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# VEHICLE DYNAMICS TESTING

## TEST OBJECTIVE

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Determine each vehicle's high-speed pursuit or emergency handling characteristics and performance in comparison to the other vehicles in the test group. The course used is a 2-mile road-racing type configuration, containing hills, curves, and corners. The course simulates actual conditions encountered in pursuit or emergency driving situations in the field, with the exception of other traffic. The evaluation is a true test of the success or failure of the vehicle manufacturers to offer vehicles that provide the optimum balance between handling (suspension components), acceleration (usable horsepower), and braking characteristics.

## TEST METHODOLOGY

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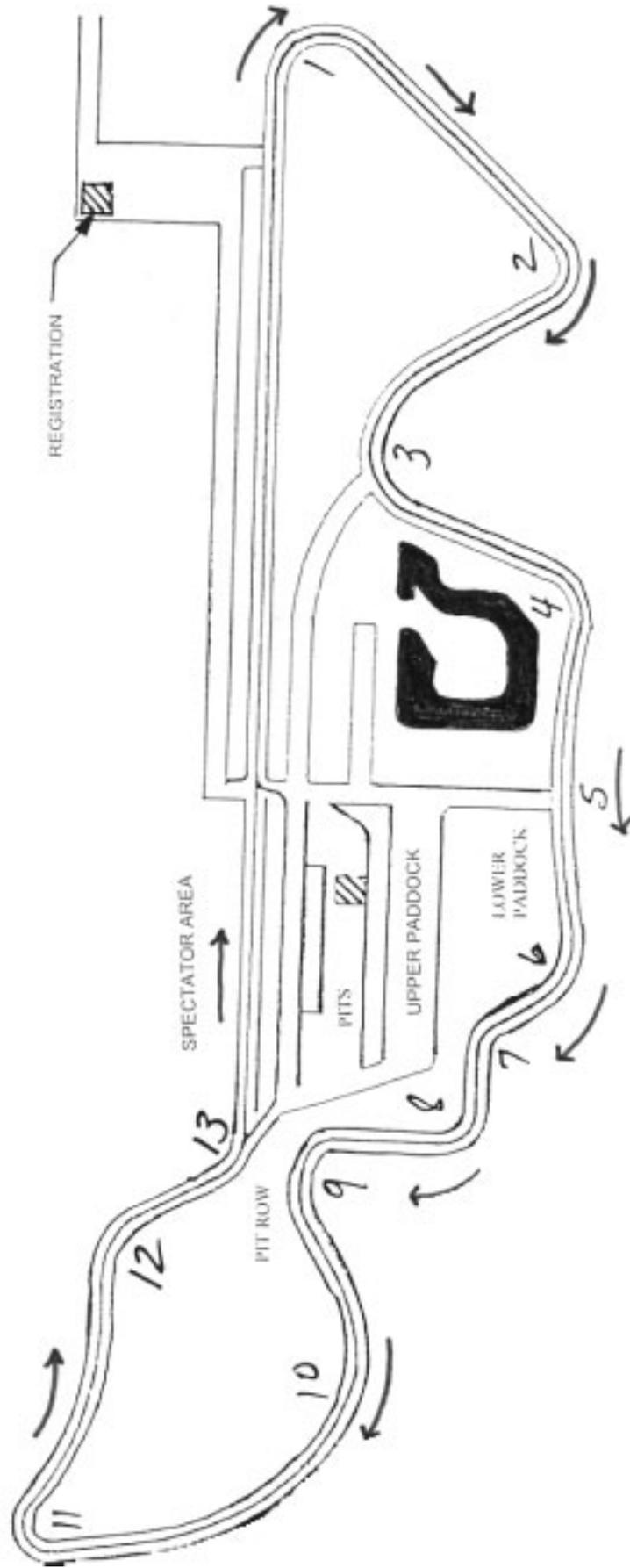
Each vehicle is driven over the course a total of 32 timed laps, using four separate drivers, each driving an 8 lap series. The final score for the vehicle is the combined average (from the 4 drivers) of the 5 fastest laps for each driver during the 8 lap series.



# Grattan Raceway Park



7201 Lessiter  
Belding, Michigan 48809



Arrows indicate  
Michigan State Police  
Road Test Course and  
Direction of Travel.

# VEHICLE DYNAMICS TESTING

Vehicles	Drivers	Lap 1	Lap 2	Lap 3	Lap 4	Lap 5	Average
Ford CVPI 3.27 4.6L	GROMAK	01:40.90	01:41.10	01:41.10	01:41.20	01:41.20	01:41.10
	ROGERS	01:40.60	01:41.00	01:41.40	01:41.40	01:41.50	01:41.18
	MCCARTHY	01:40.70	01:41.40	01:41.50	01:41.60	01:41.70	01:41.38
	FLEGEL	01:40.60	01:41.10	01:41.10	01:41.20	01:41.30	01:41.06
<b>Overall Average</b>							<b>01:41.18</b>
Ford CVPI 3.55 4.6L	GROMAK	01:39.80	01:39.80	01:39.90	01:40.00	01:40.30	01:39.96
	ROGERS	01:40.70	01:40.90	01:40.90	01:41.00	01:41.00	01:40.90
	MCCARTHY	01:41.00	01:41.10	01:41.30	01:41.30	01:41.40	01:41.22
	FLEGEL	01:39.90	01:39.90	01:40.30	01:40.40	01:40.40	01:40.18
<b>Overall Average</b>							<b>01:40.57</b>
Chevrolet Caprice 9C1 6.0L	GROMAK	01:35.80	01:36.40	01:36.40	01:36.40	01:37.20	01:36.44
	ROGERS	01:37.00	01:37.30	01:37.30	01:37.60	01:37.60	01:37.36
	MCCARTHY	01:37.80	01:37.90	01:37.90	01:38.00	01:38.10	01:37.94
	FLEGEL	01:37.00	01:37.40	01:37.50	01:38.20	01:38.30	01:37.68
<b>Overall Average</b>							<b>01:37.35</b>
Chevrolet Caprice 9C1 6.0L E85	GROMAK	01:36.40	01:36.70	01:36.80	01:36.90	01:36.90	01:36.74
	ROGERS	01:36.50	01:36.60	01:36.60	01:36.80	01:36.80	01:36.66
	MCCARTHY	01:36.60	01:37.50	01:37.80	01:37.80	01:37.90	01:37.52
	FLEGEL	01:36.60	01:36.80	01:37.30	01:37.60	01:37.60	01:37.18
<b>Overall Average</b>							<b>01:37.02</b>
Chevrolet Impala 9C1 3.9L	GROMAK	01:42.40	01:42.80	01:42.90	01:43.10	01:43.10	01:42.86
	ROGERS	01:43.00	01:43.20	01:43.20	01:43.30	01:43.40	01:43.22
	MCCARTHY	01:42.50	01:42.50	01:42.50	01:42.60	01:42.70	01:42.56
	FLEGEL	01:42.20	01:42.40	01:42.50	01:42.50	01:42.90	01:42.50
<b>Overall Average</b>							<b>01:42.78</b>
Chevrolet Impala 9C1 3.9L E85	GROMAK	01:41.70	01:41.90	01:41.90	01:42.20	01:42.30	01:42.00
	ROGERS	01:41.90	01:42.00	01:42.10	01:42.30	01:42.50	01:42.16
	MCCARTHY	01:42.60	01:42.70	01:42.90	01:43.20	01:43.20	01:42.92
	FLEGEL	01:41.20	01:41.20	01:41.40	01:41.40	01:41.40	01:41.32
<b>Overall Average</b>							<b>01:42.10</b>

# VEHICLE DYNAMICS TESTING

Vehicles	Drivers	Lap 1	Lap 2	Lap 3	Lap 4	Lap 5	Average
Chevrolet Tahoe PPV 5.3L	GROMAK	01:42.60	01:42.70	01:43.00	01:43.00	01:43.00	01:42.86
	ROGERS	01:42.70	01:43.20	01:43.30	01:43.60	01:43.60	01:43.28
	MCCARTHY	01:43.20	01:43.60	01:43.60	01:43.70	01:44.00	01:43.62
	FLEGEL	01:42.20	01:42.40	01:43.10	01:43.10	01:43.20	01:42.80
							<b>01:43.14</b>
Chevrolet Tahoe PPV 5.3L E85	GROMAK	01:41.60	01:41.70	01:42.20	01:42.20	01:42.20	01:41.98
	ROGERS	01:42.20	01:42.30	01:42.40	01:42.70	01:42.80	01:42.48
	MCCARTHY	01:42.90	01:43.10	01:43.20	01:43.20	01:43.30	01:43.14
	FLEGEL	01:41.90	01:42.00	01:42.30	01:42.40	01:42.60	01:42.24
<b>Overall Average</b>							<b>01:42.46</b>
Dodge Charger 5.7L	GROMAK	01:39.10	01:39.20	01:39.40	01:39.50	01:39.80	01:39.40
	ROGERS	01:36.80	01:37.60	01:38.00	01:39.00	01:39.30	01:38.14
	MCCARTHY	01:36.70	01:37.00	01:37.00	01:37.10	01:37.80	01:37.12
	FLEGEL	01:39.00	01:39.20	01:39.20	01:39.40	01:39.40	01:39.24
<b>Overall Average</b>							<b>01:38.47</b>
Dodge Charger 3.6L	GROMAK	01:37.50	01:37.80	01:38.00	01:38.30	01:38.40	01:38.00
	ROGERS	01:37.90	01:38.10	01:38.30	01:38.30	01:38.90	01:38.30
	MCCARTHY	01:38.40	01:38.80	01:38.90	01:38.90	01:39.00	01:38.80
	FLEGEL	01:38.70	01:38.80	01:38.90	01:39.00	01:39.00	01:38.88
<b>Overall Average</b>							<b>01:38.49</b>



# 2011 Vehicle Dynamics

