

# Monster's Revenge

GENERAL RALLY INSTRUCTIONS (September 11, 2011)

## A. RALLY ROADS

1. Only through, public roads will be used. Do not enter or consider as through roads any road marked "DEAD END", "PRIVATE", "DO NOT ENTER", "NO OUTLET", etc. or obvious dead ends and driveways, *unless specifically directed in the Route Instructions.*
2. Any road surface may be used. (See also D. 7.)

## B. DEFINITIONS of SECTIONS

1. **MONTE (MONTE CARLO).** Allowed time and mileage will be given for the section. Allowed time will be calculated at or below the legal speed limits. Rallyists may be early or late within the section but must finish at the correct time. Controls, if they are used, may be located only at the finish of these sections and will have a 15 second grace period on either side of perfect time.
2. **TRANSIT.** This section differs from a MONTE in that the course will usually pass through an area of congestion, such as a town, and will usually include extra time for gas, snacks, etc. There will be no timing controls in a TRANSIT.
3. **REGULARITY (TSD).** In these sections, the competitor must maintain the average speeds assigned in the route instructions. Passage controls may be located anywhere within the section.

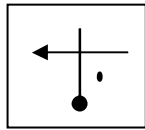
## C. CONTROLS and TIMING

1. **Passage Controls (checkpoints)** may be visible or hidden. Rallyists may be timed at the start/finish of sections or at predetermined points within a REGULARITY. Do not stop at a Passage Control (unless you require assistance). Obvious slowing or stopping within sight of a Passage Control may be cause for the control crew to time you in early. Control workers are judges of fact.
2. **Main Time Controls** may exist. They will be clearly identified with an official checkpoint sign and will be noted in the Route Book. The competitor is required to check in at the control on or before their minute due and declare their calculated time in.
3. All controls will open 10 minutes before the ideal passing of the first car and close 10 minutes after the ideal passing time for the last car, or when released by Sweep.
4. **Route Controls:** In the event that a section of the rally must be re-routed or for any other Rallymaster determined reason, a route control car, identified by an official route control sign, will be placed to provide all necessary information.  
**Pull up to the car and stop!**

5. The Start Time for Car #0 is printed at the start of each section. (Normally this is a “zero” point for measurements. Typically you should reset your trip odometer to “0” at the start of each section.) These times will be an accumulation from the beginning of the rally. Your start time will be the time for car “0” plus your car number in minutes.
6. Checkpoint clocks will be synchronized to a master clock that is set to WWV, using an Oregon Scientific clock acquired to Pacific Time. This master clock will be noted as “OFFICIAL TIME” and will be available at Registration until 30 minutes before car zero starts.

**D. ROUTE INSTRUCTIONS**

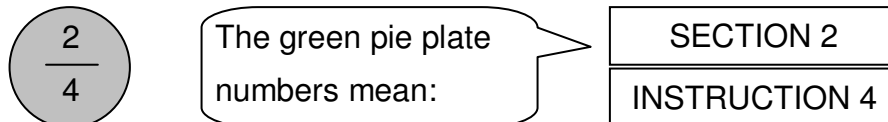
1. There are no intentional course following traps or misspellings.
2. This event will primarily use alpine instructions that may be supplemented with a written instruction and/or mileage.
3. Alpine instructions are diagrammatic representations of intersections and/or road features, i.e. bridge, hairpin curves, etc. You are to enter the diagram from the dot and depart in the direction of the arrow. All rally roads will be shown. Roads other than rally roads may be shown without noting their status as private or dead end.



The location of a referenced **sign** may be indicated by a small dot.


4. In the absence of a route instruction, continue on the main road as defined by centerlines, arrows, etc. Redundant instructions may be used to clarify the main road.
5. Distances/speeds are in miles/miles per hour. For instructions with mileages, the mileage shall prevail as the main course following determinant. If kilometers are given, they were calculated using the formula: miles multiplied by 1.6093; the resulting CAST is then rounded.
5. For instructions containing no mileage, execute the instruction when the reference is encountered.
6. Speed changes associated with turn instructions are to be executed as you commence the turn. Speed changes not associated with turn instructions are to be executed at the reference, or in the absence of a reference, at the indicated mileage.
7. A narrow column exists between the ALPINE and REFERENCE columns. A clear column  indicates a paved road surface; a shaded column  indicates an unpaved road surface;  indicates mixed surface.
8. Execute each section in numerical order. Execute route instructions within each section in numerical order. Complete each route instruction in its entirety.

- Route markers will be identified at the start of the rally. They will include **on** route, **off** route, and route **correction** markers. When a route correction marker with a number is encountered, execute that numbered route instruction and continue on with the route instruction that numerically follows the correction sign.



- There will be no intentional course following traps!**

## E. REFERENCES

- Signs (text or pictorial) will appear in quotation marks in the route instructions. The entire sign may or may not be quoted. A dot may appear on an alpine indicating the location of the sign. Graphics on signs will be as recognizable as possible.
- Signs bearing the Monster's likeness  may be used throughout the event. This sign will be noted in the route instructions.
- In the absence of the reference, use the official mileage given.
- Comments in parentheses are intended as clarifying comments only and are not to be considered as a mandatory part of the route instructions.
- The same sign or object will not be used simultaneously for two references. **The only exception to this will be at the end of one section and the beginning of the next.** (For clarity, you will end one section, zero your odometer, and start the next section all at the same point at your assigned time, i.e. car zero time plus your car number in minutes.)
- House numbers, mail or newspaper boxes, utility pole identification, words or symbols on vehicles or the road surface will not be used unless specifically identified as such in the route instructions.
- There will be no intentional misspelling.

## F. EMERGENCY PROCEDURES

- Route markers will be identified prior to the start of the rally.
- In the event of poor weather, road conditions, or other unforeseen circumstances, organizers may invoke emergency procedures. Instructions may be verbal or written. Follow directions given by rally official/s.

- G. DEFINITIONS** (words or symbols used, but not defined here, are understood to be applied with their usual dictionary definition.)

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





Use CAUTION!

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Use EXTREME CAUTION!


**AL, AR**

**Acute Left, Acute Right**


<b>AT</b>	At or in the immediate vicinity of the sign or reference
<b>BACK FACING</b>	Refers to a sign intended for other motorists; rally traffic will view from the back side.
)] [	BRIDGE
<b>CAR ZERO (0)</b>	A theoretical 'car' that leaves at zero time; add your car number to CAR ZERO time to obtain your out time, end time, etc.
<b>CAST</b>	<u>C</u> hange <u>A</u> verage <u>S</u> peed <u>T</u> o (speeds will be given in miles per hour unless otherwise indicated.)
<b>EOS</b>	<u>E</u> nd <u>O</u> f <u>S</u> ection
<b>EXPOSURE</b>	The road may drop precipitously over the edge; exercise caution (located on outside of curve in this example.)
	
<b>FREE ZONE</b>	A portion of the rally where no passage controls will be found. You must still maintain the assigned average speeds and execute any pauses given (to stay on time).
<b>HPL or HPR</b>	<u>H</u> air <u>P</u> in <u>L</u> eft  or <u>H</u> air <u>P</u> in <u>R</u> ight 
<b>HTS</b>	<u>H</u> ard <u>T</u> o <u>S</u> ee
<b>KL or KR</b>	<u>K</u> ee <u>P</u> <u>L</u> eft or <u>K</u> ee <u>P</u> <u>R</u> ight
<b>L or R</b>	<u>L</u> eft turn or <u>R</u> ight turn
<b>MTC</b>	<u>M</u> ain <u>T</u> ime <u>C</u> ontrol. Located at the end of rally. You must check in with rally officials at or before your correct calculated arrival time. Any team failing to check in at MTC will be assessed a 100 point penalty. Please turn in any time declarations and your car number/s at MTC.
<b>NC</b>	<u>N</u> o <u>C</u> ut. Don't cut; there is something hazardous on the inside of the corner.
<b>NRI</b>	<u>N</u> umbered <u>R</u> oute <u>I</u> nstruction.
<b>O.C.</b>	<u>O</u> ff <u>C</u> amber.
<b>PAUSE</b>	A time allowance (mm:ss) to be included in the calculated leg time.
<b>PICTORIAL</b>	A visual representation of a road sign, e.g.  ,  


**PWC** Paved Water Crossing. A PWC may be grated and is usually associated with a substantial dip in the road surface and often has exposures on both sides. The approach and departure angles can be steep. While noted in the Numbered Route Instructions, they may not be readily apparent as you approach them. *Use caution!*

**QUIET ZONE** In consideration of the neighbors, use **low lights, low speed, low gears, and low noise.**

**SIGNAL,**  A conventional traffic light controlling your progress. It may be on or off.

**SOL** Sign On Left. Used to assist the rallyist in finding the correct reference.

**STOP,**  A legal highway stop sign controlling your progress.

**YIELD,**  A legal highway yield sign controlling your progress.

## H. PENALTIES

1. At **PASSAGE CONTROLS**: One point per second early or late from perfect time.
2. All timing controls will have a maximum time penalty of 300 points.
3. Any contestant receiving a citation for a violation of public laws shall be excluded from the event.
4. A **TIME DECLARATION** (TIME DEC) may be applied, and will be allowed, only for the section(s) for which the TIME DEC was submitted. Competitors are encouraged to return to their time slot during a following **TRANSIT** or **MONTE** section, as timing controls may be closed. See Section C.3. Only one TIME DEC may be active at a time.

A **TIME DEC** must be submitted in whole minutes plus thirty seconds, up to a maximum of 00:09:30. Each car will be allowed two such Time Declarations. Time Declaration form is located at the rear of your route book. Time Declarations must be handed in to the Main Time Control at the finish location. All TIME DEC's must be submitted to the MTC official no later than your correct MTC due time plus nine minutes and 30 seconds. Incomplete TIME DEC's may be rejected.

In the event that two or more cars find themselves on the same minute due to use of a Time Allowance, the car with the lower number will have priority and the higher numbered car(s) must choose a different Time Allowance amount.

5. Competitors will be charged \$10 for each lost car number.

## **I. CLASSES**

### **SOP (Seat Of Pants)**

This class is restricted to the use of any type and number of timepieces, pencils, pens, plain paper, and an auxiliary odometer. The use of navigational aids is prohibited. TSD tables made prior to the start of the event, graph paper, calculators, computers, and GPS are also prohibited.

### **EQUIPPED (Calculator)**

Any calculating devices are allowed, as long as they are not connected to an odometer.

### **UNLIMITED**

No limit is placed on the equipment permissible for use.

### **GREEN**

Vehicles with an EPA estimate of 35 mpg or powered by any energy source that is other than strictly gasoline or diesel. The competitor must provide documentation provided by the manufacturer. The class will include such vehicles as the Nissan Leaf, Chevy Volt, Toyota Prius, Honda Insight, Ford Escape Hybrid, and Honda Fit. Green class entrants should be prepared to provide documentation proving EPA mileage estimate. All Class Green teams will compete amongst themselves for the Class Green Award. Additionally, all Class Green entries will belong to any of the other classes as defined in the General Instructions, i.e. Unlimited, Equipped, or SOP, and they will be eligible for those class awards, as well.

If equipment beyond that allowed in the entered class is found in a competitor's car or on their person during the event, the Rallymaster may take an appropriate action, including disqualification, moving the team into the proper class, or adding 600 penalty points to their score. Rally officials may conduct equipment checks at any time throughout the rally.

## **J. PRIZE GIVING**

A minimum of two teams will constitute a class. If only one car is entered in any of the above classes, that team will be moved up to the next class for scoring and trophy purposes. Trophies to top 30% of class and First Place Overall; minimum 1 trophy place per class.

Ties for First Place Overall and class trophies will be broken as follows: Most zeroes on scored controls; if a tie still exists, most 1's, then most 2's. In case of a continuing tie, the team with the longest streak of consecutive zeroes on scored controls will be declared the winner. If a tie still exists, Section 7 provides a tiebreaker in the form of an arithmetic problem to be solved; answer sheets are provided in the route book and are to be turned in at the final MTC. If still tied, then the tie-breaker will be determined by drawing, as adapted from the WSDOT 2010 Standard Specifications M 41-10 Chapter 1-03.1(1). Two or more slips of paper will be marked as follows: one marked "Winner" and the other(s) marked "+1", "+2", and so on. The slips will be placed in a suitable container. One authorized representative of each tied team shall draw a slip from the

container. The team drawing the slip reading “Winner” shall be proclaimed the winner of the tie-breaker for trophy placement. The team drawing “+1” receives that place plus one, “+2” plus two, etc. The decision is final and not subject to dispute.

**Recommended equipment for all classes:**

Clipboard, pens/pencils, flashlight or map light for reading instructions, stopwatch, good spare tire, reflective triangle, coat, drinking water, and snacks.

**APPENDIX I: SCHEDULE**

Online registration closes	Mon. Oct. 24
Registration opens at Bob’s Burgers & Brew, Burlington	11:30am Sat. Oct. 29
Registration closes	12:30pm Sat. Oct. 29
Competitor’s Meeting	12:30pm Sat. Oct. 29
Car Zero Starts ODO Check Transit	1:00pm Sat. Oct. 29
Car Zero Arrives at Final MTC	approx 9:30pm Sat. Oct. 29
Results posted	approx 11:00pm Oct. 29
Prizegiving	approx 11:30pm Oct. 29

**APPENDIX II: MEASUREMENTS AND TIME CALCULATIONS**

1. The rally was measured with a 2005 Subaru Impreza 2.5 RS, an all-wheel drive vehicle. The mileages were recorded on a Timewise 798A. The input was from a proximity switch reading 2 magnets attached to the left front axle shaft. The tires were Hankook 16/64-15 rally tires at 35 PSI front, 32 PSI rear (cold).
2. Weather was: *unknown at this time.*
3. Official mileages were taken at or below assigned speeds on the unpaved sections. They were measured cumulatively within each section.
4. Mileages in the printed route instructions, when reduced to two decimal places, are truncated to the hundredth of a mile.
5. Time calculations will use mileages truncated to thousandths and will be in minutes, to at least four decimal places. After adding to obtain a cumulative time, the decimal minutes will be multiplied by 60 to convert to seconds. The resulting decimal second will be truncated.
6. Times given in the Route Instructions are perfect times for **CAR 0**.

**APPENDIX III: TOWING SERVICES**

- Apex Towing, Sedro Woolley 360-856-2739
- Arlington Towing, Arlington 360 403-0455
- Carl’s Towing, Sedro-Woolley 360-854-0000
- Eagle Towing & Recovery, Rockport 360-873-4235
- Mt. Vernon Towing 1-800-352-0166 / 360-336-3535

## **APPENDIX IV: Miscellany**

Car number 1 will be assigned to the winner/s of the previous running of Monster's Revenge, provided they pre-register for 2011. The remaining start order will be determined as follows: the lowest car numbers will be reserved for pre-entries; final number assignment will be first-come, first-served at onsite Registration on October 29, 2011, starting at 11:30a.m.

Route books (one per team) will be handed out when you have completed on-site registration. Additional (plain, black & white) route books may be ordered in advance for \$5.00 each; must be noted and paid for on online entry form. NO REFUNDS!

Registration closes promptly at 12:15pm on event day. Teams must have completed registration and attend the Driver's meeting to participate in the event.

There will be no technical inspection prior to the event. All entrants are responsible for ensuring that the vehicle they are driving is licensed, insured, and otherwise meets all Washington State laws and regulations.

Competitors may face disqualification for receiving a traffic citation during the event, for dangerous or unsportsmanlike conduct, or for any other reason at the discretion of rally officials.

Remember that all roads used on this event are open, public roads. Please conduct yourselves with proper decorum as ambassadors of our sport.

As a courtesy to other competitors, when arriving at the start or end of a section, please take care of your immediate odometer/computer tasks and then move ahead to wait out any extra time. Use care when selecting a place to park.

If another car catches you in a Regularity section, please pull over and let the car pass. Do exercise caution when pulling over, but please don't hold up another competitor. Take the few seconds to let them by. If you come up behind another rally car, please dim your lights and allow them the opportunity to pull over safely. If they do not do so, you may flash your lights once.

NO REFUNDS GIVEN AFTER REGISTRATION CLOSES ON OCTOBER 29, 2011.

Lodging is available next door to Alf's Pizza at Three Rivers Inn, 360-855-2626.

### **CALCULATION TOOLS:**

Odometer Correction Factor (OCF) =  $\text{Your Odometer Reading} \div \text{Official Mileage}$

Corrected Speed =  $\text{CAST} \times \text{OCF}$

Corrected Mileage =  $\text{Official Mileage} \times \text{OCF}$

Speed Factor (SF) =  $60 \div \text{CAST}$

Time =  $\text{Mileage} \times \text{SF}$