Hunt for Orange October Sample Document

1) General Instructions
2) Route Instructions
3) Rallymaster Copies
4) Master Worksheet

The purpose of this document is for organizers who have not yet designed one of these RoadRally events to see what one looks like on “paper.”

SIR/SCCA

ROAD RALLY

The Hunt for Orange October
10/24/2021 Rev D

Dave Lehrschall, Rally Master

Suellyn Lehrschall, Asst. Rally Master

General Instructions:

Instructions' Order of Precedence:
1) Follow special instructions.
2) Follow route instructions.
3) Follow main road rules in order listed.

Special Instructions:

1) Drive safely!
2) Have fun!
3) Take **26** minutes to complete odometer check. (Route Instructions RI 1 through RI 14)
4) Restroom stop opportunities:
   First Break Opportunity: The ODO check drive should take about **21** minutes to complete obeying posted speed limits. You should execute RI 17, at your **26** minute mark. This should give teams approximately 5 minutes to calculate odometer / speedometer reading adjustments and a quick visits to the restroom. There is a Marathon gas station/mart at the ODO check end.

   Second Break Opportunity: There will be a 10 minute pause (approximately one hour after the Odo check) at RI 48 at the Pilot Gas Station.

Main Road Rules:

1) Painted Centerline (If present) Defines the Main Road
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   The main road is the road that causes the least variation in direction of travel.
3) Right at T
   The main road goes to the right at all "T" and "Y" type intersections. (Therefore, "T" and "Y" intersections have only left opportunities on this rally).

All roads are public. All roads are paved. Roads that can be seen turning to gravel from the intersection are considered gravel and do not exist as opportunities. Posted dead ends, posted no outlets, and visable dead ends do not exist as opportunities.
No opportunities look like private or business driveways.

All given milages are official. A route instruction is no more than 5 miles from the previous route instruction, confirming landmark, or checkpoint. Cars will start at two-minute intervals. (Same for all cars). Rally cars will run with headlights on. All checkpoints are closed; do not stop. Your time in is your time out. Once you pass a checkpoint, you are on time.

Rally Master RI to RI distances are established by the points where the vehicle direction begins to change to turn at an intersection, enter a hghway, or exit a highway keeping the the vehicle's right side as close as possible to the entry or exit's right-side painted line. (No "late apex" maneuvers).

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Route Instructions:

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(Next door, East of Walgreen's at the intersection of Green River and Lynch in Evansville.)

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An "Immediate Right" or "Immediate Left" turn will define a RI to be executed in a distance between 100 feet and 500 feet from the last executed RI.
The Route Instruction "_____ at Stop" refers to a Stop you should make at a Stop Sign.
Do not include any stop made at a TL (Traffic Light).
Do not count a Stop Sign that may be seen from your route, but that is not a traffic control on your route.

RI 01	Left on Davis Lant (Begin ODO check leaving First Federal lot).	0.000
RI 02	CHECKPOINT # 1 "Flying Start" (Truncate to Previous 30)	
RI 03	Confirm Richta "Signal" at 3rd pine tree (Return to Start if there is no signal)	
RI 04	Left at 1st Opp (Cullen St)	0.167
RI 05	Left at 1st Opp (Lynch)	0.249
RI 06	Right at 2nd Traffic Light (Oak Hill Rd)	1.496
RI 07	Left at 2nd Traffic Light (St. George Rd)	2.494
RI 08	Right Onto Hwy 41 North	4.047
RI 09	Left at 3rd Traffic Light (Mt Pleasant)	6.142
RI 10	Right at 3rd Opp (Old State Rd)	6.929
RI 11	Right at 1st Opp After KNOLLVIEW DR (Hillsdale Rd)	8.449
RI 12	Immediate Right at 1st Opp After Crossing Hwy 41 (Walnut Rd)	8.846
RI13	Right at 1st Opp (Dale Smith Rd)	8.926
RI 14	Immediate Action: End Odometer Check When In line with Flag Pole	8.951
RI 15	Turn Into the Marathon Station lot on the South side	
	You have a total of **26** minutes (from your start time) to proces your Odometer Check and to visit the restrooms. If you require more time, we suggest you use the Time Allowance function on your rally app. The Rally Time and Distance will restart with RI 17. (Time 26 min 0 sec and Distance 0 miles) The restart point is the Stop Sign (Dale Smith Rd onto Hwy 41 N).	
RI 16	Right Onto Dale Smith Rd	

RI 17	Right at Stop (Hwy 41 N - Rally Restarts at Stop Sign)	CAST 45
RI 18	Right at 3rd Opp Onto Old State Rd North	CAST 37
RI 19	Right at 2nd Opp	
RI 20	CHECKPOINT #2	
RI 21	Left at 2nd Stop	
RI 22	CL SRIP "BLUE GRASS"	
RI 23	Left at 2nd Stop (Hwy 57 North)	CAST 45
RI 24	Left at 1st Opp	
RI 25	Left at 1st Opp	
RI 26	Left at 1st Opp (Volkman Rd)	CAST 37
RI 27	CHECKPOINT # 3	
RI 28	Left at 3rd Opp	
RI 29	Left at 1st Opp	
RI 30	Left at 1st Opp (Schlensker)	CAST 33
RI 31	CHECKPOINT # 4	
RI 32	Left at 1st Opp After Castle Brook Rd (McCutchan Rd)	
RI 33	Right at 2nd Opp	CAST 37
RI 34	Right at 2nd Opp	CAST 33
RI 35	Right at 1st Opp (McCutchan Rd)	
RI 36	Right at 1st Opp	
RI 37	CHECKPOINT # 5	
RI 38	Left at Stop	CAST 37
RI 39	Right at 2nd Stop	CAST 55
RI 40	CL SRIP "KINGMEN'S"	
RI 41	Right at 1st Opp After SRIP "Vanderburgh Industrial"	CAST 30

RI 42	Left at 2nd Opp	
RI 43	Left at 2nd Stop (Baseline Rd)	CAST 37
RI 44	Right at 2nd Opp (Old State Rd)	CAST 40
RI 45	CHECKPOINT # 6	
RI 46	Left Onto Warrenton Rd	CAST 30
RI 47	Begin 10 Minute Free Zone at SRIP "Carts Gone Wild"	
RI 48	Pause at Pilot Gas Station (10 Min Free Zone ends with RI 49)	
RI 49	End Free Zone with Right Onto Hwy 41 North (Rally resumes at Warrenton Rd painted stop line)	CAST 48
RI 50	Right Onto Hwy 68 E	
RI 51	Right at 1st Opp	CAST 30
RI 52	Left at Stop	
RI 53	CHECKPOINT # 7	
RI 54	Immediate Left After Crossing Interstate Bridge (1300 S)	
RI 55	Right at 1st Opp	
RI 56	CAST 40 at SRIP "ELBERFELD"	CAST 40
RI 57	Right at 2nd Opp	CAST 55
RI 58	Right at 2nd Opp After SRIP "Vanderburgh Industrial"	CAST 30
RI 59	CL SRIP "MAGNOLIA RIDGE"	
RI 60	CHECKPOINT # 8	
RI 61	Right at 1st Opp	
RI 62	Right at Stop (Hwy 57 S)	CAST 48
RI 63	Immediate Right after SRIP "EARLE"	CAST 33
RI 64	Left at Stop	
RI 65	CHECKPOINT # 9	
RI 66	Acute Right at 1st Opp After SRIP McCUTCHANVILLE COMMUNITY PARK"	CAST 37

RI 67	Left ONTO Old State Rd
RI 68	CHECKPOINT # 10
RI 69	Begin Free Zone after Check Point # 10
RI 70	Right at Stop (Boonville - New Harmony Rd)

RI 71	Immediate Right Into Schnuck's Darmstadt Crossing Parking Lot

RI 72	Gather for results and story's at the Hacienda Restaurant

SIR/SCCA

ROAD RALLY

Rally Master's Copy

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Drivers' Meeting Notes:

1) If you do not have an annual waiver hard-card and have not already done so, please sign the Release and Waiver of Liability document.
2) Wi-Fi hotspot information is displayed on the box.
a) If you have not downloaded the Richta "Competitor" app, please do so now.
b) Once downloaded, please open the app and find the rally name, "The Search for Orange October". Enter the password, "Orange", to enter your vehicle information.
3) Vehicle numbers have been issued in the order of your event registration.
#1
#2
#3

4) Review Richta app screen (Flying Start, Time Allowance, etc.)
5) We will finish at the Hacienda restaurant at Hwy 41 and Boonville - New Harmony.

Rally Design Objectives:
1) Minimum of 0.5 miles required between last RI and next CP to allow for CAST acheivement.
2) The odo check may, but the rally route may not include pass through intersections with Traffic Lights or Railroad Crossings to avoid additional delays.
3) RI instructions will not carry acrosss Check Points. (Opps counts for next action, turn after, CAST "X" mph after _____ will begin after CP's, not before).
4) CAST's will not change on subsequent runs of a road. This is to prevent rally participants from becoming a designed traffic problem.
5) CP location will not be revealed in detail,but the occurrance (between RI's) will be included and the sound should function as a confirming landmark.
6) Use the linked Dual XGPS160 (10 position samples per second) to measure distances and to set CP's.

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			GPS reading (miles)	distance (miles)	@ mph =	time @ CAST	leg time (sec)	GPS Latitude	GPS Longitude	Ideal Time
RI 01	Left on Davis Lant (Begin ODO check leaving First Federal lot).		0.000							
								CP 1		
RI 02	CHECKPOINT # 1 "Flying Start" (Truncate to Previous 30)							Latitude	Longitude	
								38.011676	-87.490298	
RI 03	Confirm Richta "Signal" at 3rd pine tree (Return to Start if there is no signal)									
RI 04	Left at 1st Opp (Cullen St)		0.167							
RI 05	Left at 1st Opp (Lynch)		0.249							
RI 06	Right at 2nd Traffic Light (Oak Hill Rd)		1.496							
RI 07	Left at 2nd Traffic Light (St. George Rd)		2.494							
RI 08	Right Onto Hwy 41 North		4.047							
RI 09	Left at 3rd Traffic Light (Mt Pleasant)		6.142							
RI 10	Right at 3rd Opp (Old State Rd)		6.929							
RI 11	Right at 1st Opp After KNOLLVIEW DR (Hillsdale Rd)		8.449							
RI 12	Immediate Right at 1st Opp After Crossing Hwy 41 (Walnut Rd)		8.846							
RI13	Right at 1st Opp (Dale Smith Rd)		8.926							
RI 14	Immediate Action: End Odometer Check When In line with Flag Pole		8.951							
RI 15	Turn Into the Marathon Station lot on the South side									
	You have a total of **26** minutes (from your start time) to proces your Odometer Check and to visit the restrooms. If you require more time, we suggest you use the Time Allowance function on your rally app. The Rally Time and Distance will restart with RI 17. (Time 26 min 0 sec and Distance 0 miles) The restart point is the Stop Sign (Dale Smith Rd onto Hwy 41 N).					1560				
RI 16	Right Onto Dale Smith Rd									
RI 17	Right at Stop (Hwy 41 N - Rally Restarts at Stop Sign)	CAST 45	0.000							
RI 18	Right at 3rd Opp Onto Old State Rd North	CAST 37	0.598	0.598	45	47.84				
RI 19	Right at 2nd Opp (Boonville-New Harmony Rd)		1.156	0.558	37	54.29				
RI 20	CHECKPOINT #2 (Red Gate Rd - 1220 Black Mailbox)		1.899	0.743	37	72.29	1734.42	CP 2		28.91 Time/60

RI 21	Left at 2nd Stop (Petersburg Rd)		3.592	1.693	37	164.72	
RI 22	CL SRIP "BLUE GRASS"						
RI 23	Left at 2nd Stop (MRR Right at "T" Hwy 57 North)	CAST 45	7.500	3.908	37	380.24	
RI 24	Left at 1st Opp (Old Hwy 57)		7.847	0.347	45	27.76	
RI 25	Left at 1st Opp (Seven Hills Rd)		8.437	0.590	45	47.20	
RI 26	Left at 1st Opp (Volkman Rd)	CAST 37	9.939	1.502	45	120.16	
RI 27	CHECKPOINT # 3 (Speed Limit 45 sign after 2nd bridge on Volkman Rd)		11.104	1.165	37	113.35	853.43
RI 28	Left at 3rd Opp (Old State Rd)		12.728	1.624	37	158.01	
RI 29	Left at 1st Opp (Browning)		13.370	0.642	37	62.46	
RI 30	Left at 1st Opp (Schlensker)	CAST 33	13.908	0.538	37	52.35	
RI 31	CHECKPOINT # 4 (Yellow Warning Sign after Scott Township Park)		14.412	0.504	33	54.98	327.80
RI 32	Left at 1st Opp After Castle Brook Rd (McCutchan Rd)		14.847	0.435	33	47.45	
MRR	Right at T (Baseline)						
RI 33	Right at 2nd Opp (Petersburg Rd)	CAST 37	17.428	2.581	33	281.56	
RI 34	Right at 2nd Opp (Schlensker)	CAST 33	19.531	2.103	37	204.62	
RI 35	Right at 1st Opp (McCutchan Rd)		20.305	0.774	33	84.44	
MRR	Right at T (Baseline)						
RI 36	Right at 1st Opp (Cemetery Rd)		21.814	1.509	33	164.62	
RI 37	CHECKPOINT # 5 (Fire Hydrant at Pond on Right)		22.975	1.161	33	126.65	909.34
RI 38	Left at Stop (Old Petersburg Rd)	CAST 37	23.459	0.484	33	52.80	
RI 39	Right at 2nd Stop (Hwy 57 South)	CAST 55	25.412	1.953	37	190.02	
RI 40	CL SRIP "KINGMEN'S"						
RI 41	Right at 1st Opp After SRIP "Vanderburgh Industrial" (Ruston Ln)	CAST 30	27.081	1.669	55	109.24	
MRR	Right at T (Green River Rd)						
RI 42	Left at 2nd Opp (Unnamed Rd)		27.714	0.633	30	75.96	
	Failure to take this short road would still work with following RI's, but with less time).						
MRR	Right at T (Petersburg Rd)						
RI 43	Left at 2nd Stop (Baseline Rd)	CAST 37	28.710	0.996	30	119.52	
RI 44	Right at 2nd Opp (Old State Rd)	CAST 40	31.130	2.420	37	235.46	
RI 45	CHECKPOINT # 6 ("Weight Limit 17 Tons" - I-64 Bridge)		34.157	3.027	40	272.43	1055.43
RI 46	Left Onto Warrenton Rd	CAST 30	34.658	0.501	40	45.09	

Latitude Longitude 54.60 Fraction X 60
38.09589 -87.539546 28 min 54.6 sec (with 26 min Odo check)
RI to CP Miles: 0.743

CP 3 14.22 Time/60
Latitude Longitude 24.00 Fraction X 60
38.127152 -87.504994 14 min 24.0 sec
RI to CP Miles: 1.165

CP 4 5.46 Time/60
Latitude Longitude 27.60 Fraction X 60
38.107568 -87.520842 5 min 27.6 sec
RI to CP Miles: 0.504

CP 5 15.16 Time/60
Latitude Longitude 9.60 Fraction X 60
38.108822 -87.499572 15 min 9.6 sec
RI to CP Miles: 1.161

CP 6 17.59 Time/60
Latitude Longitude 35.40 Fraction X 60
38.165864 -87.530232 17 min 35.4sec

RI 47	Begin 10 Minute Free Zone at SRIP Carts Gone Wild		35.491	0.833	30	99.96	
RI 48	Pause at Pilot Gas Station (10 Min Free Zone ends with RI 49)					600.00	
RI 49	End Free Zone with Right Onto Hwy 41 North (Rally resumes at Warrenton Rd painted stop line)	CAST 48	35.682	0.191			
RI 50	Right Onto Hwy 68 E		37.178	1.496	48	112.20	
RI 51	Right at 1st Opp (County Rd 150 E)	CAST 30	37.560	0.382	48	28.65	
RI 52	Left at Stop (Warrenton Rd)		39.332	1.772	30	212.64	
RI 53	CHECKPOINT # 7 (Weather Rock Rd Street Sign)		40.131	0.799	30	95.88	1194.42
RI 54	Immediate Left After Crossing Interstate Bridge (1300 S)		41.230	1.099	30	131.88	
RI 55	Right at 1st Opp (Old Hwy 57)		42.684	1.454	30	174.48	
RI 56	CAST 40 at SRIP "ELBERFELD"	CAST 40	43.621	0.937	30	112.44	
RI 57	Right at 2nd Opp (Hwy 57)	CAST 55	44.903	1.282	40	115.38	
RI 58	Right at 2nd Opp After SRIP "Vanderburgh Industrial"	CAST 30	47.942	3.039	55	198.92	
	(Short road. If missed, participants will make acute right with more distance and time).						
MRR	Right at T (Green River Rd)						
	This is a Yield sign not a Stop sign.						
RI 59	CL SRIP "MAGNOLIA RIDGE"						
RI 60	CHECKPOINT # 8 (Mailbox 14120 N Green River Rd)		48.745	0.803	30	96.36	829.46
RI 61	Right at 1st Opp (Ruston Ln)		48.849	0.104	30	12.48	
RI 62	Right at Stop (Hwy 57 S)	CAST 48	49.332	0.483	30	57.96	
RI 63	Immediate Right after SRIP "EARLE"	CAST 33	51.003	1.671	48	125.33	
RI 64	Left at Stop (Old Petersburg Rd South)		52.022	1.019	33	111.16	
RI 65	CHECKPOINT # 9 (at Championship Dr sign)		52.547	0.525	33	57.27	364.20
RI 66	Acute Right at 1st Opp After SRIP McCUTCHANVILLE COMMUNITY PARK" (Browning Rd)	CAST 37	53.507	0.960	33	104.73	
RI 67	Left ONTO Old State Rd		57.207	3.700	37	360.00	
RI 68	CHECKPOINT # 10 (at Ridgeview Dr sign)		58.930	1.723	37	167.64	632.37
RI 69	Begin Free Zone after Check Point # 10						
RI 70	Right at Stop (Boonville - New Harmony Rd)						
RI 71	Immediate Right Into Schnuck's Darmstadt Crossing Parking Lot						**7900.89**
RI 72	Gather for results and story's at the Hacienda Restaurant						

RI to CP Miles: 3.027

CP 7 — Latitude 38.169807, Longitude -87.518010
19.91 Time/60
54.60 Fraction X 60
19 min 54.6 sec (with 10 min pause)
RI to CP Miles: 0.799

CP 8 — Latitude 38.105595, Longitude -87.490563
13.82 Time/60
49.20 Fraction X 60
13 min 49.2 sec
RI to CP Miles: 0.803

CP 9 — Latitude 38.07853, Longitude -87.51653
6.07 Time/60
4.20 Fraction X 60
6 min 4.2 sec
RI to CP Miles: 0.525

CP 10 — Latitude 38.09923, Longitude -87.55254
10.54 Time/60
32.40 Fraction X 60
10 min 32.4 sec
RI to CP Miles: 1.723

131.68 Time/60
40.80 Fraction X 60

Total Time: 2 hrs 11 min 40.8 sec

RI 01 - RI 16 8.951
RI 17 - RI 68 58.930

Total Miles: 67.881

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RI 26	Left at 1st Opp (Volkman Rd)	CAST 37
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RI 30	Left at 1st Opp (Schlensker)	CAST 33
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RI 45	CHECKPOINT # 6	

RI 46	Left Onto Warrenton Rd	CAST 30
RI 47	Begin 10 Minute Free Zone at SRIP "Carts Gone Wild"	
RI 48	Pause at Pilot Gas Station (10 Min Free Zone ends with RI 49)	
RI 49	End Free Zone with Right Onto Hwy 41 North (Rally resumes at Warrenton Rd painted stop line)	CAST 48
RI 50	Right Onto Hwy 68 E	
RI 51	Right at 1st Opp	CAST 30
RI 52	Left at Stop	
RI 53	CHECKPOINT # 7	
RI 54	Immediate Left After Crossing Interstate Bridge (1300 S)	
RI 55	Right at 1st Opp	
RI 56	CAST 40 at SRIP "ELBERFELD"	CAST 40
RI 57	Right at 2nd Opp	CAST 55
RI 58	Right at 2nd Opp After SRIP "Vanderburgh Industrial"	CAST 30
RI 59	CL SRIP "MAGNOLIA RIDGE"	
RI 60	CHECKPOINT # 8	
RI 61	Right at 1st Opp	
RI 62	Right at Stop (Hwy 57 S)	CAST 48
RI 63	Immediate Right after SRIP "EARLE"	CAST 33
RI 64	Left at Stop	
RI 65	CHECKPOINT # 9	
RI 66	Acute Right at 1st Opp After SRIP McCUTCHANVILLE COMMUNITY PARK"	CAST 37
RI 67	Left ONTO Old State Rd	
RI 68	CHECKPOINT # 10	
RI 69	Begin Free Zone after Check Point # 10	
RI 70	Right at Stop (Boonville - New Harmony Rd)	

RI 71	Immediate Right Into Schnuck's Darmstadt Crossing Parking Lot

RI 72	Gather for results and story's at the Hacienda Restaurant

SIR/SCCA

ROAD RALLY

Rally Master's Copy

The Hunt for Orange October
10/24/2021 Rev D

Dave Lehrschall, Rally Master
Suellyn Lehrschall, Asst. Rally Master

General Instructions:

Instructions' Order of Precedence:
1) Follow special instructions.
2) Follow route instructions.
3) Follow main road rules in order listed.

Special Instructions:

1) Drive safely!
2) Have fun!
3) Take **26** minutes to complete odometer check. (Route Instructions RI 1 through RI 14)
4) Restroom stop opportunities:

First Break Opportunity: The ODO check drive should take about **21** minutes to complete obeying posted speed limits. You should execute RI 17, at your **26** minute mark. This should give teams approximately 5 minutes to calculate odometer / speedometer reading adjustments and a quick visits to the restroom. There is a Marathon gas station/mart at the ODO check end.

Second Break Opportunity: There will be a 10 minute pause (approximately one hour after the Odo check) at RI 47 at the Pilot Gas Station.

Main Road Rules:

1) Painted Centerline (If present) Defines the Main Road
2) Straight as Possible
   The main road is the road that causes the least variation in direction of travel.
3) Right at T
   The main road goes to the right at all "T" and "Y" type intersections. (Therefore, "T" and "Y" intersections have only left opportunities on this rally).

All roads are public. All roads are paved. Roads that can be seen turning to gravel from the intersection are considered gravel and do not exist as opportunities. Posted dead ends, posted no outlets, and visable dead ends do not exist as opportunities.
No opportunities look like private or business driveways.

All given milages are official. A route instruction is no more than 5 miles from the previous route instruction, confirming landmark, or checkpoint. Cars will start at two-minute intervals. (Same for all cars). Rally cars will run with headlights on. All checkpoints are closed; do not stop. Your time in is your time out. Once you pass a checkpoint, you are on time.

Rally Master RI to RI distances are established by the points where the vehicle direction begins to change to turn at an intersection, enter a hghway, or exit a highway keeping the the vehicle's right side as close as possible to the entry or exit's right-side painted line. (No "late apex" maneuvers).

All given CAST are in miles per hour.
Any CAST information on ODO check is for reference only.

Drivers' Meeting Notes:

1) If you do not have an annual waiver hard-card and have not already done so, please sign the Release and Waiver of Liability document.
2) Wi-Fi hotspot information is displayed on the box.
a) If you have not downloaded the Richta "Competitor" app, please do so now.
b) Once downloaded, please open the app and find the rally name, "The Search for Orange October". Enter the password, "Orange", to enter your vehicle information.
3) Vehicle numbers have been issued in the order of your event registration.
#1
#2
#3

4) Review Richta app screen (Flying Start, Time Allowance, etc.)
5) We will finish at the Hacienda restaurant at Hwy 41 and Boonville - New Harmony.

Rally Design Objectives:
1) Minimum of 0.5 miles required between last RI and next CP to allow for CAST acheivement.
2) The odo check may, but the rally route may not include pass through intersections with Traffic Lights or Railroad Crossings to avoid additional delays.
3) RI instructions will not carry acrosss Check Points. (Opps counts for next action, turn after, CAST "X" mph after _____ will begin after CP's, not before).
4) CAST's will not change on subsequent runs of a road. This is to prevent rally participants from becoming a designed traffic problem.
5) CP location will not be revealed in detail,but the occurrance (between RI's) will be included and the sound should function as a confirming landmark.
6) Use the linked Dual XGPS160 (10 position samples per second) to measure distances and to set CP's.

If "hopelessly lost" please do not give up. Call the Rally Master. You'll be given a max score on the current leg and restarted on the next leg without penalty. (812-549-4598).

Route Instructions:

The Rally Registration and Odometer Check starts at First Federal's parking lot at 4920 Davis Lant. (Next door, East of Walgreen's at the intersection of Green River and Lynch in Evansville.)

You will have 26.0 minutes to complete the Odometer Check.
An "Immediate Right" or "Immediate Left" turn will define a RI to be executed in a distance between 100 feet and 500 feet from the last executed RI.

The Route Instruction "_____ at Stop" refers to a Stop you should make at a Stop Sign.
Do not include any stop made at a TL (Traffic Light).
Do not count a Stop Sign that may be seen from your route, but that is not a traffic control on your route.

			GPS reading (miles)	distance (miles)	@ mph =	time @ CAST	leg time (sec)	GPS Latitude	GPS Longitude	Ideal Time
RI 01	Left on Davis Lant (Begin ODO check leaving First Federal lot).		0.000							
								CP 1		
RI 02	CHECKPOINT # 1 "Flying Start" (Truncate to Previous 30)							Latitude	Longitude	
								38.011676	-87.490298	
RI 03	Confirm Richta "Signal" at 3rd pine tree (Return to Start if there is no signal)									
RI 04	Left at 1st Opp (Cullen St)		0.167							
RI 05	Left at 1st Opp (Lynch)		0.249							
RI 06	Right at 2nd Traffic Light (Oak Hill Rd)		1.496							
RI 07	Left at 2nd Traffic Light (St. George Rd)		2.494							
RI 08	Right Onto Hwy 41 North		4.047							
RI 09	Left at 3rd Traffic Light (Mt Pleasant)		6.142							
RI 10	Right at 3rd Opp (Old State Rd)		6.929							
RI 11	Right at 1st Opp After KNOLLVIEW DR (Hillsdale Rd)		8.449							
RI 12	Immediate Right at 1st Opp After Crossing Hwy 41 (Walnut Rd)		8.846							
RI13	Right at 1st Opp (Dale Smith Rd)		8.926							
RI 14	Immediate Action: End Odometer Check When In line with Flag Pole		8.951							
RI 15	Turn Into the Marathon Station lot on the South side									
	You have a total of **26** minutes (from your start time) to proces your Odometer Check and to visit the restrooms. If you require more time, we suggest you use the Time Allowance function on your rally app. The Rally Time and Distance will restart with RI 17. (Time 26 min 0 sec and Distance 0 miles) The restart point is the Stop Sign (Dale Smith Rd onto Hwy 41 N).					1560				
RI 16	Right Onto Dale Smith Rd									
RI 17	Right at Stop (Hwy 41 N - Rally Restarts at Stop Sign)	CAST 45	0.000							
RI 18	Right at 3rd Opp Onto Old State Rd North	CAST 37	0.598	0.598	45	47.84				
RI 19	Right at 2nd Opp (Boonville-New Harmony Rd)		1.156	0.558	37	54.29				

RI 20	CHECKPOINT #2 (Red Gate Rd - 1220 Black Mailbox)	1.899	0.743	37	72.29	1734.42
RI 21	Left at 2nd Stop (Petersburg Rd)	3.592	1.693	37	164.72	
RI 22	CL SRIP "BLUE GRASS"					
RI 23	Left at 2nd Stop (MRR Right at "T" Hwy 57 North) CAST 45	7.500	3.908	37	380.24	
RI 24	Left at 1st Opp (Old Hwy 57)	7.847	0.347	45	27.76	
RI 25	Left at 1st Opp (Seven Hills Rd)	8.437	0.590	45	47.20	
RI 26	Left at 1st Opp (Volkman Rd) CAST 37	9.939	1.502	45	120.16	
RI 27	CHECKPOINT # 3 (Speed Limit 45 sign after 2nd bridge on Volkman Rd)	11.104	1.165	37	113.35	853.43
RI 28	Left at 3rd Opp (Old State Rd)	12.728	1.624	37	158.01	
RI 29	Left at 1st Opp (Browning)	13.370	0.642	37	62.46	
RI 30	Left at 1st Opp (Schlensker) CAST 33	13.908	0.538	37	52.35	
RI 31	CHECKPOINT # 4 (Yellow Warning Sign after Scott Township Park)	14.412	0.504	33	54.98	327.80
RI 32	Left at 1st Opp After Castle Brook Rd (McCutchan Rd)	14.847	0.435	33	47.45	
MRR	Right at T (Baseline)					
RI 33	Right at 2nd Opp (Petersburg Rd) CAST 37	17.428	2.581	33	281.56	
RI 34	Right at 2nd Opp (Schlensker) CAST 33	19.531	2.103	37	204.62	
RI 35	Right at 1st Opp (McCutchan Rd)	20.305	0.774	33	84.44	
MRR	Right at T (Baseline)					
RI 36	Right at 1st Opp (Cemetery Rd)	21.814	1.509	33	164.62	
RI 37	CHECKPOINT # 5 (Fire Hydrant at Pond on Right)	22.975	1.161	33	126.65	909.34
RI 38	Left at Stop (Old Petersburg Rd) CAST 37	23.459	0.484	33	52.80	
RI 39	Right at 2nd Stop (Hwy 57 South) CAST 55	25.412	1.953	37	190.02	
RI 40	CL SRIP "KINGMEN'S"					
RI 41	Right at 1st Opp After SRIP "Vanderburgh Industrial" (Ruston Ln) CAST 30	27.081	1.669	55	109.24	
MRR	Right at T (Green River Rd)					
RI 42	Left at 2nd Opp (Unnamed Rd)	27.714	0.633	30	75.96	
	Failure to take this short road would still work with following RI's, but with less time).					
MRR	Right at T (Petersburg Rd)					
RI 43	Left at 2nd Stop (Baseline Rd) CAST 37	28.710	0.996	30	119.52	
RI 44	Right at 2nd Opp (Old State Rd) CAST 40	31.130	2.420	37	235.46	
RI 45	CHECKPOINT # 6 ("Weight Limit 17 Tons" - I-64 Bridge)	34.157	3.027	40	272.43	1055.43

CP 2
Latitude 38.09589
Longitude -87.539546
28.91 Time/60
54.60 Fraction X 60
28 min 54.6 sec (with 26 min Odo check)
RI to CP Miles: 0.743

CP 3
Latitude 38.127152
Longitude -87.504994
14.22 Time/60
24.00 Fraction X 60
14 min 24.0 sec
RI to CP Miles: 1.165

CP 4
Latitude 38.107568
Longitude -87.520842
5.46 Time/60
27.60 Fraction X 60
5 min 27.6 sec
RI to CP Miles: 0.504

CP 5
Latitude 38.108822
Longitude -87.499572
15.16 Time/60
9.60 Fraction X 60
15 min 9.6 sec
RI to CP Miles: 1.161

CP 6
Latitude
Longitude
17.59 Time/60
35.40 Fraction X 60

RI 46	Left Onto Warrenton Rd	CAST 30	34.658	0.501	40	45.09		38.165864	-87.530232	17 min 35.4sec
									RI to CP Miles:	3.027
RI 47	Begin 10 Minute Free Zone at SRIP Carts Gone Wild		35.491	0.833	30	99.96				
RI 48	Pause at Pilot Gas Station (10 Min Free Zone ends with RI 49)					600.00				
RI 49	End Free Zone with Right Onto Hwy 41 North (Rally resumes at Warrenton Rd painted stop line)	CAST 48	35.682	0.191						
RI 50	Right Onto Hwy 68 E		37.178	1.496	48	112.20				
RI 51	Right at 1st Opp (County Rd 150 E)	CAST 30	37.560	0.382	48	28.65				
RI 52	Left at Stop (Warrenton Rd)		39.332	1.772	30	212.64				
RI 53	CHECKPOINT # 7 (Weather Rock Rd Street Sign)		40.131	0.799	30	95.88	1194.42	CP 7		19.91 Time/60
								Latitude	Longitude	54.60 Fraction X 60
RI 54	Immediate Left After Crossing Interstate Bridge (1300 S)		41.230	1.099	30	131.88		38.169807	-87.518010	19 min 54.6 sec (with 10 min pause)
									RI to CP Miles:	0.799
RI 55	Right at 1st Opp (Old Hwy 57)		42.684	1.454	30	174.48				
RI 56	CAST 40 at SRIP "ELBERFELD"	CAST 40	43.621	0.937	30	112.44				
RI 57	Right at 2nd Opp (Hwy 57)	CAST 55	44.903	1.282	40	115.38				
RI 58	Right at 2nd Opp After SRIP "Vanderburgh Industrial"	CAST 30	47.942	3.039	55	198.92				
	(Short road. If missed, participants will make acute right with more distance and time).									
MRR	Right at T (Green River Rd)									
	This is a Yield sign not a Stop sign.									
RI 59	CL SRIP "MAGNOLIA RIDGE"									
RI 60	CHECKPOINT # 8 (Mailbox 14120 N Green River Rd)		48.745	0.803	30	96.36	829.46	CP 8		13.82 Time/60
								Latitude	Longitude	49.20 Fraction X 60
RI 61	Right at 1st Opp (Ruston Ln)		48.849	0.104	30	12.48		38.105595	-87.490563	13 min 49.2 sec
									RI to CP Miles:	0.803
RI 62	Right at Stop (Hwy 57 S)	CAST 48	49.332	0.483	30	57.96				
RI 63	Immediate Right after SRIP "EARLE"	CAST 33	51.003	1.671	48	125.33				
RI 64	Left at Stop (Old Petersburg Rd South)		52.022	1.019	33	111.16				
RI 65	CHECKPOINT # 9 (at Championship Dr sign)		52.547	0.525	33	57.27	364.20	CP 9		6.07 Time/60
								Latitude	Longitude	4.20 Fraction X 60
RI 66	Acute Right at 1st Opp After SRIP McCUTCHANVILLE COMMUNITY PARK" (Browning Rd)	CAST 37	53.507	0.960	33	104.73		38.07853	-87.51653	6 min 4.2 sec
									RI to CP Miles:	0.525
RI 67	Left ONTO Old State Rd		57.207	3.700	37	360.00				
RI 68	CHECKPOINT # 10 (at Ridgeview Dr sign)		58.930	1.723	37	167.64	632.37	CP 10		10.54 Time/60
								Latitude	Longitude	32.40 Fraction X 60
RI 69	Begin Free Zone after Check Point # 10							38.09923	-87.55254	10 min 32.4 sec
									RI to CP Miles:	1.723
RI 70	Right at Stop (Boonville - New Harmony Rd)									
RI 71	Immediate Right Into Schnuck's Darmstadt Crossing Parking Lot						7900.887			131.68 Time/60
										40.80 Fraction X 60
RI 72	Gather for results and story's at the Hacienda Restaurant								**Total Time:**	**2 hrs 11 min 40.8 sec**

RI 01 - RI 16	8.951
RI 17 - RI 68	58.930
Total Miles:	
	67.881

Rally Time Calculations

Critical Odometer Differences:

1) The Rally Master will generally use an odometer with the "finest" resolution available (for example 0.01 miles or (

2) If you or the Rally Master are using an odometer that uses a tire rotation input (mechanical or digital-mechanical), you will measure completed. It does not "round up". An accurate mechanical odometer reading to the nearest 1/10 should display 8.1 traveling between 8.10 to 8.19 standard miles.

3) Rally Masters and other competitors may use GPS devices that can read positions with a plus or minus 2.5 meters accura calculate the distance between read positions. A higher sampling frequency of the GPS device will add to it's accuracy. The I provides 10 position readings / sec.

4) The formulas below will help explain the importance of a good odometer check (comparison between the Rally Master's m significant, standard distance and the participant's measure of that same distance). A good (quick) comparison or correlatio between the participant's reported distance and the Rally Master's report for that same route is the basis for a participant's C adjustments.

5) A participant may improve the quality of the odometer check / correlation, improve their rally CAST target, and their rally p practicing an estimation of an additional digit or fraction of your last indicated digit. If you have an odometer that reads to th miles, work on noticing how far you seem to have traveled since the last "roll-over" of each 0.1 mile. Work on basic estimate tenths of a mile to be used to create more precise reports of your travled distances.

6) If your odometer indicated you traveled 8.1 miles over a distance your Rally Master measured at 8.652 you could determin factor of 0.936 (8.1/8.652) and change your rally CAST numbers by multiplying by this factor. A 45 mph directed CAST would 42.1 mph (45 x 0.936) target for you.

7) If you estimated a closer 8.5 miles, your factor would change to 0.982 and the 45 mph directed CAST would now become a target. A 10 mile rally leg at 42.1 mph would take 869.4 seconds. The same distance at 44.2 mph would take 814.5 seconds. A you would take 800.0 seconds.

8) Odometers may not record distances accurately or with the same measure of error. Using a better estimate of your odome with an estimated extra digit should give you a better correlation factor for your odometer check and rally CAST adjustments

Estimating Time:

$$\text{Time in Seconds} = \frac{\text{"Distance" in Miles}}{1} \times \frac{1 \text{ Hour}}{\text{"CAST" Miles}} \times \frac{60 \text{ Minutes}}{1 \text{ Hour}} \times \frac{60 \text{ Seconds}}{1 \text{ Minute}}$$

"Distance" : Master's Distance "CAST": If Route Instruction directed a CAST 40 (for 40 MPH) enter "40" in this formula.

Adjusting Distance:

$$\text{Rally Master's Miles} = \frac{\text{Participant's Miles}}{1} \times \frac{\text{Rally Master's ODO Miles}}{\text{Participant's ODO Miles}}$$

Example:

ODO check shows your odometer reading is 10.5 miles versus the Rally Master's odometer reading of 10.0 miles.
Your odometer reads 10.5 /10 or 1.05 times the Rally Master's odometer reading.

1 You passed Checkpoint # 3 while following a RI for CAST 40
2 You recorded the Checkpoint #3 odometer reading at 47.5 Miles and Time at 57 Minutes 13 Seconds (3433 Seconds)
3 You recorded an odometer reading of 51.2 Miles when the RI directed a change to CAST 30
4 You recorded an odometer reading of 58.7 Miles when the RI directed a change to CAST 50
5 You recorded an odometer reading of 62.4 Miles when the RI directed a change to CAST 40
6 You recorded the Checkpoint #4 odometer reading at 66.3 Miles and Time at 31 Minutes 59 Seconds (1919 Seconds)

Analysis (Distance):	Recorded Miles				Rally Master Miles
Rally leg from CP3 to CP4					
51.2-47.5 miles at CAST 40	3.7	X	10/10.5	Equals:	3.5
58.7-51.2 miles at CAST 30	7.5	X	10/10.5	Equals:	7.1
62.4-58.7 miles at CAST 50	3.7	X	10/10.5	Equals:	3.5
66.3-62.4 miles at CAST 40	3.9	X	10/10.5	Equals:	3.7

At CAST 30: 7.1 Miles
At CAST 40: (3.5 + 3.7) or 7.2 Miles
At CAST 50: 3.5 Miles

Analysis (Time):

At CAST 30:	7.1	X	1/30	X	60	X	60	Equals: 852 seconds
At CAST 40:	7.2	X	1/40	X	60	X	60	Equals: 648 seconds
At CAST 50:	3.5	X	1/50	X	60	X	60	Equals: 252 seconds

Rally leg from CP3 to CP4 1752 seconds

Buying Time (Using Time Allowance)?

Your recorded time for this leg of the Rally was 1919 seconds.
The Rally Master's time for this leg was 1752 seconds.

You were late by 167 seconds. Rally Leg Score: 167

If you "buy" 2 minutes (120 seconds), your adjusted time would be 1799 seconds.

You would be late by 47 seconds. Rally Leg Score: 47

If you "buy" 3 minutes (180 seconds), your adjusted time would be 1739 seconds.

You would be early by 13 seconds. Rally Leg Score: 13