

* * * A T T E N T I O N * * *

Individual Vehicle dimensions were obtained through the use of the Expert AutoStats(R) program.

The Expert AutoStats(R) program contains a multitude of vehicle dimensions and specifications on over 51,000 different vehicles and 203 different manufacturers spanning more than 76 years.

While every attempt has been made to ensure accurate data, these dimensions are meant to be used as first approximations. Some measurements are dependant on such factors as tire and rim sizes, tire inflation pressure and wear, suspension system condition, bumper type and style, and other manufacturing variations from vehicle to vehicle.

Whenever feasible, the vehicle in question or an exemplar vehicle should be measured to verify data important to your case.

Individual Vehicle Data Search Service (R)

Provided by:
4N6XPRT SYSTEMS (R)
Forensic Expert Software
8387 University Avenue
La Mesa, CA 91942-9342

(619) 464-3478 / (800) 266-9778 / FAX: (619) 464-2206
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Through the use of

E X P E R T A U T O S T A T S (R)

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DEVELOPED BY:
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Expert VIN DeCoder®

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Version Number 4.1.0.1

DeCoded VIN:

Model:

Engine Size:

Engine Description:

Horse Power:

Torque:

Injection System:

PSI: Ignition:

Manufacturer:

Assembly Plant:

Drive Wheels:

The First through Third characters (2C3) indicate a Dodge Passenger Car made in Canada

The Fourth character (C) indicates Active Belts (ASP) with Front Airbags, & Side Inflatable Restraints (All Rows)

The Fifth through Seventh characters (DXA) indicate a Charger and a Police series and a 4 door Sedan

The Eighth character (T) indicates the OEM engine: 5.7L / 348 cu.in., V8, DOHC

The Ninth character (the check digit) is entered as 6.

The VIN appears valid, the calculated value is 6.

The Tenth character (D) indicates the model year 2013

The Eleventh character (H) indicates the vehicle was made in the assembly plant in Brampton, Ontario

The Twelfth through Seventeenth characters (696310) indicate the Serial Number and are unique to this vehicle.

Expert AutoStats®

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

7/23/2023

2013 DODGE CHARGER 5.7L MSP POLICE PKG 4 DOOR SEDAN

Curb Weight: lbs. kg.
 Curb Weight Distribution - Front: % Rear: %
 Gross Vehicle Weight Rating: lbs. kg.
 Number of Tires on Vehicle:
 Drive wheels:

Horizontal Dimensions	Inches	Feet	Meters
Total Length	<input type="text" value="200"/>	<input type="text" value="16.67"/>	<input type="text" value="5.08"/>
wheelbase:	<input type="text" value="120"/>	<input type="text" value="10.00"/>	<input type="text" value="3.05"/>
Front Bumper to Front Axle:	<input type="text" value="35"/>	<input type="text" value="2.92"/>	<input type="text" value="0.89"/>
Front Bumper to Front of Front Well:	<input type="text" value="18"/>	<input type="text" value="1.50"/>	<input type="text" value="0.46"/>
Front Bumper to Front of Hood:	<input type="text" value="1"/>	<input type="text" value="0.08"/>	<input type="text" value="0.03"/>
Front Bumper to Base of windshield:	<input type="text" value="53"/>	<input type="text" value="4.42"/>	<input type="text" value="1.35"/>
Front Bumper to Top of windshield:	<input type="text" value="83"/>	<input type="text" value="6.92"/>	<input type="text" value="2.11"/>
Rear Bumper to Rear Axle:	<input type="text" value="45"/>	<input type="text" value="3.75"/>	<input type="text" value="1.14"/>
Rear Bumper to Rear of Rear Well:	<input type="text" value="27"/>	<input type="text" value="2.25"/>	<input type="text" value="0.69"/>
Rear Bumper to Rear of Trunk:	<input type="text" value="5"/>	<input type="text" value="0.42"/>	<input type="text" value="0.13"/>
Rear Bumper to Base of Rear Window:	<input type="text" value="27"/>	<input type="text" value="2.25"/>	<input type="text" value="0.69"/>
Width Dimensions			
Maximum width:	<input type="text" value="75"/>	<input type="text" value="6.25"/>	<input type="text" value="1.91"/>
Front Track:	<input type="text" value="63"/>	<input type="text" value="5.25"/>	<input type="text" value="1.60"/>
Rear Track:	<input type="text" value="64"/>	<input type="text" value="5.33"/>	<input type="text" value="1.63"/>
Vertical Dimensions			
Height:	<input type="text" value="58"/>	<input type="text" value="4.83"/>	<input type="text" value="1.47"/>
Ground to -			
Front Bumper (Top)	<input type="text" value="20"/>	<input type="text" value="1.67"/>	<input type="text" value="0.51"/>
Headlight - center	<input type="text" value="29"/>	<input type="text" value="2.42"/>	<input type="text" value="0.74"/>
Hood - top front:	<input type="text" value="31"/>	<input type="text" value="2.58"/>	<input type="text" value="0.79"/>
Base of Windshield	<input type="text" value="40"/>	<input type="text" value="3.33"/>	<input type="text" value="1.02"/>
Rear Bumper - top:	<input type="text" value="28"/>	<input type="text" value="2.33"/>	<input type="text" value="0.71"/>
Trunk - top rear:	<input type="text" value="43"/>	<input type="text" value="3.58"/>	<input type="text" value="1.09"/>
Base of Rear Window:	<input type="text" value="44"/>	<input type="text" value="3.67"/>	<input type="text" value="1.12"/>

2013 DODGE CHARGER 5.7L MSP POLICE PKG 4 DOOR SEDAN

Interior Dimensions	Inches	Feet	Meters
Front Seat Shoulder width	58	4.83	1.47
Front Seat to Headliner	39	3.25	0.99
Front Leg Room - seatback to floor (max)	42	3.50	1.07
Rear Seat Shoulder width	58	4.83	1.47
Rear Seat to Headliner	37	3.08	0.94
Front Leg Room - seatback to floor (min)	40	3.33	1.02
Seatbelts:	3pt - front and rear		
Airbags:	FRONT SEAT AIRBAGS + SIDE AIRBAGS		

Steering Data			
Turning Circle (Diameter)	468	39	11.89
Steering Ratio:	13.40:1		
Wheel Radius:			
Tire Size (OEM):	P225/60R18		

Acceleration & Braking Information

Brake Type:	ALL DISC
ABS System:	ALL WHEEL ABS

Braking, 60 mph to 0 (Hard pedal, no skid, dry pavement):

d = 133.0 ft t = 3.0 sec a = -29.1 ft/sec² G-force = -0.90

Acceleration:

0 to 30mph	t = 2.5 sec	a = 17.6 ft/sec ²	G-force = 0.55
0 to 60mph	t = 6.1 sec	a = 14.4 ft/sec ²	G-force = 0.45
45 to 65mph	t = 2.8 sec	a = 10.5 ft/sec ²	G-force = 0.33

Transmission Type: 5spd AUTOMATIC

Notes:

Federal Bumper Standard Requirements:	2.5	mph
This vehicles Rated Bumper Strength:	2.5	mph

N.S.D.C = 2013 - 2013

2013 DODGE CHARGER 5.7L MSP POLICE PKG 4 DOOR SEDAN

Other Information

Tip-Over Stability Ratio =	1.39	Stable
NHTSA Star Rating (calculated)		****

Center of Gravity (No Load):

	Inches	Feet	Meters
behind front axle	57.60	4.80	1.46
in front of rear axle	62.40	5.20	1.58
from side of vehicle	37.50	3.13	0.95
from ground	22.77	1.90	0.58
from front corner	99.91	8.33	2.54
from rear corner	113.76	9.48	2.89
from front bumper	92.60	7.72	2.35
from rear bumper	107.40	8.95	2.73

Moments of Inertia Approximations (No Load):

	lb*ft*sec ²	kg*m*sec ²
Yaw Moment of Inertia	3235.36	447.30
Pitch Moment of Inertia	3119.88	431.34
Roll Moment of Inertia	626.16	86.57

Front Profile Information

Angle Front Bumper to Hood Front	84.8	deg
Angle Front of Hood to windshield Base	9.8	deg
Angle Front of Hood to windshield Top	17.0	deg
Angle of windshield	28.1	deg
Angle of Steering Tires at Max Turn	29.4	deg

First Approximation Crush Factors:

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

$$V(\text{mph}) = \sqrt{(30 * CF * MID)}$$

KE Equivalent Speed (Front/Rear/Side)	=	21	CF
Bullet vehicle IMPACT SPEED estimation based on TARGET VEHICLE damage ONLY (Tested for Rear/Side Impact only)	=	27	CF

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

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

Expert VIN DeCoder®

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Version Number 4.1.0.1

DeCoded VIN:

Model:

Engine Size:

Engine Description:

Horse Power:

Torque:

Injection System:

PSI: Ignition:

Manufacturer:

Assembly Plant:

Drive Wheels:

The First through Third characters (2C3) indicate a Dodge Passenger Car made in Canada

The Fourth character (C) indicates Active Belts (ASP), Front Airbags (OSP) w/ Side Inflatable Restraints (All Rows)

The Fifth through Seventh characters (DXA) indicate a Charger and a Police series and a 4 door Sedan

The Eighth character (T) indicates the OEM engine: 5.7L / 348 cu.in., V8, DOHC

The Ninth character (the check digit) is entered as 8.

The VIN appears Valid, the calculated value is 8.

The Tenth character (G) indicates the model year 2016

The Eleventh character (H) indicates the vehicle was made in the assembly plant in Brampton, Ontario, Canada

The Twelfth through Seventeenth characters (147065) indicate the Serial Number and are unique to this vehicle.

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 4N6XPRT Systems
 8387 University Avenue
 La Mesa CA 91941

7/23/2023

2016 DODGE CHARGER 5.7L MSP POLICE PACKAGE 4 DOOR SEDAN

Curb Weight:		<input type="text" value="4325"/>	lbs.		<input type="text" value="1962"/>	kg.
Curb Weight Distribution -	Front:	<input type="text" value="53"/>	%	Rear:	<input type="text" value="47"/>	%
Gross Vehicle Weight Rating:		<input type="text" value="5525"/>	lbs.		<input type="text" value="2506"/>	kg.
Number of Tires on Vehicle:		<input type="text" value="4"/>				
Drive wheels:		<input type="text" value="REAR"/>				

Horizontal Dimensions	Inches	Feet	Meters
Total Length	<input type="text" value="198"/>	<input type="text" value="16.50"/>	<input type="text" value="5.03"/>
wheelbase:	<input type="text" value="120"/>	<input type="text" value="10.00"/>	<input type="text" value="3.05"/>
Front Bumper to Front Axle:	<input type="text" value="38"/>	<input type="text" value="3.17"/>	<input type="text" value="0.97"/>
Front Bumper to Front of Front Well:	<input type="text" value="21"/>	<input type="text" value="1.75"/>	<input type="text" value="0.53"/>
Front Bumper to Front of Hood:	<input type="text" value="4"/>	<input type="text" value="0.33"/>	<input type="text" value="0.10"/>
Front Bumper to Base of windshield:	<input type="text" value="51"/>	<input type="text" value="4.25"/>	<input type="text" value="1.30"/>
Front Bumper to Top of windshield:	<input type="text" value="84"/>	<input type="text" value="7.00"/>	<input type="text" value="2.13"/>
Rear Bumper to Rear Axle:	<input type="text" value="40"/>	<input type="text" value="3.33"/>	<input type="text" value="1.02"/>
Rear Bumper to Rear of Rear Well:	<input type="text" value="27"/>	<input type="text" value="2.25"/>	<input type="text" value="0.69"/>
Rear Bumper to Rear of Trunk:	<input type="text" value="3"/>	<input type="text" value="0.25"/>	<input type="text" value="0.08"/>
Rear Bumper to Base of Rear Window:	<input type="text" value="23"/>	<input type="text" value="1.92"/>	<input type="text" value="0.58"/>

Width Dimensions	Inches	Feet	Meters
Maximum width:	<input type="text" value="75"/>	<input type="text" value="6.25"/>	<input type="text" value="1.91"/>
Front Track:	<input type="text" value="63"/>	<input type="text" value="5.25"/>	<input type="text" value="1.60"/>
Rear Track:	<input type="text" value="64"/>	<input type="text" value="5.33"/>	<input type="text" value="1.63"/>

Vertical Dimensions	Inches	Feet	Meters
Height:	<input type="text" value="58"/>	<input type="text" value="4.83"/>	<input type="text" value="1.47"/>
Ground to -			
Front Bumper (Top)	<input type="text" value="22"/>	<input type="text" value="1.83"/>	<input type="text" value="0.56"/>
Headlight - center	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Hood - top front:	<input type="text" value="28"/>	<input type="text" value="2.33"/>	<input type="text" value="0.71"/>
Base of Windshield	<input type="text" value="39"/>	<input type="text" value="3.25"/>	<input type="text" value="0.99"/>
Rear Bumper - top:	<input type="text" value="25"/>	<input type="text" value="2.08"/>	<input type="text" value="0.64"/>
Trunk - top rear:	<input type="text" value="43"/>	<input type="text" value="3.58"/>	<input type="text" value="1.09"/>
Base of Rear Window:	<input type="text" value="43"/>	<input type="text" value="3.58"/>	<input type="text" value="1.09"/>

2016 DODGE CHARGER 5.7L MSP POLICE PACKAGE 4 DOOR SEDAN

Interior Dimensions	Inches	Feet	Meters
Front Seat Shoulder width	60	5.00	1.52
Front Seat to Headliner	39	3.25	0.99
Front Leg Room - seatback to floor (max)	42	3.50	1.07
Rear Seat Shoulder width	58	4.83	1.47
Rear Seat to Headliner	37	3.08	0.94
Front Leg Room - seatback to floor (min)	40	3.33	1.02

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

Steering Data	Inches	Feet	Meters
Turning Circle (Diameter)	456	38	11.58
Steering Ratio:	14.40:1		
Wheel Radius:	13	1.08	0.33
Tire Size (OEM):	P245/55R18		

Acceleration & Braking Information

Brake Type: ALL DISC
 ABS System: ALL WHEEL ABS

Braking, 60 mph to 0 (Hard pedal, no skid, dry pavement):

d = 122.0 ft t = 2.8 sec a = -31.7 ft/sec² G-force = -0.98

Acceleration:

0 to 30mph	t = 2.7 sec	a = 16.3 ft/sec ²	G-force = 0.51
0 to 60mph	t = 6.5 sec	a = 13.5 ft/sec ²	G-force = 0.42
45 to 65mph	t = 3.0 sec	a = 9.8 ft/sec ²	G-force = 0.31

Transmission Type: AUTOMATIC

Notes:

Federal Bumper Standard Requirements: 2.5 mph
 This vehicles Rated Bumper Strength: 2.5 mph

N.S.D.C = 2016 - 2016

2016 DODGE CHARGER 5.7L MSP POLICE PACKAGE 4 DOOR SEDAN

Other Information

Tip-Over Stability Ratio =	1.39	Stable
NHTSA Star Rating (calculated)		****

Center of Gravity (No Load):

	Inches	Feet	Meters
behind front axle	56.40	4.70	1.43
in front of rear axle	63.60	5.30	1.62
from side of vehicle	37.50	3.13	0.95
from ground	22.77	1.90	0.58
from front corner	101.58	8.46	2.58
from rear corner	110.18	9.18	2.80
from front bumper	94.40	7.87	2.40
from rear bumper	103.60	8.63	2.63

Moments of Inertia Approximations (No Load):

	lb*ft*sec ²	kg*m*sec ²
Yaw Moment of Inertia	3248.75	449.16
Pitch Moment of Inertia	3132.75	433.12
Roll Moment of Inertia	628.50	86.89

Front Profile Information

Angle Front Bumper to Hood Front	56.3	deg
Angle Front of Hood to windshield Base	13.2	deg
Angle Front of Hood to windshield Top	19.3	deg
Angle of windshield	27.3	deg
Angle of Steering Tires at Max Turn	30.2	deg

First Approximation Crush Factors:

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

$$V(\text{mph}) = \sqrt{(30 * CF * MID)}$$

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 independent evaluation of speed was possible. (These are NOT 'A', 'B', 'C', or 'G' values)

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

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Version Number 4.1.0.1

DeCoded VIN:

Model:

Engine Size:

Engine Description:

Horse Power:

Torque:

Injection System:

PSI: Ignition:

Manufacturer:

Assembly Plant:

Drive Wheels:

The First through Third characters (2C3) indicate a Dodge Passenger Car made in Canada

The Fourth character (C) indicates Active Belts (ASP) with Front Airbags, & Side Inflatable Restraints (All Rows)

The Fifth through Seventh characters (DXA) indicate a Charger and a Police series and a 4 door Sedan

The Eighth character (T) indicates the OEM engine: 5.7L / 348 cu.in., V8, DOHC

The Ninth character (the check digit) is entered as 0.

The VIN appears valid, the calculated value is 0.

The Tenth character (F) indicates the model year 2015

The Eleventh character (H) indicates the vehicle was made in the assembly plant in Brampton, Ontario

The Twelfth through Seventeenth characters (826245) indicate the Serial Number and are unique to this vehicle.

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 4N6XPRT Systems
 8387 University Avenue
 La Mesa CA 91941

7/23/2023

2015 DODGE CHARGER 3.6L (AR=2.62) MSP POLICE PKG 4 DOOR SEDAN

Curb Weight: lbs. kg.
 Curb Weight Distribution - Front: % Rear: %
 Gross Vehicle Weight Rating: lbs. kg.
 Number of Tires on Vehicle:
 Drive wheels:

Horizontal Dimensions	Inches	Feet	Meters
Total Length	<input type="text" value="198"/>	<input type="text" value="16.50"/>	<input type="text" value="5.03"/>
wheelbase:	<input type="text" value="120"/>	<input type="text" value="10.00"/>	<input type="text" value="3.05"/>
Front Bumper to Front Axle:	<input type="text" value="38"/>	<input type="text" value="3.17"/>	<input type="text" value="0.97"/>
Front Bumper to Front of Front Well:	<input type="text" value="21"/>	<input type="text" value="1.75"/>	<input type="text" value="0.53"/>
Front Bumper to Front of Hood:	<input type="text" value="4"/>	<input type="text" value="0.33"/>	<input type="text" value="0.10"/>
Front Bumper to Base of windshield:	<input type="text" value="51"/>	<input type="text" value="4.25"/>	<input type="text" value="1.30"/>
Front Bumper to Top of windshield:	<input type="text" value="84"/>	<input type="text" value="7.00"/>	<input type="text" value="2.13"/>
Rear Bumper to Rear Axle:	<input type="text" value="40"/>	<input type="text" value="3.33"/>	<input type="text" value="1.02"/>
Rear Bumper to Rear of Rear Well:	<input type="text" value="27"/>	<input type="text" value="2.25"/>	<input type="text" value="0.69"/>
Rear Bumper to Rear of Trunk:	<input type="text" value="3"/>	<input type="text" value="0.25"/>	<input type="text" value="0.08"/>
Rear Bumper to Base of Rear Window:	<input type="text" value="23"/>	<input type="text" value="1.92"/>	<input type="text" value="0.58"/>
Width Dimensions			
Maximum width:	<input type="text" value="75"/>	<input type="text" value="6.25"/>	<input type="text" value="1.91"/>
Front Track:	<input type="text" value="63"/>	<input type="text" value="5.25"/>	<input type="text" value="1.60"/>
Rear Track:	<input type="text" value="64"/>	<input type="text" value="5.33"/>	<input type="text" value="1.63"/>
Vertical Dimensions			
Height:	<input type="text" value="58"/>	<input type="text" value="4.83"/>	<input type="text" value="1.47"/>
Ground to -			
Front Bumper (Top)	<input type="text" value="22"/>	<input type="text" value="1.83"/>	<input type="text" value="0.56"/>
Headlight - center	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Hood - top front:	<input type="text" value="28"/>	<input type="text" value="2.33"/>	<input type="text" value="0.71"/>
Base of Windshield	<input type="text" value="39"/>	<input type="text" value="3.25"/>	<input type="text" value="0.99"/>
Rear Bumper - top:	<input type="text" value="25"/>	<input type="text" value="2.08"/>	<input type="text" value="0.64"/>
Trunk - top rear:	<input type="text" value="43"/>	<input type="text" value="3.58"/>	<input type="text" value="1.09"/>
Base of Rear Window:	<input type="text" value="43"/>	<input type="text" value="3.58"/>	<input type="text" value="1.09"/>

2015 DODGE CHARGER 3.6L (AR=2.62) MSP POLICE PKG 4 DOOR SEDAN

Interior Dimensions	Inches	Feet	Meters
Front Seat Shoulder width	60	5.00	1.52
Front Seat to Headliner	39	3.25	0.99
Front Leg Room - seatback to floor (max)	42	3.50	1.07
Rear Seat Shoulder width	58	4.83	1.47
Rear Seat to Headliner	37	3.08	0.94
Front Leg Room - seatback to floor (min)	40	3.33	1.02
Seatbelts:	3pt - front and rear		
Airbags:	FRONT SEAT AIRBAGS + SIDE AIRBAGS		

Steering Data			
Turning Circle (Diameter)	456	38	11.58
Steering Ratio:	14.40:1		
Wheel Radius:	13	1.08	0.33
Tire Size (OEM):	P245/55R18		

Acceleration & Braking Information

Brake Type:	ALL DISC
ABS System:	ALL WHEEL ABS

Braking, 60 mph to 0 (Hard pedal, no skid, dry pavement):

d = 124.0 ft t = 2.8 sec a = -31.2 ft/sec² G-force = -0.97

Acceleration:

0 to 30mph	t = 3.3 sec	a = 13.3 ft/sec ²	G-force = 0.41
0 to 60mph	t = 8.1 sec	a = 10.9 ft/sec ²	G-force = 0.34
45 to 65mph	t = 3.8 sec	a = 7.7 ft/sec ²	G-force = 0.24

Transmission Type: AUTOMATIC

Notes:

Federal Bumper Standard Requirements:	2.5	mph
This vehicles Rated Bumper Strength:	2.5	mph

N.S.D.C = 2015 - 2015

Expert AutoStats®

2015 DODGE CHARGER 3.6L (AR=2.62) MSP POLICE PKG 4 DOOR SEDAN

Other Information

Tip-Over Stability Ratio =	1.39	Stable
NHTSA Star Rating (calculated)		****

Center of Gravity (No Load):

	Inches	Feet	Meters
behind front axle	56.40	4.70	1.43
in front of rear axle	63.60	5.30	1.62
from side of vehicle	37.50	3.13	0.95
from ground	22.77	1.90	0.58
from front corner	101.58	8.46	2.58
from rear corner	110.18	9.18	2.80
from front bumper	94.40	7.87	2.40
from rear bumper	103.60	8.63	2.63

Moments of Inertia Approximations (No Load):

	lb*ft*sec ²	kg*m*sec ²
Yaw Moment of Inertia	3014.94	416.83
Pitch Moment of Inertia	2908.02	402.05
Roll Moment of Inertia	587.64	81.24

Front Profile Information

Angle Front Bumper to Hood Front	56.3	deg
Angle Front of Hood to windshield Base	13.2	deg
Angle Front of Hood to windshield Top	19.3	deg
Angle of windshield	27.3	deg
Angle of Steering Tires at Max Turn	30.2	deg

First Approximation Crush Factors:

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

$$V(\text{mph}) = \sqrt{(30 * CF * MID)}$$

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 independent evaluation of speed was possible. (These are NOT 'A', 'B', 'C', or 'G' values)

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

Expert VIN DeCoder®

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Version Number 4.1.0.1

DeCoded VIN:

Model:

Engine Size:

Engine Description:

Horse Power:

Torque:

Injection System:

PSI: Ignition:

Manufacturer:

Assembly Plant:

Drive Wheels:

The First through Third characters (2G1) indicate a Chevrolet Passenger Car made in Canada

The Fourth through Fifth characters (WS) indicate an Impala Police Sedan

The Sixth character (5) indicates a 4 door Sedan

The Seventh character (5) indicates Manual Belts w/Driver & Passenger and Side Air Bags

The Eighth character (1) indicates the OEM engine: 3.9L / 238 cu.in., V6 OHV

The Ninth character (the check digit) is entered as 9.

The VIN appears valid, the calculated value is 9.

The Tenth character (6) indicates the model year 2006

The Eleventh character (9) indicates the vehicle was made in the assembly plant in Oshawa #1, ON

The Twelfth through Seventeenth characters (318208) indicate the Serial Number and are unique to this vehicle.

Expert AutoStats®

Version 6.3.1.1
 Copyright 2023 - All Rights Reserved

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

7/25/2023

2006 CHEVROLET IMPALA MSP POLICE PACKAGE 4 DOOR SEDAN

Curb Weight:	<input type="text" value="3725"/>	lbs.	<input type="text" value="1690"/>	kg.
Curb Weight Distribution -	Front: <input type="text" value="62"/>	%	Rear: <input type="text" value="38"/>	%
Gross Vehicle Weight Rating:	<input type="text" value="4678"/>	lbs.	<input type="text" value="2122"/>	kg.
Number of Tires on Vehicle:	<input type="text" value="4"/>			
Drive wheels:	<input type="text" value="FRONT"/>			

Horizontal Dimensions	Inches	Feet	Meters
Total Length	<input type="text" value="200"/>	<input type="text" value="16.67"/>	<input type="text" value="5.08"/>
wheelbase:	<input type="text" value="111"/>	<input type="text" value="9.25"/>	<input type="text" value="2.82"/>
Front Bumper to Front Axle:	<input type="text" value="42"/>	<input type="text" value="3.50"/>	<input type="text" value="1.07"/>
Front Bumper to Front of Front Well:	<input type="text" value="26"/>	<input type="text" value="2.17"/>	<input type="text" value="0.66"/>
Front Bumper to Front of Hood:	<input type="text" value="7"/>	<input type="text" value="0.58"/>	<input type="text" value="0.18"/>
Front Bumper to Base of windshield:	<input type="text" value="50"/>	<input type="text" value="4.17"/>	<input type="text" value="1.27"/>
Front Bumper to Top of windshield:	<input type="text" value="83"/>	<input type="text" value="6.92"/>	<input type="text" value="2.11"/>
Rear Bumper to Rear Axle:	<input type="text" value="47"/>	<input type="text" value="3.92"/>	<input type="text" value="1.19"/>
Rear Bumper to Rear of Rear Well:	<input type="text" value="33"/>	<input type="text" value="2.75"/>	<input type="text" value="0.84"/>
Rear Bumper to Rear of Trunk:	<input type="text" value="9"/>	<input type="text" value="0.75"/>	<input type="text" value="0.23"/>
Rear Bumper to Base of Rear Window:	<input type="text" value="26"/>	<input type="text" value="2.17"/>	<input type="text" value="0.66"/>

Width Dimensions	Inches	Feet	Meters
Maximum width:	<input type="text" value="73"/>	<input type="text" value="6.08"/>	<input type="text" value="1.85"/>
Front Track:	<input type="text" value="61"/>	<input type="text" value="5.08"/>	<input type="text" value="1.55"/>
Rear Track:	<input type="text" value="61"/>	<input type="text" value="5.08"/>	<input type="text" value="1.55"/>

Vertical Dimensions	Inches	Feet	Meters
Height:	<input type="text" value="59"/>	<input type="text" value="4.92"/>	<input type="text" value="1.50"/>
Ground to -			
Front Bumper (Top)	<input type="text" value="23"/>	<input type="text" value="1.92"/>	<input type="text" value="0.58"/>
Headlight - center	<input type="text" value="28"/>	<input type="text" value="2.33"/>	<input type="text" value="0.71"/>
Hood - top front:	<input type="text" value="30"/>	<input type="text" value="2.50"/>	<input type="text" value="0.76"/>
Base of Windshield	<input type="text" value="38"/>	<input type="text" value="3.17"/>	<input type="text" value="0.97"/>
Rear Bumper - top:	<input type="text" value="28"/>	<input type="text" value="2.33"/>	<input type="text" value="0.71"/>
Trunk - top rear:	<input type="text" value="44"/>	<input type="text" value="3.67"/>	<input type="text" value="1.12"/>
Base of Rear Window:	<input type="text" value="45"/>	<input type="text" value="3.75"/>	<input type="text" value="1.14"/>

2006 CHEVROLET IMPALA MSP POLICE PACKAGE 4 DOOR SEDAN

Interior Dimensions	Inches	Feet	Meters
Front Seat Shoulder width	59	4.92	1.50
Front Seat to Headliner	39	3.25	0.99
Front Leg Room - seatback to floor (max)	42	3.50	1.07
Rear Seat Shoulder width	59	4.92	1.50
Rear Seat to Headliner	38	3.17	0.97
Front Leg Room - seatback to floor (min)	38	3.17	0.97
Seatbelts:	3pt - front and rear		
Airbags:	FRONT SEAT AIRBAGS		

Steering Data			
Turning Circle (Diameter)	456	38	11.58
Steering Ratio:	:1		
Wheel Radius:			
Tire Size (OEM):	P225/60R16		

Acceleration & Braking Information

Brake Type:	ALL DISC
ABS System:	ALL WHEEL ABS

Braking, 60 mph to 0 (Hard pedal, no skid, dry pavement):

d = 139.0 ft t = 3.2 sec a = -27.8 ft/sec² G-force = -0.86

Acceleration:

0 to 30mph	t = 3.3 sec	a = 13.3 ft/sec ²	G-force = 0.41
0 to 60mph	t = 8.7 sec	a = 10.1 ft/sec ²	G-force = 0.31
45 to 65mph	t = 4.7 sec	a = 6.2 ft/sec ²	G-force = 0.20

Transmission Type: 4spd AUTOMATIC

Notes:

Federal Bumper Standard Requirements:	2.5	mph
This vehicles Rated Bumper Strength:	2.5	mph

N.S.D.C = 2006 - 2006

2006 CHEVROLET IMPALA MSP POLICE PACKAGE 4 DOOR SEDAN

Other Information

Tip-Over Stability Ratio =	1.32	Stable
NHTSA Star Rating (calculated)		****

Center of Gravity (No Load):

	Inches	Feet	Meters
behind front axle	42.18	3.52	1.07
in front of rear axle	68.82	5.73	1.75
from side of vehicle	36.50	3.04	0.93
from ground	23.16	1.93	0.59
from front corner	91.75	7.65	2.33
from rear corner	121.44	10.12	3.08
from front bumper	84.18	7.02	2.14
from rear bumper	115.82	9.65	2.94

Moments of Inertia Approximations (No Load):

	lb*ft*sec ²	kg*m*sec ²
Yaw Moment of Inertia	2630.75	363.71
Pitch Moment of Inertia	2538.75	350.99
Roll Moment of Inertia	520.50	71.96

Front Profile Information

Angle Front Bumper to Hood Front	45.0	deg
Angle Front of Hood to windshield Base	10.5	deg
Angle Front of Hood to windshield Top	19.6	deg
Angle of windshield	29.9	deg
Angle of Steering Tires at Max Turn	27.9	deg

First Approximation Crush Factors:

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

$$V(\text{mph}) = \sqrt{(30 * CF * MID)}$$

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 independent evaluation of speed was possible. (These are NOT 'A', 'B', 'C', or 'G' values)

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

4N6XPRT Systems

Expert System Software for Litigation

8387 University Avenue
La Mesa, CA 91942

Phone: (619) 464-3478
Fax: (619) 464-2206
Toll Free: 1- 800-266-9778

Web Site: <http://www.4n6xpert.com>

E-Mail: 4n6@4n6xpert.com

Dear Conference Attendee,

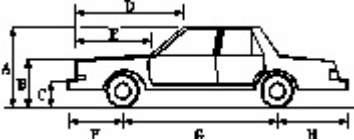
We at 4N6XPRT Systems were pleased to be able to provide you with the preceding data for the crash test vehicles.

Information regarding the Services available to you through our company, as well as the Programs used to create the data report follows this page.

We look forward to providing you similar information in the near future.

Sincerely,

Daniel W. Vomhof III
Daniel W. Vomhof, Ph.D.



Expert AutoStats®

Expert AutoStats® is a program that has over 50,000 cars, pick-ups, vans, and utility vehicles that range in years from the 1940's to the present. Expert AutoStats® has specifications that can assist in reconstructing accidents when the data for the vehicle is unavailable or the vehicle is too severely damaged to get correct measurements.

For many vehicles mid-1960's to present, data such as bumper height, front and rear overhang, hood height, etc., are also included.

Model	Data Page 1	Data Page 2	Data Page 3	Printer	File Output	DXF Output
2011 FORD POLICE INTERCEPTOR (3.27) MSP POLICE PKG 4 DOOR SEDAN						
Horizontal Dimensions			Vertical Dimensions			
Length	212 in.	Height	58 in.			
Wheelbase	115 in.	Ground to:				
Front Bumper to Front Axle	43 in.	Front Bumper (Top)	23 in.			
Front Bumper to Front of Hood	8 in.	Headlight - Center	27 in.			
Front Bumper to Base of Windshield	65 in.	Hood - Top Front	31 in.			
Front Bumper to Top of Windshield	91 in.	Base of Windshield	39 in.			
Front Bumper to Front Wheel Well	26 in.	Rear Bumper (Top)	25 in.			
Rear Bumper to Rear of Trunk	8 in.	Trunk - Top Rear	39 in.			
Rear Bumper to Base of Rear Window	38 in.	Base of Rear Window	40 in.			
Rear Bumper to Rear Well	38 in.					
Rear Bumper to Rear Axle	54 in.					
Depth Dimensions			Weight Dimensions			
Width	78 in.	Curb Weight	4184 lbs.			
Front Track	63 in.	Curb Weight Distribution:				
Rear Track	66 in.	Front =	56 %			
		Rear =	44 %			
		Gross Vehicle Weight Rating	5500 lbs.			

4N6XPRT BioMeknx®



Collecting the Biomechanical data of importance to the Accident Investigator into one easily accessible reference location

Biomechanics is the application of physics to describe, evaluate, or model living tissue and biological materials. Originally it was the application of the part of physics known as Mechanics to living systems. This is the same portion of physics which is used as the basis for much of accident reconstruction.

Biomechanics is important in many aspects of forensic work from vehicle accident reconstruction to slip-trip-stumble-fall cases. This particular program contains modules containing information on a variety of biomechanics and injury modalities, physical data found in the literature for failure of bone and tissue, calculation modules to evaluate individual specific parameters, and definitions and terminology used in the literature and found in medical reports.

4N6XPRT BioMeknx® is a program designed for the accident investigator. The BioMeknx program incorporates information from a number of different sources, as well as over 30 years of reconstruction experience. 4N6XPRT BioMeknx™ compiles into one source a number of items of information to assist in reconstructing accidents by tying in the human component more tightly without the need to be a BioMechanics expert. Identification of body location, body part illustrations, failure threshold limits, definitions of terms, calculation modules for body link lengths, weights, stride lengths, and formulas for other types of calculations are only some of the material included in the program.

To gather into your library the material included in the 4N6XPRT BioMeknx™, you would need a minimum of 10-15 Anatomy and Physiology, Human Factors, and Biomechanics books, as well as conduct over 50 hours of internet research.

3FAPP1280MR117253

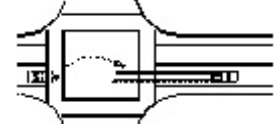
Expert VIN DeCoder®



Expert VIN DeCoder® is a program that “DeCodes” the 17 character VIN number for Cars, Vans, Pickups, and Utility vehicles manufactured from 1981 to the present.

Cars/Vans/Utility/Lt. Trucks Modules: 1981 to Present

Ford Chevrolet/Geo
Mercury/Lincoln Pontiac / Buick / Oldsmobile
Chrysler/AMC/Jeep Cadillac/Saturn
European Import Asian Import



4N6XPRT

Ped & Bike Calcs®

The 4N6XPRT Ped & Bike Calcs® program is a program that provides FIRST ESTIMATE calculations to evaluate the speed of a vehicle involved in striking a pedestrian or bicyclist, IF Vehicle, scene, and pedestrian {or pedestrian and bicycle in a vehicle-bike accident} measurements are available. This program may also be used when skateboards or roller skates are involved.



Expert Qwic Calcs®

Expert Qwic Calcs® quickly provides answers to questions important in vehicle collision litigation. The user inputs data in response to relevant questions, Expert Qwic Calcs® performs the mathematical calculations required. Both the input data and the calculated result are then displayed, and may be “dumped” to a printer.

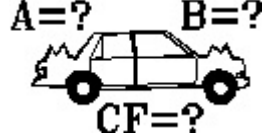
When the law enforcement accident report gives insufficient information to do a full - blown accident reconstruction, Expert Qwic Calcs® may be used to “scope out” the parameters of speeds, times, and distances to determine these relationships in a vehicle accident.



Expert TireStuf®

The Expert TireStuf® program is a Menu Driven program which has 19 modules explaining the various tire size designation systems, the information which MAY be in the DOT tire number, the DOT mandated Tire Grading system, Lug Nut Tightening and Tire Rotation schemes, Mix and Match precautions, a glossary of Tire Terms, and Addresses of a few of the sources of additional information on tires and rims.

Also included is a calculation of the number of revolutions in one mile given the tire dimensions.



4N6XPRT StifCalcs®

4N6XPRT StifCalcs®. Is a program which puts the NHTSA Crash Test database at your fingertips with no need to access the internet in order to obtain Stiffness Values!

In addition to the NHTSA Crash Test data, the program includes a “Similar Vehicle List Reader” which allows quick retrieval of the data for the desired and “similar” vehicle(s). This will drive the initial selection of the available tests. Alternatively, we have an ADVANCED SEARCH module which allows the creation of “Class” vehicles.

WITHOUT THE INTERNET the user can:

- ★ Lookup individual tests and get basic front, side, and rear STIFFNESS VALUES from these tests. The values are based on the reported crush depths and lengths within each test.
- ★ Obtain Similar Vehicle group summary STIFFNESS data with Statistical measures.
- ★ Create “CLASS” vehicles and get summary STIFFNESS data with Statistical measures.

FRONTAL STATISTICAL MEASURES EXAMPLE:

	Vehicle Width			
	A	B	G	Kv
Average (AVG)	305.7	93.5	523.6	143.1
Minimum (MIN)	115.0	13.2	465.2	23.5
Maximum (MAX)	461.6	200.0	614.1	387.3
Standard Deviation (STDev-sample)	73.4	38.4	36.2	72.8
Number of Tests (n)	53			

WITH THE INTERNET the user can:

- ★ RESEARCH and download the PICTURES, VIDEOS, and and REPORTS available for individual tests.

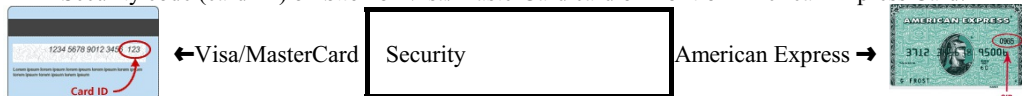
Please use this order form when ordering. Due to conditions and rising costs beyond our control, Shipping & Handling for program orders must be paid per the included schedule.

Contact Name: _____
 Title: _____
 Company/Organization: _____
 Street: _____
 City: _____ State: _____ Zip: _____
 Phone: (____) _____ FAX: (____) _____
 E-Mail: _____

PAYMENT BY: Check ___ Money Order ___ Govt. Purchase Order ___

for Credit Card Orders, **please circle Credit Card type: Am. Express / Visa / MasterCard**, then complete the following:

Card Number: _____ Expiration Date (MM/YY): ____/____
 Security code (card ID) on **back of Visa/MasterCard** card or **front of American Express** Card:



Address for where the **credit card bill is sent**: _____
(This is the address that the credit card bill would go to, not where we would send the data or product to)
 Zip for where the **credit card bill is sent**: _____
(This is the zip code that the credit card bill would go to, not where we would send the data or product to)

PROGRAM ORDER FORM:
(Pricing effective as of 5/3/20 - prices subject to change without notice)

Expert AutoStats®:	\$ 675.00 *	\$ _____
4N6XPRT BioMeknx®:	\$ 550.00 *	\$ _____
4N6XPRT Ped & Bike Calcs®:	\$ 375.00 *	\$ _____
Expert Qwic Calcs®:	\$ 275.00 *	\$ _____
Expert TireStuf®:	\$ 85.00 *	\$ _____
4N6XPRT StifCalcs®:	\$ 700.00 *	\$ _____
Expert VIN DeCoder®:	\$ 575.00 *	\$ _____

SUB-TOTAL \$ _____

Handling **: \$ _____

*(Cash or Check with order = \$5.00, Credit Card = \$10.00 ,
 Govt. Purchase Order = \$15.00)*

Notarized Affidavit Filing Requirement \$ _____
(\$25.00 per required Notarized Signature)

Normal delivery is via electronic download

- Deliver via electronic download link (e-mail address required) \$ 0.00
 - Deliver on USB - **additional cost of \$50.00 / disk / program** \$ _____

SUB-TOTAL \$ _____

California shipping addresses add **8.5%** sales tax \$ _____
*(California orders delivered electronically **DO NOT** owe sales tax)*

TOTAL \$ _____

Authorized signature: _____

Individual Vehicle Data FAX/Order Form

- Expert VIN Decoder & Expert AutoStats
 - NHTSA Crash Test Results
 - BOTH
- Please circle ALL OPTIONS that apply*

YEAR & MAKE: _____

MODEL: _____

If you are requesting **VIN DeCoder & AutoStats** please also provide:

Vehicle Type: Car - Pickup - Utility - Van
 No. of Doors: 2/3/4/5
 Car Body Style: Coupe/Conv./Sedan/Wagon
 DRIVE WHEELS: 4x2 / 4x4
 PICKUPS: Dual Rear Wheel - Std. / Extra / Super / Crew Cab - Short Bed / Long Bed
 VANS: Cargo / Passenger - Short / Long Wheelbase

VIN Information

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	

NHTSA Crash Test Information
 Impact location - Front / Side / Rear
 Impact Speed - Lower / Higher

Case Reference/Number: _____

Individual Vehicle Data Search Service®

Charges & Services

Individual Vehicle Specifications

\$50.00-First vehicle*, \$40.00/Additional Vehicles*,
 \$30.00/Additional Similar Model*

Medium/Heavy Truck Specifications

\$50.00-First vehicle*, \$40.00/Additional Vehicles*,
 \$30.00/Additional Similar Model*

Motorcycle Specifications (1970+)

\$50.00-First cycle*, \$40.00/Additional cycles*,
 \$30.00/Additional Similar Model*

NHTSA Crash Test Results

\$50.00 per test - Includes A, B, & G values
 Calculations are based on the test results

Individual Vehicle Specifications

Now you can get the Expert AutoStats® data for the vehicles in your case **QUICKLY, EASILY, and ECONOMICALLY**, instead of guessing, or begging a printout from a friend.

Our vehicle database includes dimensions on over 50,000 Cars, Vans, Lt. Pickups, and Utility Vehicles covering 1945 to the present.

Minimum Vehicle specifications include:

Overall Length	Curb Weight
Overall Width	Weight Distribution
Overall Height	Front/Rear Track
Wheelbase	CG Location
Model years with No Significant Dimensional Changes VIN DeCoding when VIN is provided Information available	
Mid-60's to present also includes (when available)	
Front/Rear Overhang	Bumper Heights
Hood height	Turning Circle
Bumper-to-hood	Ground-to-hood

Dimensions are given in both Imperial and metric (SI) units.
 Motorcycle specifications will be similar to the Vehicle specifications with appropriate changes where applicable.

NHTSA Crash Test Results

Test results include: General Test information, Barrier Data when provided, Vehicle Data as reported by the testing organization, Occupant (Dummy) data when provided, and A-B-G Stiffness calculations based on the test results.

4N6XPRT Systems®

Providing Vehicle dimensional data, VIN DeCoding, and NHTSA Crash Test Results as a service to the Litigation community, in the form of:

Expert Systems Software Programs for Litigation

- Expert AutoStats®
- 4N6XPRT StifCalcs®
- 4N6XPRT BioMeknx®
- 4N6XPRT Ped & Bike Calcs®
- Expert Qwic Calcs®
- Expert TireStuf®
- Expert VIN DeCoder®

Vehicle Data Service

Individual Vehicle Data Search Service®

8387 University Avenue, Suite P
 La Mesa, CA 91942-9342

Phone: 1-800-266-9778

Fax: (619) 464-2206

E-Mail: 4n6@4n6xpert.com

Web: <http://www.4n6xpert.com>

Expert VIN DeCoder®

Expert VIN DeCoder® is a program that "DeCodes" the 17 character VIN number for vehicles manufactured from 1981 to the present.

Modules: 1981 to Present

Control Module - One Required per Set

Ford Cars (includes Festiva & Merkur)
Mercury/Lincoln Cars
Ford vans/Utility/Lt. Trucks

Chevrolet/Geo Cars
Pontiac/GM of Canada Cars
Oldsmobile Cars
Buick Cars
Cadillac/Saturn Cars

General Motors Vans/Utility/Lt. Trucks

Chrysler/AMC/Jeep Cars
Chrysler/Jeep Vans/Utility/Lt. Trucks

European Import Cars/Vans/Utility/Lt. Trucks
Asian Import Cars/Vans/Utility/Lt. Trucks

SYSTEM REQUIREMENTS

Expert VIN DeCoder® has been tested on a wide variety of IBM laptop and desktop clones ranging from 8088 through Pentium® chips. A math co-processor chip is NOT required. Expert VIN DeCoder® has also been tested under the various versions of MS-DOS 3.0 thru 7.0, DrDOS 6.0, and PC DOS 7.0. It also works as a DOS program under Windows 3.x, Windows, 95, Windows 98, Windows NT, OS/2 2.x, OS/2 Warp, and various versions of LINUX.

A variety of dot matrix printers emulating the EPSON series have been used with no difficulty. The output is also compatible with the Hewlett-Packard II, IIP, III and IIIP Laser printers. Expert VIN DeCoder® works with monochrome and color monitors.

As of April 1995 the 4N6XPRT Systems® programs Expert AutoStats®, Expert Qwic Calcs®, Expert TireStuf®, 4N6XPRT Ped & Bike Calcs®, and Expert VIN DeCoder® are accessible from within RECTEC.

PLEASE PRINT

Contact Name: _____
Company/Dept: _____
Mailing Address: _____
City: _____ State: _____ Zip: _____
Phone: _____
Fax: _____
E-Mail: _____

Expert VIN DeCoder®
_____ (copies) x \$575.00 = \$ _____
Handling **: \$ _____
(Check with order = \$5.00, Credit Card = \$10.00 , Govt. P.O.r = \$15.00)
Notarized Affidavit Filing Requirement \$ _____
(\$25.00 per required Notarized Signature)

Normal delivery is via electronic download

- Deliver via electronic download link (e-mail address required) \$ 0.00
 Please deliver on USB at an

additional cost of \$50.00 per disk \$ _____

SUB-TOTAL = \$ _____

CA Addresses add 8.5% sales tax = \$ _____
(California orders delivered by e-mail attachment **DO NOT** owe sales tax)

TOTAL = \$ _____

Enclosed is:

Check*/Money Order: ___ Credit Card: ___ P.O.: ___
Please make check*/M.O./P.O. payable to:

4N6XPRT Systems®

Credit Card Orders:

MasterCard: ___ Visa: ___ Am.Ex.: ___

Card #: _____
Expires: _____
Name on Card: _____
Signature: _____
Billing Add. #: _____
Billing Zip: _____

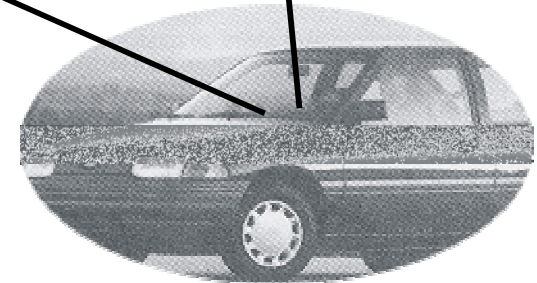
Mail to: 4N6XPRT Systems®
8387 University Avenue
La Mesa, CA 91942-9342

Telephone Orders:
Monday-Friday - 9:30am-5:00pm PST
Phone: (619) 464-3478 Fax: (619) 464-2206

*Orders will be shipped Priority Mail within 10 working days of receipt of order.
Prices subject to change WITHOUT NOTICE.
* Checks MUST be drawn from a bank in the U.S.A.*

Expert VIN DeCoder®

3FAPP1280MR117253



User Friendly Software to provide interpretation of the 17 character VIN Number on Cars, Lt. Pickups, Utility Vehicles, and Vans.

4N6XPRT Systems®

Forensic Expert Software
8387 University Avenue
La Mesa, CA 91942-9342

Web: <http://www.4n6xpirt.com>

E-Mail: VIN@4n6xpirt.com

1-800-266-9778

Expert VIN DeCoder® example

INPUT:

1) Enter VIN Numbers to be DeCoded: 3FAPP1280MR117253

3FA PP128 0 MR 117253

2) Is this the VIN Number to be DeCoded (Y/N)? **Y**

OUTPUT:

EXPERT VIN DeCoder

The VIN Number is 3FA PP128 0 MR 117253

The vehicle should be a 1991 Ford

The model: Escort 2/3-door Hatchback GT

The assembly plant: Hermosillo, Mexico

The 4 passenger vehicle had : Passive (Automatic) Front Belts

The OEM engine was: In-line 4 cylinder with Double Overhead Cam

Engine Displacement/Type = 1.8 L/ 112 cu.in. L4, DOHC

Brake Horsepower (SAE) = 127 @ 6500 rpm

Torque (SAE) = 114 lb-ft at 4500 rpm

Engine manufacturer = Mazda

The fuel distribution system: Electronic Fuel Injection (EFI)

Fuel pump/line pressure = 35-45 psi

The ignition system = electronic

This is a Front Wheel Drive vehicle.

The first three characters {3, F, A} indicates that the vehicle was a Ford made in Mexico

The fourth character {P} indicates the vehicle had Passive (Automatic) Front Belts

The fifth character {P} indicates it was a Passenger Car

The sixth with the seventh character {12} indicates a Escort 2/3-door Hatchback GT

The eighth character {8} indicates the OEM engine : 1.8 L/ 112 cu.in. L4, DOHC

The 9th Character { the Check Digit } is 0

The calculated Check Digit value is 0

The tenth character {M} indicates the Model Year was 1991

The eleventh character {R} indicates it was made at the assembly plant in Hermosillo, Mexico

The twelfth through the seventeenth characters { 117253 } is the Serial Number unique to this vehicle.

Expert AutoStats®

The Expert AutoStats® program contains data on more than 50,000 cars, pick-ups, vans, and utility vehicles that range in years from the 1940's to the present. The Expert AutoStats® base information can assist in reconstructing accidents when the data for the vehicle is unavailable or the vehicle is too severely damaged to get correct measurements. The program is currently relied upon by over 700 private and 300 Government entities within the United States for this very purpose. Additionally, for many vehicles mid-1960's to present, data such as bumper height, front and rear overhang, hood height, etc., are also included.

As of April 1995 the 4N6XPRT Systems® programs Expert AutoStats®, Expert Qwic Calcs®, Expert TireStuf®, and Expert VIN DeCoder® are accessible from within RECTEC.

SYSTEM REQUIREMENTS

Expert AutoStats® has been tested on a wide variety of IBM laptop and desktop clones ranging from 8088 through Pentium® chips. A math co-processor chip is NOT required. Expert AutoStats® has also been tested under the various versions of MS-DOS 3.0 thru 7.0, DrDOS 6.0, and PC DOS 7.0. It also works as a DOS program under Windows 3.x, Windows, 95, Windows 98, Windows NT, Windows Me, Windows 2000, Windows XP, Windows Vista/7/8/10, OS/2 2.x, OS/2 Warp, and various versions of LINUX.

A variety of dot matrix printers emulating the EPSON series have been used with no difficulty. The output is also compatible with the Hewlett-Packard II, IIP, III and IIIP Laser printers and Hewlett-Packard Desk Jet inkjet printers. Expert AutoStats® works with monochrome and color monitors.

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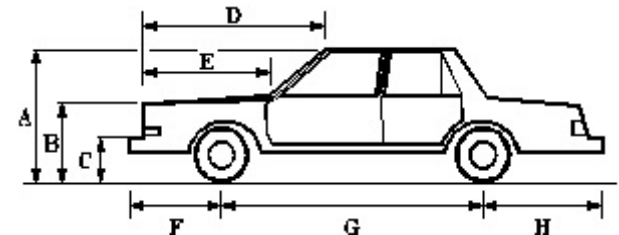
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Select Your Vehicle

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Version 5.2.0.2
Serial Number: 12R-930512AQ0301
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Model: Data Page 1 | Data Page 2 | Data Page 3 | Printer | File Output | DXF Output

Make of Vehicle: FORD
Year of Vehicle: 2011
Model of Vehicle: [Select the Manufacturer from the list below.]
Number of Doors: [Once a Manufacturer has been Selected the list of available Models will be below.]

Bodystyle of Vehicle: [Fill in the empty boxes to the left to narrow the search.]
 Car Pickup Other
 Van Utility

Manufact	Start Year	End Year
FRAZER	1947	1951
FRAZER NASH	1948	1957
FUNK & WILL	2002	2004
GENERIC	1979	1989
GEO	1987	1998
GLAS	1963	1966
GMK	1947	2011

PROVIDED BY:
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After typing in the Make, Year, and Type of vehicle, you are presented with the vehicles which are available for that year.

Screen 1

2011 FORD POLICE INTERCEPTOR (3.27) MSP POLICE PKG 4 DOOR SEDAN

Horizontal Dimensions		Vertical Dimensions	
Length	212 in.	Height	58 in.
Wheelbase	115 in.	Ground to:	
Front Bumper to Front Axle	43 in.	Front Bumper (Top)	23 in.
Front Bumper to Front of Hood	8 in.	Headlight - Center	27 in.
Front Bumper to Base of Windshield	65 in.	Hood - Top Front	31 in.
Front Bumper to Top of Windshield	91 in.	Base of Windshield	39 in.
Front Bumper to Front Wheel Well	26 in.	Rear Bumper (Top)	25 in.
Rear Bumper to Rear of Trunk	8 in.	Trunk - Top Rear	39 in.
Rear Bumper to Base of Rear Window	38 in.	Base of Rear Window	40 in.
Rear Bumper to Rear Well	38 in.		
Rear Bumper to Rear Axle	54 in.		

Weight Dimensions	
Curb Weight	4184 lbs.
Curb Weight Distribution:	
Front =	56 %
Rear =	44 %
Gross Vehicle Weight Rating	5500 lbs.

Depth Dimensions	
Width	78 in.
Front Track	63 in.
Rear Track	66 in.

The first screen of data contains exterior dimensions and weight data. Length, Height, Wheelbase, Width, and Weight Distribution are published dimensions. Curb Weight is an average of published curb weights for the given vehicle. Detail dimensions such as the bumper heights and Front Bumper to Front of

Hood are measurements obtained by our staff from actual vehicles.

Screen 2

2011 FORD POLICE INTERCEPTOR (3.27) MSP POLICE PKG 4 DOOR SEDAN

Acceleration/Braking					
Acceleration 0-30 mph	13.8	ft/sec ²	Bumper Strength	2.5	mph
Acceleration 0-60 mph	9.8	ft/sec ²	Steering Ratio	:1	
Acceleration 45-65 mph	6.5	ft/sec ²			
Braking 60-0 mph	138	feet			

Interior Dimensions	
Front Shoulder Room	61 in.
Front Head Room	40 in.
Front Leg Room	42 in.
Rear Shoulder Room	60 in.
Rear Head Room	38 in.
Rear Leg Room	38 in.

Drive Wheels: REAR
Turn Circle (Diameter): 40 feet
Number of Wheels: 4
Wheel Radius: 12 in.
Tire Size: P235/55R17

ALL DISC - ALL WHEEL ABS
3pt - front and rear - FRONT SEAT AIRBAGS
4spd AUTOMATIC

N.S.D.C. = 2011 - 2011
= Not in Database

The second screen of data contains interior dimensions and various performance data. The data contained in the second screen comes from various published sources.

Screen 3

2011 FORD POLICE INTERCEPTOR (3.27) MSP POLICE PKG 4 DOOR SEDAN

Angle Measurements			
Angle Front Bumper to Hood Front	=	45.0	degrees
Angle Front of Hood to Windshield Base	=	8.0	degrees
Angle Front of Hood to Windshield Top	=	16.8	degrees
Angle of Windshield	=	33.2	degrees
Angle of Steering Tires at Max Turn	=	27.5	degrees

Center of Gravity			
Inches from ground	=	22.77	
Inches behind front axle	=	50.60	
Inches from front bumper	=	93.60	
Inches from front corner	=	101.40	
Inches from side of vehicle	=	39.00	
Inches in front of rear axle	=	64.40	
Inches from rear bumper	=	118.40	
Inches from rear corner	=	124.66	
Tip-Over Stability Ratio	=	1.41	Stable
NHTSA Static Stability Factor (calculated) Star Rating	=	****	

Moments of Inertia			
Yaw Moment of Inertia	=	3103.52	Ib*ft*sec ²
Pitch Moment of Inertia	=	2993.16	Ib*ft*sec ²
Roll Moment of Inertia	=	603.12	Ib*ft*sec ²

The third and last screen contains a number of calculated items of information which may be of use depending upon the type of case, the

other software that you use, and the questions which need to be answered.

DXF Output Screen

2011 FORD POLICE INTERCEPTOR (3.27) MSP POLICE PKG 4 DOOR SEDAN

While every attempt has been made to ensure accurate data, these dimensions are meant to be used as first approximations. Some measurements are dependent on such factors as manufacturing variations from vehicle to vehicle. Whenever feasible, the vehicle in question or an exemplar vehicle should be measured TO VERIFY DATA IMPORTANT TO YOUR CASE. The provision of the DXF output is provided as an aide to your evaluation. It is not meant to be the final drawing of the vehicle.

DXF File Name: 2011_FORD_POLICE_INTERCEPTOR_(3.27)_MSP_POLICE_PKG_4_DOOR_SEDAN_

Length	212	Inches
Wheelbase	115	Inches
Width	78	Inches
Front Track	63	Inches
Rear Track	66	Inches
Front Overhang	43	Inches
Bumper to Base of windshield	65	Inches
Bumper to Top of windshield	91	Inches
Rear Bumper to Base of Rear window	38	Inches
Rear Bumper to Top of Rear window	64	Inches
Front Tire Diameter	24	Inches
Rear Tire Diameter	24	Inches
CG behind Front axle	50.6	Inches

Drawing Notation: On Off
Units: Inches Feet Meters

From within the Expert AutoStats program you have the ability to output the data to a 2-D DXF file for importation into your CAD Scene Drawings. The screen below shows an import of the DXF file with Text into the CAD Zone program.

CADZONE Import

The Crash Zone 8.1 [51473.DXF]

Line Types: [List of line types]

<- FRONT of 2011 FORD CROWN VICTORIA 4.6L MSP POLICE PACKAGE 4DR SEDAN

DXF Output Data:

- Length: 17.67 Feet
- Width: 6.50 Feet
- Front bumper to Front Axle: 3.67 Feet
- Wheelbase: 9.58 Feet
- Front Track: 5.25 Feet
- Rear Track: 5.33 Feet
- CG behind Front Axle: 4.31 Feet

4N6XPRT StifCalcs®

Introducing 4N6XPRT StifCalcs®. A program which puts the NHTSA Crash Test database at your fingertips with no need to access the internet in order to obtain Stiffness Values!

In addition to the NHTSA Crash Test data, the program includes a “Similar Vehicle Reader”. Initially developed in cooperation with Greg Anderson and maintained by 4N6XPRT Systems starting with the 2013 version. The reader allows quick retrieval of vehicles similar to the desired vehicle. The Reader drives the initial selection of the available tests. Alternatively, we have an ADVANCED SEARCH module which allows the creation of “CLASS” vehicles.

STIFFNESS DATA, based on the selected test or test grouping is automatically calculated based on the reported crush depths and widths for front, side, and rear tests.

The User can - **WITHOUT the need for the internet:**

- ★ Lookup individual tests and get basic front, side, or rear (as appropriate to the test) **STIFFNESS VALUES** from the selected test. The values are based on the reported crush depths and lengths within each test.
- ★ Obtain Similar Vehicle group summary **STIFFNESS VALUES** with Statistical measures.
- ★ Create “CLASS” vehicles and get summary **STIFFNESS VALUES** with Statistical measures.

FRONTAL STATISTICAL MEASURES

EXAMPLE:

	-----Vehicle Width-----			
	A	B	G	Kv
Average (AVG)	305.7	93.5	523.6	143.1
Minimum (MIN)	115.0	13.2	465.2	23.5
Maximum (MAX)	461.6	200.0	614.1	387.3
Standard Deviation (STDev-sample)	73.4	38.4	36.2	72.8
Number of Tests (n)	53			

WITH an internet connection the User will also be able to -

- ★ **RESEARCH** and **download** the **PICTURES**, **VIDEOS**, and **REPORTS**

that are available for the individual tests

SYSTEM REQUIREMENTS

4N6XPRT StifCalcs® is a MS-Windows program designed to work under a 32 or 64-bit (2000/XP/Vista/7/8/10) Windows System.

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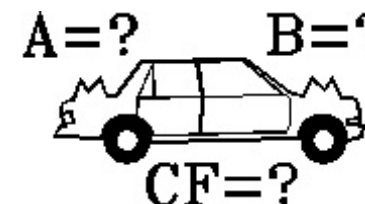
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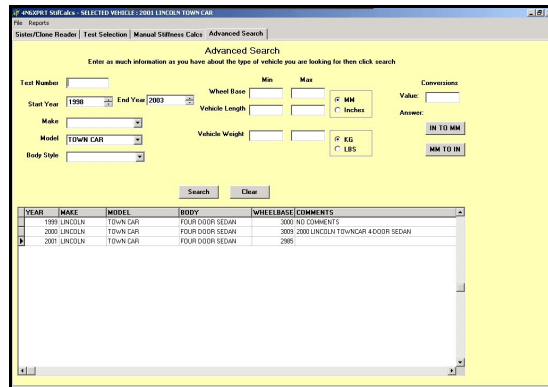
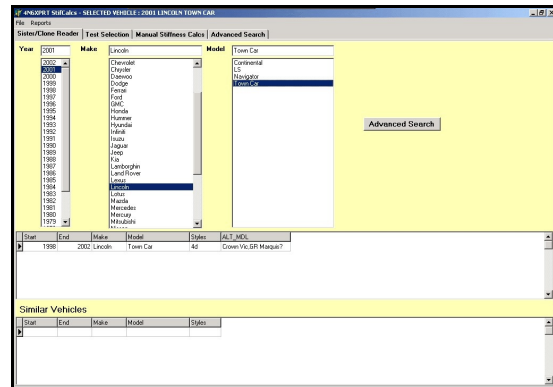
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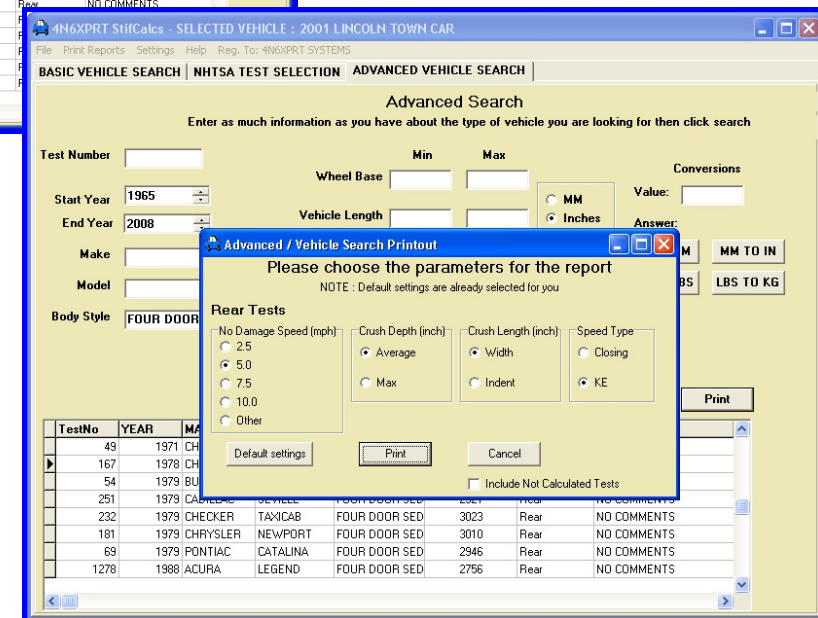
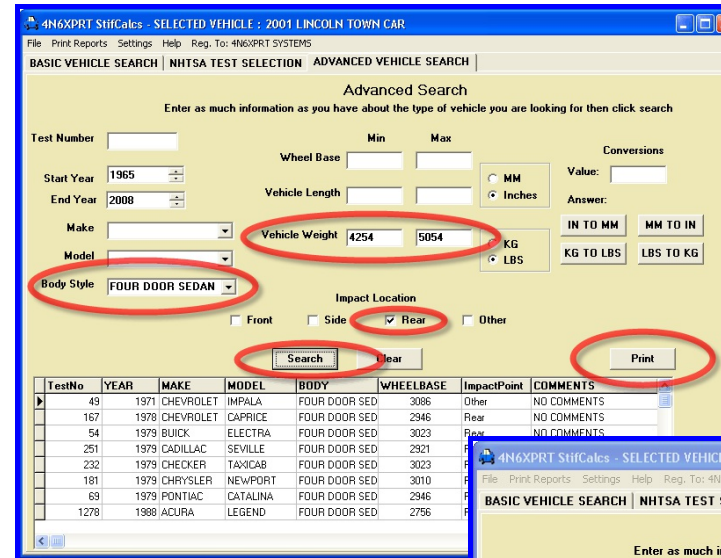
BASIC VEHICLE CRASH TEST SEARCH

Select the desired vehicle through our **SIMILAR VEHICLE READER**



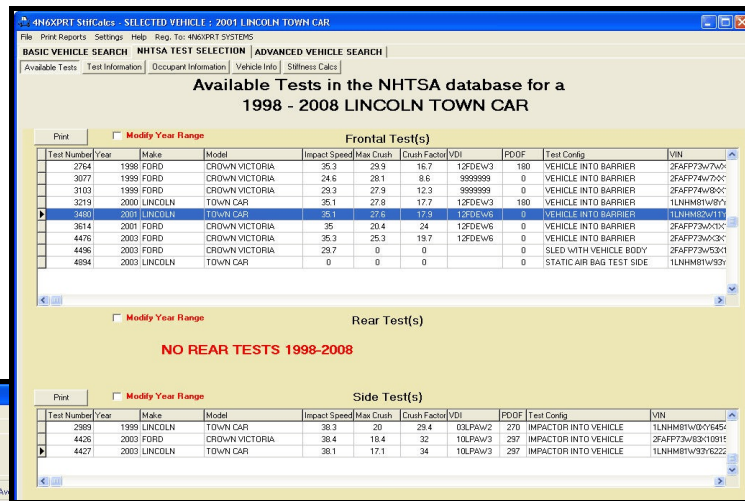
"CLASS" VEHICLE CRASH TEST SEARCH

Using the **ADVANCED SEARCH** tab, you can also create a **CLASS** of vehicle for when there are no tests available for the specific vehicle and test type. To create a class of **REAR IMPACT** stiffness values for the Lincoln, first set the **weight range**, **body style**, and **test type**, then **search** the database, when you have a sufficient number of tests (that is, more than one or two) that have been found, click the **PRINT** button:

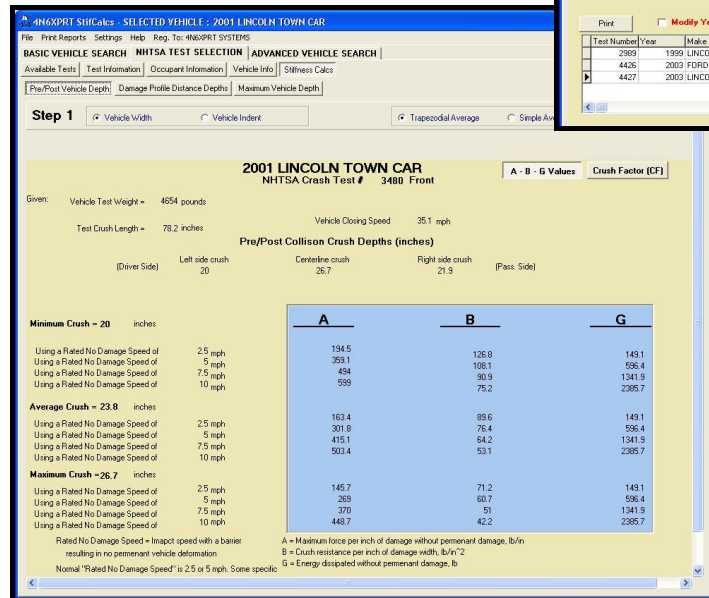


Now Set your calculation parameters - **No Damage Speed - Crush Depth - Indentation (Crush) Length - and Speed**, then view your results, and if desired, print them to hard copy

Once the desired vehicle is found/selected, click on the **Test Selection** tab. From here, select the test to be viewed

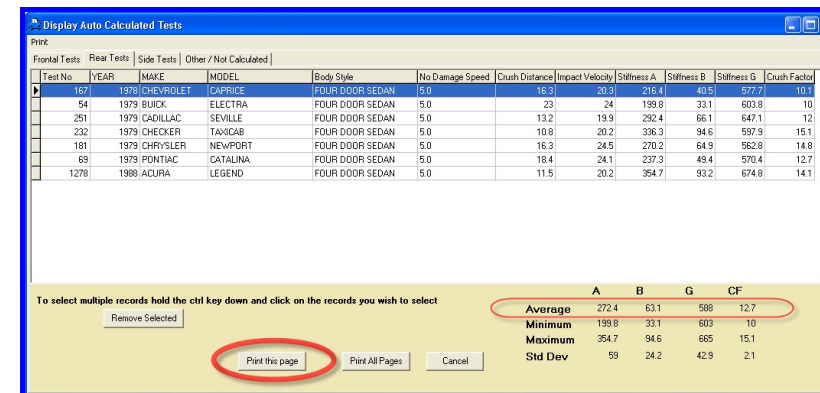


Once a test is selected, the available data



for the Test, Occupant(s), Vehicle(s), and Stiffness data can be viewed. The stiffness values are automatically generated from the available test data.

The program will calculate the



AVERAGE, MINIMUM, MAXIMUM, and Standard Deviation of the Stiffness Values calculated based upon the parameters you set in the preceding step.

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Card Number: _____

Expiration Date (MM/YY): ____/____



← Visa/MasterCard

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(This is the address number - for instance, ours would be **8387 University Avenue** - that the credit card bill would go to, not where we would send the data or product to)

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Authorized signature: _____

We appreciate your cooperation in supplying us with this information and understanding that it is being required of us to obtain the information.

Sincerely,

A handwritten signature in black ink that reads 'Daniel W. Vomhof III'.

Daniel W. Vomhof III
General Manager/Technical Support

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Calculations are based on the test results

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Test results include: General Test information, Barrier Data when provided, Vehicle Data as reported by the testing organization, Occupant (Dummy) data when provided, and A-B-G Stiffness calculations based on the test results.

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MODEL: _____

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 SUV & P/U: 4x2 / 4x4 / Dual Rear Wheel
 PICKUPS: Std. / Extra / Super / Crew Cab
 Short Bed / Long Bed
 VANS: Cargo / Passenger
 Short / Long Wheelbase

VIN Information

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	

NHTSA Crash Test Information

Impact location - Front / Side / Rear

PAYMENT INFORMATION

Visa/MasterCard / American Express:

Expires: ____ / ____ Sec.Code _____

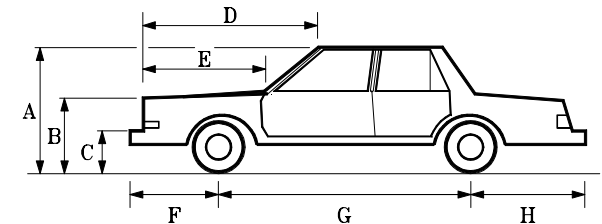
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VIN DeCoding Information

How often have you been confronted with the following on a Traffic Collision Report - "87 Ford, 4 door, Blue"? We have the answer to the problem of determining WHICH Ford 4 door model this was!

We will DeCode the VIN number and provide you with the information contained within that VIN number

Information generally includes:

Year	OEM Engine
Make	Displacement/Type
Model	Rated Horsepower
Drive Wheels	Rated Torque
Rated Pass. Load	Ignition System
Plant of Manufacture	Fuel Line Pressure
Also (when provided by VIN)	
Gross Vehicle Weight	Safety Equipment
Transmission	

A DMV search for a vehicle identification from the registration will typically cost less than \$10.00 and will give the VIN number, Make, and Year of vehicle. However, to also obtain the vehicle Model requires a "Manual Search" which will typically cost \$30.00/vehicle/year searched or more.

With our service, you will be able to find out the model of vehicle as well as all of the other information mentioned above. This information will be faxed to you, typically in less than one working day, and the hard copy will follow in the mail.

Allow us to help you have all the information you require in your next Accident, Personal Injury, Criminal, Domestic, or Product Liability case.

Individual Vehicle Specifications

Now you can get the Expert AutoStats® data for the vehicles in your case **QUICKLY, EASILY,** and **ECONOMICALLY**, instead of guessing, or begging a printout from a friend.

Our vehicle database includes dimensions on over 35,000 Cars, Vans, Lt. Pickups, and Utility Vehicles covering 1945 to the present.

Minimum Vehicle specifications include:

Overall Length	Curb Weight
Overall Width	Weight Distribution
Overall Height	Front/Rear Track
Wheelbase	CG Location
Model year with No Significant Dimensional Changes VIN DeCoding when VIN is provided Information available	
Mid-60's to present also includes (when available)	
Front/Rear Overhang	Bumper Heights
Hood height	Turning Circle
Bumper-to-hood	Ground-to-hood

Dimensions are given in both Imperial and metric (SI) units. Motorcycle specifications will be similar to the Vehicle specifications with appropriate changes where applicable.

While the VIN number contains much information, it does not contain everything needed to identify a particular vehicle in every situation. Therefore, we would appreciate you providing as much of the information on the order form as possible.

If you are not sure of the specific model, we will provide dimensions on the similar model vehicles matching the provided data for a small additional cost per model*.

SERVICE

You may make your request by phone or fax. Our fax machine is on 24 hours, 7 days a week, and can be reached at (619) 464-2206. A request may also be made by e-mail, which reaches us when we are "on the road" as well as in the office..

Upon receiving your request, we will research your request and **e-mail or fax the information to you at NO ADDITIONAL CHARGE!** Normal response time is one working day or less. Your hard copy will follow in the mail.

Please include the vehicle information on the sample order form when requesting your Individual Vehicle Data Search. Please also be sure to provide a Visa, MasterCard, or American Express number, name as it appears on the card, Expiration date, and the billing address # and Zip.

*Pricing is for multiple vehicles on same Order/Request. Similar Vehicles may be required when it is not possible to determine the exact model of vehicle requested, based upon the information provided.

Individual Vehicle Data Search Service[®] Charges & Services

You may make your request by phone, fax, or Email.
Our fax machine is on 24 hours/day and can be
reached at

(619) 464-2206

Individual Vehicle Specifications

\$50.00-First vehicle*, \$40.00/Additional Vehicles*,
\$30.00/Additional Similar Model*

Medium/Heavy Truck Specifications

\$50.00-First vehicle*, \$40.00/Additional Vehicles*,
\$30.00/Additional Similar Model*

Motorcycle Specifications (1970+)

\$50.00-First cycle*, \$40.00/Additional cycles*,
\$30.00/Additional Similar Model*

NHTSA Crash Test Results

\$50.00 per test - Includes A, B, & G values
Calculations are based on the test results

Contact Name & Address:

Phone: (____) _____
Fax: (____) _____

E-Mail _____

PAYMENT INFORMATION

Visa/MasterCard / American Express:

Expires: ____/____
Credit Card billing address and Zip:
Address: _____
Zip: _____
Security Code # _____

FAX/Order Form

- Expert VIN Decoder & Expert AutoStats
- NHTSA Crash Test Results
- BOTH

Please circle ALL OPTIONS that apply

YEAR & MAKE: _____
MODEL: _____

If you are requesting
VIN DeCoder & AutoStats
please also provide:

No. of Doors: 2/3/4/5
Body Style: Coupe/Conv./Sedan/Wagon
SUV - P/U: 4x2 / 4x4 / Dual Rear Wheel
PICKUPS: Std. / Extra / Super / Crew Cab
Short Bed / Long Bed
VANS: Cargo / Passenger
Short / Long Wheelbase

VIN Information

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	

NHTSA Crash Test Information

YEAR & MAKE: _____
MODEL: _____

Impact location - Front / Side / Rear

Case
Reference/Number: _____

FAX/Order Form

- Expert VIN Decoder & Expert AutoStats
- NHTSA Crash Test Results
- BOTH

Please circle ALL OPTIONS that apply

YEAR & MAKE: _____
MODEL: _____

If you are requesting
VIN DeCoder & AutoStats
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NHTSA Crash Test Information

YEAR & MAKE: _____
MODEL: _____

Impact location - Front / Side / Rear

Case
Reference/Number: _____

4N6XPRT Systems

Expert System Software for Litigation

8387 University Avenue
La Mesa, CA 91942-9342

FED Tax ID No.: 95-3121248

Phone: 1- 800-266-9778
Fax: (619) 464-2206

Web Site: <http://www.4n6xpert.com>

E-Mail: 4n6@4n6xpert.com

Dear Customer,

Due to the governments desire (both U.S. & California) to “protect us” we will need the following information from you in order to process your credit card(s). Please complete this form and return it with your order.

Card type: Am. Express / Visa / MasterCard

Card Number: _____

Expiration Date (MM/YY): ____/____



← Visa/MasterCard

American Express →



Security code (card ID) on back of Visa/MasterCard card or front of American Express Card:

Address for where the **credit card bill is sent**:

(This is the address number - for instance, ours would be **8387 University Avenue** - that the credit card bill would go to, not where we would send the data or product to)

City/State/Zip for where the **credit card bill is sent**:

(- for instance, ours would be **La Mesa, CA 91941** - that the credit card bill would go to, not where we would send the data or product to)

Authorized signature: _____

We appreciate your cooperation in supplying us with this information and understanding that it is being required of us to obtain the information.

Sincerely,

Daniel W. Vomhof III
General Manager/Technical Support