

Case 469 : Narrative

Case Vehicle (A): 1999 Ford	Vehicle (B): 1997 Chrysler
Type: Taurus SE, 4-door sedan	Type: Sebring LXI, 2-door coupe
Driver: 45-year-old female	Driver: 39-year-old female
CDC: 12-FYEW-1	CDC: 01-FZEW-1

SITUATION

[1](#) It was daylight and cloudy, and the concrete surface at the T-type intersection of the two five-lane roads was dry and free of defects. [2](#) Case vehicle (A) was traveling south at an unknown speed in the left southbound lane of the north-south road and [3](#) vehicle (B) was traveling north at an unknown speed in the northbound center turn-lane of the same road. As both vehicles approached the T-type intersection with the east-west road that connects with the north-south road from the west, the driver of vehicle (B) began a left turn to travel west and vehicle (B) entered the path of case vehicle (A). The driver of case vehicle (A) did not make any evasive maneuvers and the left front of case vehicle (A) struck the right-front corner of vehicle (B). Both vehicles were towed due to damage.

The police accident report (PAR) indicates A-level injuries for the female driver of case vehicle (A), who was transported by ambulance to a local hospital where she was hospitalized for two days. The PAR indicates B-level injuries for the female driver of vehicle (B), who was transported by ambulance to a local hospital, where she was treated and released.

GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

[4](#) Damage to case vehicle (A) was moderate. [5](#) Direct damage began at the left-front bumper corner and extended 85-cm across the front into the right turn-signal assembly, resulting in 56% vehicle overlap (% VOL). The maximum rearward crush was 17 cm and it occurred near the center of the front bumper.

[6](#) [7](#) Damage to the right front of vehicle (B) was moderate. Direct damage began at the right-front bumper corner and extended 79-cm to the left, resulting in a 52% VOL. The maximum rearward crush was 20 cm and it occurred at the right-front bumper corner. There was no measurable change to the either wheelbase.

Using the WinSMASH crash-reconstruction program and [8](#) [9](#) crush values measured at the levels of the bumpers for case vehicle (A) and [10](#) [11](#) vehicle (B), the following impact severities were estimated:

		Estimated Velocity Change - kph (mph)		
Vehicle	Variable	Total	Longitudinal	Latitudinal
Case Vehicle (A)	delta V	18 (11)	-17 (-11)	3 (2)
Vehicle (B)	delta V	19 (12)	-17 (-10)	-10 (-6)

DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

Exterior

[12](#) [13](#) In the front, the left two-thirds of the bumper, the radiator, and the upper radiator support were crushed rearward. The front of the hood was crushed rearward and bent down and the hood latch was damaged and jammed closed. [14](#) [15](#) Both hood hinges were damaged and the rear edge of the hood was elevated, but it did not contact the windshield, which [16](#) was cracked in the center on the right side due to contact by the dash-mounted airbag.

[4](#) [17](#) On the left side, the fender was crushed rearward and to the right. Both doors remained closed and operational and all the left-side glazing was intact. There was no other left-side damage and there was no change in the left wheelbase.

[18](#) There was no damage to the rear of the vehicle.

[19](#) [20](#) On the right side, the forward section of the fender was deflected to the right. Both doors remained closed and operational and all the right-side glazing was intact. There was no other right-side damage and there was no significant change in the right wheelbase.

Interior

This vehicle was equipped with steering-wheel and dash-mounted frontal-impact airbags, and [21](#) [22](#) both deployed during the frontal impact. In the driver area, there was no damage to the deployed steering-wheel airbag or [23](#) [24](#) to the airbag module cover. [25](#) [26](#) There was a food deposit on the roof headliner above the driver door and [27](#) [28](#) a black scuffmark on the roof headliner behind the left sunvisor. [29](#) [30](#) [31](#) The driver knee bolster was pushed slightly forward, the left edge of the knee bolster was scuffed, and the right side of the knee bolster was dented. [32](#) [33](#) [34](#) [35](#) There was no other damage in the driver seating area.

[36](#) There was no damage in the center-front area.

[37](#) In the right-front seating area, there was no damage to the deployed dash-mounted airbag but [38](#) [39](#) the airbag module cover was deformed from contact with the windshield during deployment of the airbag. [40](#) There was no other damage in the right-front seating area.

[41](#) [42](#) [43](#) [44](#) There was no damage to the rear seating areas, and no intrusions into the vehicle.

OCCUPANT KINEMATICS AND INJURIES

[45](#) The 157-cm, 132-kg (5-ft, 2-in, 290-lb), 45-year-old female driver was using the three-point belt and [46](#) the steering-wheel airbag deployed. [47](#) There were no loading marks on the D-ring or [48](#) on the plastic loop of the sliding latch plate, but [49](#) the belt was locked in a partially extended mode and [50](#) the belt webbing was stretched, indicating belt use.

During the frontal impact, the driver moved forward relative to the vehicle interior, into the 3-point belt, steering-wheel airbag, and knee bolster. She sustained displaced transverse fractures to the mid shafts of the right tibia and fibula, probably from contact of the right knee and leg with the knee bolster, [31](#) as evidenced by forward displacement and indentation of the knee bolster.

The following table and attached drawing [51](#) summarize the injuries for the driver of case vehicle (A).

Occupant: Driver	Age: 45 years	Gender: Female		
Restraints: 3-point belt; steering-wheel airbag	Stature: 157 cm (5 ft, 2 in)	Mass: 132 kg (290 lb)		
Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
—	—	—	—	—
Displaced transverse fracture, mid shaft right tibia	3	—	Knee bolster	—
Displaced transverse fracture, mid shaft right fibula	2	—	Knee bolster	—
Maximum A.I.S. Level	3	—	—	—
Injury Severity Score	9	—	—	—

CASE NO.: 469

CASE VEHICLE: 1999 Ford

TYPE: Taurus SE, 4-door sedan

OCCUPANT: Driver: 45-year-old female

STATURE: 157 cm (5 ft, 2 in) MASS: 132 kg (290 lb)

RESTRAINTS: 3-point belt; steering-wheel airbag

SEVERITY: MAIS - 3 : ISS - 9



Displaced transverse fracture,
mid shaft of right tibia (3)

Displaced transverse fracture,
mid shaft of right fibula (2)

Case No.: 469

Case Veh. (A): 1999 Ford

Type: Taurus SE, 4-door

Driver: 45-year-old female

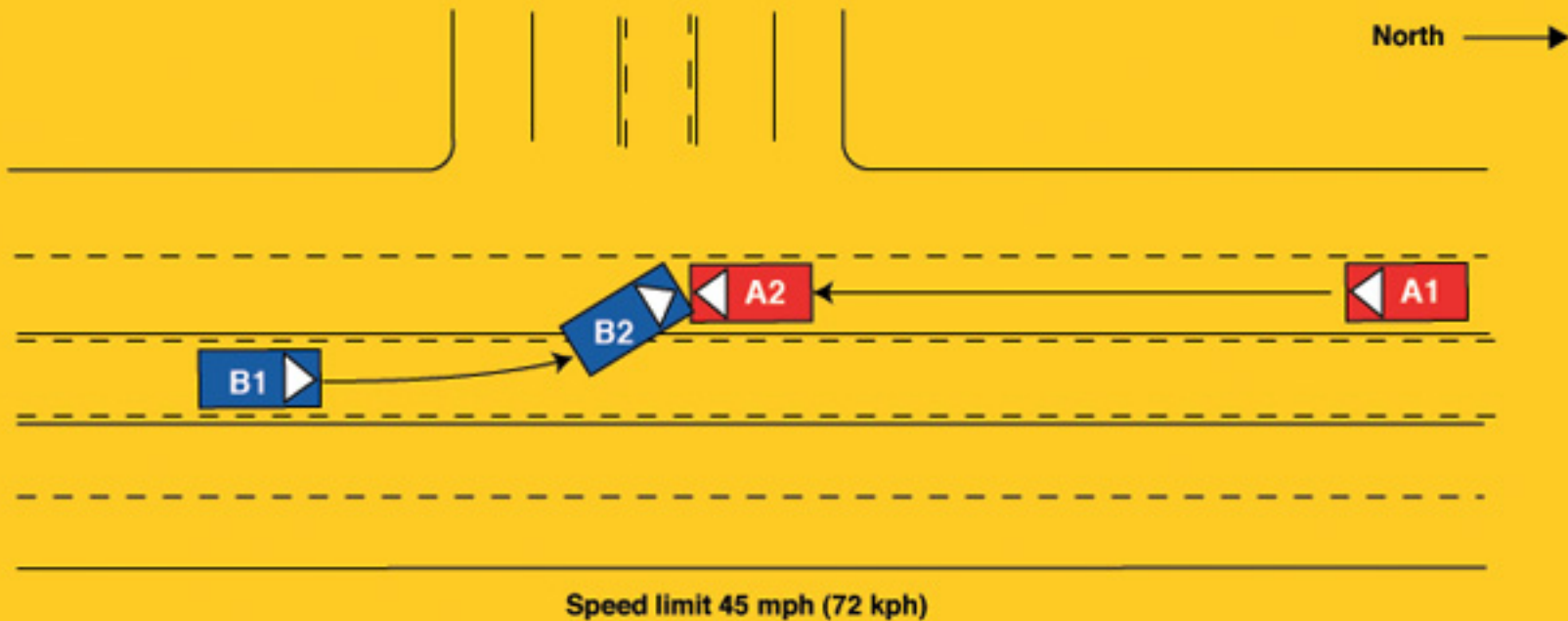
Veh. (B): 1997 Chrysler Sebring LXI, 2-door coupe

Light Conditions: Daylight

Weather: Cloudy

Road Surface: Dry

Road Construction: Concrete



469: Vehicle Report

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General Information

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0204	Collision Hour	0754	Time of day (24 hour clock)	more
V0205	State Fips Code	26	Michigan	more
V0206	Urban/rural Area	1	Urban	more
V0207	Limited Access Highway	0	No	more
V0208	Road Total Lanes	4	4 lanes or more	more
V0209	Intersect Road Total Lanes	4	4 lanes or more	more
V0210	Trafficway Flow	0	Not physically divided - two way traffic	more
V0211	Road Surface Type	2	Concrete	more
V0212	Road Defects	0	No	more
V0213	Construction Zone	0	No	more
V0214	Road Alignment Vertical Plane	3	Slope (2%)	more

V0215	Road Alignment Horizontal Plane	1	Straight	more
V0216	Surface Covering	10	Dry	more
V0217	Visibility Limitation	0	None	more
V0218	Visibility Obstruction	0	None	more
V0219	Speed Limit	4	71-79 km/h .. 45 mph	more
V0220	Precipitation Type	0	None	more
V0221	Precipitation Rate	8	Not applicable	more
V0222	Temperature	9	Unknown	more
V0223	Crosswind	9	Unknown	more
V0224	Light Conditions	1	Daylight	more
V0225	Mechanical Malfunction Mention	0	No	more
V0226	Case Vehicle And Object	0	No	more
V0227	Case Vehicle Rollover	0	No	more
V0228	Rollover Location	0	No rollover	more
V0229	Roll Direction	0	No rollover	more
V0230	Rollover Initiation Type	0	No rollover	more
V0231	Rollover Number Of Turns	0	No rollover	more
V0232	Case Vehicle Preimpact Braking	0	No	more
V0233	Case Vehicle Preimpact Stability	1	Case vehicle tracking before impact	more
V0234	Case Vehicle Ran Off Roadway	0	No	more
V0235	Moving Case Vehicle Contacted Moving Vehicle	1	Yes	more
V0236	Case Vehicle Contacted Stopped Vehicle	0	No	more
V0237	Stopped Case Vehicle Contacted Vehicle	0	No	more
V0238	Total Vehicles Hit By Case Vehicle	1	1 vehicle	more
V0239	Any Fire In Crash?	0	No	more
V0240	Maximum Police Severity-acc	3	A - Incapacitating Injury	more
V0241	Driver Alcohol Involvmnt	0	Had not been drinking	more
V0242	Driver Alcohol BAC (Case Vehicle)	80	No test	more
V0243	Driver Impairment Mention	0	No	more
V0244	Driver Distraction	01	Attentive or not distracted	more

V0245	Driver Drug Involvement	0	None	more
V0246	Driver Drug Type	0	No drug use	more
V0247	Driven/towed From Scene	2	Towed Due to Damage	more

Other Vehicle

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0301	Other Vehicle VIN	4C3AU52NXVXXXXXXXX	Click for Contacted Vehicle figure	more
V0302	Other Vehicle Manufacturer/Body Code	13127	—	—
V0303	Other Vehicle Manufacturer	131	Chrysler	more
V0304	Other Vehicle Body Code	27	Compact 100-104.9 in. wb.	more
V0305	Other Vehicle Make/model	1250	Sebring	more
V0306	Other Vehicle Model Year	1997	Year	more
V0307	Other Vehicle Mass	001428 kg	Mass (Kg.)	more
V0308	Other Vehicle Number	0	No separate report	more
V0309	Other Vehicle Number of Occupants	01	number of occupants	more
V0310	Other Vehicle Traveling Speed	999	Unknown	more
V0311	Highest Police Injury Severity	2	B - Non-Incapacitating Injury	more
V0312	Other Vehicle Type	27	Compact 100-104.9 in. wb.	more
V0313	Other Vehicle Wheelbase in Centimeters	264 cm	Actual Wheelbase (cm)	more
V0314	Other Vehicle Average Track Width	151 cm	actual measurement (cm)	more
V0315	Other Vehicle Overall Length	485 cm	actual measurement (cm)	more
V0316	Other Vehicle Overall Width (OAW)	177 cm	actual measurement (cm)	more
V0317	Other Vehicle Front Overhang	105 cm	actual measurement (cm)	more
V0318	Other Vehicle Rear	117 cm	actual measurement (cm)	more

	Overhang			
V0319	Other Vehicle Undeformed End Width (UEW)	150 cm	actual measurement (cm)	more
V0320	Other Vehicle Engine Displacement	2.5 l	Liters	more
V0321	Other Vehicle Engine: Number of Cylinders	06	number of cylinders	more
V0322	Other Vehicle Direct Damage Length (DDL)	079 cm	actual measurement (cm)	more
V0323	Other Vehicle Front-End Overlap	53	percentage (%)	more
V0324	Other Vehicle - Vehicle Overlap	52	percentage (%)	more

Case Vehicle General

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0401	VIN	1FAFP53S3XXXXXXXXX	Click for Case Vehicle figure	more
V0402	Manufacturer/Body Code	12128	—	—
V0403	Vehicle Manufacturer	121	Ford	more
V0404	Vehicle Body Code	28	Intermediate 105-109.9 in. wb.	more
V0405	Make/model Code	0275	Taurus	more
V0406	Model Year	1999	Model year	more
V0407	Vehicle Mass	001474 kg	Mass (Kg)	more
V0408	Odometer Reading	092797	—	—
V0409	Number of Occupants	01	1 occupant	more
V0410	Traveling Speed	999	Unknown	more
V0411	Body Type	14	4-door sedan	more
V0412	Stolen Vehicle	8	Not currently collected	more
V0413	Body Structure	2	Unitized	more
V0414	Transmission Type	1	Automatic	more
V0415	Transmission Lever Location	3	Column	more
V0416	Steering	1	Power	more
V0417	Brakes	1	Power	more
V0418	Brake Type	2	Disc - front wheels	more
V0419	Adjustable Pedals?	0	No	more

V0420	Brake Anti-lock Device	0	None installed	more
V0421	Air Conditioning in Vehicle	8	Not currently collected	more
V0422	Drive Type	2	Front wheel	more
V0423	Dual Rear Wheels	0	No	more
V0424	Original Restraint System Type	3	Air bag	more
V0425	Equipped With Roll Bar	0	No	more
V0426	Roof Type	1	Solid	more
V0427	Case Vehicle Wheelbase in Centimeters	276 cm	Actual Wheelbase	more
V0428	Anti-lacerative Glass	8	Not Collected	more
V0429	Case Vehicle average track Width	156 cm	actual measurement (cm)	more
V0430	Case Vehicle Overall Length	502 cm	actual measurement (cm)	more
V0431	Case Vehicle Overall Width (OAW)	185	actual measurement (cm)	more
V0432	Case Vehicle Front Overhang	106 cm	actual measurement (cm)	more
V0433	Case Vehicle Rear Overhang	120 cm	actual measurement (cm)	more
V0434	Case Vehicle Undeformed End Width (UEW)	148 cm	actual measurement (cm)	more
V0435	Case Vehicle Engine Displacement	3.0 l	Liters	more
V0436	Case Vehicle Engine: Number of Cylinders	06	number of cylinders	more
V0437	Case Vehicle Direct Damage Length (DDL)	085 cm	actual measurement (cm)	more
V0438	Case Vehicle Front-end Overlap	57	percentage (%)	more
V0439	Case Vehicle - Vehicle Overlap	56	percentage (%)	more

Case Vehicle Damage Description

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Variable Number	Variable Name	Code Value	Code Description	Other Options

V0501	Maximum Sheet Metal Crush - Front	017 cm	Depth of Crush (cm)	more
V0502	Maximum Sheet Metal Crush - Right Side	000 cm	No Crush (or less than 1 cm.)	more
V0503	Maximum Sheet Metal Crush - Rear	000 cm	No Crush (or less than 1 cm.)	more
V0504	Maximum Sheet Metal Crush - Left Side	000 cm	No Crush (or less than 1 cm.)	more
V0505	Maximum Sheet Metal Crush - Roof	000 cm	No Crush (or less than 1 cm.)	more
V0506	Maximum Sheet Metal Crush - Other	000 cm	No Crush (or less than 1 cm.)	more
V0507	Seq In Chronological Ord	1	Yes	more
V0508	Event 1 -impact Location	1	On Roadway	more
V0509	Event 1 -Impact Configuration	11	FRONT of case veh - FRONT of contacted veh	more
V0510	Event 1 -Object/Vehicle Contactd	27	Compact 100-104.9 in. wb.	more
V0511	Event 2 -impact Location	8	No 2nd event	more
V0512	Event 2 -Impact Configuration	88	No 2nd event	more
V0513	Event 2 -Object/Vehicle Contactd	00	No object/vehicle contacted	more
V0514	Event 3 -impact Location	8	No 3rd event	more
V0515	Event 3 -Impact Configuration	88	No 3rd event	more
V0516	Event 3 -Object/Vehicle Contactd	00	No object/vehicle contacted	more
V0517	Event 4 -impact Location	8	No 4th event	more
V0518	Event 4 -Impact Configuration	88	No 4th event	more
V0519	Event 4 -Object/Vehicle Contactd	00	No object/vehicle contacted	more
V0520	Event 5 -impact Location	8	No 5th event	more
V0521	Event 5 -Impact Configuration	88	No 5th event	more
V0522	Event 5 -Object/Vehicle Contactd	00	No object/vehicle contacted	more
V0523	Event 6 -impact Location	8	No 6th event	more
V0524	Event 6 -Impact Configuration	88	No 6th event	more
V0525	Event 6 -Object/Vehicle	00	No object/vehicle contacted	more

	Contactd			
V0526	Event 7 -impact Location	8	No 7th event	more
V0527	Event 7 -Impact Configuration	88	No 7th event	more
V0528	Event 7 -Object/Vehicle Contactd	00	No object/vehicle contacted	more
V0529	Primary CDC Case Vehicle - event Number	1	Event 1	more
V0530	Primary CDC Case Vehicle - Impact Speed (kph)	999	Unknown	more
V0531	Primary CDC Case Vehicle- estimatr	1	Investigator	more
V0532	Primary CDC Case Vehicle - Crush (CM)	017	Crush measurements in cm	more
V0533	Primary CDC Case Vehicle- clock #1	12	12 o'clock	more
V0534	Primary CDC Case Vehicle- Letter 1 #1	06	F - Front	more
V0535	Primary CDC Case Vehicle- Letter 2 #1	25	Y - Side or end (F + P or L + C)	more
V0536	Primary CDC Case Vehicle- Letter 3 #1	05	E - Everything below belt line	more
V0537	Primary CDC Case Vehicle- Letter 4 #1	23	W - Wide impact area	more
V0538	Primary CDC Case Vehicle Extent #1	01	Extent 1	more
V0539	Primary CDC - Contacted Vehicles Assoc CDC - CDC #1	12FYEW1	—	—
V0540	Primary CDC Case Vehicle- clock #2	98	Not Applicable	more
V0541	Primary CDC Case Vehicle- Letter 1 #2	00	Missing Data/Not applicable	more
V0542	Primary CDC Case Vehicle- Letter 2 #2	00	Missing Data/Not applicable	more
V0543	Primary CDC Case Vehicle- Letter 3 #2	00	Missing Data/Not applicable	more
V0544	Primary CDC Case Vehicle- Letter 4 #2	00	Missing Data/Not applicable	more
V0545	Primary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	more
V0546	Primary CDC - Case Vehicle Assoc CDC - CDC #2	9800000	—	—

V0547	Primary CDC Contacted Vehicle - Impact Speed (kph)	999	Unknown	more
V0548	Primary CDC Contacted Vehicle-estimator	1	Investigator	more
V0549	Primary CDC Contacted Vehicle - Crush (CM)	020	Crush measurements in cm	more
V0550	Primary CDC Contacted Vehicle-clock #1	01	1 o'clock	more
V0551	Primary CDC Contacted Vehicle-Letter 1 #1	06	F - Front	more
V0552	Primary CDC Contacted Vehicle-Letter 2 #1	26	Z - Side or end (B + P or R + C)	more
V0553	Primary CDC Contacted Vehicle-Letter 3 #1	05	E - Everything below belt line	more
V0554	Primary CDC Contacted Vehicle-Letter 4 #1	23	W - Wide impact area	more
V0555	Primary CDC Contacted Vehicle Extent #1	01	Extent 1	more
V0556	primary CDC - Contacted Vehicles Assoc CDC - CDC #1	01FZEW1	—	—
V0557	Primary CDC Contacted Vehicle-clock #2	98	Not Applicable	more
V0558	Primary CDC Contacted Vehicle-Letter 1 #2	00	Missing Data/Not applicable	more
V0559	Primary CDC Contacted Vehicle-Letter 2 #2	00	Missing Data/Not applicable	more
V0560	Primary CDC Contacted Vehicle-Letter 3 #2	00	Missing Data/Not applicable	more
V0561	Primary CDC Contacted Vehicle-Letter 4 #2	00	Missing Data/Not applicable	more
V0562	Primary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	more
V0563	Primary CDC - Contacted Vehicles Assoc CDC - CDC #2	9800000	—	—
V0564	Secondary CDC Case Vehicle-event No	8	Not applicable	more
V0565	Secondary CDC Case Vehicle - Impact Speed (kph)	998	Not Applicable	more
V0566	Secondary CDC Case Vehicle-estimator	8	Not applicable (no vehicle/no impact)	more
V0567	Secondary CDC Case Vehicle - Crush (CM)	998	Not Applicable	more

V0568	Secondary CDC Case Vehicle-clock #1	98	Not Applicable	more
V0569	Secondary CDC Case Vehicle-Letter 1 #1	00	Missing Data/Not applicable	more
V0570	Secondary CDC Case Vehicle-Letter 2 #1	00	Missing Data/Not applicable	more
V0571	Secondary CDC Case Vehicle-Letter 3 #1	00	Missing Data/Not applicable	more
V0572	Secondary CDC Case Vehicle-Letter 4 #1	00	Missing Data/Not applicable	more
V0573	Secondary CDC Case Vehicle Extent #1	00	Missing Data/Not applicable	more
V0574	Secondary CDC - Case Vehicle Assoc CDC - CDC #1	9800000	—	—
V0575	Secondary CDC Case Vehicle-clock #2	98	Not Applicable	more
V0576	Secondary CDC Case Vehicle-Letter 1 #2	00	Missing Data/Not applicable	more
V0577	Secondary CDC Case Vehicle-Letter 2 #2	00	Missing Data/Not applicable	more
V0578	Secondary CDC Case Vehicle-Letter 3 #2	00	Missing Data/Not applicable	more
V0579	Secondary CDC Case Vehicle-Letter 4 #2	00	Missing Data/Not applicable	more
V0580	Secondary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	more
V0581	Secondary CDC - Case Vehicle Assoc CDC - CDC #2	9800000	—	—
V0582	Secondary CDC Contacted Vehicle - Impact Speed (kph)	998	Not Applicable	more
V0583	Secondary CDC Contacted Vehicle-estimator	8	Not applicable (no vehicle/no impact)	more
V0584	Secondary CDC Contacted Vehicle - Crush (CM)	998	Not Applicable	more
V0585	Secondary CDC Contacted Vehicle-clock #1	98	Not Applicable	more
V0586	Secondary CDC Contacted Vehicle-Letter 1 #1	00	Missing Data/Not applicable	more
V0587	Secondary CDC Contacted Vehicle-Letter 2 #1	00	Missing Data/Not applicable	more
V0588	Secondary CDC Contacted Vehicle-Letter 3 #1	00	Missing Data/Not applicable	more

V0589	Secondary CDC Contacted Vehicle-Letter 4 #1	00	Missing Data/Not applicable	more
V0590	Secondary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	more
V0591	Secondary CDC - Contacted Vehicle Assoc CDC - CDC #1	9800000	—	—
V0592	Secondary CDC Contacted Vehicle-clock #2	98	Not Applicable	more
V0593	Secondary CDC Contacted Vehicle-Letter 1 #2	00	Missing Data/Not applicable	more
V0594	Secondary CDC Contacted Vehicle-Letter 2 #2	00	Missing Data/Not applicable	more
V0595	Secondary CDC Contacted Vehicle-Letter 3 #2	00	Missing Data/Not applicable	more
V0596	Secondary CDC Contacted Vehicle-Letter 4 #2	00	Missing Data/Not applicable	more
V0597	Secondary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	more
V0598	Secondary CDC - Contacted Vehicle Assoc CDC - CDC #2	9800000	—	—

Crash Reconstruction

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0601	Primary Delta-V Case Vehicle-event #	1	Event number 1	more
V0602	Primary Delta V Case Vehicle - Total Delta V	018 kph	kph	more
V0603	Primary delta-V Case Vehicle -LONGITUD	-017	—	—
V0604	Primary delta-V Case Vehicle-Lateral	0003	—	—
V0605	Primary Delta V Case Vehicle - Energy Dissipated by Crush (k	0020	—	—
V0606	Primary Delta-V Case Vehicle-Reconstruction	22	Reconstructed, moderate confidence level	more
V0607	Primary Delta-V Case Vehicle- Mode	2	CDC & detailed damage	more
V0608	Primary Delta V Contacted	019 kph	kph	more

	Vehicle - Total Delta V			
V0609	Primary delta-V Contacted Vehicle-LONGITUD	-017	—	—
V0610	Primary delta-V Contacted Vehicle-Lateral	-010	—	—
V0611	Primary delta-V Contacted Vehicle - Energy Dissipated by Cru	0027	—	—
V0612	Secondary Delta-V Case Vehicle-event #	8	Not applicable	more
V0613	Secondary Delta V Case Vehicle - Total Delta V	888	Not applicable	more
V0614	Secondarydelta-V Case Vehicle -LONGITUD	8888	—	—
V0615	Secondary delta-V Case Vehicle-Lateral	8888	—	—
V0616	Secondary delta-V Case Vehicle - Energy Dissipated by Crush	8888	—	—
V0617	Secondary Delta-V Case Vehicle-Reconstruction	88	Not applicable	more
V0618	Secondary Delta-V Case Vehicle- Mode	8	Not applicable	more
V0619	Secondary Delta V Contacted Vehicle - Total Delta V	888	Not applicable	more
V0620	Secondary delta-V Contacted Vehicle-LONGITUD	8888	—	—
V0621	Secondary delta-V Contacted Vehicle-Lateral	8888	—	—
V0622	Secondary delta-V Contacted Vehicle - Energy Dissipated By C	8888	—	—
V0623	Primary EBS Case Vehicle-event #	1	Event number 1	more
V0624	Primary EBS Case Vehicle - Total EBS	018 kph	kph	more
V0625	Primary EBS Case Vehicle - LONGITUD	-018	—	—
V0626	Primary EBS Case Vehicle-Lateral	0003	—	—
V0627	Primary EBS Case Vehicle - Energy Dissipated by Crush (kj)	0020	—	—
	Primary EBS Case Vehicle-		Reconstructed, moderate confidence	

V0628	Reconstruction	22	level	more
V0629	Primary EBS Case Vehicle-Mode	2	CDC & detailed damage	more
V0630	Primary EBS Contacted Vehicle - Total EBS	019 kph	kph	more
V0631	Primary EBS Contacted Vehicle-LONGITUD	-016	—	—
V0632	Primary EBS Contacted Vehicle-Lateral	-009	—	—
V0633	Primary EBS Contact Vehicle - Energy Dissipated by Crush (kj)	0027	—	—
V0634	Secondary EBS Case Vehicle-event #	8	Not applicable	more
V0635	Secondary EBS Case Vehicle - Total EBS	888	Not Applicable	more
V0636	Secondary EBS Case Vehicle -LONGITUD	8888	—	—
V0637	Secondary EBS Case Vehicle-Lateral	8888	—	—
V0638	Secondary EBS Case Vehicle - Energy Dissipated by Crush (kj)	8888	—	—
V0639	Secondary EBS Case Vehicle-Reconstruction	88	Not applicable	more
V0640	Secondary EBS Case Vehicle- Mode	8	Not applicable	more
V0641	Secondary EBS Contacted Vehicle - Total EBS	888	Not Applicable	more
V0642	Secondary EBS Contacted Vehicle-LONGITUD	8888	—	—
V0643	Secondary EBS Contacted Vehicle-Lateral	8888	—	—
V0644	Secondary EBS Contact Vehicle - Energy Dissipated by Crush (8888	—	—
V0645	Specific Event # Case(1)	1	Event number 1	more
V0646	Plane of Impact Case Vehicle (1)	1	Bumper	more
V0647	Direct Damage Length (DDL) - Case Vehicle (1)	085 cm	cm	more
V0648	Direct Damage Maximum Crush - Case Vehicle (1)	017 cm	cm	more

V0649	Direct and Induced Damage Length in CM	141 cm	cm	more
V0650	Field C1 - Case Vehicle (1)	009 cm	cm	more
V0651	Field C2 - Case Vehicle (1)	008 cm	cm	more
V0652	Field C3 - Case Vehicle (1)	017 cm	cm	more
V0653	Field C4 - Case Vehicle (1)	010 cm	cm	more
V0654	Field C5 - Case Vehicle (1)	000 cm	No Crush	more
V0655	Field C6 - Case Vehicle (1)	000 cm	No Crush	more
V0656	Direct Damage D Value = The Center of Direct Damage Offset t	-018 cm	Offset (cm)	more
V0657	Specific Event # Case(2)	1	Event number 1	more
V0658	Plane of Impact Case Vehicle (2)	1	Bumper	more
V0659	Direct Damage Length (DDL) - Case Vehicle (2)	085 cm	cm	more
V0660	Direct Damage MaximumCrush - Case Vehicle (2)	017 cm	cm	more
V0661	Direct and Induced Damage Length in CM	141 cm	cm	more
V0662	Field C1 - Case Vehicle (2)	009 cm	cm	more
V0663	Field C2 - Case Vehicle (2)	008 cm	cm	more
V0664	Field C3 - Case Vehicle (2)	017 cm	cm	more
V0665	Field C4 - Case Vehicle (2)	010 cm	cm	more
V0666	Field C5 - Case Vehicle (2)	000 cm	No Crush	more
V0667	Field C6 - Case Vehicle (2)	000 cm	No Crush	more
V0668	Direct Damage D Value = The Center of Direct Damage Offset t	-018 cm	cm	more
V0669	Specific Event # Cont(1)	1	Event number 1	more
V0670	Plane of Impact Contacted Vehicle(1)	1	Bumper	more
V0671	Direct Damage Length (DDL) - Contacted Vehicle (1)	079 cm	cm	more
V0672	Direct Damage Maximum Crush - Contacted Vehicle (1)	020 cm	cm	more
V0673	Field L - Contacted Vehicle (1)	141 cm	cm	more
	Field C1 - Contacted Vehicle			

V0674	(1)	000 cm	No Crush	more
V0675	Field C2 - Contacted Vehicle (1)	004 cm	cm	more
V0676	Field C3 - Contacted Vehicle (1)	008 cm	cm	more
V0677	Field C4 - Contacted Vehicle (1)	015 cm	cm	more
V0678	Field C5 - Contacted Vehicle (1)	019 cm	cm	more
V0679	Field C6 - Contacted Vehicle (1)	020 cm	cm	more
V0680	Direct Damage D Value = The Center of Direct Damage Offset t	+035 cm	offset (cm)	more
V0681	Specific Event # Contacted Vehicle (2)	1	Event number	more
V0682	Plane of Impact Contacted Vehicle(2)	1	Bumper	more
V0683	Direct Damage Length (DDL) - Contacted Vehicle (2)	079 cm	cm	more
V0684	Direct Damage Maximum Crush - Contacted Vehicle (2)	020 cm	cm	more
V0685	Direct and Induced Damage Length in CM	141 cm	cm	more
V0686	Field C1 - Contacted Vehicle (2)	000 cm	No Crush	more
V0687	Field C2 - Contacted Vehicle (2)	004 cm	cm	more
V0688	Field C3 - Contacted Vehicle (2)	008 cm	cm	more
V0689	Field C4 - Contacted Vehicle (2)	015 cm	cm	more
V0690	Field C5 - Contacted Vehicle (2)	019 cm	cm	more
V0691	Field C6 - Contacted Vehicle (2)	020 cm	cm	more
V0692	Direct Damage D Value = The Center of Direct Damage Offset t	+035 cm	Offset (cm)	more

Variable Number	Variable Name	Code Value	Code Description	Other Options
V0701	Left Front Wheel Damaged	0	No	more
V0702	Right Front Wheel Damaged	0	No	more
V0703	Right Rear Wheel Damaged	0	No	more
V0704	Left Rear Wheel Damaged	0	No	more
V0705	Left Front Tire Tread Type	4	All Weather	more
V0706	Right Front Tire Tread Type	4	All Weather	more
V0707	Right Rear Tire Tread Type	4	All Weather	more
V0708	Left Rear Tire Tread Type	4	All Weather	more
V0709	Left Front Carcass Construction	3	Radial	more
V0710	Right Front Carcass Construction	3	Radial	more
V0711	Right Rear Carcass Construction	3	Radial	more
V0712	Left Rear Carcass Construction	3	Radial	more
V0713	Left Front Tire Condition Precrash	0	Normal - no pre-crash problems	more
V0714	Right Front Tire Condition Precrash	0	Normal - no pre-crash problems	more
V0715	Right Rear Tire Condition Precrash	0	Normal - no pre-crash problems	more
V0716	Left Rear Tire Condition Precrash	0	Normal - no pre-crash problems	more
V0717	Left Front Tire Condition Postcrash	0	Normal - no damage to tire	more
V0718	Right Front Tire Condition Postcrash	0	Normal - no damage to tire	more
V0719	Right Rear Tire Condition Postcrash	0	Normal - no damage to tire	more
V0720	Left Rear Tire Condition Postcrash	0	Normal - no damage to tire	more
V0721	Left Front Tire Involvement	0	No	more
V0722	Right Front Tire Involvement	0	No	more
V0723	Right Rear Tire Involvement	0	No	more
V0724	Left Rear Tire Involvement	0	No	more
V0725	Left Front Tire Size	P20565R15	—	—
V0726	Right Front Tire Size	P20565R15	—	—

V0727	Right Rear Tire Size	P20565R15	—	—
V0728	Left Rear Tire Size	P20565R15	—	—
V0729	Left Front Tire Pressure (recorded in psi)	99.9	Unknown	more
V0730	Right Front Tire Pressure (recorded in psi)	99.9	Unknown	more
V0731	Right Rear Tire Pressure (recorded in psi)	99.9	Unknown	more
V0732	Left Rear Tire Pressure (recorded in psi)	99.9	Unknown	more
V0733	Left Front Tread Depth	07	07/32"	more
V0734	Right Front Tread Depth	07	07/32"	more
V0735	Right Rear Tread Depth	07	07/32"	more
V0736	Left Rear Tread Depth	07	07/32"	more

Case Vehicle Fuel Tank

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0801	Propulsive Fuel Type	1	Gasoline	more
V0802	Main Tank Location	322	Within frame/centered laterally - within vertical	more
V0803	Main Filler Cap Location	133	Right of frame laterally - above vertically	more
V0804	Main Tank Material	1	Steel	more
V0805	Aux Tank Type	8	Not applicable (not equipped)	more
V0806	Aux Tank Location	888	Not applicable (not equipped)	more
V0807	Aux Filler Cap Location	888	Not applicable (not equipped)	more
V0808	Aux Tank Material	8	Not applicable	more

Case Vehicle Fuel Leakage

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0901	Fuel Leakage From Crash	0	No	more

Case Vehicle Fire

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Variable Number	Variable Name	Code Value	Code Description	Other Options

V1001	Fire In Or On Case Vehicle	0	No	more
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Case Vehicle Exterior

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V1101	Hood Latch Released	0	No	more
V1102	Hood Latch Damaged	1	Yes	more
V1103	Hood Latch Jammed	1	Yes	more
V1104	Left Hood Hinge Damaged	1	Yes	more
V1105	Left Hood Hinge Separated	0	No	more
V1106	Right Hood Hinge Damaged	1	Yes	more
V1107	Right Hood Hinge Separated	0	No	more
V1108	Hood Remained On Vehicle	0	No	more
V1109	Rear Hood Edge Elevated	1	Yes	more
V1110	Edge Contacted Windshield	0	No	more
V1111	Edge Penetrated Windshield	8	Not applicable	more
V1112	Hood Latch Location	1	Front of Vehicle	more
V1113	Eng/transmissn Mount Separated	0	No	more
V1114	Steering Column Flex Couplng	9	Unknown if equipped	more
V1115	Steering Column Coupling Dam	9	Unknown	more
V1116	Steering Column Coupling Separated	9	Unknown	more
V1117	Eng Comp Telescopng Unit	88	Not currently collected	more
V1118	Compartment Unit's Original/telescoped Length Difference	888	Not currently collected	more
V1119	Left Side Body Mount Separated	8	Not applicable (unitized)	more
V1120	Upper Left A-pillar Sep	0	No	more
V1121	Lower Left A-pillar Sep	0	No	more
V1122	Upper Left B-pillar Sep	0	No	more
V1123	Lower Left B-pillar Sep	0	No	more
V1124	Upper Left C-pillar Sep	0	No	more
V1125	Lower Left C-pillar Sep	0	No	more
V1126	Upper Left D-pillar Sep	0	No	more
V1127	Lower Left D-pillar Sep	8	Not applicable (not equipped)	more

V1128	Left Front Door Opening Cause	00	Door did not open	more
V1129	Left Rear Door Opening Cause	00	Door did not open	more
V1130	Left Front Door Jammed Closed	0	No	more
V1131	Left Rear Door Jammed Closed	0	No	more
V1132	Van Left Rear Door Type	8	Not applicable (not a van)	more
V1133	Left Front Glazing Availability	3	Partially open	more
V1134	Left Rear Glazing Availability	2	Closed	more
V1135	Lr2 Glazing Availability	1	Fixed	more
V1136	Left Front Glazing Damage	0	No damage	more
V1137	Left Rear Glazing Damage	0	No damage	more
V1138	Lr2 Glazing Damage	0	No damage	more
V1139	Rear Door Type	0	No door (includes pickups)	more
V1140	Rear Door Opening Cause	8	Not applicable (no rear door)	more
V1141	Rear Door Jammed Closed	8	Not applicable (no rear door)	more
V1142	Rear Glazng Availability	8	Not Applicable (No Door)	more
V1143	Rear Glazing Damage	8	Not Applicable (No Door)	more
V1144	Luggage Partition Damaged	0	No	more
V1145	Spare Tire Status	8	Not collected	more
V1146	Trailer Hitch Type	0	No hitch	more
V1147	Trailer Type	0	No trailer	more
V1148	Rght Side Body Mount Separated	8	Not applicable (unitized)	more
V1149	Upper Right A-pillar Separated	0	No	more
V1150	Lower Right A-pillar Separated	0	No	more
V1151	Upper Right B-pillar Separated	0	No	more
V1152	Lower Right B-pillar Separated	0	No	more
V1153	Upper Right C-pillar Separated	0	No	more
V1154	Lower Right C-pillar Separated	0	No	more
V1155	Upper Right D-pillar	0	No	more

	Separated			
V1156	Lower Right D-pillar Separated	8	Not applicable (not equipped)	more
V1157	Right Front Door Opening Cause	00	Door did not open	more
V1158	Right Rear Door Opening Cause	00	Door did not open	more
V1159	Right Front Door Jammed Closed	0	No	more
V1160	Right Rear Door Jammed Closed	0	No	more
V1161	Van Right-rear Door Type	8	Not applicable (not a van)	more
V1162	Right Front Glazing Availability	3	Partially open	more
V1163	Right Rear Glazing Availability	2	Closed	more
V1164	Rr2 Glazing Availability	1	Fixed	more
V1165	Right Front Glazing Damage	0	No damage	more
V1166	Right Rear Glazing Damage	0	No damage	more
V1167	Rr2 Glazing Damage	0	No damage	more
V1168	Windshield Cracked	1	Yes	more
V1169	Windshield Broken	0	No Click for Windshield Damage figure	more
V1170	Occupant Cracked/Broke Wndshld	0	No	more
V1171	Bond Separation Extent	8	Not applicable	more
V1172	Windshield Code	97	Click for Windshield Mark figure	more
V1173	Did Sun Roof/T-Roof Open	8	Not Applicable	more

Case Vehicle Steering Column/Rim

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V1201	Steering Wheel Rim Damage	0	None	more
V1202	Number of Steering Wheel Spokes	4	4 spokes	more
V1203	Steering Wheel Spoke Damage	0	None	more
V1204	Steering Wheel Hub Damage	0	None	more
V1205	Steering Wheel Location of Rim Damage	0	No damage	more

V1206	Aftermarket Add-on Device	0	None	more
V1207	Column Tilt Feature	3	Middle	more
V1208	Column Swing-away Feature	0	Not equipped	more
V1209	Column Telescoping Feature	0	Not equipped	more
V1210	Wheel Energy Absorb Device	8	Not currently collected	more
V1211	Wheel EA Device's original/damage Dimension Difference	888	Not collected	more
V1212	Column Energy Absorb Device	88	Not collected	more
V1213	Col EA Device's Orig/compressed (or Extruded) Length Diff	888	Not collected	more
V1214	Shear Capsule Separation	888	Not collected	more
V1215	Column Vertical Rotation	0	No apparent rotation	more
V1216	Column Lateral Rotation	0	No apparent rotation	more

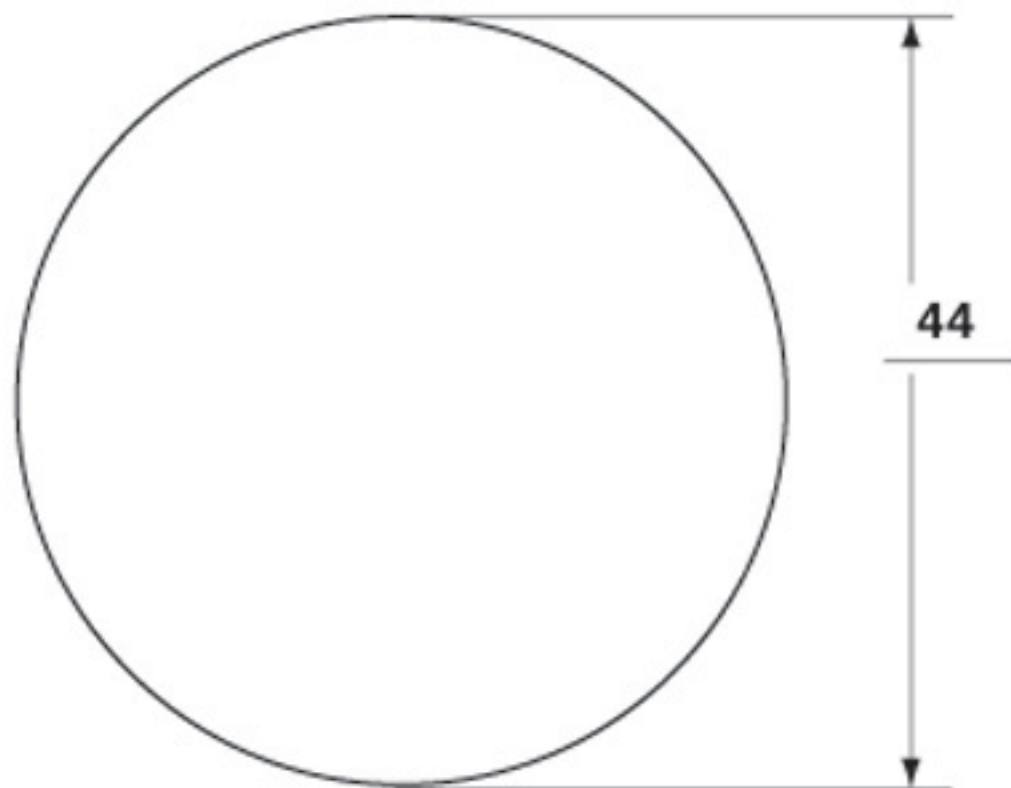
Case Vehicle Intrusion

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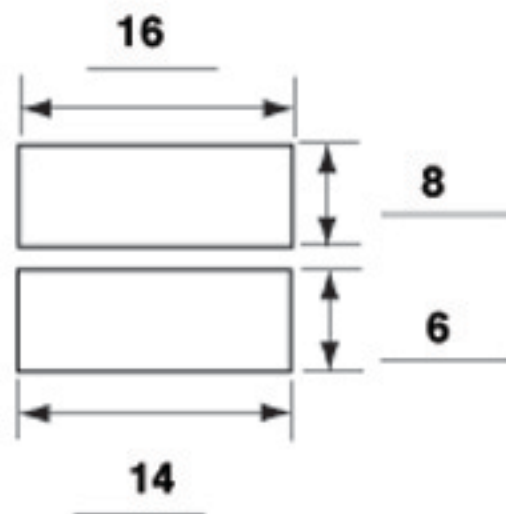
Variable Number	Variable Name	Code Value	Code Description	Other Options
V1301	Was Occupant Compartment Intruded	0	No Click for Intrusion Worksheet figure Click for Intrusion figure	more
V1302	Was Intrusn Catastrophic	8	Not applicable	more
V1303	Intrusion #1	99	Unknown or data not collected	more
V1304	Occupant Space Number(1)	99	Unknown or data not collected	more
V1305	Intrud Component/obj (1)	99	Unknown or data not collected	more
V1306	Associate Event Numb (1)	9	Unknown or data not collected	more
V1307	Maximum Intrusion X Axis	99	Unknown or data not collected	more
V1308	Maximum Intrusion Y Axis	99	Unknown or data not collected	more
V1309	Maximum Intrusion Z Axis	99	Unknown or data not collected	more
V1310	Occupant Number #1 (1)	99	Unknown or data not collected	more
V1311	Injury Number #1 (1)	99	Contact, injury unknown or data not collected	more
V1312	Occupant Number #2 (1)	99	Unknown or data not collected	more
V1313	Injury Number #2 (1)	99	Contact, injury unknown or data not collected	more
V1314	Intrusion Number #2	99	Unknown or data not collected	more
V1315	Occupant Space Number(2)	99	Unknown or data not collected	more
V1316	Intrud Component/obj (2)	99	Unknown or data not collected	more

V1317	Associate Event Numb (2)	9	Unknown or data not collected	more
V1318	Maximum Intrusion X Axis	99	Unknown or data not collected	more
V1319	Maximum Intrusion Y Axis	99	Unknown or data not collected	more
V1320	Maximum Intrusion Z Axis	99	Unknown or data not collected	more
V1321	Occupant Number #1 (2)	99	Unknown or data not collected	more
V1322	Injury Number #1 (2)	99	Contact, injury unknown or data not collected	more
V1323	Occupant Number #2 (2)	99	Unknown or data not collected	more
V1324	Injury Number #2 (2)	99	Contact, injury unknown or data not collected	more
V1325	Intrusion Number #3	99	Unknown or data not collected	more
V1326	Occupant Space Number(3)	99	Unknown or data not collected	more
V1327	Intrud Component/obj (3)	99	Unknown or data not collected	more
V1328	Associate Event Numb (3)	9	Unknown or data not collected	more
V1329	Maximum Intrusion X Axis	99	Unknown or data not collected	more
V1330	Maximum Intrusion Y Axis	99	Unknown or data not collected	more
V1331	Maximum Intrusion Z Axis	99	Unknown or data not collected	more
V1332	Occupant Number #1 (3)	99	Unknown or data not collected	more
V1333	Injury Number #1 (3)	99	Contact, injury unknown or data not collected	more
V1334	Occupant Number #2 (3)	99	Unknown or data not collected	more
V1335	Injury Number #2 (3)	99	Contact, injury unknown or data not collected	more
V1336	Intrusion Number #4	99	Unknown or data not collected	more
V1337	Occupant Space Number(4)	99	Unknown or data not collected	more
V1338	Intrud Component/obj (4)	99	Unknown or data not collected	more
V1339	Associate Event Numb (4)	9	Unknown or data not collected	more
V1340	Maximum Intrusion X Axis	99	Unknown or data not collected	more

Driver Airbag



Driver Airbag Doors



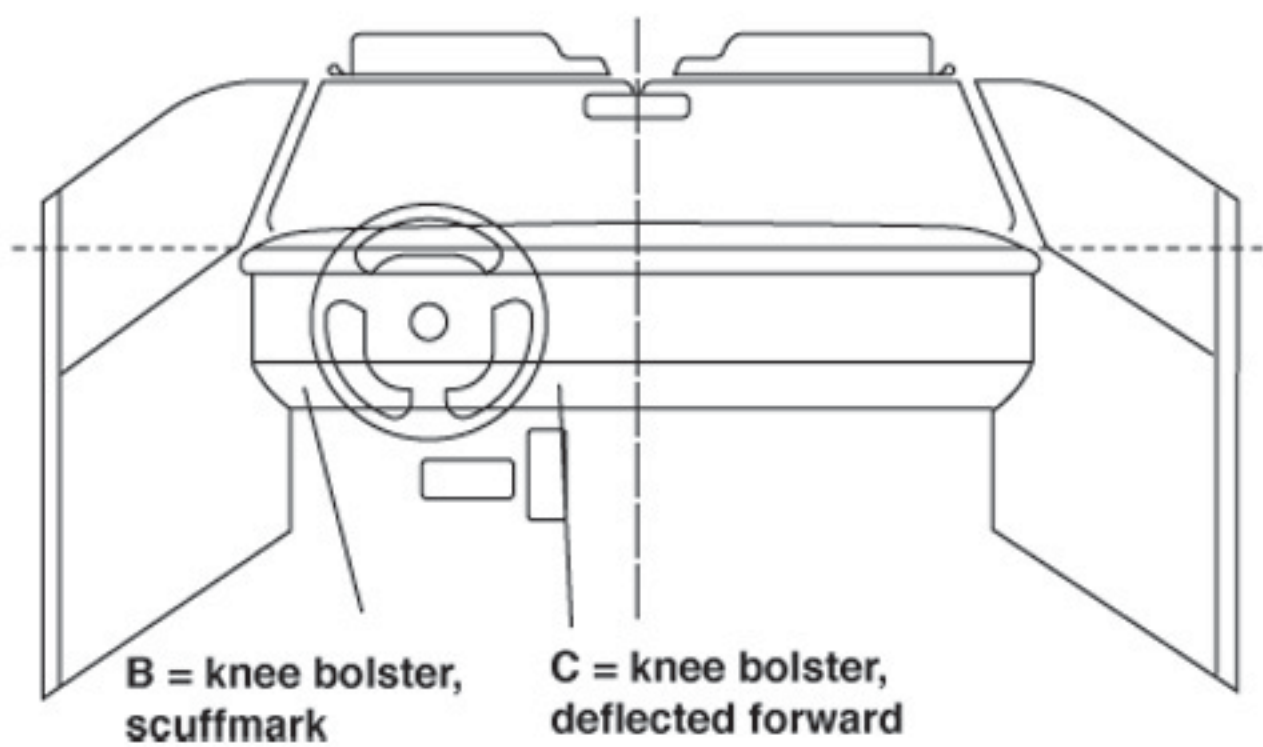
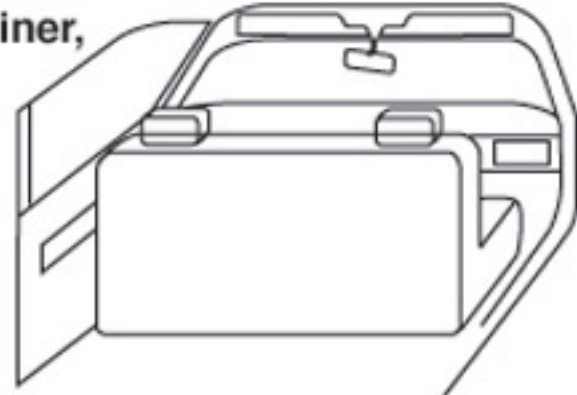
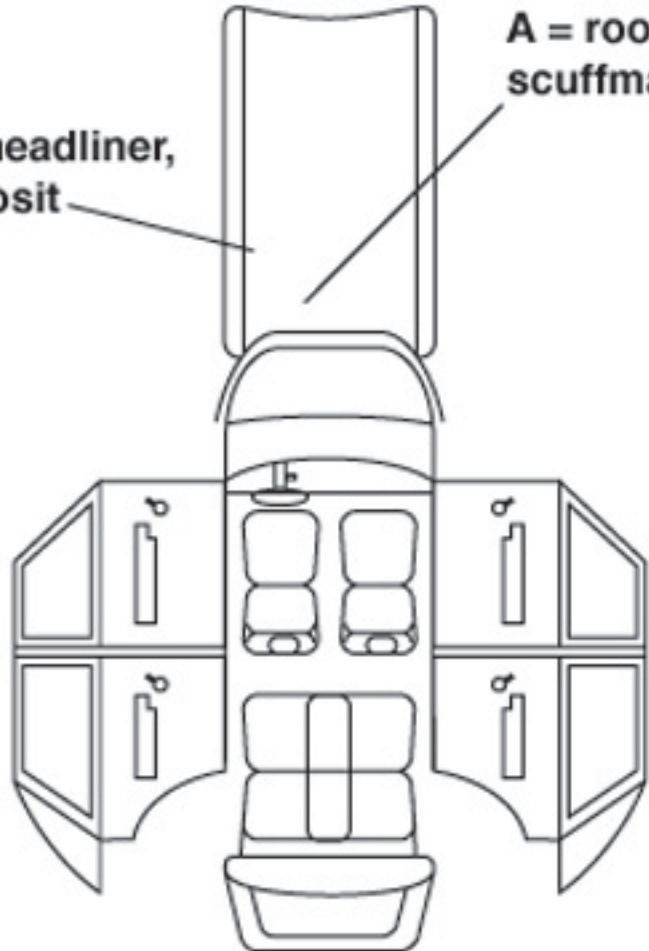
Vents: Y N
if yes, how many: 2

Tethers: Y N
if yes, how many: 2

3 and 9 o'clock

D = roof headliner,
food deposit

A = roof headliner,
scuffmark



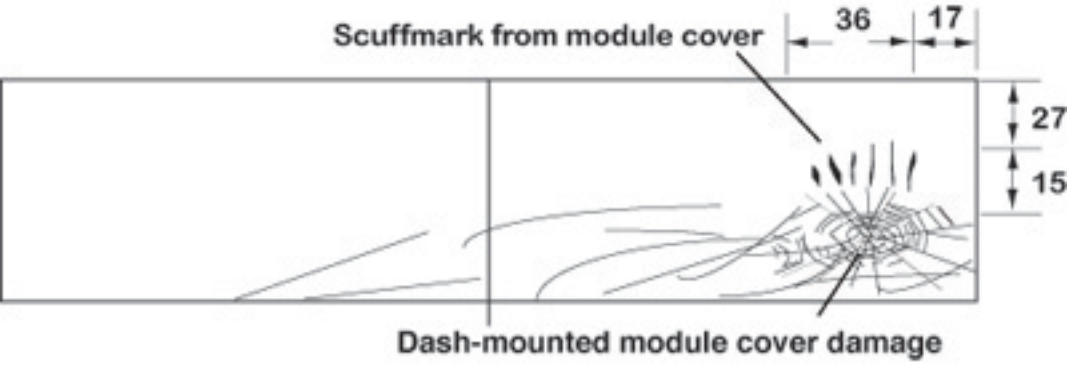
1 = Definitely 2 = Probably 3 = Possible

INTRUSION IT-1

Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters)			Dominant Crush Direction
		Comparison Value	Intruded Value	Intrusion	
None					

OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	Roof headliner	DR	Unknown	scuffmark	2
B	Knee bolster	DR	Lt. LX	scuffmark	1
C	Knee bolster	DR	Rt. LX	knee bolster deflected forward	1
D	Roof headliner	DR	Unknown	food deposit	3
E					
F					
G					



WINDSHIELD MARK ON CASE VEHICLE:

SOLAR TINT™



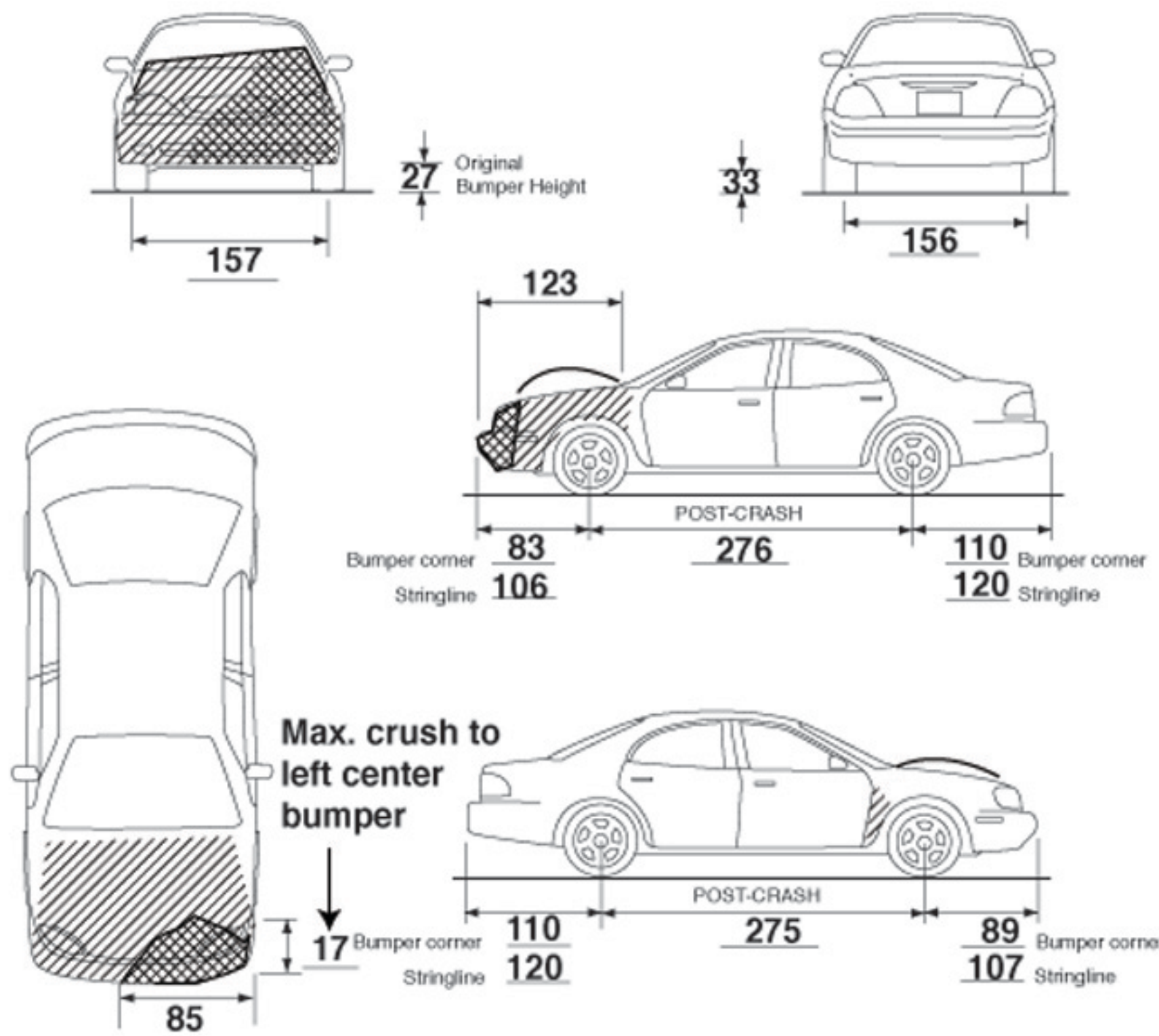
Ⓚ LAMINATED Ⓜ

SUN VISOR AS1

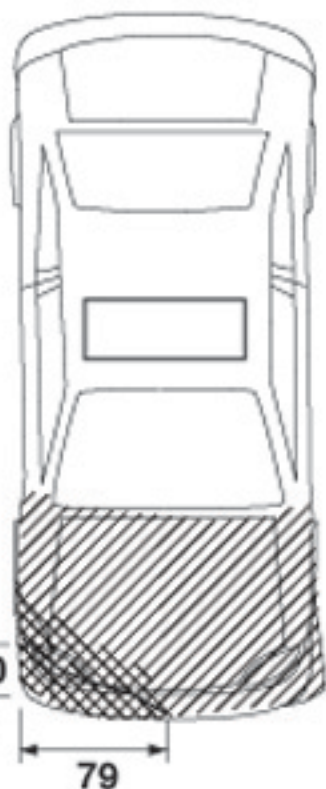
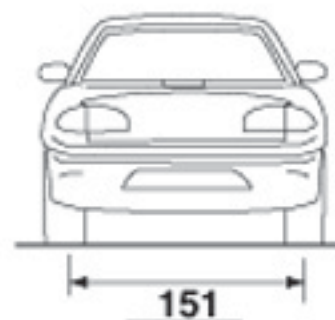
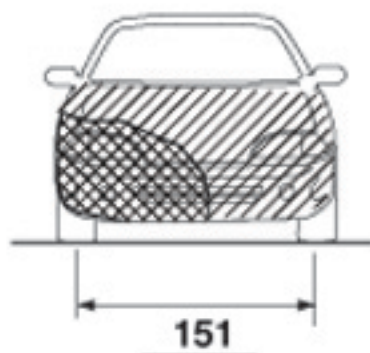
DOT-75 FM-M179

8 A C

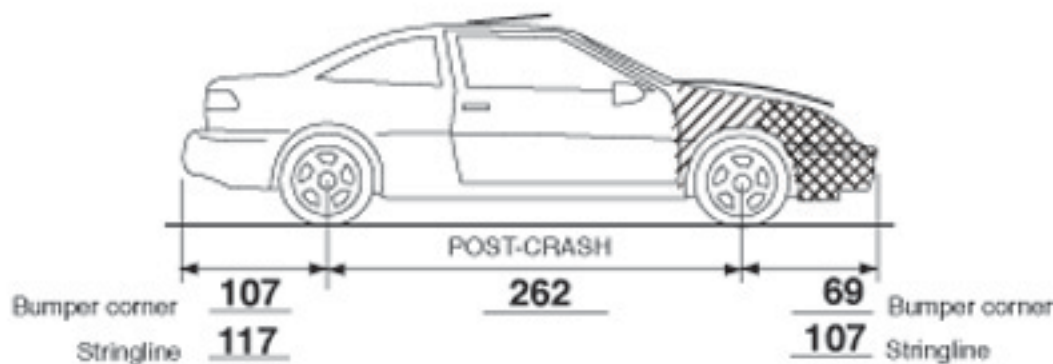
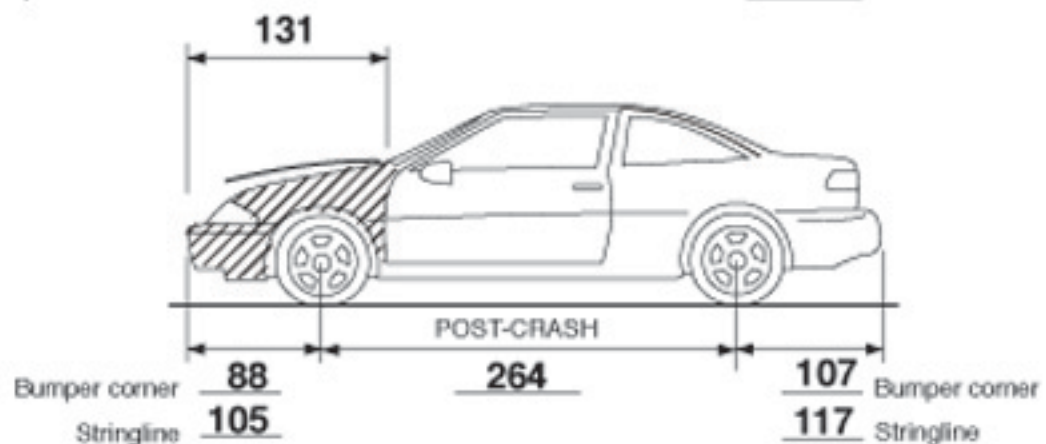
DW-1218



Width of direct damage to front

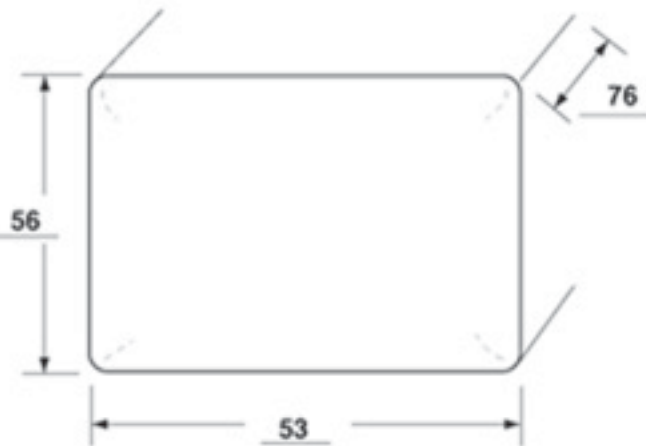


Max. crush to front right bumper corner



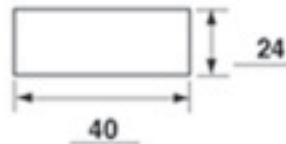
Width of direct damage to front

Passenger Airbag



Passenger Airbag Doors

Single Door



Vents: Y N

if yes, how many: 2

Tethers: Y N

if yes, how many: _____

















A WARNING
DO NOT REMOVE OR ALTER THIS LABEL
FOR INFORMATION ON AIR BAGS
SEE THE OWNER'S MANUAL
FOR INFORMATION ON AIR BAGS
AND SEATBELT USE





















BRAKE RELEASE (P)







⚠ WARNING
DEATH or SERIOUS INJURY can occur.
Children 12 and under can be killed by the air bag.
The SAFEST place for children is in the back seat of the car.

























WARNING
Do not use this vehicle if the rear window is shattered.



















PROWLER









Speedway

Speedway
217 207
259 189
FRESH COFFEE

KING

McDonald's

SPEED LIMIT
40



ONLY ONLY

Goodway
207 217
259 189
COPPER



