

## Case 431 : Narrative

Case Vehicle (A): 2000 Ford	Vehicle (B): 2000 Dodge
Type: Windstar LX, 4x2, 4-door minivan	Type: Intrepid, 4-door sedan
Driver: 38-year-old female	Driver: 27-year-old female
CDC: 12-FDEW-3, 00-TYDO-2	CDC: 10-LYAW-6, 00-TDDO-2

This is a fatal crash. The unbelted driver of vehicle (B) died as a result of head and chest injuries sustained in a left-side T-type impact.

### SITUATION

1 It was daylight, the sky was cloudy, and the asphalt surface at the intersection of the two-lane east-west and north-south roads with posted speed limits of 55 mph (89 kph) was dry and in good condition. 2 Case vehicle (A) was traveling west at an unknown speed in the westbound lane of the east-west road 3 and vehicle (B) was traveling south at an unknown speed in the southbound lane. 4 Both vehicles entered the intersection at the same time with vehicle (B) just in front of case vehicle (A). The driver of case vehicle (A) applied the brakes and steered to the left, but the front of case vehicle (A) struck the left side of vehicle (B) in a T-type impact. After the collision, case vehicle (A) rotated counterclockwise about 90° while moving to the southwest, 5 as evidenced by tire marks on the road surface, and went down a small embankment, 6 as evidenced by gouges in the soft dirt. The front wheels dug into the dirt and case vehicle (A) rolled two quarter turns with the right side leading, and 7 came to rest on its roof in a swamp at the southwest corner of the intersection. Vehicle (B) also moved to the southwest, rotating about 45° counterclockwise, 5 as evidenced by tire marks on the road surface, and went down the same small embankment, 6 as evidenced by the gouges in the soft dirt. Vehicle (B) then rolled three quarter turns onto its left side and came to rest in the same swamp. Both vehicles were towed due to damage.

The police accident report indicates A-level injuries for the driver of case vehicle (A) and K-level injuries for the driver of vehicle (B). Both drivers were transported by ambulance to a hospital, where the driver of case vehicle (A) was treated and released. The driver of vehicle (B) was pronounced dead five hours after the crash.

### GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

8 Damage to case vehicle (A) was moderate. 9 Direct damage from the frontal impact began at the right-front bumper corner and extended 150-cm across the front to the left headlight assembly, resulting in a 94-percent vehicle overlap (%VOL). The maximum rearward crush was 48 cm and it occurred at the center of the bumper. 10 The maximum downward roof crush from the rollover was 5 cm and it occurred at the center-front area of the roof.

11 Damage to vehicle (B) was severe. 12 Direct damage from the left-side impact began at the left-front axle and extended 240-cm rearward to the left-rear axle. The maximum lateral crush was 77 cm and it occurred at the rear edge of the driver door. 13 The maximum crush from the rollover was 9 cm and it occurred at the center front of the roof. Rollover damage included indentations and scuffmarks on the

right fender, on both right-side doors, and on the left fender and left quarter panel. [14](#) The left wheelbase was reduced by 26 cm [15](#) and the right wheelbase was increased by 4 cm.

Using the WinSMASH crash-reconstruction program and [16 17 18](#) crush profiles measured for the front of case vehicle (A) at the level of the bumper and [19 20 21](#) above the door sill for the left side of vehicle (B), the following impact severities were estimated for the T-type impact:

		Estimated Velocity Change - kph (mph)		
Vehicle	Variable	Total	Longitudinal	Latitudinal
Case Vehicle (A)	delta V	43 (27)	-43 (-26)	-8 (-5)
Vehicle (B)	delta V	49 (31)	-9 (-5)	48 (30)

## DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

### Exterior

[22 23 24](#) In the front, the bumper and the hood were crushed rearward. The hood was dented and the hood latch was damaged and jammed closed, but the hood had been pried open by emergency personnel. [25 26](#) Both hood hinges were damaged and [27](#) the rear edge of the hood was slightly elevated, but [28](#) it did not contact the windshield, which was cracked throughout due to body distortion. [10](#) The front section of the roof forward of the A-pillar and above the front-row passenger area was crushed down from the rollover.

On the right side, [29](#) the front section of the fender was crushed to the left and the fender and left-front wheel were crushed rearward, reducing the wheelbase by 6 cm. [30](#) The rear section of the right fender and the exterior panel of the right-front door were dented from contact with the ground during the rollover, as evidenced by sod in the handle of the sliding door. [31](#) Both right-side doors were closed and operational, and the right-side glazing was intact. There was no other damage to the right side of case vehicle (A).

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

[33](#) On the left side, the forward section of the fender was bowed out. [34](#) There was no other left-side damage, both left-side doors were closed and operational, all door glazing was intact, and there was no change in left wheelbase.

### Interior

This vehicle was equipped with steering-wheel and dash-mounted frontal-impact airbags and [35 36 37](#) both deployed during the frontal impact. [38](#) In the driver area, there was no damage to the steering-wheel airbag or [39](#) to the module cover. [40 41](#) There was no damage to the steering-wheel rim or to the spokes but [42](#) the steering column was displaced up and to the right. [43](#) The windshield header, the roof headliner, and the roof in the driver area were buckled and the roof headliner was stained with mud and dirt from the boots of rescue personnel. [44](#) The mid section of the instrument panel was loose and [45](#) the junction of the right knee bolster, the mid section of the instrument panel, and the vertical console were scuffed and dented. [46](#) There was no other damage to the interior in the driver area.

[47](#) In the center-front area, the windshield header and the roof were crushed down and [48](#) the rearview

mirror was cracked and off its mount. [49](#) The upper-right vent outlet was loose and the vertical console was slightly separated from the center stack. There was no other damage in the center-front area.

In the right-front seating area, [50 51](#) the dash-mounted airbag was deployed but it was not damaged. [52 53](#) There was no other damage in the right-front passenger area.

[54 55](#) In the rear seating areas, the headliner was stained with mud and dirt from the boots of rescue personnel and [56](#) the headrests of the second- and third-row seatbacks had been removed to extricate the driver through the rear door. [57 58 59 60 61](#) There was no other damage in the rear seating areas.

The following intrusions were noted and measured:

Location	Component	Distance (cm)	Direction
driver	roof	3	down
center front	roof	5	down
right front	roof	3	down

## OCCUPANT KINEMATICS AND INJURIES

The 170-cm, 91-kg (5-ft 7-in, 200-lb) 38-year-old female driver was **not** using the three-point belt but [62](#) the steering-wheel airbag deployed. [63](#) There were no witness marks on the D-ring [64](#) or on the continuous loop of the sliding latch plate to indicate belt use at the time of the frontal collision with the left side of vehicle (B).

During the frontal impact, the female driver moved forward and slightly to the right relative to the vehicle interior, into the knee bolster and the airbag. She sustained an abrasion to the cornea of the right eye, probably from contact by the deploying airbag. She sustained sprains to the right hip and right ankle, probably from foot contact with the brake pedal while braking during the frontal impact.

The following table and attached drawing [65](#) summarize the injuries for the driver of case vehicle (A).

Occupant: Driver	Age: 38 years	Gender: Female		
Restraints: Steering-wheel airbag	Stature: 170 cm (5 ft, 7 in)	Mass: 91 kg (200 lb)		
Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
—	—			
Abrasion, cornea of right eye	1	—	Airbag	—
Sprain, right hip	1	—	Braking with foot on brake pedal	—
			Brake	

Sprain, right ankle	1	—	pedal (braking)	—
Maximum A.I.S. Level	1	—	—	—
Injury Severity Score	2	—	—	—

CASE NO.: 431

CASE VEHICLE: 2000 Ford

TYPE: Windstar LX, 4x2, 4-door minivan

OCCUPANT: Driver: 38-year-old female

STATURE: 170 cm (5 ft, 7 in) MASS: 91 kg (200 lb)

RESTRAINTS: Steering-wheel airbag

SEVERITY: MAIS - 1 : ISS - 2

Abrasion, cornea of right eye  
(1)

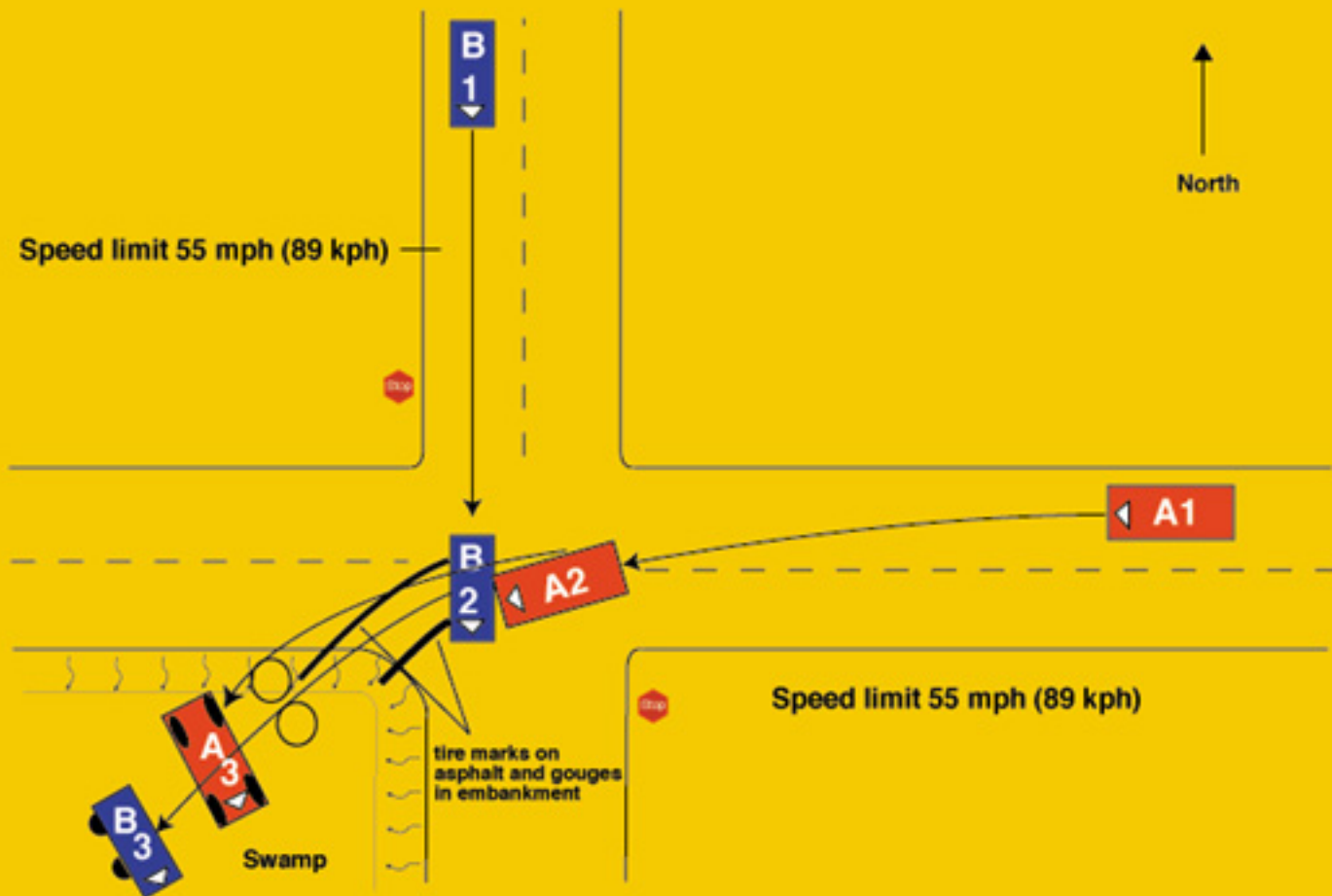
Sprain, right hip  
(1)



Sprain, right ankle  
(1)

Case No.: 431  
Case Veh. (A): 2000 Ford  
Type: Windstar LX, 4x2, 4-door minivan  
Driver: 38-year-old female  
Veh. (B): 2000 Dodge Intrepid, 4-door sedan

Light Conditions: Daylight  
Weather: Cloudy  
Road Surface: Dry  
Road Construction: Asphalt



# Vehicle Report

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## General Conditions

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Variable Number and Name	Code Value	Code Description	Other Options
V206 — Urban/Rural Area	2	Rural	<a href="#">more</a>
V207 — Limited Access Highway	0	No	<a href="#">more</a>
V208 — Road Total Lanes	2	2 lanes	<a href="#">more</a>
V209 — Intersecting Road Total Lanes	2	2 lanes	<a href="#">more</a>
V210 — Road Surface Type	1	Asphalt	<a href="#">more</a>
V211 — Road Defects	0	No	<a href="#">more</a>
V212 — Construction Zone	0	No	<a href="#">more</a>
V213 — Road Alignment Vertical Plane	1	Level	<a href="#">more</a>
V214 — Road Alignment Horizontal Plane	1	Straight	<a href="#">more</a>
V215 — Surface Covering	10	Dry	<a href="#">more</a>
V216 — Visibility Limitation	0	None	<a href="#">more</a>
V217 — Visibility Obstruction	0	None	<a href="#">more</a>
V218 — Speed Limit	6	86-90 km/h .. 55 mph	<a href="#">more</a>
V219 — Precipitation Type	0	None	<a href="#">more</a>
V220 — Precipitation Rate	8	Not applicable	<a href="#">more</a>
V221 — Temperature	9	Unknown	<a href="#">more</a>

V222 — Crosswind	9	Unknown	<a href="#">more</a>
V223 — Light Conditions	1	Daylight	<a href="#">more</a>
V224 — Mechanical Malfunction Mention	0	No	<a href="#">more</a>
V225 — Case Vehicle and Object	0	No	<a href="#">more</a>
V226 — Case Vehicle Rollover	2	Yes, Subsequent Event	<a href="#">more</a>
V227 — Case Vehicle Ran Off Roadway	0	No	<a href="#">more</a>
V228 — Moving Case Vehicle/Contacted Moving Vehicle	1	Yes	<a href="#">more</a>
V229 — Case Vehicle/Contacted Stopped Vehicle	0	No	<a href="#">more</a>
V230 — Stopped Case Vehicle/Contactd Vehicle	0	No	<a href="#">more</a>
V231 — Total Vehicles Hit By Case Vehicle	1	1 vehicle	<a href="#">more</a>
V232 — Any Fire in Crash	0	No	<a href="#">more</a>
V233 — Max Police Severity-PAR	4	K - Fatal	<a href="#">more</a>
V234 — Driver Alcohol Involvement	0	Had not been drinking	<a href="#">more</a>
V235 — Driver Alcohol BAC	80	Not tested	<a href="#">more</a>
V236 — Driver Impairment Mention	0	No	<a href="#">more</a>
V237 — Driven/Towed From Scene	2	Towed Due to Damage	<a href="#">more</a>

## Other Vehicle

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Variable Number and Name	Code Value	Code Description	Other Options
V301 — Other Vehicle VIN	2B3HD46R2YH2	—	—
V302 — Other Vehicle Manufacturer/Body Code	23229	—	—
V303 — Other Vehicle Manufacturer	232	Dodge	<a href="#">more</a>
V304 — Other Vehicle Body Code	29	Full 110-114.9 in. wb.	<a href="#">more</a>
V305 — Other Vehicle Make/Model	0739	Intrepid	<a href="#">more</a>
V306 — Other Vehicle Model Year	2000	—	—
V307 — Other Vehicle Mass	001578 kg	—	—
V308 — Other Vehicle Number	2	Vehicle #2	<a href="#">more</a>
V309 — Other Vehicle Number of Occupants	01	—	—
V310 — Other Vehicle Traveling Speed	999	Unknown	<a href="#">more</a>



V311 — Highest Police Injury Severity	4	K - Fatal	<a href="#">more</a>
V312 — Other Vehicle Type	29	Full 110-114.9 in. wb.	<a href="#">more</a>
V313 — Other Vehicle Wheelbase (cm)	287 cm	—	—
V314 — Average Track Width	158 cm	—	—
V315 — Overall Length	518 cm	—	—
V316 — Overall Width (OAW)	190 cm	—	—
V317 — Front Overhang (FOH)	108 cm	—	—
V318 — Rear Overhang (ROH)	123 cm	—	—
V319 — Undeformed End Width (UEW)	148 cm	—	—
V320 — Engine Displacement	2.7 l	—	—
V321 — Engine: Number of Cylinders	06	—	—
V322 — Direct Damage Length (DDL)	999	Unknown	<a href="#">more</a>
V323 — Front-End Overlap % (FEO)	99	Missing or Not applicable	<a href="#">more</a>
V324 — Vehicle Overlap % (VOL)	99	Missing or Not applicable	<a href="#">more</a>

## Case Vehicle General



[Click for case vehicle figure](#)

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Variable Number and Name	Code Value	Code Description	Other Options
V401 — VIN	2FMZA5147YBA	—	—
V402 — Manufacturer/Body Code	22111	—	—
V403 — Vehicle Manufacturer	221	Ford/Canada	<a href="#">more</a>
V404 — Vehicle Body Code	11	—	—
V405 — Make/Model Code	3133	Windstar	<a href="#">more</a>
V406 — Model Year	2000	—	—
V407 — Vehicle Mass	001808 kg	—	—
V408 — Odometer Reading	888888	—	—
V409 — Number of Occupants	01	—	—
V410 — Traveling Speed	999	Unknown	<a href="#">more</a>
V411 — Body Type	24	Van (small)	<a href="#">more</a>
V412 — Stolen Vehicle	8	Not currently collected	<a href="#">more</a>
V413 — Body Structure	2	Unitized	<a href="#">more</a>
V414 — Transmission Type	1	Automatic	<a href="#">more</a>
	3		

V415 — Transmission Lever Location		Column	<a href="#">more</a>
V416 — Steering	1	Power	<a href="#">more</a>
V417 — Brakes	1	Power	<a href="#">more</a>
V418 — Brake Type	2	Disc - front wheels	<a href="#">more</a>
V419 — Brake Anti-lock Device	2	Four-wheel	<a href="#">more</a>
V420 — Air Conditioning in Vehicle	8	Not currently collected	<a href="#">more</a>
V421 — Drive Type	2	Front wheel	<a href="#">more</a>
V422 — Dual Rear Wheels	0	No	<a href="#">more</a>
V423 — Original Restraint System Type	3	Airbag	<a href="#">more</a>
V424 — Equipped With Roll Bar	0	No	<a href="#">more</a>
V425 — Roof Type	1	Solid	<a href="#">more</a>
V426 — Wheelbase	307 cm	—	—
V427 — Anti-lacerative Glass	0	None	<a href="#">more</a>
V428 — Average Track Width	162 cm	—	—
V429 — Overall Length	512 cm	—	—
V430 — Overall Width (OAW)	192 cm	—	—
V431 — Front Overhang	102 cm	—	—
V432 — Rear Overhang	103 cm	—	—
V433 — Undeformed End Width (UEW)	160 cm	—	—
V434 — Engine Displacement	3.8 l	—	—
V435 — Engine: Number of Cylinders	06	—	—
V436 — Direct Damage Length (DDL)	150 cm	—	—
V437 — Front End Overlap % (FEO)	94	—	—
V438 — Vehicle Overlap % (VOL)	86	—	—

## Case Vehicle

### Damage Description

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Variable Number and Name	Code Value	Code Description	Other Options
V501 — Maximum Crush - Front	048 cm	—	—
V502 — Maximum Crush - Right Side	000 cm	No crush (or less than 1 cm.)	<a href="#">more</a>
	000 cm	No crush (or	

V503 — Maximum Crush - Rear		less than 1 cm.)	<a href="#">more</a>
V504 — Maximum Crush - Left Side	000 cm	No crush (or less than 1 cm.)	<a href="#">more</a>
V505 — Maximum Crush - Roof	005 cm	—	—
V506 — Maximum Crush - Other	000 cm	No crush (or less than 1 cm.)	<a href="#">more</a>
V507 — Are Events In Chronological Order	1	Yes	<a href="#">more</a>
V508 — Event 1 Impact Location	1	On Roadway	<a href="#">more</a>
V509 — Event 1 Impact Configuration	13	FRONT of case veh - SIDE of contacted Vehicle	<a href="#">more</a>
V510 — Event 1 Object/Vehicle Contacted	29	Full 110-114.9 in. wb.	<a href="#">more</a>
V511 — Event 2 Impact Location	3	On Roadside	<a href="#">more</a>
V512 — Event 2 Impact Configuration	61	Case vehicle rollover - less than 360 degrees	<a href="#">more</a>
V513 — Event 2 Object/Vehicle Contacted	79	Embankment, snowbank, RR tracks, RR crossing	<a href="#">more</a>
V514 — Event 3 Impact Location	8	No 3rd event	<a href="#">more</a>
V515 — Event 3 Impact Configuration	88	No 3rd event	<a href="#">more</a>
V516 — Event 3 Object/Vehicle Contacted	00	No object/vehicle contacted	<a href="#">more</a>
V517 — Event 4 Impact Location	8	No 4th event	<a href="#">more</a>
V518 — Event 4 Impact Configuration	88	No 4th event	<a href="#">more</a>
V519 — Event 4 Object/Vehicle Contacted	00	No object/vehicle contacted	<a href="#">more</a>
V520 — Event 5 Impact Location	8	No 5th event	<a href="#">more</a>
V521 — Event 5 Impact Configuration	88	No 5th event	<a href="#">more</a>
V522 — Event 5 Object/Vehicle Contacted	00	No object/vehicle contacted	<a href="#">more</a>
V523 — Event 6 Impact Location	8	No 6th event	<a href="#">more</a>

V524 — Event 6 Impact Configuration	88	No 6th event	<a href="#">more</a>
V525 — Event 6 Object/Vehicle Contacted	00	No object/vehicle contacted	<a href="#">more</a>
V526 — Event 7 Impact On Road	8	No 7th event	<a href="#">more</a>
V527 — Event 7 Impact Configuration	88	No 7th event	<a href="#">more</a>
V528 — Event 7 Object/Vehicle Contacted	00	No object/vehicle contacted	<a href="#">more</a>
V529 — Primary CDC Case Vehicle -event Number	1	Event 1	<a href="#">more</a>
V530 — Primary CDC Case Vehicle - impact speed	999	Unknown	<a href="#">more</a>
V531 — Primary CDC Case Vehicle - Estimated By	1	Investigator	<a href="#">more</a>
V532 — Primary CDC Case Vehicle -crush	048	—	—
V533 — Primary CDC Case Vehicle -clock #1	12	12 o'clock	<a href="#">more</a>
V534 — Primary CDC Case Vehicle letter 1 #1	06	F - Front	<a href="#">more</a>
V535 — Primary CDC Case Vehicle letter 2 #1	04	D - Distributed (Side or End)	<a href="#">more</a>
V536 — Primary CDC Case Vehicle letter 3 #1	05	E - Everything below belt line	<a href="#">more</a>
V537 — Primary CDC Case Vehicle letter 4 #1	23	W - Wide impact area	<a href="#">more</a>
V538 — Primary CDC Case Vehicle Extent #1	03	Extent 3	<a href="#">more</a>
V539 — Primary CDC Case Vehicle -CDC #1	12FDEW3	—	—
V541 — Primary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V542 — Primary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V543 — Primary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V544 — Primary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V545 — Primary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	<a href="#">more</a>

V546 — Primary CDC Case Vehicle -CDC #2	9800000	—	—
V547 — Primary CDC Contacted Vehicle - Impact Speed	999	Unknown	<a href="#">more</a>
V548 — Primary CDC Contacted Vehicle - Estimated By	1	Investigator	<a href="#">more</a>
V549 — Primary CDC Contacted Vehicle -crush	077	—	—
V550 — Primary CDC Contacted Vehicle -clock #1	10	10 o'clock	<a href="#">more</a>
V551 — Primary CDC Contacted Vehicle letter 1 #1	12	L - Left Side	<a href="#">more</a>
V552 — Primary CDC Contacted Vehicle letter 2 #1	25	Y - Side or end (F + P or L + C)	<a href="#">more</a>
V553 — Primary CDC Contacted Vehicle letter 3 #1	01	A - All or Top of vehicle to bottom of vehicle exclusive of	<a href="#">more</a>
V554 — Primary CDC Contacted Vehicle letter 4 #1	23	W - Wide impact area	<a href="#">more</a>
V555 — Primary CDC Contacted Vehicle Extent #1	06	Extent 6	<a href="#">more</a>
V556 — Primary CDC Contacted Vehicle -CDC #1	10LYAW6	—	—
V558 — Primary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V559 — Primary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V560 — Primary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V561 — Primary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V562 — Primary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	<a href="#">more</a>
V563 — Primary CDC Contacted Vehicle -CDC #2	9800000	—	—
V564 — Secondary CDC Case Vehicle - Event No	2	Event 1	<a href="#">more</a>
V565 — Secondary CDC Case Vehicle - Impact Speed	999	Unknown	<a href="#">more</a>

V566 — Secondary CDC Case Vehicle - Estimated By	1	—	—
V567 — Secondary CDC Case Vehicle -crush	005	—	—
V568 — Secondary CDC Case Vehicle -clock #1	00	Nonhorizontal force	<a href="#">more</a>
V569 — Secondary CDC Case Vehicle letter 1 #1	20	T - Top	<a href="#">more</a>
V570 — Secondary CDC Case Vehicle letter 2 #1	25	Y - Side or end (F + P or L + C)	<a href="#">more</a>
V571 — Secondary CDC Case Vehicle letter 3 #1	04	D - Distributed	<a href="#">more</a>
V572 — Secondary CDC Case Vehicle letter 4 #1	15	O - Rollover (includes rolling onto side)	<a href="#">more</a>
V573 — Secondary CDC Case Vehicle Extent #1	02	Extent 2	<a href="#">more</a>
V574 — Secondary CDC Case Vehicle -CDC #1	00TYD02	—	—
V576 — Secondary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V577 — Secondary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V578 — Secondary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V579 — Secondary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V580 — Secondary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	<a href="#">more</a>
V581 — Secondary CDC Case Vehicle -CDC #2	9800000	—	—
V582 — Secondary CDC Contacted Vehicle - Impact Speed	998	Not Applicable	<a href="#">more</a>
V583 — Secondary CDC Contacted Vehicle - Estimated By	8	Not applicable (no vehicle/no impact)	<a href="#">more</a>
V584 — Secondary CDC Contacted Vehicle -crush	998	Not Applicable	<a href="#">more</a>
V585 — Secondary CDC Contacted Vehicle -clock #1	98	Not Applicable	<a href="#">more</a>
	00	Missing	

V586 — Secondary CDC Contacted Vehicle letter 1 #1		Data/Not applicable	<a href="#">more</a>
V587 — Secondary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V588 — Secondary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V589 — Secondary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V590 — Secondary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	<a href="#">more</a>
V591 — Secondary CDC Contacted Vehicle -CDC #1	9800000	—	—
V593 — Secondary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V594 — Secondary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V595 — Secondary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V596 — Secondary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V597 — Secondary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	<a href="#">more</a>
V598 — Secondary CDC Contacted Vehicle -CDC #2	9800000	—	—

## Crash Severity

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Variable Number and Name	Code Value	Code Description	Other Options
V601 — Case Vehicle Primary Impact Number	1	—	—
V602 —	043 kph		

Primary Impact Total Delta-V		—	—
V603 — Primary Case Vehicle Reconstructed Longitudinal Delta-V	-042 kph	—	—
V604 — Primary Case Vehicle Reconstructed Lateral Delta-V	-007 kph	—	—
V605 — Primary Case Vehicle Reconstructed Crush Energy	0106 kJ	—	—
V606 — Primary Impact Case Vehicle - reconstruction	22	Reconstructed, moderate confidence level	<a href="#">more</a>
V607 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	<a href="#">more</a>
V608 — Primary Contacted Vehicle Reconstructed Total Delta-V	050 kph	—	—
V609 — Primary Contacted Vehicle Reconstructed Longitudinal Delta-V	-009 kph	—	—
V610 — Primary Contacted Vehicle Reconstructed	0049 kph	—	—



Lateral Delta-V			
V611 — Primary Contacted Vehicle Reconstructed Crush Energy	0191 kJ	—	—
V612 — Case Vehicle Secondary Impact Number	2	—	—
V613 — Secondary Case Vehicle Reconstructed Total Delta-V	999	Unknown	<a href="#">more</a>
V614 — Secondary Case Vehicle Reconstructed Longitudinal Delta-V	9999	—	—
V615 — Secondary Case Vehicle Reconstructed Lateral Delta-V	9999	—	—
V616 — Secondary Case Vehicle Reconstructed Crush Energy	9999	—	—
V617 — Secondary Case Vehicle Reconstruction Note	04	Rollover	<a href="#">more</a>
V618 — Secondary Case Vehicle Reconstruction Mode	5	Not reconstructed	<a href="#">more</a>
V619 — Secondary	888		

Contacted Vehicle Reconstructed Total Delta-V		N/A	<a href="#">more</a>
V620 — Secondary Contacted Vehicle Reconstructed Longitudinal Delta-V	8888	—	—
V621 — Secondary Contacted Vehicle Reconstructed Lateral Delta- V	8888	—	—
V622 — Secondary Contacted Vehicle Reconstructed Crush Energy	8888	—	—
V623 — Case Vehicle Primary Impact Number	1	—	—
V624 — Primary Case Vehicle Reconstructed Total EBS	037 kph	—	—
V625 — Primary Case Vehicle Reconstructed Longitudinal EBS	-036 kph	—	—
V626 — Primary Case Vehicle Reconstructed Lateral EBS	-006 kph	—	—
V627 — Primary Case Vehicle	0106 kJ	—	—

Reconstructed Crush Energy			
V628 — Primary Case Vehicle Reconstruction Note	22	Reconstructed, moderate confidence level	<a href="#">more</a>
V629 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	<a href="#">more</a>
V630 — Primary Contacted Vehicle Reconstruction Total EBS	055 kph	—	—
V631 — Primary Contacted Vehicle Reconstruction Longitudinal EBS	-010 kph	—	—
V632 — Primary Contacted Vehicle Reconstruction Lateral EBS	0054 kph	—	—
V633 — Primary Contacted Vehicle Reconstruction Crush Energy	0191 kJ	—	—
V634 — Case Vehicle Secondary Impact Number	2	—	—
V635 — Secondary Case Vehicle Reconstruction Total EBS	999	Unknown	<a href="#">more</a>

V636 — Secondary Case Vehicle Reconstruction Longitudinal EBS	9999	—	—
V637 — Secondary Case Vehicle Reconstruction Lateral EBS	9999	—	—
V638 — Secondary Case Vehicle Reconstruction Crush Energy	9999	—	—
V639 — Secondary Case Vehicle Reconstruction Note	04	Rollover	<a href="#">more</a>
V640 — Secondary Case Vehicle Reconstruction Mode	5	Not reconstructed	<a href="#">more</a>
V641 — Secondary Contacted Vehicle Reconstruction Total EBS	888	N/A	<a href="#">more</a>
V642 — Secondary Contacted Vehicle Reconstruction Longitudinal EBS	8888	—	—
V643 — Secondary Contacted Vehicle Reconstruction Lateral EBS	8888	—	—
V644 — Secondary Contacted	8888		

Vehicle Reconstruction Crush Energy		—	—
V645 — Case Vehicle Reconstructed Impact Number	1	—	—
V646 — Case Vehicle Impact 1 Plane	1	Bumper	<a href="#">more</a>
V647 — Case Vehicle Impact 1 Direct Damage Length [DDL]	150 cm	—	—
V648 — Case Vehicle Impact 1 Max Crush	048 cm	—	—
V649 — Case Vehicle Impact 1 Field-L	131 cm	—	—
V650 — Case Vehicle Impact 1 C1	021 cm	—	—
V651 — Case Vehicle Impact 1 C2	017 cm	—	—
V652 — Case Vehicle Impact 1 C3	048 cm	—	—
V653 — Case Vehicle Impact 1 C4	035 cm	—	—
V654 — Case Vehicle Impact 1 C5	026 cm	—	—
V655 — Case Vehicle Impact 1 C6	015 cm	—	—
V656 — Case Vehicle Impact 1 +/- D	0005 cm	—	—

V657 — Case Vehicle Reconstructed Impact Number	2	—	—
V658 — Case Vehicle Impact 2 Plane	5	Other	<a href="#">more</a>
V659 — Case Vehicle Impact 2 Direct Damage Length [DDL]	998	Not applicable	<a href="#">more</a>
V660 — Case Vehicle Impact 2 Max Crush	005 cm	—	—
V661 — Case Vehicle Impact 2 Field-L	998	Not applicable	<a href="#">more</a>
V662 — Case Vehicle Impact 2 C1	998	Not applicable	<a href="#">more</a>
V663 — Case Vehicle Impact 2 C2	998	Not applicable	<a href="#">more</a>
V664 — Case Vehicle Impact 2 C3	998	Not applicable	<a href="#">more</a>
V665 — Case Vehicle Impact 2 C4	998	Not applicable	<a href="#">more</a>
V666 — Case Vehicle Impact 2 C5	998	Not applicable	<a href="#">more</a>
V667 — Case Vehicle Impact 2 C6	998	Not applicable	<a href="#">more</a>
V668 — Case Vehicle Impact 2 +/- D	0998 cm	—	—
V669 — Other Vehicle Reconstructed	1	—	—

Impact Number			
V670 — Other Vehicle Impact 1 Plane	4	Above sill	<a href="#">more</a>
V671 — Other Vehicle Impact 1 Direct Damage Length [DDL]	240 cm	—	—
V672 — Other Vehicle Impact 1 Max Crush	077 cm	—	—
V673 — Other Vehicle Impact 1 Field-L	257 cm	—	—
V674 — Other Vehicle Impact 1 C1	002 cm	—	—
V675 — Other Vehicle Impact 1 C2	048 cm	—	—
V676 — Other Vehicle Impact 1 C3	077 cm	—	—
V677 — Other Vehicle Impact 1 C4	052 cm	—	—
V678 — Other Vehicle Impact 1 C5	019 cm	—	—
V679 — Other Vehicle Impact 1 C6	000 cm	No Crush	<a href="#">more</a>
V680 — Other Vehicle Impact 1 +/- D	0010 cm	—	—
V681 — Other Vehicle Reconstructed Impact Number	2	—	—
V682 — Other	8		

Vehicle Impact 2 Plane		Not applicable	<a href="#">more</a>
V683 — Other Vehicle Impact 2 Direct Damage Length [DDL]	998	Not applicable	<a href="#">more</a>
V684 — Other Vehicle Impact 2 Max Crush	998	Not applicable	<a href="#">more</a>
V685 — Other Vehicle Impact 2 Field-L	998	Not applicable	<a href="#">more</a>
V686 — Other Vehicle Impact 2 C1	998	Not applicable	<a href="#">more</a>
V687 — Other Vehicle Impact 2 C2	998	Not applicable	<a href="#">more</a>
V688 — Other Vehicle Impact 2 C3	998	Not applicable	<a href="#">more</a>
V689 — Other Vehicle Impact 2 C4	998	Not applicable	<a href="#">more</a>
V690 — Other Vehicle Impact 2 C5	998	Not applicable	<a href="#">more</a>
V691 — Other Vehicle Impact 2 C6	998	Not applicable	<a href="#">more</a>
V692 — Other Vehicle Impact 2 +/- D	0998 cm	—	—

### Case Vehicle Tires & Rims

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Variable Number and Name	Code Value	Code Description	Other Options
V701 — Left Front Wheel Damaged	0	No	<a href="#">more</a>
V702 — Right Front Wheel	0		



Damaged		No	<a href="#">more</a>
V703 — Right Rear Wheel Damaged	0	No	<a href="#">more</a>
V704 — Left Rear Wheel Damaged	0	No	<a href="#">more</a>
V705 — Left Front Tire Tread Type	4	All Weather	<a href="#">more</a>
V706 — Right Front Tire Tread Type	4	All Weather	<a href="#">more</a>
V707 — Right Rear Tire Tread Type	4	All Weather	<a href="#">more</a>
V708 — Left Rear Tire Tread Type	4	All Weather	<a href="#">more</a>
V709 — Left Front Carcass Construction	3	Radial	<a href="#">more</a>
V710 — Right Front Carcass Construction	3	Radial	<a href="#">more</a>
V711 — Right Rear Carcass Construction	3	Radial	<a href="#">more</a>
V712 — Left Rear Carcass Construction	3	Radial	<a href="#">more</a>
V717 — Left Front Tire Size	P21570R15	—	—
V718 — Right Front Tire Size	P21570R15	—	—
V719 — Right Rear Tire Size	P21570R15	—	—
V720 — Left Rear Tire Size	P21570R15	—	—

### Case Vehicle Fuel, Tank, Fire

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Variable Number and Name	Code Value	Code Description	Other Options
V801 — Propulsive Fuel Type	1	Gasoline	<a href="#">more</a>
V802 — Main Tank Location	322	Within frame/centered laterally - within vertically	<a href="#">more</a>
V803 — Main Filler Cap Location	333	Right of frame laterally - above vertically	<a href="#">more</a>
V804 — Main Tank Material	1	Steel	<a href="#">more</a>
V805 — Aux Tank Type	8	Not applicable (not equipped)	<a href="#">more</a>
V806 — Aux Tank Location	888	Not applicable (not equipped)	<a href="#">more</a>
V807 — Aux Filler Cap Location	888	Not applicable (not equipped)	<a href="#">more</a>
V808 — Aux Tank Material	8	Not applicable	<a href="#">more</a>
V901 — Fuel Leakage From Crash	0	No	<a href="#">more</a>
V1001 — Fire In Or On Case Vehicle	0	No	<a href="#">more</a>

**Case Vehicle  
Exterior**

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<b>Variable Number and Name</b>	<b>Code Value</b>	<b>Code Description</b>	<b>Other Options</b>
V1101 — Hood Latch Released	0	No	<a href="#">more</a>
V1102 — Hood Latch Damaged	1	Yes	<a href="#">more</a>
V1103 — Hood Latch Jammed	1	Yes	<a href="#">more</a>
V1104 — Left Hood Hinge Damaged	1	Yes	<a href="#">more</a>
V1105 — Left Hood Hinge Separated	0	No	<a href="#">more</a>
V1106 — Right Hood Hinge Damaged	1	Yes	<a href="#">more</a>
V1107 — Right Hood Hinge Separated	0	No	<a href="#">more</a>
V1108 — Hood Remained On Vehicle	1	Yes	<a href="#">more</a>
V1109 — Rear Hood Edge Elevated	1	Yes	<a href="#">more</a>
V1110 — Edge Contacted Windshield	0	No	<a href="#">more</a>
V1111 — Edge Penetrated Windshield	8	Not applicable	<a href="#">more</a>
V1112 — Hood Latch Location	1	Front of Vehicle	<a href="#">more</a>
V1113 — Eng/Transmissn Mount Separation	0	No	<a href="#">more</a>
V1114 — Sterng Column Flex Coupling	9	Unknown if equipped	<a href="#">more</a>
V1115 — Sterng Column Coupling Damaged	9	Unknown	<a href="#">more</a>
V1116 — Sterng Column Coupling Separated	9	Unknown	<a href="#">more</a>
V1117 — Eng Comp Telescopng Unit	88	Not collected	<a href="#">more</a>
V1118 — Comp Orig/Telescopd Diff	888	Not collected	<a href="#">more</a>
V1119 — Left Side Body Mount Separation	8	Not applicable (unitized)	<a href="#">more</a>
V1120 — Upper Left A-pillar Separation	0	No	<a href="#">more</a>
V1121 — Lower Left A-pillar Separation	0	No	<a href="#">more</a>
V1122 — Upper Left B-pillar Separation	0	No	<a href="#">more</a>
V1123 — Lower Left B-pillar Separation	0	No	<a href="#">more</a>
V1124 — Upper Left C-pillar Separation	0	No	<a href="#">more</a>
V1125 — Lower Left C-pillar	0	No	<a href="#">more</a>

Separation			
V1126 — Upper Left D-pillar Separation	0	No	<a href="#">more</a>
V1127 — Lower Left D-pillar Separation	0	No	<a href="#">more</a>
V1128 — Left Front Door Opening Cause	0	Door did not open	<a href="#">more</a>
V1129 — Left Rear Door Opening Cause	0	Door did not open	<a href="#">more</a>
V1130 — Left Front Door Jammed Closed	0	No	<a href="#">more</a>
V1131 — Left Rear Door Jammed Closed	0	No	<a href="#">more</a>
V1132 — Rear Door Type	2	One-way tailgate	<a href="#">more</a>
V1133 — Rear Door Opening Cause	0	Door did not open	<a href="#">more</a>
V1134 — Rear Door Jammed Closed	0	No	<a href="#">more</a>
V1135 — Luggage Partition Damagd	8	Not applicable	<a href="#">more</a>
V1136 — Spare Tire Status	8	Not collected	<a href="#">more</a>
V1137 — Trailer Hitch Type	0	No hitch	<a href="#">more</a>
V1138 — Trailer Type	0	No trailer	<a href="#">more</a>
V1139 — Right Side Body Mount Separation	8	Not applicable (unitized)	<a href="#">more</a>
V1140 — Upper Right A-pillar Separation	0	No	<a href="#">more</a>
V1141 — Lower Right A-pillar Separation	0	No	<a href="#">more</a>
V1142 — Upper Right B-pillar Separation	0	No	<a href="#">more</a>
V1143 — Lower Right B-pillar Separation	0	No	<a href="#">more</a>
V1144 — Upper Right C-pillar Separation	0	No	<a href="#">more</a>
V1145 — Lower Right C-pillar Separation	0	No	<a href="#">more</a>
V1146 — Upper Right D-pillar Separation	0	No	<a href="#">more</a>
V1147 — Lower Right D-pillar Separation	0	No	<a href="#">more</a>
V1148 — Right Front Door Opening Cause	00	Door did not open	<a href="#">more</a>
V1149 — Right Rear Door Opening Cause	00	Door did not open	<a href="#">more</a>

V1150 — Right Front Door Jammed Closed	0	No	<a href="#">more</a>
V1151 — Right Rear Door Jammed Closed	0	No	<a href="#">more</a>
V1152 — Van Rear Door Type	4	Track (sliding)-right & left side	<a href="#">more</a>
V1153 — Windshield Cracked		Yes	<a href="#">more</a>
V1154 — Windshield Broken	0	No	<a href="#">more</a>
V1155 — Windshield Cracked or Broken by Occupant	0	No	<a href="#">more</a>
V1156 — Bond Separation Extent	0	None	<a href="#">more</a>
V1157 — Windshield Code		—	—
V1158 — Did Sun/T Roof Open	8	Not Applicable	<a href="#">more</a>

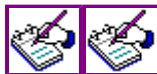
**Case Vehicle  
Steering  
Column/Rim**

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<b>Variable Number and Name</b>	<b>Code Value</b>	<b>Code Description</b>	<b>Other Options</b>
V1201 — Steering Wheel Rim Damage	0	None	<a href="#">more</a>
V1202 — Number of Steering Wheel Spokes	4	4 spokes	<a href="#">more</a>
V1203 — Steering Wheel Spoke Damage	0	None	<a href="#">more</a>
V1204 — Column Tilt Feature	2	Up	<a href="#">more</a>
V1205 — Column Swing-away Feature	0	Not equipped	<a href="#">more</a>
V1206 — Column Telescoping Feature	0	Not equipped	<a href="#">more</a>
V1207 — Wheel Energy Absorb Device	8	Not collected	<a href="#">more</a>
V1208 — Wheel Ea Orig/Damaged Diff	888	Not collected	<a href="#">more</a>

V1209 — Column Energy Absorb Device	88	Not collected	<a href="#">more</a>
V1210 — Column Ea Orig/Comprss Diff	888	Not collected	<a href="#">more</a>
V1211 — Shear Capsule Separation	888	Not collected	<a href="#">more</a>
V1212 — Column Vertical Rotation	1	Upward apparent rotation	<a href="#">more</a>
V1213 — Column Lateral Rotation	2	Right apparent rotation	<a href="#">more</a>
V1214 — Steering Wheel Hub Damage	0	None	<a href="#">more</a>

## Case Vehicle Intrusion



Click for intrusion figures

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Variable Number and Name	Code Value	Code Description	Other Options
V1301 — Occupant Compartment Intrusion	1	Yes	<a href="#">more</a>
V1302 — Was Intrusion Catastrophic	0	No	<a href="#">more</a>
V1303 — Intrusion Number 01	01	Intrusion #1	<a href="#">more</a>
V1304 — Intrusion 01 Occupant Space Number	11	First row, Left seat	<a href="#">more</a>
V1305 — Intrusion 01 Intruding Object	15	Roof or convertible top	<a href="#">more</a>
V1306 — Intrusion 01 Assoc Event Number	2	Event #2	<a href="#">more</a>
V1307 — Intrusion 01 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1308 — Intrusion 01 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1309 — Intrusion 01 Max Intrusion Z-axis	03 cm	—	—
V1310 — Intrusion 01 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1311 — Intrusion 01 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1312 — Intrusion 01 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1313 — Intrusion 01 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1314 — Intrusion Number 02	02	Intrusion #2	<a href="#">more</a>
V1315 — Intrusion 02 Occupant Space Number	12	First row, Center seat	<a href="#">more</a>
V1316 — Intrusion 02 Intruding Object	15	Roof or convertible top	<a href="#">more</a>

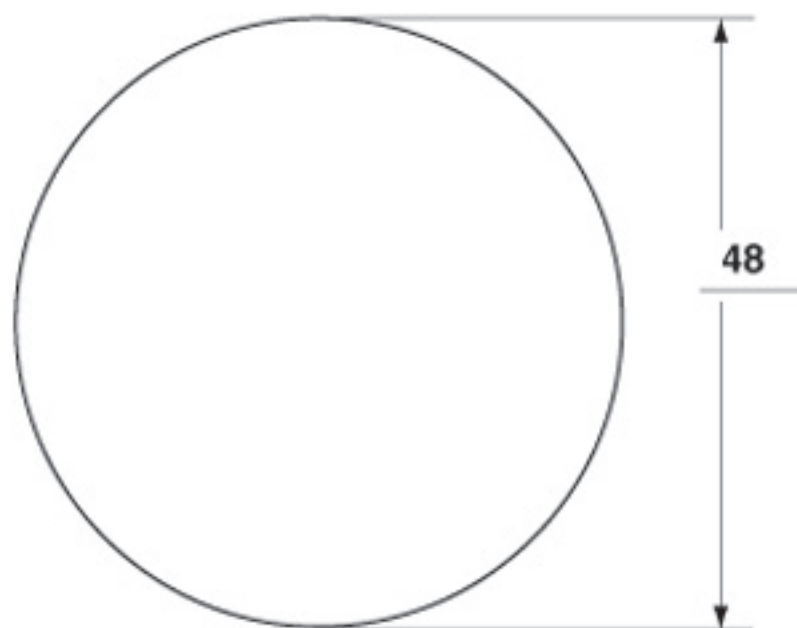
V1317 — Intrusion 02 Assoc Event Number	2	Event #2	<a href="#">more</a>
V1318 — Intrusion 02 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1319 — Intrusion 02 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1320 — Intrusion 02 Max Intrusion Z-axis	05 cm	—	—
V1321 — Intrusion 02 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1322 — Intrusion 02 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1323 — Intrusion 02 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1324 — Intrusion 02 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1325 — Intrusion Number 03	03	Intrusion #3	<a href="#">more</a>
V1326 — Intrusion 03 Occupant Space Number	13	First row, Right seat	<a href="#">more</a>
V1327 — Intrusion 03 Intruding Object	15	Roof or convertible top	<a href="#">more</a>
V1328 — Intrusion 03 Assoc Event Number	2	Event #2	<a href="#">more</a>
V1329 — Intrusion 03 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1330 — Intrusion 03 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1331 — Intrusion 03 Max Intrusion Z-axis	03 cm	—	—
V1332 — Intrusion 03 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1333 — Intrusion 03 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1334 — Intrusion 03 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1335 — Intrusion 03 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1336 — Intrusion Number 04	00	No Intrusion, None	<a href="#">more</a>
V1337 — Intrusion 04 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1338 — Intrusion 04 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1339 — Intrusion 04 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1340 — Intrusion 04 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>

V1341 — Intrusion 04 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1342 — Intrusion 04 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1343 — Intrusion 04 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1344 — Intrusion 04 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1345 — Intrusion 04 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1346 — Intrusion 04 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1347 — Intrusion Number 05	00	No Intrusion, None	<a href="#">more</a>
V1348 — Intrusion 05 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1349 — Intrusion 05 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1350 — Intrusion 05 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1351 — Intrusion 05 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1352 — Intrusion 05 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1353 — Intrusion 05 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1354 — Intrusion 05 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1355 — Intrusion 05 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1356 — Intrusion 05 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1357 — Intrusion 05 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1358 — Intrusion Number 06	00	No Intrusion, None	<a href="#">more</a>
V1359 — Intrusion 06 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1360 — Intrusion 06 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1361 — Intrusion 06 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1362 — Intrusion 06 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1363 — Intrusion 06 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1364 — Intrusion 06 Max Intrusion	00 cm		

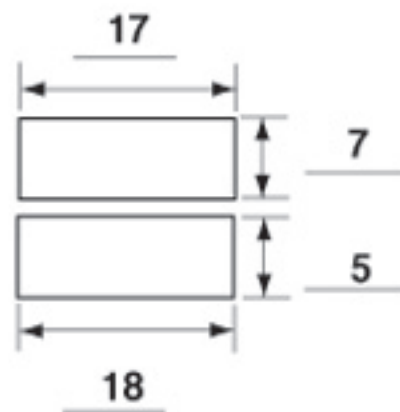
Z-axis		0 cm or No Intrusion	<a href="#">more</a>
V1365 — Intrusion 06 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1366 — Intrusion 06 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1367 — Intrusion 06 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1368 — Intrusion 06 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1369 — Intrusion Number 07	00	No Intrusion, None	<a href="#">more</a>
V1370 — Intrusion 07 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1371 — Intrusion 07 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1372 — Intrusion 07 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1373 — Intrusion 07 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1374 — Intrusion 07 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1375 — Intrusion 07 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1376 — Intrusion 07 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1377 — Intrusion 07 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1378 — Intrusion 07 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1379 — Intrusion 07 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>



Driver Airbag



Driver Airbag Doors

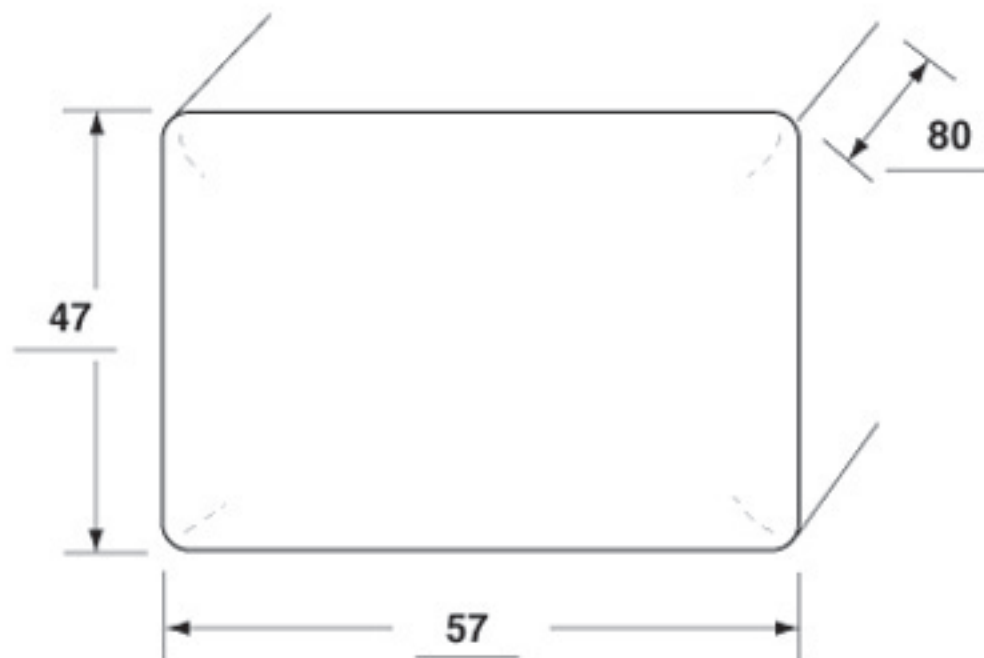


Vents:  Y  N  
if yes, how many: 2

Tethers:  Y  N  
if yes, how many: 2

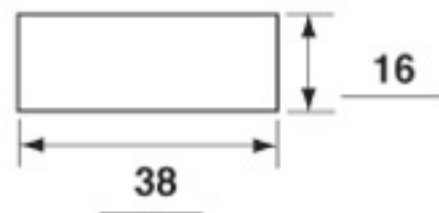
@ 11 and 1 o'clock

Passenger Airbag



Passenger Airbag Doors

Single Door



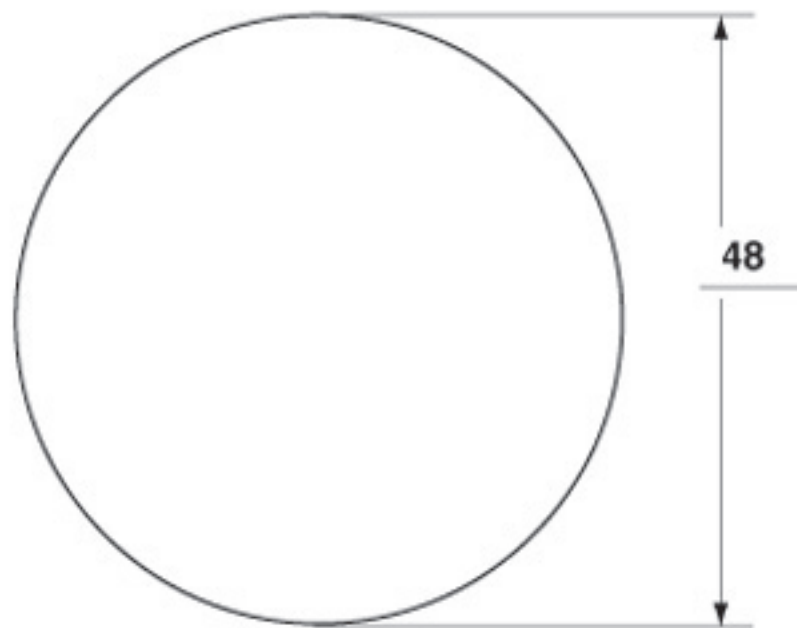
Vents:  Y  N

if yes, how many: 1

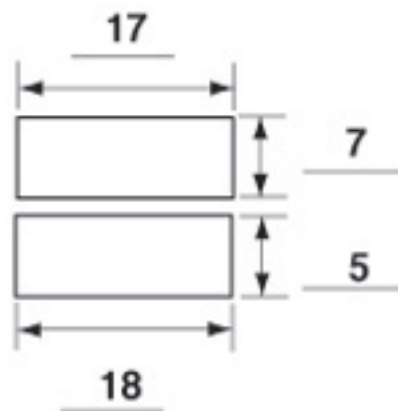
Tethers: Y  N

if yes, how many: \_\_\_\_\_

Driver Airbag



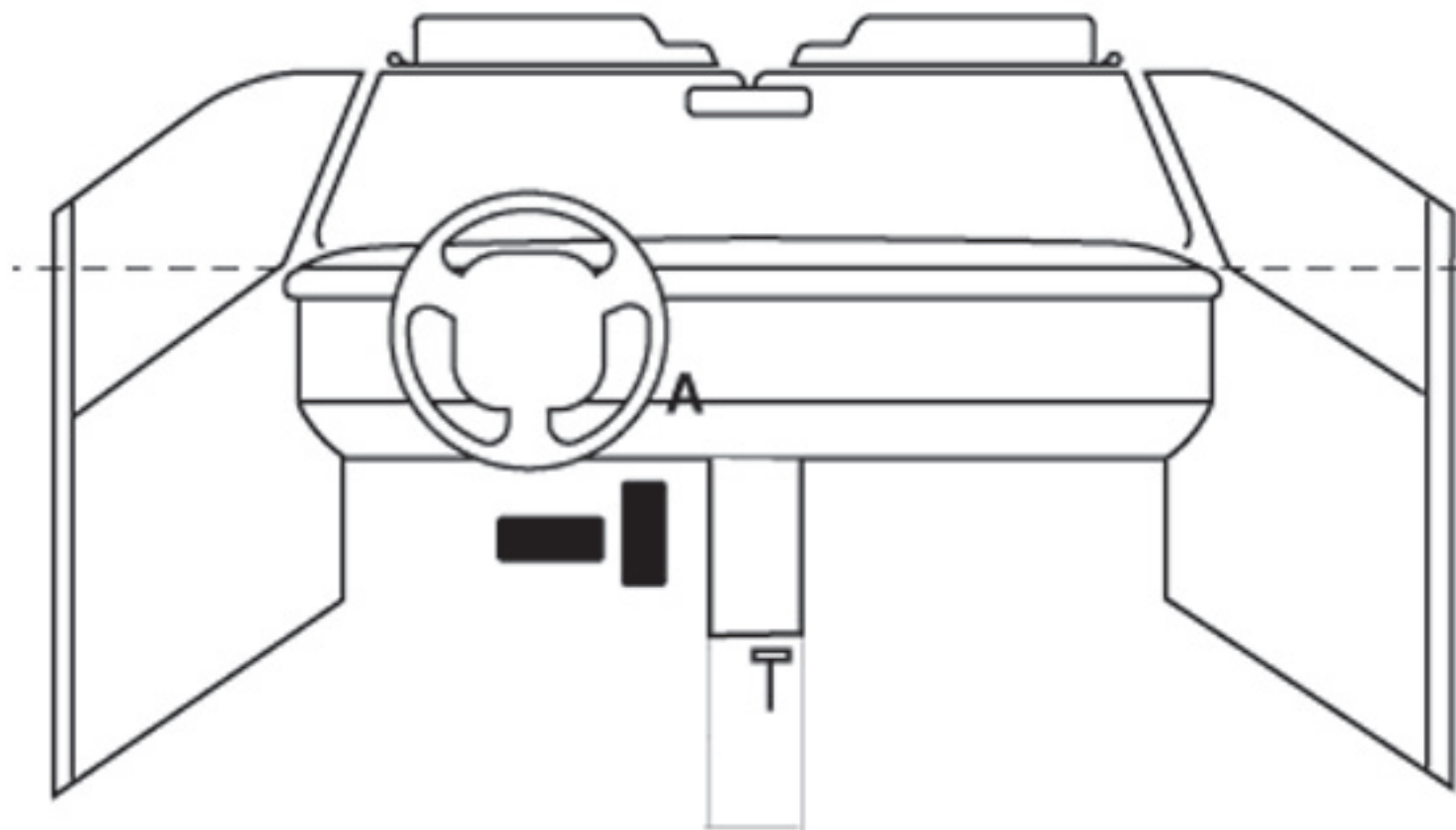
Driver Airbag Doors



Vents:  Y  N  
if yes, how many: 2

Tethers:  Y  N  
if yes, how many: 2

@ 11 and 1 o'clock



**A = junction of knee bolster, mid instrument panel,  
and vertical console, scuffmark and indentation**

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	
11	Roof	-	=	3	down
12	Roof	-	=	5	down
13	Roof	-	=	3	down
		-	=		
		-	=		
		-	=		
		-	=		
		-	=		
		-	=		
		-	=		
		-	=		
		-	=		
		-	=		

OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	junction of knee bolster, mid instrument panel and vertical console	DR	Rt. LX	scuffmark and indentation	1
B					
C					
D					
E					
F					
G					



**Windshield cracked due to a combination of impact forces  
and rollover damage**

WINDSHIELD MARK ON CASE VEHICLE:

**Ford**

® **Carlite** ®

SOLAR TINT

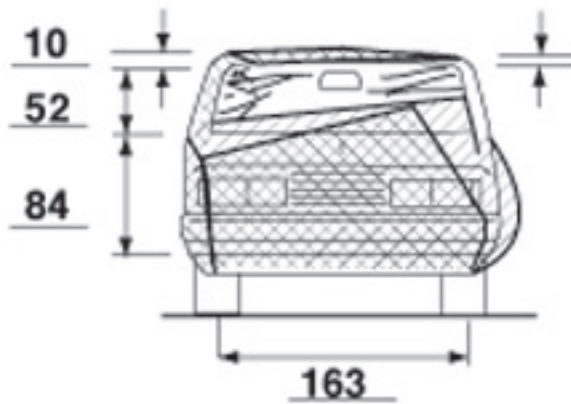
LAMINATED AS-1

DOT-75 FM-M180

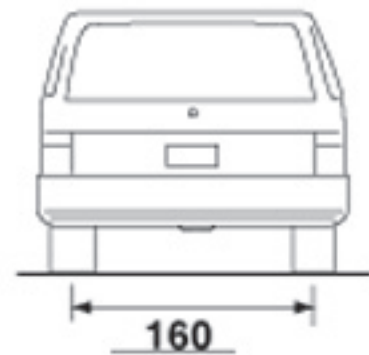
1 E

DW01257GBY

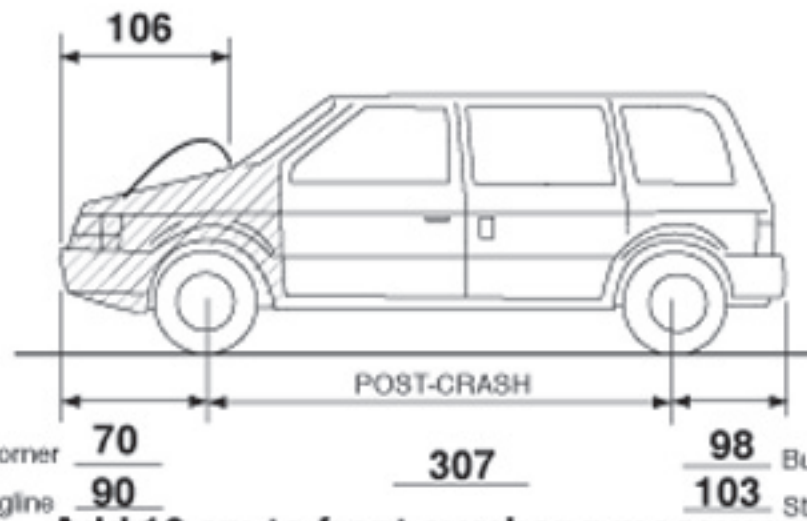
MEASUREMENTS IN CENTIMETERS



**5** Max. crush to roof from rollover

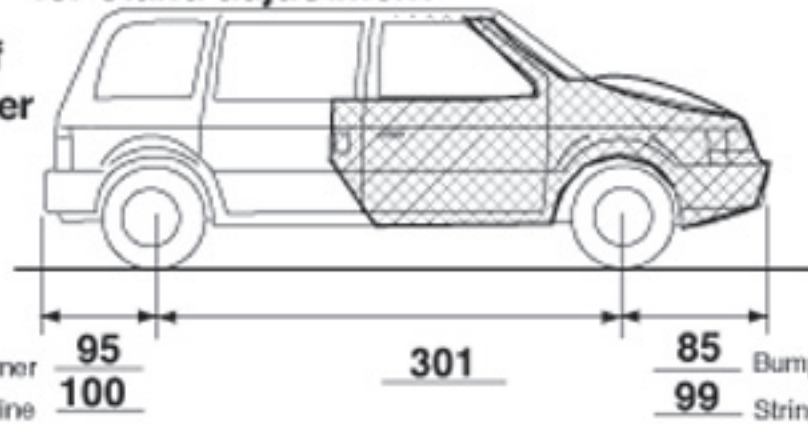


**Width of direct damage to front**



Bumper corner 70 POST-CRASH 98 Bumper corner  
Stringline 90 307 103 Stringline

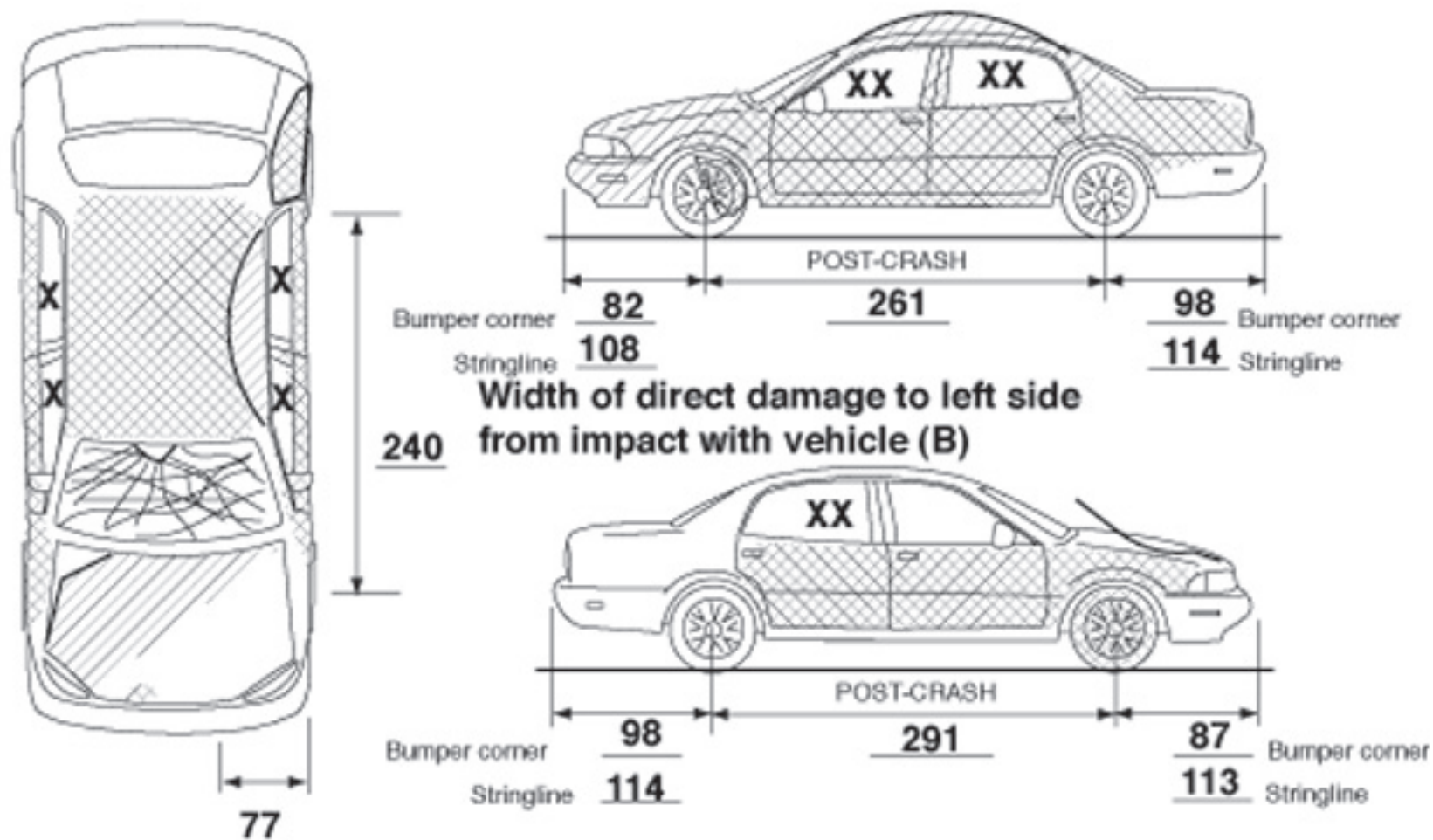
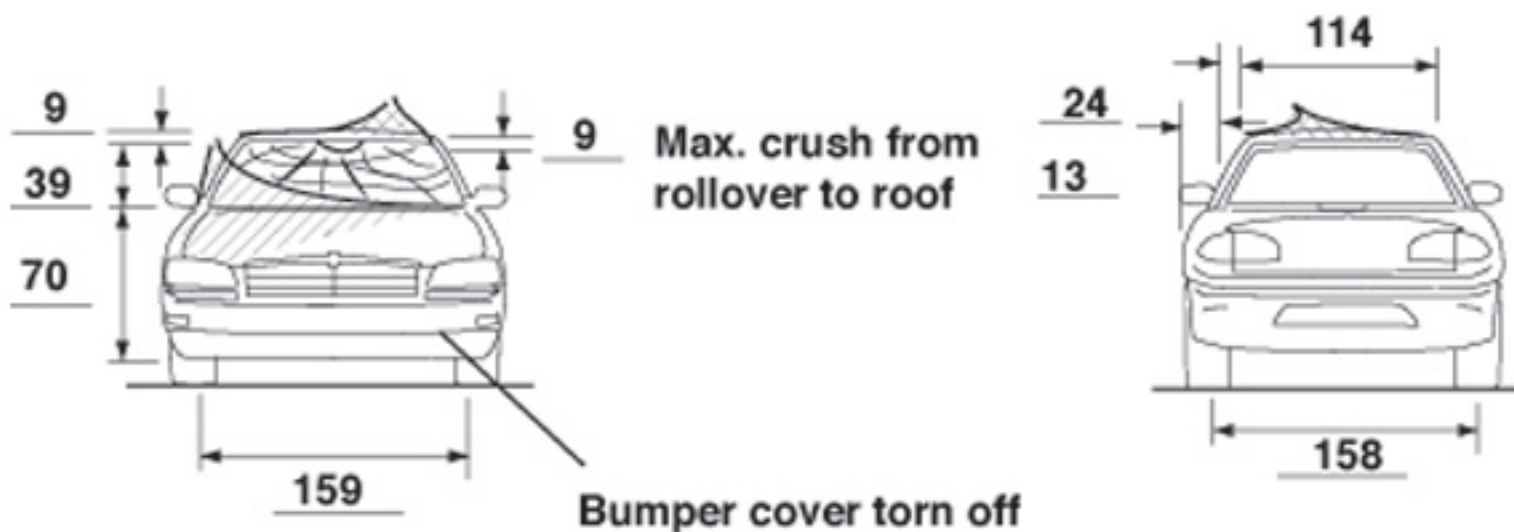
**Add 12 cm to front overhang measurements for stand adjustment**



Bumper corner 95 301 85 Bumper corner  
Stringline 100 99 Stringline

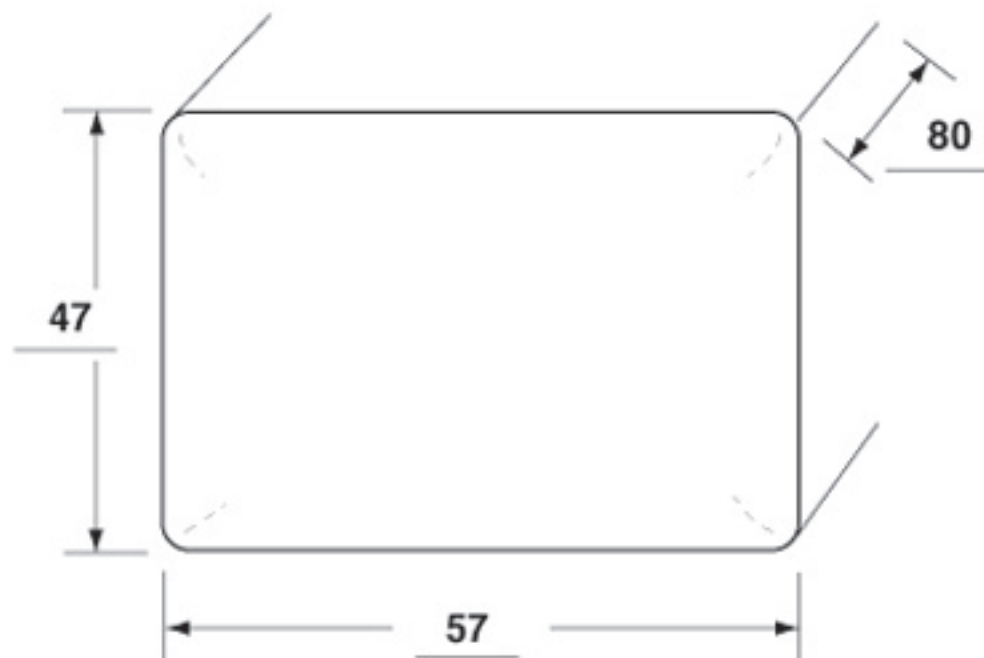


MEASUREMENTS IN CENTIMETERS



Max. crush to driver door from impact with vehicle (B)

Passenger Airbag

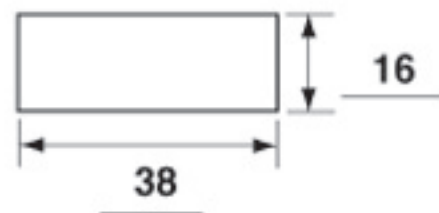


Vents:  Y  N  
if yes, how many: 1

Tethers: Y  N  
if yes, how many: \_\_\_\_\_

Passenger Airbag Doors

Single Door



























**A WARNING**  
DO NOT REMOVE THIS LABEL FROM THE  
FRONT OF THE VEHICLE UNTIL YOU HAVE BEEN  
INSTRUCTED TO DO SO BY A QUALIFIED  
TECHNICIAN. FAILURE TO DO SO MAY  
AFFECT THE SAFETY OF THE VEHICLE.  
PLEASE DO NOT REMOVE THIS LABEL FROM THE  
FRONT OF THE VEHICLE UNTIL YOU ARE  
INSTRUCTED TO DO SO BY A QUALIFIED  
TECHNICIAN.



















Armed  
AND  
Danger



Armed  
and  
Dangerous

Decker  
Miracle  
The Power of  
Decker



**A WARNING**



READ INSTRUCTIONS CAREFULLY  
BEFORE USING THIS TOOL. USE ONLY  
THE CORRECT ACCESSORIES AND  
OPERATE ONLY IN THE MANNER  
AND UNDER THE CONDITIONS  
SPECIFIED IN THE INSTRUCTIONS.  
Failure to follow these instructions  
may result in personal injury or  
property damage.



























































































STOP

STOP





