EXPERT AUTOSTATS
Ver. 4.1

PROVIDED BY:
4N6XPRT Systems
8387 University Avenue
La Mesa CA 91941

12-12-2001

2001 FORD CROWN VICTORIA 4.6L MSP POLICE PACKAGE 4DR SEDAN

CURB WEIGHT:	**4020 lbs.**	**1823 kg.**
Curb Weight Distribution -	**Front: 55 %**	**Rear: 45 %**
Gross Vehicle Weight Rating:	**5170 lbs.**	**2345 kg.**
Number of Tires on Vehicle:	**4**	
Drive Wheels:	**REAR**	

HORIZONTAL DIMENSIONS

	Inches	Feet	Meters
Total Length	212	17.67	5.38
Wheelbase:	115	9.58	2.92
Front Bumper to Front Axle	44	3.67	1.12
Front Bumper to Front of Front Well	27	2.25	0.69
Front Bumper to Front of Hood	8	0.67	0.20
Front Bumper to Base of Windshield	66	5.50	1.68
Front Bumper to Top of Windshield	91	7.58	2.31
Rear Bumper to Rear Axle	53	4.42	1.35
Rear Bumper to Rear of Rear Well	37	3.08	0.94
Rear Bumper to Rear of Trunk	8	0.67	0.20
Rear Bumper to Base of Rear Window	39	3.25	0.99

WIDTH DIMENSIONS

Maximum Width	78	6.50	1.98
Front Track	63	5.25	1.60
Rear Track	64	5.33	1.63

VERTICAL DIMENSIONS

	Inches	Feet	Meters
Height	57	4.75	1.45
Ground to:			
Front Bumper (Top)	23	1.92	0.58
Headlight - center	27	2.25	0.69
Hood - top front	26	2.17	0.66
Base of windshield	38	3.17	0.97
Rear Bumper - top	26	2.17	0.66
Trunk - top rear	40	3.33	1.02
Base of rear window	40	3.33	1.02

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INTERIOR DIMENSIONS

	Inches	Feet	Meters
Front Seat Shoulder Width	61	5.08	1.55
Front Seat to Headliner	39	3.25	0.99
Front Leg - seatback to floor (max)	43	3.58	1.09
Rear Seat Shoulder Width	60	5.00	1.52
Rear Seat to Headliner	38	3.17	0.97
Rear Leg - seatback to floor (min)	40	3.33	1.02

Seatbelts: 3pt - front and rear
Airbags: FRONT SEAT AIRBAGS

STEERING DATA

Turning Circle (Diameter)	492	41.00	12.50
Steering Ratio:	16.40:1		
Wheel Radius:	13	1.08	0.33
Tire Size (OEM):	P225/60R16		

ACCELERATION & BRAKING INFORMATION

Brake Type: ALL DISC
ABS System: ALL WHEEL ABS

Braking, 60 mph -> 0 (Hard pedal, no skid, dry pavement):
d = 145 ft t = 3.3 sec. a =-26.6 ft/sec/sec G-force = -0.83

ACCELERATION:

0->30 mph	t = 3.2 sec.	a = 13.7 ft/sec/sec	G-force = 0.43
0->60 mph	t = 8.7 sec.	a = 10.1 ft/sec/sec	G-force = 0.31
45->65 mph	t = 4.4 sec.	a = 6.7 ft/sec/sec	G-force = 0.21

Transmission Type: 4spd AUTOMATIC

NOTES:

Federal Bumper Standard Requirements = 2.5 MPH
This vehicles Rated Bumper Strength: 5 mph

N.S.D.C. = 2001 - 2001

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OTHER INFORMATION

TIP-OVER STABILITY RATIO = 1.42 STABLE
NHTSA Star Rating (calculated) ****

CENTER OF GRAVITY (No Load):

Inches behind front axle	=	51.75
Inches in front of rear axle	=	63.25
Inches from side of vehicle	=	39.00
Inches from ground	=	22.37
Inches from front corner	=	103.39
Inches from rear corner	=	122.62
Inches from front bumper	=	95.75
Inches from rear bumper	=	116.25

MOMENTS OF INERTIA APPROXIMATIONS (No Load):

YAW MOMENT OF INERTIA	=	2934.60	lb-ft-sec^2
PITCH MOMENT OF INERTIA	=	2830.80	lb-ft-sec^2
ROLL MOMENT OF INERTIA	=	573.60	lb-ft-sec^2

FRONT PROFILE INFORMATION

ANGLE FRONT BUMPER TO HOOD FRONT	=	20.6	deg
ANGLE FRONT OF HOOD TO WINDSHIELD BASE	=	11.7	deg
ANGLE FRONT OF HOOD TO WINDSHIELD TOP	=	12.9	deg
ANGLE OF WINDSHIELD	=	37.2	deg
ANGLE OF STEERING TIRES AT MAX TURN	=	26.8	deg

FIRST APPROXIMATION CRUSH FACTORS:

Speed Equivalent (mph) of Kinetic Energy (KE) used in causing crush or indentation may be evaluated using the following formula, the appropriate Crush Factor (CF), and Maximum Indentation Depth (MID), in feet:

V(mph) = Sqr root of (30 * CF * MID)

KE Equivalent Speed (Front/Rear/Side) = 21 CF

Bullet vehicle IMPACT SPEED estimation
based on TARGET VEHICLE damage ONLY = 27 CF
(Tested for Rear/Side Impact only)

These CF values are based upon analysis of NHTSA Barrier Crash data, and from over 1000 vehicle accidents where independant evaluation of speed was possible. (These are NOT 'A', 'B', 'C', or 'G' values)

The Rear Impact data with more than 2-3 inches of crush damage should be looked at carefully, since some vehicles have very weak trunk & fender strength. Therefore, on some cars, esp. GM, your estimate from the rear crush data may be high by as much as 4-5 mph (on a crush of 18 inches).