your car number in the Richta app, e-sign the required event insurance waivers, and confirm your team's registration information.

Route instructions are distributed early on Friday. You need to print them.

Attend the Friday evening Q&A Zoom meeting to ask questions and speak to the rallymasters.

### Schedule

#### Sept. 18, Wednesday

Registration closes: midnight

#### Sept. 19, Thursday

Virtual check in

#### Sept. 20, Friday

Route Instructions distributed  
Q&A Zoom meeting: 7 p.m.

#### Sept. 21, Saturday

Start location: Milwaukie Lowe's  
Car numbers and dash plaques: 9:45 am  
First car out: 10:01 am  
First car arrives at lunch: 12:30 pm approx.  
First car finishes: 4:30 pm approx.  
Results announced: 6 pm approx.  
End location: Seaside Mo's

#### Sept. 22, Sunday

Start location: Seaside Hi-Tide Inn  
First car out: 10:01 am  
First car finishes: 1:30 pm approx.  
Results announced: 2 pm approx.  
End location: Rainier El Tapatio's

## Competition Classes

Contestants may register to compete in one of four classes. Competitive classes are divided into two categories, defined by the type of equipment allowed:

Unequipped – Stock odometer and stock in-dash navigational display permitted.

No calculation equipment allowed.

Two classes compete in this category:

- **Novice** – This class is intended for beginners
- **SOP** (Seat of Pants)

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

- **GPS** – Distance measurement is provided by a GPS source. The GPS source may connect to a calculation device.
- **Unlimited** – This class is not limited in any way. Any contestant may compete in this class, regardless of equipment in use.

## Time

Timing is in hours, minutes and seconds. Time is shown in the route instructions and in the Richta app in 24-hour format. For example, 1:25 pm is shown as 13:25:00. Time displayed on the Rally Clock on your Richta app is official time.

## Mileage Measurements

Both rallies were measured by a 2024 Kia EV6 using an Alfa-Elite Rally Computer. The rally routes are measured in thousandths of a mile.

## Odometer Calibration

Each rally starts with an odometer calibration for the purpose of allowing each team's odometer to be compared to the official odometer. The odometer calibration TRANSIT specifies no average speeds, contains no controls, and is followed by a CZT (Car Zero Time, time-of-day restart).

## Scoring

The object of a time-speed-distance road rally is to drive the rally route as close to on time as possible, arriving at checkpoints having taken the amount of time calculated by the rallymaster (official leg times). Official leg times are calculated to the exact second.

Each rally consists of many timed legs. Each leg is timed and scored independently. If you are late, you cannot make it up on the next leg by being early. Your leg time is calculated from your most recent time-of-day restart to your checkpoint arrival time or from your previous checkpoint arrival time to your current checkpoint arrival time. Your leg time is compared to the official leg time.

Each second that you arrive early or late at a checkpoint 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 30. If you are more than half a minute early or late on any leg, your score for that leg is 30.

On Saturday's rally, the final Monte Carlo section begins with a CZT and ends with a checkpoint. No average speed is specified. You must arrive at the final checkpoint within your scheduled minute to get a score of zero. For example, Car Zero is supposed to arrive at the final checkpoint at 4:30:00. As long as they arrive at any time from 4:30:00 to 4:30:59, their leg score is zero. If they arrive before 4:30:00 or after 4:30:59, their Monte Carlo leg score is 30.

Your score for the rally is the total of all your leg scores. Lowest score wins! The top three teams in each competition class are recognized and awarded prizes. (GPS and Unlimited are combined as Equipped.)

## Checkpoints

Both Mountains to the Sea and the Bonus Rally use unmanned checkpoints, timed by the Competitor Richta GPS Checkpoints app. The Richta app records your arrival time at each checkpoint.

Checkpoints are indicated in the route instructions. You will know there is a checkpoint between two numbered route instructions, but you won't know precisely where. Checkpoints are not physically identified by a sign, except on the Saturday rally the final Monte Carlo checkpoint will display a sign.

Moments after you pass a checkpoint, your smart device will sound a notification tone or announce your arrival time and display your leg score and whether you were early or late. Your arrival time is your start time for the next leg, so do not stop -- continue rallying on time.

There are no checkpoints for one mile after each CZT (time-of-day restart).

## Time Allowance

If you are delayed along the rally route for any reason, you may submit a time allowance.

If you are not able to follow the course at specified speeds or if you find yourself trying to occupy the same point in space as another vehicle, find a safe place to pull over and take a time allowance. There is no penalty for using a time allowance.

See the [Richta app instructions](#) for how to enter a time allowance in the app. To calculate how much time allowance you need, see page 2 of the [March 2022 Geargrinders News](#).

## Safety

Do not tailgate; do not pass in no passing zones or in other unsafe situations. Contestants must obey all traffic laws and drive in a safe manner throughout the event. The penalty for receiving a traffic citation or being observed driving recklessly during the rally is disqualification.

Speeds are brisk in some sections. There is construction in some areas. Some roads are rough. Striping may not be present and shoulder edges may drop off. Some intersections are busy and you may have to wait for traffic to clear before proceeding. Bicycles, pedestrians and wildlife may be in the roadway. For all these reasons, use caution. Safety first. Use time allowances as needed.

When approaching or passing a person riding, leading or herding livestock on the road, use caution and yield right of way. If the person riding or leading livestock gives a distress signal by raising a hand, you must promptly stop, unless movement is necessary to avoid an accident and, if requested, turn off the engine until the livestock is under control. (ORS 811.510)



## Following the Rally Route

### 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 - as special message in Richta app.
- Execute a numbered route instruction.
- Stay on the principal road.

## **Numbered Route Instructions (NRIs)**

The numbered route instructions contain all the information required to complete the rally. No supplemental instructions will be provided during the event.

Exception: In case of unanticipated emergency, directions may be broadcast by a rally official as a special message in the Richta app.

Complete the NRIs in ascending numerical order at the indicated official mileage.

In an NRI, text within parentheses (()) is to be considered a helpful comment, not a mandatory action.

## **Principal Road**

The principal road is the obvious continuation through an intersection of the road upon which you are traveling. At some intersections this principal road may be determined by pavement surface continuity, a curve warning sign, the center line on the pavement, the placement of a stop or yield sign, the continuation of multiple lanes in your direction of travel (such as when you are upon a limited access highway), straight as possible, etc.

If the principal road is not obvious, a route instruction will be provided.

## **Rally Roads**

A rally road is a public through road. A rally road is paved. Unless specifically mentioned in a route instruction, do not consider the following as valid rally roads:

- Roads posted “NO OUTLET”, “DEAD END”, “ROAD CLOSED”, “NO THROUGH TRAFFIC”, etc.
- Roads that are visibly barricaded or impassable.
- Roads and cul-de-sacs that visibly dead-end.
- Roads having illegal entry or requiring an illegal turn to enter.
- Unpaved roads.

## **Intersections**

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

## **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.

## **Official Mileage (OM)**

Numbered route instructions are accompanied by official mileage (OM) and must be executed at that mileage. Zero your odometer at the start of the rally and whenever instructed to in the route instructions (e.g., /0.00).

## **Speed Changes**

Speed changes occur at the official mileage (OM) of the numbered route instruction (NRI). Speed changes that occur at a sign were measured as you pass by and are even with the sign. Speed changes at an intersection were measured as you enter the intersection. Speed changes that occur at a speed limit

sign occur at the regulatory black-on-white rectangular speed limit sign, not at the yellow diamond speed-zone-ahead sign.

## Signs

A sign is any object on which is written, printed, painted, embossed, inscribed, or otherwise marked words, letters, numbers, and/or symbols. A sign is identified in route instructions in upper case (all capital letters) and 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.

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.

## 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.

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

**CAST** – Change average speed to.

**CP** – Checkpoint. Example: CP4 (the numeral identifies the control in the Richta app)

**CZT** – Car Zero Time. Time of day restart. Execute the accompanying route instruction at the Car Zero Time plus your car number in minutes.

**L** – Left at an intersection.

**OPP** – Opportunity, a named or numbered rally road at which you can perform the specified action.

**PAUSE** – To pause for a specified time. The pause time is included in the leg time calculations.

**R** – Right at an intersection.

**S** – Straight at an intersection.

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

**SOL** – Sign on left.

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

**TC** – Time Check. The Richta app displays the time at which you arrived at this non-scored control.

**TRANSIT** – A part of the rally which specifies no average speeds, contains no controls, and has a specified duration (e.g., 10 minutes) or ends with a CZT. The specified TRANSIT duration time is included in the leg time calculations when the TRANSIT does not end with a CZT.

## Information About the Rallies for Participants

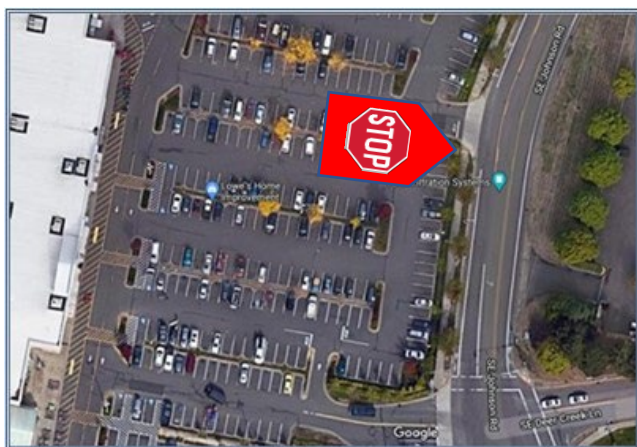
### Saturday, Sept. 21, Mountains to the Sea Rally

Rallymasters for this event are Torm Kelsey-Green and Kasey Klaus (Car 13). The rally was pre-checked by the rallymasters and by the teams of Monte and Victoria Saager and Bob Morsebug and Cheri Eddy.

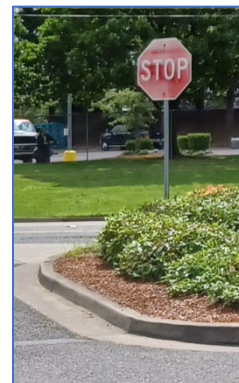
The rally consists of about 40 timed legs, the route is about 170 miles, and it takes about six and a half hours to complete.

#### Start

Before the rally, print out these [M2C Road Rally Rules](#) and the route instructions. Bring them to the start. It may also be helpful to have a printed copy of the [Richta App Instructions](#).



Rally officials will meet with rally teams **at 9:45 a.m., Saturday, Sept. 21**, at the northeast corner of Milwaukie Lowe's parking lot, [13631 SE Johnson Rd, Milwaukie, OR 97222](#).



Plan to arrive at the start a few minutes before the meeting time. Rally officials will distribute window cling car numbers and event dash plaques. They will also make any last-minute announcements.

When you get to the start, turn on your Richta app and make sure it is running. You can wait in the parking lot with other rally cars getting ready to start the rally. Do not block the parking lot entrance/exit.

The first car begins the rally at 10:01 am. Your out time is 10 am plus your car number. If you are car 5, your out time is 10:05. You may leave the start location before your out time. Leave the start no later than your out time.

The start location is the stop sign at the northeast exit from the Milwaukie Lowe's parking lot. That stop sign is where you start the rally by zeroing your trip meter and executing the first numbered route instruction, NRI 1, by going right to exit the parking lot. Then continue executing the NRIs in numerical order.



#### End Odometer Calibration

The odometer calibration ends at the Graham Oaks Nature Park at the trailhead sign on your left just inside the entrance to the parking lot. Wait any remaining time in the parking lot. There is a restroom. As your restart time approaches, return to the park entrance. Remember to zero your trip meter. Execute NRI 16 at your restart time to exit the park.







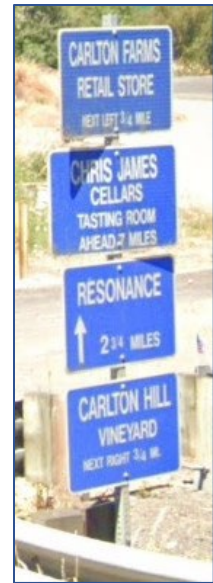
### Morning Break

The morning break is a transit through Carlton. It takes about four minutes to drive this 1.5-mile transit. You should have about 20 minutes to complete this transit.

Ladd Park at NRI 36 has restrooms; there is parking on the other side of the block.

Additionally, there is a parking lot with access to cafes/coffee shops where snacks may be obtained, and restrooms are available. Turn right at the first blinker (NRI 35) and the parking lot is on your left.

The break ends at a CZT restart at a sign reading Carlton Farms Retail Store (NRI 38). Pull up to the sign and zero your trip meter. There is room to wait out extra time just beyond the sign. Do not block the restart location. Leave at your restart time.



### Lunch

Lunch is on your own at the Outpost on the River (NRI 47). This small, remote café has a restroom, indoor and outside seating, wonderful staff, generous servings, and great food.



A menu will be provided before the rally. To expedite service, you can call in your order. You are about an hour from lunch when you are in Carlton for morning break. You'll have about 55 minutes for lunch.

The entrance to the diner is on a gravel road posted as dead end. Ignore both the gravel surface and the dead end sign. The distance is short and the surface is good. There is plenty of room to park either in front of the café or along the gravel road.

The lunch break ends at a CZT restart at the entrance to the restaurant area. Return to the stop sign at the entrance to continue (NRI 48). Remember to zero your trip meter. Do not block the restart location.

### Afternoon Break



The afternoon break includes a transit through Tillamook and into Bay City.

It takes about 15 minutes to drive this 6.5-mile transit. You have exactly 30 minutes to complete this transit, so plan accordingly. (There is no CZT at the end of this transit.)

There are several places along this route to stop for snacks and take a bio-break. The transit ends at the corner of 5th and B in Bay City (NRI 68). Leave this point 30 minutes after you started the transit.





### Monte Carlo Section

The final break is at the Mohler Store. This is a snack break (no restroom). This break ends with a CZT restart, which begins the final Monte Carlo section (NRI 76). You should have almost 15 minutes before your restart time.

The Monte Carlo section is just over 26 miles and ends at the NAPA Auto Parts parking lot in Seaside.

To get a perfect score (zero), you must arrive at the final checkpoint within your scheduled minute. For



example, Car Zero is supposed to arrive at the final checkpoint at 4:30:00. As long as they arrive at any time from 4:30:00 to 4:30:59, their leg score is zero. If they arrive before 4:30:00 or after 4:30:59, their Monte Carlo leg score is 30.

### Awards and Post-Rally Activities

Awards will be presented, at Mo's Seaside, 30 North Prom, Seaside, soon after all teams finish the rally, estimated 6 pm. All participants are encouraged to join us at Mo's for no-host dinner. Share rally stories, thank rallymasters, get to know each other. Awards will be presented to the top three finishers in each competition class and the perpetual trophy will be awarded to the overall top finisher.

After the awards presentation, everyone is invited to enjoy s'mores around a bonfire on the beach in front of the Hi-Tide Inn. S'more makings and roasting sticks will be provided.

### Sunday, Sept. 22, Mountains to the Sea Bonus Rally

The Bonus Rally does not count toward the annual club rally championship. Rallymasters are Monte and Victoria Saager. The rally was pre-checked by the rallymasters and by the teams of Torm Kelsey-Green and Kasey Klaus and Bob Morsebug and Cheri Eddy.

From the start in Seaside to the finish in Rainier, this rally consists of about 20 timed legs, the route is about 90 miles, and it takes about three and a half hours to complete.

#### Start

The rally starts near the Hi-Tide Inn in Seaside at the east-facing stop sign on G Avenue at its intersection with Holladay. First car starts at 10:01 am.

#### Odometer Calibration

The 11.5-mile odo check ends on Lewis and Clark Road at Logan Road near Astoria. You have 30 minutes to complete the odometer calibration transit.

#### Astoria Transit

NRI 16 begins a 30-minute transit through Astoria. There is no CZT restart at the end of this transit. Execute NRI 30 exactly 30 minutes after you start the transit.

#### Break

From CP14, it takes almost 10 minutes to reach the city park in Clatskanie. Once you've arrived (NRI 55) you have about 25 minutes break time at the park. Join the rallymasters at the gazebo and pick up a cold beverage – our treat.



## End

The rally ends at the El Tapatio Restaurant in Rainier. Soon after all teams have finished the rally, prizes will be presented to the top finishers.

## Rallymasters' Advice

- To stay on course, **pay attention to the mileages**. Zero your trip meter when instructed (/0.00). Execute the NRIs at the mileage (OM).
- To stay on time, pay attention to speeds (CAST), pauses and restart (CZT) times.

Remember, in a route instruction, S means straight; it never means south.

All rally roads are open public paved roads. If you find yourself on an unpaved road or at a dead-end with no other choice but to u-turn, you are off course. Find your way back to the rally route and continue.

If you get lost and can't find your way back to the course, please call us. We'll talk you back onto the route so you can complete the rally. Don't be bashful – call us. (We don't want to go search for you.)

One last request. Do not go looking for the course before the rally starts. If you inadvertently pass a checkpoint outside of your rally time with the app turned on, you'll receive a max score for that leg.

We welcome your photos, especially scenes along the rally route and team pics. We also invite you to share your comments, questions, and suggestions. Tell us your rally story!

Zeroes and have fun!

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