Case 449 : Narrative

Case Vehicle (A): 1998 Ford	Vehicle (B): 2000 Hyundai
Type: Explorer Sport, 4x2, 2-door SUV	Type: Accent GL, 4-door sedan
Driver: 38-year-old female	Driver: 59-year-old female
CDC: 12-FYEW-2	CDC: 01-FZEW-2

SITUATION

1 It was daylight and cloudy and the road surface was wet and slippery as 2 case vehicle (A) was traveling east at an unknown speed in the eastbound lane of a two-lane, east-west asphalt road. 3 Vehicle (B) was traveling west at an unknown speed in the westbound lane of the same road. 4 As both vehicles approached a four-way intersection with a north-south road, the driver of vehicle (B) thought case vehicle (A) was going to stop and 5 began to make a left turn to travel south. The driver of case vehicle (A) did not take any evasive action and the left-front corner of case vehicle (A) struck and overrode the right front of vehicle (B). Both vehicles were towed due to damage.

The police accident report (PAR) indicates C-level injuries for the driver of case vehicle (A) but it does not indicate an injury level for the right-front passenger of case vehicle (A). The driver was treated at the scene and the right-front passenger did not seek medical treatment. The PAR indicates C-level injuries for the female driver of vehicle (B) who was transported by ambulance to a hospital, where she was treated and released.

GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

6 Damage to the front of case vehicle (A) was minor. 7 Direct damage began at the left-front bumper corner and extended 69-cm to the right, resulting in 47% vehicle overlap (%VOL). 8 The maximum crush was 28 cm and it occurred at the left-front bumper corner.

9 Damage to the front of vehicle (B) was moderate, with most of the damage above the bumper. 10 11 Direct damage began at the right-front bumper corner and extended 65-cm to the right, resulting in 46% VOL. The maximum crush was 32 cm and it occurred above the bumper near the center of the right upper radiator support. 12 The maximum crush at bumper level was 17 cm and it occurred at the right-front bumper corner. The right bumper corner was shifted 40-cm to the left and the left bumper corner was shifted 19-cm to the left. 13 The left wheelbase was reduced by 6 cm and the right wheelbase was increased by 2 cm.

Using the WinSMASH crash-reconstruction program and crush profiles measured for 14 15 16 case vehicle (A) and 17 18 19 vehicle (B), the following impact severities were estimated:

		Estimated Velocity Change - kph (mph)		
Vehicle	Variable	Total	Longitudinal	Latitudinal
Case vehicle (A)	delta V	17 (11)	-17 (-10)	-3 (-2)

Vehicle (B)	delta V	29 (18)	-22 (-14)	-18 (-12)

DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

Exterior

In the front, 7 15 20 21 the left sections of the bumper and the grille were crushed rearward and to the right, the left headlight assembly was broken, and the lower fascia was partly torn off. The hood latch was damaged and jammed closed. 22 There was no damage to the hood hinges but the rear edge of the hood was slightly elevated, although it did not contact the windshield.

On the left side, 23 the front of the fender was pushed rearward and buckled out. 24 The left-front tire was partially deflated and the left-front wheel was displaced rearward, reducing the left wheelbase by 6 cm. 25 The driver door was closed and operational, all left-side glazing was intact, and there was no other left-side damage.

26 There was no damage to the rear of the case vehicle from this crash.

27 On the right side, the rear section of the fender was buckled 28 and the right wheelbase was reduced by 3 cm. The right-side door was closed and operational, all right-side glazing was intact, and there was no other right-side damage.

Interior

This vehicle was equipped with steering-wheel and dash-mounted frontal-impact airbags and 29 30 31 both deployed during the frontal impact. In the driver area, 29 there was no damage to the steering-wheel airbag or 32 33 34 35 to the airbag module cover. 39 There were scuffmarks on the knee-bolster cover below and to the right of the steering column but 36 37 38 40 41 42 there was no other damage in the driver area.

43 There was no damage in the center-front area and 31 44 45 46 there was no damage in the right-front seating area. 47 48 There was no other interior damage and there were no intrusions into the occupant space.

OCCUPANT KINEMATICS AND INJURIES

49 The 170-cm, 145-kg (5-ft 7-in, 320-lb) 38-year-old female driver was not using the three-point belt and 50 the steering-wheel airbag deployed. 51 There were no belt-webbing marks on the D-ring to indicate belt use. During the offset-frontal impact, the driver moved forward relative to the vehicle interior, into the knee bolster and the airbag. She sustained a contusion to the left elbow, possibly from contact with the interior of the driver door. She sustained a contusion to the right knee from contact with the knee bolster, 39 as evidenced by scuffmarks on the bolster cover.

52 The 180-cm, 88-kg (5-ft 11-in, 195-lb) 55-year-old male right-front passenger was not using the three-point belt 53 and the dash-mounted airbag deployed. There were no belt loading marks on the D-ring to indicate belt use. During the frontal impact, the right-front passenger moved forward relative to the vehicle interior, into the dash-mounted airbag. He sustained a laceration to the lip and a contusion to the chest, probably from contact by the airbag.

The following tables and attached drawings 54 55 summarize the injuries for the two occupants of case vehicle (A).

Occupant: Driver	Age: 38 years	Gender: Female
Restraints: Steering-wheel airbag	Stature: 170 cm (5 ft, 7 in)	Mass: 145 kg (320 lb)

Injury Description	A.I.S.	Injury Source		
—	—	Definite	Probable	Possible
Contusion, left elbow	1	—	—	Interior of driver door
Contusion, right knee	1	Knee bolster	—	—
Maximum A.I.S. Level	1	—	—	—
Injury Severity Score	1	—	—	—

Occupant: Right front	Age: 55 years	Gender: Male
Restraints: Dash-mounted airbag	Stature: 180 cm (5 ft, 11 in)	Mass: 88 kg (195 lb)

Injury Description	A.I.S.	Injury Source		
—	—	Definite	Probable	Possible
Laceration, lip	1	—	Airbag	—
Contusion, chest	1	—	Airbag	—
Maximum A.I.S. Level	1	—	—	—
Injury Severity Score	1	—	—	—

CASE NO.: **UM-4262**

CASE VEHICLE: **1998 Ford**

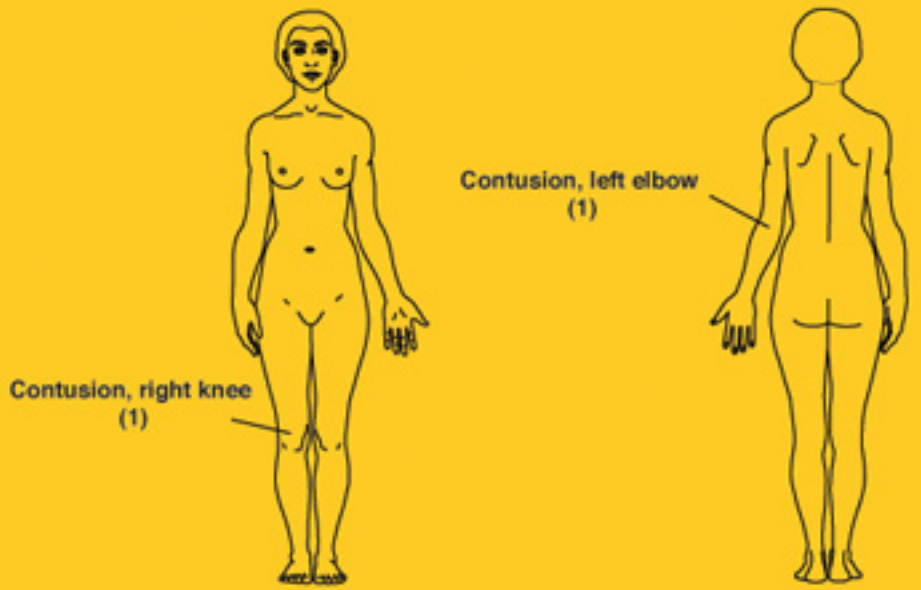
TYPE: **Explorer Sport, 4x2, 2-door SUV**

OCCUPANT: **Driver: 38-year-old female**

STATURE: **170 cm (5 ft, 7 in)** MASS: **145 kg (320 lb)**

RESTRAINTS: **Steering-wheel airbag**

SEVERITY: MAIS - **1** : ISS - **1**



CASE NO.: **449**

CASE VEHICLE: **1998 Ford**

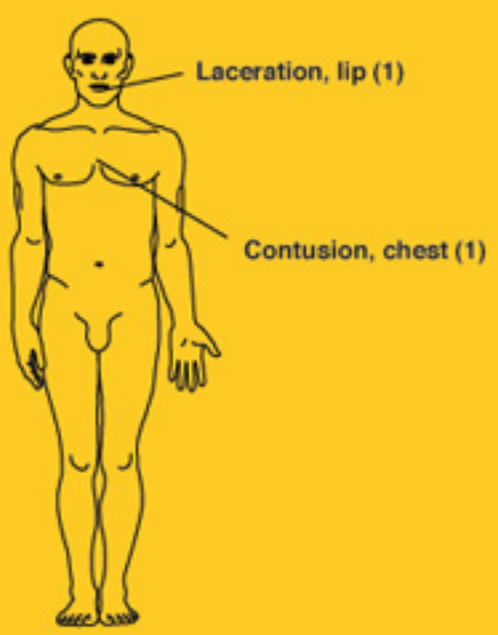
TYPE: **Explorer Sport, 4x2, 2-door SUV**

OCCUPANT: **Right front: 55-year-old male**

STATURE: **180 cm (5 ft, 11 in)** MASS: **88 kg (195 lb)**

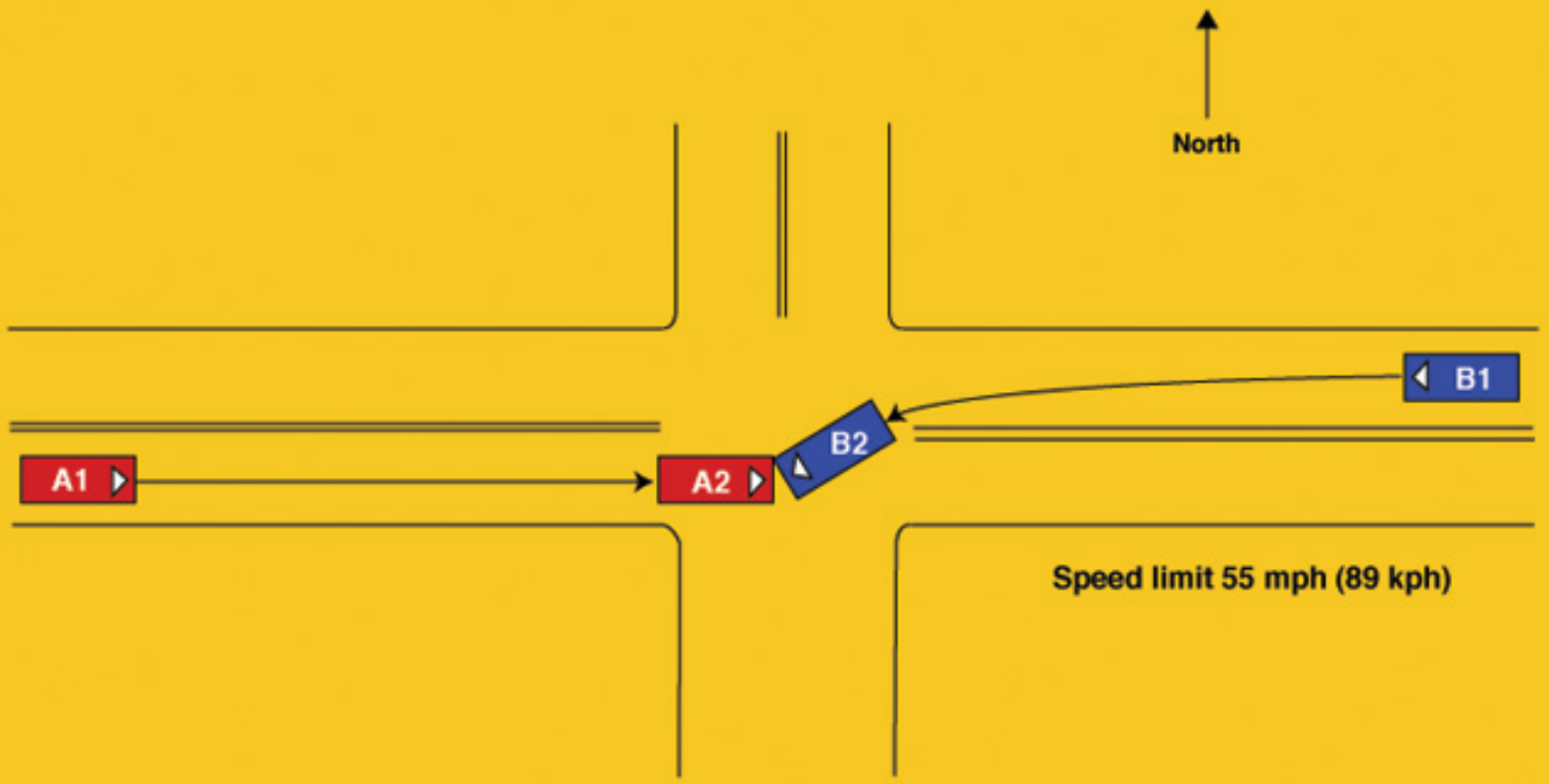
RESTRAINTS: **Dash-mounted airbag**

SEVERITY: MAIS - **1** : ISS - **1**



Case No.: **449**
Case Veh. (A): **1998 Ford**
Type: **Explorer Sport, 4x2, 2-door SUV**
Driver: **38-year-old female**
Veh. (B): **2000 Hyundai Accent GL, 4-door sedan**

Light Conditions: **Daylight**
Weather: **Cloudy**
Road Surface: **Wet**
Road Construction: **Asphalt**



UM-4262: 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	0714	Time of day (24 hour clock)	more
V0205	State Fips Code	26	Michigan	more
V0206	Urban/rural Area	2	Rural	more
V0207	Limited Access Highway	0	No	more
V0208	Road Total Lanes	2	2 lanes	more
V0209	Intersect Road Total Lanes	2	2 lanes	more
V0210	Trafficway Flow	0	Not physically divided - two way traffic	more
V0211	Road Surface Type	1	Asphalt	more
V0212	Road Defects	0	No	more
V0213	Construction Zone	0	No	more
	Road Alignment Vertical			

V0214	Plane	1	Level	more
V0215	Road Alignment Horzontal Plane	1	Straight	more
V0216	Surface Covering	22	Water - wet	more
V0217	Visibility Limitation	0	None	more
V0218	Visibility Obstruction	0	None	more
V0219	Speed Limit	6	86-90 km/h .. 55 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 Initation 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	1	C - Possible 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	KMHCG45G8YXXXXXXX	Click for Contacted Vehicle figure	more
V0302	Other Vehicle Manufacturer/Body Code	93926	—	—
V0303	Other Vehicle Manufacturer	939	Hyundai	more
V0304	Other Vehicle Body Code	26	Sub-Compact 95-99.9 in. wb.	more
V0305	Other Vehicle Make/model	4703	Accent	more
V0306	Other Vehicle Model Year	2000	Year	more
V0307	Other Vehicle Mass	001066 kg	Mass (Kg.)	more
V0308	Other Vehicle Number	2	Vehicle #2	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	1	C - Possible Injury	more
V0312	Other Vehicle Type	26	Sub-Compact 95-99.9 in. wb.	more
V0313	Other Vehicle Wheelbase in Centimeters	244 cm	Actual Wheelbase (cm)	more
V0314	Other Vehicle Average Track Width	144 cm	actual measurement (cm)	more
V0315	Other Vehicle Overall Length	423 cm	actual measurement (cm)	more
V0316	Other Vehicle Overall Width (OAW)	167 cm	actual measurement (cm)	more
V0317	Other Vehicle Front Overhang	084 cm	actual measurement (cm)	more

V0318	Other Vehicle Rear Overhang	098 cm	actual measurement (cm)	more
V0319	Other Vehicle Undeformed End Width (UEW)	144 cm	actual measurement (cm)	more
V0320	Other Vehicle Engine Displacement	1.5 *l*	Liters	more
V0321	Other Vehicle Engine: Number of Cylinders	04	number of cylinders	more
V0322	Other Vehicle Direct Damage Length (DDL)	065 cm	actual measurement (cm)	more
V0323	Other Vehicle Front-End Overlap	45	percentage (%)	more
V0324	Other Vehicle - Vehicle Overlap	46	percentage (%)	more

Case Vehicle General

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0401	VIN	1FMYU22X3WXXXXXXX	Click for Case Vehicle figure	more
V0402	Manufacturer/Body Code	12114	—	—
V0403	Vehicle Manufacturer	121	Ford	more
V0404	Vehicle Body Code	14	Short wheelbase utility vehicle (Jeep, Bronco)	more
V0405	Make/model Code	3131	Explorer MPV	more
V0406	Model Year	1998	Model year	more
V0407	Vehicle Mass	001675 kg	Mass (Kg)	more
V0408	Odometer Reading	163983	—	—
V0409	Number of Occupants	02	2 occupants	more
V0410	Traveling Speed	999	Unknown	more
V0411	Body Type	21	Small utility (e.g. Jeep, Scout, Bronco)	more
V0412	Stolen Vehicle	8	Not currently collected	more
V0413	Body Structure	1	Body and frame	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	1	Two-wheel	more
V0421	Air Conditioning in Vehicle	8	Not currently collected	more
V0422	Drive Type	1	Rear 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	258 cm	Actual Wheelbase	more
V0428	Anti-lacerative Glass	8	Not Collected	more
V0429	Case Vehicle average track Width	149 cm	actual measurement (cm)	more
V0430	Case Vehicle Overall Length	456 cm	actual measurement (cm)	more
V0431	Case Vehicle Overall Width (OAW)	178	actual measurement (cm)	more
V0432	Case Vehicle Front Overhang	086 cm	actual measurement (cm)	more
V0433	Case Vehicle Rear Overhang	112 cm	actual measurement (cm)	more
V0434	Case Vehicle Undeformed End Width (UEW)	150 cm	actual measurement (cm)	more
V0435	Case Vehicle Engine Displacement	4.0 *l*	Liters	more
V0436	Case Vehicle Engine: Number of Cylinders	06	number of cylinders	more
V0437	Case Vehicle Direct Damage Length (DDL)	069 cm	actual measurement (cm)	more
V0438	Case Vehicle Front-end Overlap	46	percentage (%)	more
V0439	Case Vehicle - Vehicle Overlap	47	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	028 cm	Depth of Crush (cm)	more
V0502	Maximum Sheet Metal Crush - Rear	000 cm	No Crush (or less than 1 cm.)	more
V0503	Maximum Sheet Metal Crush - Roof	000 cm	No Crush (or less than 1 cm.)	more
V0504	Maximum Sheet Metal Crush - Right Side	000 cm	No Crush (or less than 1 cm.)	more
V0505	Maximum Sheet Metal Crush - Left Side	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 Chronologicl Ordr	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	26	Sub-Compact 95-99.9 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
	Event 6 -Impact			

V0524	Configuration	88	No 6th event	more
V0525	Event 6 -Object/Vehicle Contactd	00	No object/vehicle contacted	more
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)	028	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	2	—	—
V0539	Primary CDC - Contacted Vehicles Assoc CDC - CDC #1	12FYEW2	—	—
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	0	—	—

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-estimater	1	Investigator	more
V0549	Primary CDC Contacted Vehicle - Crush (CM)	032	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	2	—	—
V0556	primary CDC - Contacted Vehicles Assoc CDC - CDC #1	01FZEW2	—	—
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	0	—	—
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-estimater	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	0	—	—
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	0	—	—
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-estimater	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
	Secondary CDC Contacted			

V0586	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	0	—	—
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	0	—	—
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	017 kph	kph	more
V0603	Primary delta-V Case Vehicle -LONGITUD	-017	—	—
V0604	Primary delta-V Case Vehicle-Lateral	-003	—	—
V0605	Primary Delta V Case Vehicle - Energy Dissipated	0020	—	—

	by Crush (k			
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 Vehicle - Total Delta V	029 kph	kph	more
V0609	Primary delta-V Contacted Vehicle-LONGITUD	-022	—	—
V0610	Primary delta-V Contacted Vehicle-Lateral	-018	—	—
V0611	Primary delta-V Contacted Vehicle - Energy Dissipated by Cru	0065	—	—
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
	Primary EBS Case Vehicle -			

V0624	Total EBS	014 kph	kph	more
V0625	Primary EBS Case Vehicle - LONGITUD	-014	—	—
V0626	Primary EBS Case Vehicle-Lateral	-003	—	—
V0627	Primary EBS Case Vehicle - Energy Dissipated by Crush (kj)	0020	—	—
V0628	Primary EBS Case Vehicle-Reconstruction	22	Reconstructed, moderate confidence level	more
V0629	Primary EBS Case Vehicle-Mode	2	CDC & detailed damage	more
V0630	Primary EBS Contacted Vehicle - Total EBS	031 kph	kph	more
V0631	Primary EBS Contacted Vehicle-LONGITUD	-023	—	—
V0632	Primary EBS Contacted Vehicle-Lateral	-020	—	—
V0633	Primary EBS Contact Vehicle - Energy Dissipated by Crush (kj	0065	—	—
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)	069 cm	cm	more
V0648	Direct Damage Maximum Crush - Case Vehicle (1)	028 cm	cm	more
V0649	Direct and Induced Damage Length in CM	139 cm	cm	more
V0650	Field C1 - Case Vehicle (1)	028 cm	cm	more
V0651	Field C2 - Case Vehicle (1)	007 cm	cm	more
V0652	Field C3 - Case Vehicle (1)	003 cm	cm	more
V0653	Field C4 - Case Vehicle (1)	001 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	-041 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)	069 cm	cm	more
V0660	Direct Damage MaximumCrush - Case Vehicle (2)	028 cm	cm	more
V0661	Direct and Induced Damage Length in CM	139 cm	cm	more
V0662	Field C1 - Case Vehicle (2)	028 cm	cm	more
V0663	Field C2 - Case Vehicle (2)	007 cm	cm	more
V0664	Field C3 - Case Vehicle (2)	003 cm	cm	more
V0665	Field C4 - Case Vehicle (2)	001 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	-041 cm	cm	more
V0669	Specific Event # Cont(1)	1	Event number 1	more

V0670	Plane of Impact Contacted Vehicle(1)	5	Other	more
V0671	Direct Damage Length (DDL) - Contacted Vehicle (1)	065 cm	cm	more
V0672	Direct Damage Maximum Crush - Contacted Vehicle (1)	032 cm	cm	more
V0673	Field L - Contacted Vehicle (1)	124 cm	cm	more
V0674	Field C1 - Contacted Vehicle (1)	000 cm	No Crush	more
V0675	Field C2 - Contacted Vehicle (1)	009 cm	cm	more
V0676	Field C3 - Contacted Vehicle (1)	015 cm	cm	more
V0677	Field C4 - Contacted Vehicle (1)	021 cm	cm	more
V0678	Field C5 - Contacted Vehicle (1)	016 cm	cm	more
V0679	Field C6 - Contacted Vehicle (1)	016 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)	5	Other	more
V0683	Direct Damage Length (DDL) - Contacted Vehicle (2)	065 cm	cm	more
V0684	Direct Damage Maximum Crush - Contacted Vehicle (2)	032 cm	cm	more
V0685	Direct and Induced Damage Length in CM	124 cm	cm	more
V0686	Field C1 - Contacted Vehicle (2)	000 cm	No Crush	more
V0687	Field C2 - Contacted Vehicle (2)	009 cm	cm	more
V0688	Field C3 - Contacted Vehicle (2)	015 cm	cm	more
	Field C4 - Contacted Vehicle	021 cm		

V0689	(2)		cm	more
V0690	Field C5 - Contacted Vehicle (2)	016 cm	cm	more
V0691	Field C6 - Contacted Vehicle (2)	016 cm	cm	more
V0692	Direct Damage D Value = The Center of Direct Damage Offset t	+035 cm	Offset (cm)	more

Case Vehicle Tires & Rims

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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	1	Partially deflated	more
	Right Front Tire Condition			

V0718	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	P23575R15	—	—
V0726	Right Front Tire Size	P23575R15	—	—
V0727	Right Rear Tire Size	P23575R15	—	—
V0728	Left Rear Tire Size	P23575R15	—	—
V0729	Left Front Tire Pressure (recorded in psi)	05.0 psi	Actual tire pressure in psi	more
V0730	Right Front Tire Pressure (recorded in psi)	16.0 psi	Actual tire pressure in psi	more
V0731	Right Rear Tire Pressure (recorded in psi)	28.0 psi	Actual tire pressure in psi	more
V0732	Left Rear Tire Pressure (recorded in psi)	20.0 psi	Actual tire pressure in psi	more
V0733	Left Front Tread Depth	11	11/32"	more
V0734	Right Front Tread Depth	07	07/32"	more
V0735	Right Rear Tread Depth	11	11/32"	more
V0736	Left Rear Tread Depth	08	08/32"	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 vertica	more
V0803	Main Filler Cap Location	113	Left of frame laterally - above vertically	more
V0804	Main Tank Material	3	Plastic	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

Case Vehicle Exterior

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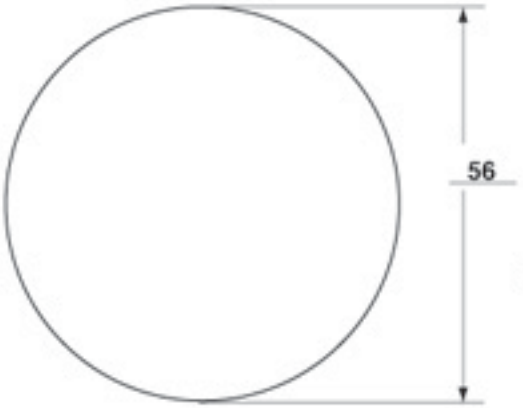
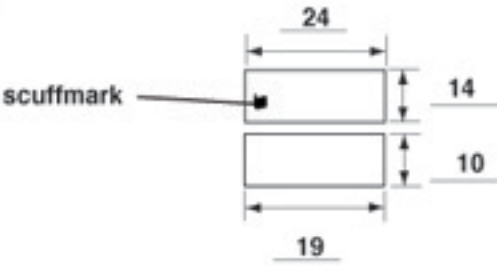
Variable Number	Variable Name	Code Value	Code Description	Other Options
V1101	Hood Latch Released	0	No	more
V1102	Hood Latch Damaged	1	Yes	more
V1103	Hood Latch Jammed	1	Yes	more
V1104	Left Hood Hinge Damaged	0	No	more
V1105	Left Hood Hinge Separated	8	Not applicable	more
V1106	Right Hood Hinge Damaged	0	No	more
V1107	Right Hood Hinge Separated	8	Not applicable	more
V1108	Hood Remained On Vehicle	1	Yes	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	0	No	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	8	Not applicable (not equipped)	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	98	Not applicable (no left rear door)	more
V1130	Left Front Door Jammed Closed	0	No	more
V1131	Left Rear Door Jammed Closed	8	Not applicable (no left rear door)	more
V1132	Van Left Rear Door Type	8	Not applicable (not a van)	more
V1133	Left Front Glazing Availability	2	Closed	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	2	One-way tailgate	more
V1140	Rear Door Opening Cause	0	Door did not open	more
V1141	Rear Door Jammed Closed	0	No	more
V1142	Rear Glazng Availability	2	Closed	more
V1143	Rear Glazing Damage	0	No damage	more
V1144	Luggage Partition Damaged	8	Not applicable	more
V1145	Spare Tire Status	8	Not collected	more
V1146	Trailer Hitch Type	0	No hitch	more

Driver Airbag



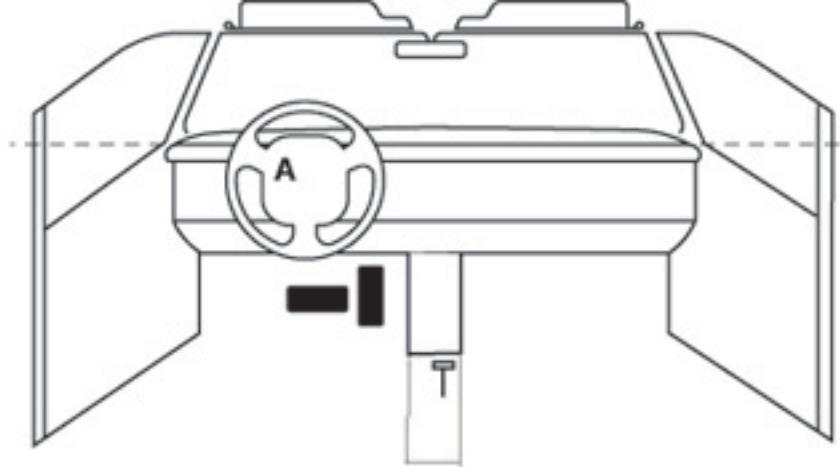
Driver Airbag Doors



Vents: (Y) N
if yes, how many: 2

Tethers: (Y) N
if yes, how many: 2

11 and 1 o'clock



A = upper airbag flap, scuffmark

1 = Definitely 2 = Probably 3 = Possible

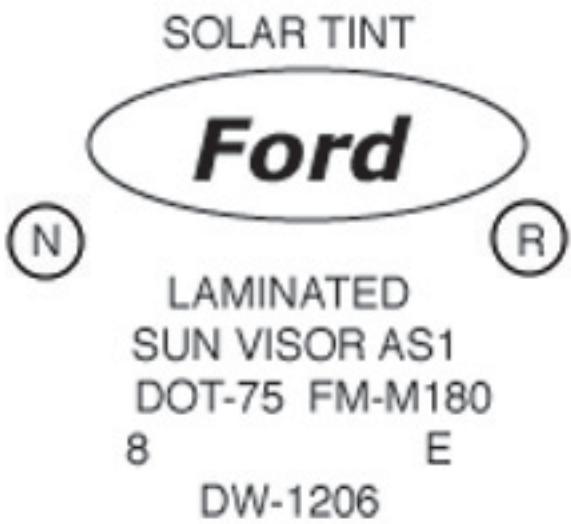
INTRUSION IT-1

Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters) Comparison Value – Intruded Value = Intrusion	Dominant Crush Direction
	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	Steering wheel airbag flap	DR	LX	scuffed	1
B					
C					
D					
E					
F					
G					

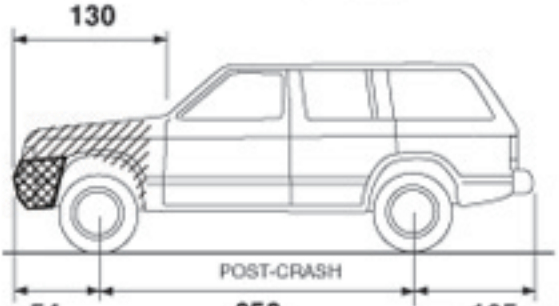
WINDSHIELD MARK ON CASE VEHICLE:



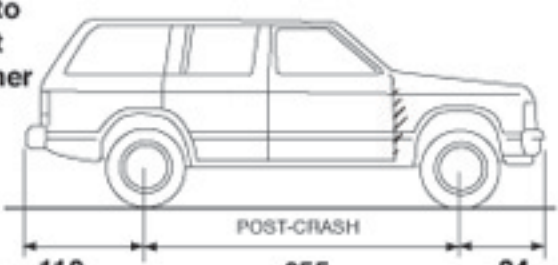
MEASUREMENTS IN CENTIMETERS

Width of direct damage to front

Max. crush to front at left bumper corner

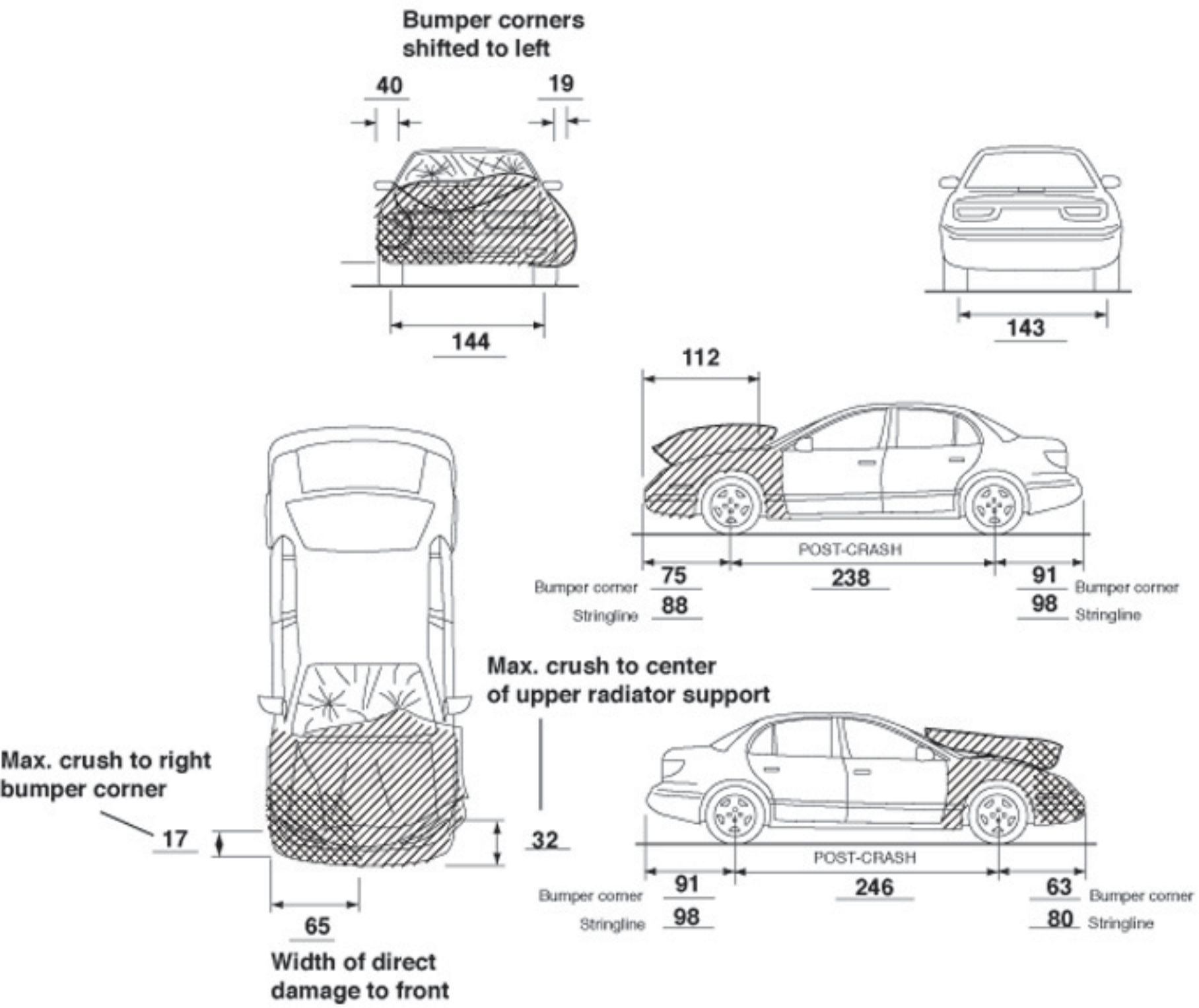


Bumper corner 54 252 105 Bumper corner
Stringline 92 112 Stringline

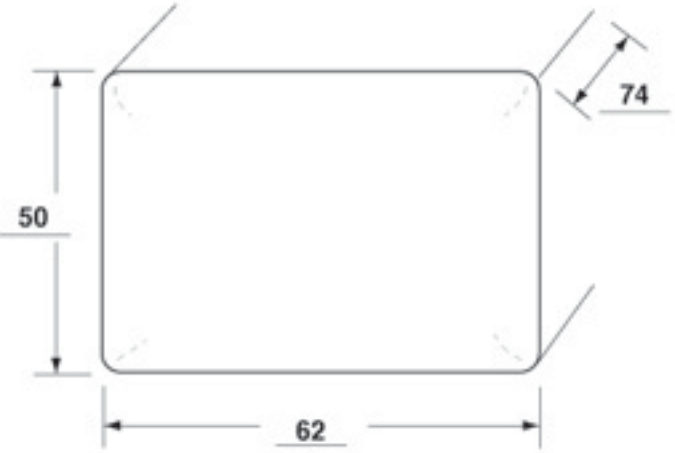


Bumper corner 112 255 84 Bumper corner
Stringline 105 89 Stringline

MEASUREMENTS IN CENTIMETERS

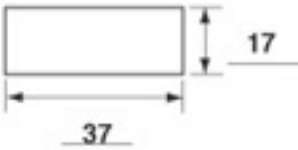


Passenger Airbag



Passenger Airbag Doors

Single Door



Vents: (Y) N

if yes, how many: 2

Tethers: Y (N)

if yes, how many: _____

3 and 9 o'clock on sides


WARNING


SRS
AIRBAG


SRS
AIRBAG


OFF
STANLEY
life grande


STANLEY


STANLEY
Life Guard
MADE IN U.S.A.
RSM


RSM


EXPLORER
SPORT
Forsythe Viking Power


WINTER
GOODYEAR


EXPLORER
Ford


WIDE LOAD