

Case 430 : Narrative

Case Vehicle (A): 1999 Pontiac	Vehicle (B): 1999 Dodge
Type: Grand Am SE, 4-door sedan	Type: Ram 1500, 4x4, 2-door pickup
Driver: 20-year-old female	Driver: 38-year-old female
CDC: 12-FRAW-6	CDC: 06-BDEW-1

SITUATION

[1](#) It was daylight, the sky was cloudy, and the asphalt road surface of the divided, limited-access, seven-lane, east-west freeway with a posted speed limit of 70 mph (113 kph) was wet [2](#) [3](#) as case vehicle (A) was traveling east at an unknown speed in the second lane from the median. [4](#) Vehicle (B) was traveling east at an unknown speed in the outside eastbound lane and was to the right and in front of case vehicle (A). The driver lost control of vehicle (B) for an unknown reason and vehicle (B) began to fishtail, causing [5](#) vehicle (B) to move to the left in front of case vehicle (A). [6](#) The driver of case vehicle (A) attempted to change lanes to avoid a collision with vehicle (B), but vehicle (B) slowed down quickly and the front of case vehicle (A) struck and under rode the rear 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) and for the driver and right-rear passenger of vehicle (B). All occupants were transported by ambulance to a local hospital where they were treated and released.

GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

[7](#) [8](#) Direct damage to the front, hood, and windshield of case vehicle (A) was extensive and included the upper section of the right A-pillar. It began at the right-front bumper corner and extended 50-cm to the left, resulting in 39-percent vehicle overlap (%VOL). [9](#) The maximum frontal crush was 39 cm and it occurred at the right-front bumper corner.

[10](#) [11](#) Damage to the rear of vehicle (B) was moderate. It began at the right-rear corner and extended 125-cm to the left, past the rear license plate. [12](#) The maximum forward crush was 26 cm and it occurred at the center of the cargo bed. There was no change in the either the left or right wheelbase.

Using the WinSMASH crash-reconstruction program and [13](#) [14](#) [15](#) [16](#) [17](#) crush profiles measured for the front of case vehicle (A) and [18](#) [19](#) [20](#) [21](#) [22](#) the rear of vehicle (B), the following impact severities were estimated for the front-to-rear impact:

		Estimated Velocity Change - kph (mph)		
Vehicle	Variable	Total	Longitudinal	Latitudinal
Case Vehicle (A)	delta V	31 (20)	-31 (-19)	-5 (-3)
Case Vehicle (B)	delta V	21 (13)	21 (13)	-4 (-2)

Case vehicle (A) was equipped with an Event Data Recorder (EDR) that recorded a deployment event. The data indicate a maximum longitudinal velocity change of -23.48 mph (37 kph) at 230 to 270 milliseconds. The EDR data also indicate that the supplemental inflatable restraint (SIR) warning lamp was off, that the driver seatbelt was unbuckled, that the dash-mounted airbag was not suppressed, and that the time from algorithm enable to deployment command was 10 milliseconds.

DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

Exterior

[23](#) [24](#) [25](#) [26](#) In the front, the right half of the bumper, the hood, and the upper radiator support were crushed rearward and to the left, and the right-rear section of the hood was buckled. The hood latch was damaged but functional, [27](#) the left-hood hinge was twisted, [28](#) the right-hood hinge was deflected to the left, and the rear edge of the hood was elevated but it did not contact the windshield. [29](#) [30](#) The windshield was extensively cracked throughout and there was a hole in the upper-right center region, probably due to direct contact with vehicle (B).

[31](#) [32](#) On the right side, the fender was crushed rearward, to the left, and down, [33](#) [34](#) the upper and lower sections of the right A-pillar were crushed rearward, [35](#) the exterior panel of the right-front door was torn off and the door window was shattered, both right-side doors were jammed closed, [36](#) and the right side of the roof and the roof siderail were buckled. [37](#) There were scrape marks on the rim of the right-front wheel, the right-front tire was gouged and flat, and [38](#) the right wheelbase was decreased by 4 cm.

[39](#) [40](#) In the rear of the vehicle, there was damage to right-rear corner and the right taillight cover was broken but this damage was not caused by the frontal collision. [41](#) [42](#) There was no damage to the left side of the vehicle, both left-side doors were closed and operational, and all left-side glazing was intact, but the left wheelbase was increased by 3 cm.

Interior

[43](#) This vehicle was equipped with steering-wheel and dash-mounted frontal-impact airbags and both deployed during the frontal collision with the rear end of vehicle (B). In the driver area, [44](#) [45](#) there was no damage to the steering-wheel airbag or module cover [46](#) but the upper portion of the airbag fabric was stained with makeup or dirt and there was a bloodstain to the right of the airbag center. [47](#) [48](#) There was no damage to the steering-wheel rim or spokes and there was no rotation of the steering column. [49](#) There were scuffmarks on the knee bolster cover and [50](#) on the underside of the plastic steering-column cover. [51](#) [52](#) [53](#) There was no other damage in the driver seating area.

In the center-front area, [54](#) [55](#) the vertical console and center instrument panel were displaced rearward. [56](#) There was no other damage in the center-front area.

In the right-front seating area, [57](#) there was no damage to the dash-mounted airbag or [58](#) to the module cover. [59](#) The windshield header, the roof, and the roof headliner were buckled. The plastic trim on the upper section of the right A-pillar was loose and the right A-pillar was displaced rearward. The instrument panel and the toepan were also displaced rearward, and the right-front seat adjuster was jammed in a mid-track position. There was no other damage in the right-front seating area.

The following intrusions were noted and measured:

Location	Component	Distance (cm)	Direction
center front	instrument panel	3	to rear
right front	instrument panel	12	to rear
	toepan	4	to rear
	A-pillar	3	to rear

OCCUPANT KINEMATICS AND INJURIES

The 157-cm, 121-kg (5-ft 2-in, 267-lb) 20-year-old female driver was using the three-point belt and [60](#) the steering-wheel airbag deployed. [61](#) Webbing loading marks on the D-ring and [62](#) on the continuous loop confirm belt use by the driver. During the frontal impact, the driver moved forward relative to the vehicle interior, into the three-point belt, the airbag, and the knee bolster. She sustained contusions to the left shoulder and across the abdomen due to loading by the shoulder and lap portions of the three-point belt, respectively. She sustained lacerations to the right hand and wrist, possibly from broken glass from the right-front door window. She sustained contusions to the 5th digit and thumb of the left hand, probably due to contact by the deploying airbag, and she sustained a contusion to the lateral aspect of the left knee, possibly due to contact with the knee bolster.

The following table and [63](#) attached drawing summarize the injuries sustained by the restrained driver of case vehicle (A).

Occupant: Driver	Age: 20 years	Gender: Female		
Restraints: 3-point belt; steering-wheel airbag	Stature: 157 cm (5 ft, 2 in)	Mass: 121 kg (267 lb)		
Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
—	—	—	—	—
Contusion, left shoulder	1	Shoulder belt	—	—
Contusions, across abdomen	1	Lap belt	—	—
Lacerations, right wrist and right hand	1	—	—	Broken glass (right-front door window)
Contusions, thumb and 5th digit of left hand	1	—	Airbag	—
Contusion, lateral aspect of the left knee	1	—	—	Knee bolster
Maximum A.I.S. Level	1	—	—	—
Injury Severity Score	1	—	—	—

CASE NO: 430

CASE VEHICLE: 1999 Pontiac

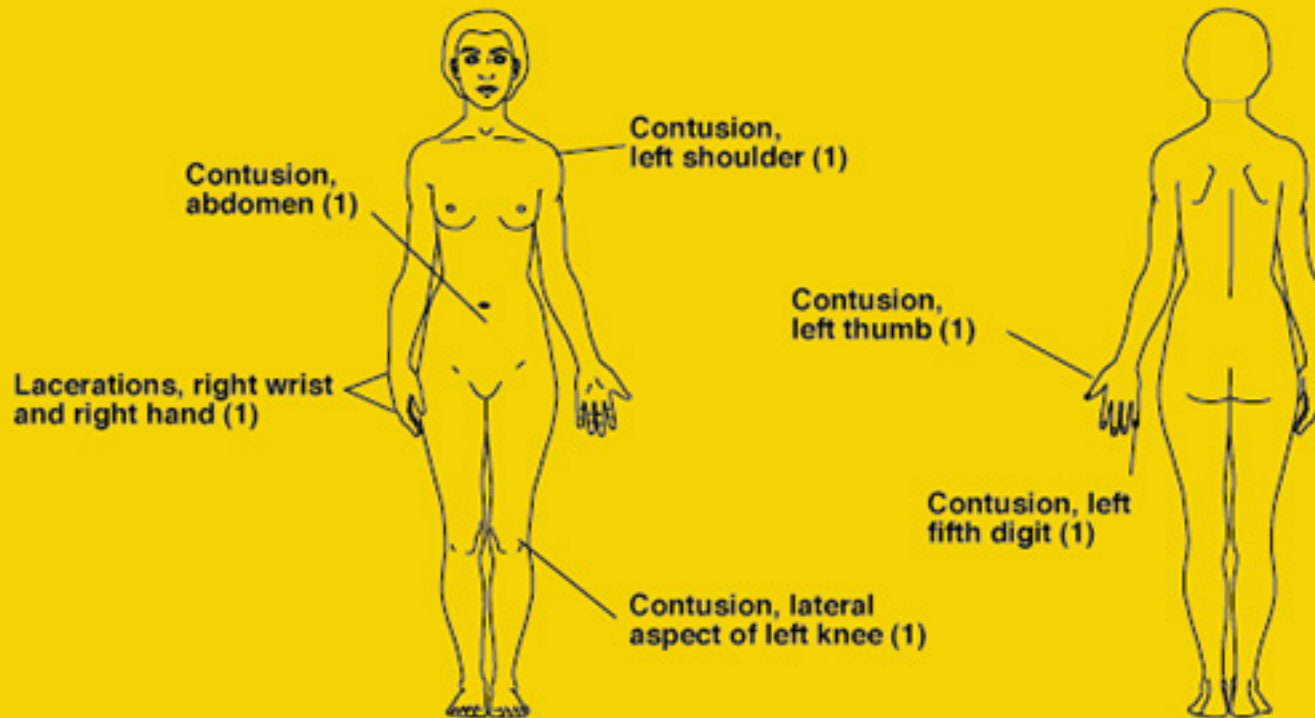
TYPE: Grand Am SE, 4-door sedan

OCCUPANT: (Driver) 20-year-old female

STATURE: 157 cm (5 ft, 2 in) MASS: 121 kg (267 lb)

RESTRAINTS: 3-point belt; steering-wheel airbag

SEVERITY: MAIS - 1 ISS - 1



Case No.: 430

Case Vehicle (A): 1999 Pontiac

Type: Grand Am SE, 4-door sedan

Driver: 20-year-old female

Vehicle (B): 1999 Dodge Ram, Club Cab, 4x4, 2-door pickup

Light Conditions: Daylight

Weather: Cloudy

Road Surface: Wet

Road Construction: Asphalt

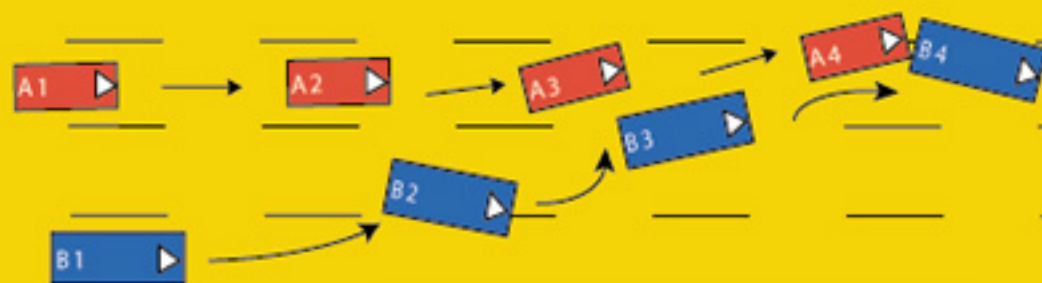


Paved shoulder

Paved shoulder

Concrete median barrier

Paved shoulder



Posted speed limit 70 mph (113 kph)

Paved shoulder

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	1	Urban	more
V207 — Limited Access Highway	1	Yes	more
V208 — Road Total Lanes	5	Divided, 4 lanes or more	more
V209 — Intersecting Road Total Lanes	8	Not applicable	more
V210 — Road Surface Type	1	Asphalt	more
V211 — Road Defects	0	No	more
V212 — Construction Zone	0	No	more
V213 — Road Alignment Vertical Plane	1	Level	more
V214 — Road Alignment Horizontal Plane	1	Straight	more
V215 — Surface Covering	22	Water - wet	more
V216 — Visibility Limitation	0	None	more
V217 — Visibility Obstruction	0	None	more
V218 — Speed Limit	8	106+ km/h .. 65+ mph	more
V219 — Precipitation Type	0	None	more
V220 — Precipitation Rate	8	Not applicable	more
V221 — Temperature	5	6 to 15 C .. 42 to 59 F	more

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

Other Vehicle

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Variable Number and Name	Code Value	Code Description	Other Options
V301 — Other Vehicle VIN	3B7HF12Z7XG1	—	—
V302 — Other Vehicle Manufacturer/Body Code	94612	—	—
V303 — Other Vehicle Manufacturer	946	Dodge (Mexico)	more
V304 — Other Vehicle Body Code	12	Pickup truck (no canopy or shell)	more
V305 — Other Vehicle Make/Model	3235	Ram Truck 1500/2500	more
V306 — Other Vehicle Model Year	1999	—	—
V307 — Other Vehicle Mass	002141 kg	—	—
V308 — Other Vehicle Number	0	No separate report	more
V309 — Other Vehicle Number of Occupants	02	—	—
V310 — Other Vehicle Traveling Speed	999	Unknown	more

V311 — Highest Police Injury Severity	1	C - Possible Injury	more
V312 — Other Vehicle Type	12	Pickup truck	more
V313 — Other Vehicle Wheelbase (cm)	352 cm	—	—
V314 — Average Track Width	173 cm	—	—
V315 — Overall Length	569 cm	—	—
V316 — Overall Width (OAW)	201 cm	—	—
V317 — Front Overhang (FOH)	096 cm	—	—
V318 — Rear Overhang (ROH)	121 cm	—	—
V319 — Undeformed End Width (UEW)	188 cm	—	—
V320 — Engine Displacement	5.9 l	—	—
V321 — Engine: Number of Cylinders	08	—	—
V322 — Direct Damage Length (DDL)	999	Unknown	more
V323 — Front-End Overlap % (FEO)	99	Missing or Not applicable	more
V324 — Vehicle Overlap % (VOL)	99	Missing or Not applicable	more

Case Vehicle General



[Click for case vehicle figure](#)

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Variable Number and Name	Code Value	Code Description	Other Options
V401 — VIN	1G2NE52T2XM8	—	—
V402 — Manufacturer/Body Code	11528	—	—
V403 — Vehicle Manufacturer	115	Pontiac	more
V404 — Vehicle Body Code	28	—	—
V405 — Make/Model Code	0331	Grand Am	more
V406 — Model Year	1999	—	—
V407 — Vehicle Mass	001413 kg	—	—
V408 — Odometer Reading	888888	—	—
V409 — Number of Occupants	01	—	—
V410 — Traveling Speed	999	Unknown	more
V411 — Body Type	14	4-door sedan	more
V412 — Stolen Vehicle	8	Not currently collected	more
V413 — Body Structure	2	Unitized	more
V414 — Transmission Type	1	Automatic	more
	2		

V415 — Transmission Lever Location		Console	more
V416 — Steering	1	Power	more
V417 — Brakes	1	Power	more
V418 — Brake Type	2	Disc - front wheels	more
V419 — Brake Anti-lock Device	2	Four-wheel	more
V420 — Air Conditioning in Vehicle	8	Not currently collected	more
V421 — Drive Type	2	Front wheel	more
V422 — Dual Rear Wheels	0	No	more
V423 — Original Restraint System Type	3	Airbag	more
V424 — Equipped With Roll Bar	0	No	more
V425 — Roof Type	1	Solid	more
V426 — Wheelbase	271 cm	—	—
V427 — Anti-lacerative Glass	0	None	more
V428 — Average Track Width	150 cm	—	—
V429 — Overall Length	473 cm	—	—
V430 — Overall Width (OAW)	179 cm	—	—
V431 — Front Overhang	102 cm	—	—
V432 — Rear Overhang	102 cm	—	—
V433 — Undeformed End Width (UEW)	140 cm	—	—
V434 — Engine Displacement	2.4 l	—	—
V435 — Engine: Number of Cylinders	04	—	—
V436 — Direct Damage Length (DDL)	050 cm	—	—
V437 — Front End Overlap % (FEO)	36	—	—
V438 — Vehicle Overlap % (VOL)	39	—	—

Case Vehicle Damage Description

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Variable Number and Name	Code Value	Code Description	Other Options
V501 — Maximum Crush - Front	039 cm	—	—
V502 — Maximum Crush - Right Side	000 cm	No crush (or less than 1 cm.)	more
	000 cm	No crush (or	

V503 — Maximum Crush - Rear		less than 1 cm.)	more
V504 — Maximum Crush - Left Side	000 cm	No crush (or less than 1 cm.)	more
V505 — Maximum Crush - Roof	000 cm	No crush (or less than 1 cm.)	more
V506 — Maximum Crush - Other	000 cm	No crush (or less than 1 cm.)	more
V507 — Are Events In Chronological Order	1	Yes	more
V508 — Event 1 Impact Location	1	On Roadway	more
V509 — Event 1 Impact Configuration	14	FRONT of case veh - REAR of contacted Vehicle	more
V510 — Event 1 Object/Vehicle Contacted	12	Pickup truck	more
V511 — Event 2 Impact Location	8	No 2nd event	more
V512 — Event 2 Impact Configuration	88	No 2nd event	more
V513 — Event 2 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V514 — Event 3 Impact Location	8	No 3rd event	more
V515 — Event 3 Impact Configuration	88	No 3rd event	more
V516 — Event 3 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V517 — Event 4 Impact Location	8	No 4th event	more
V518 — Event 4 Impact Configuration	88	No 4th event	more
V519 — Event 4 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V520 — Event 5 Impact Location	8	No 5th event	more
V521 — Event 5 Impact Configuration	88	No 5th event	more
V522 — Event 5 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V523 — Event 6 Impact Location	8	No 6th event	more
V524 — Event 6 Impact Configuration	88	No 6th event	more
V525 — Event 6 Object/Vehicle Contacted	00	No object/vehicle	more

		contacted	
V526 — Event 7 Impact On Road	8	No 7th event	more
V527 — Event 7 Impact Configuration	88	No 7th event	more
V528 — Event 7 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V529 — Primary CDC Case Vehicle -event Number	1	Event 1	more
V530 — Primary CDC Case Vehicle - impact speed	999	Unknown	more
V531 — Primary CDC Case Vehicle - Estimated By	1	Investigator	more
V532 — Primary CDC Case Vehicle -crush	039	—	—
V533 — Primary CDC Case Vehicle -clock #1	12	12 o'clock	more
V534 — Primary CDC Case Vehicle letter 1 #1	06	F - Front	more
V535 — Primary CDC Case Vehicle letter 2 #1	18	R - Right (Front or Rear)	more
V536 — Primary CDC Case Vehicle letter 3 #1	01	A - All	more
V537 — Primary CDC Case Vehicle letter 4 #1	23	W - Wide impact area	more
V538 — Primary CDC Case Vehicle Extent #1	06	Extent 6	more
V539 — Primary CDC Case Vehicle -CDC #1	12FRAW6	—	—
V541 — Primary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V542 — Primary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V543 — Primary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V544 — Primary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V545 — Primary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	more
V546 — Primary CDC Case Vehicle -CDC #2	9800000	—	—
V547 — Primary CDC Contacted Vehicle - Impact Speed	999	Unknown	more
V548 — Primary CDC Contacted Vehicle - Estimated By	1	Investigator	more

V549 — Primary CDC Contacted Vehicle -crush	026	—	—
V550 — Primary CDC Contacted Vehicle -clock #1	06	6 o'clock	more
V551 — Primary CDC Contacted Vehicle letter 1 #1	02	B - Back (Rear) or Back of Unit with Cargo Area (rear or	more
V552 — Primary CDC Contacted Vehicle letter 2 #1	04	D - Distributed (Side or End) or (F + P + B)	more
V553 — Primary CDC Contacted Vehicle letter 3 #1	05	E - Everything below belt line	more
V554 — Primary CDC Contacted Vehicle letter 4 #1	23	W - Wide impact area	more
V555 — Primary CDC Contacted Vehicle Extent #1	01	Extent 1	more
V556 — Primary CDC Contacted Vehicle -CDC #1	06BDEW1	—	—
V558 — Primary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V559 — Primary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V560 — Primary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V561 — Primary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V562 — Primary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	more
V563 — Primary CDC Contacted Vehicle -CDC #2	9800000	—	—
V564 — Secondary CDC Case Vehicle - Event No	8	Not applicable	more
V565 — Secondary CDC Case Vehicle - Impact Speed	998	Not Applicable	more
V566 — Secondary CDC Case Vehicle - Estimated	8	Not applicable (no	more

By		vehicle/no impact)	
V567 — Secondary CDC Case Vehicle -crush	998	Not Applicable	more
V568 — Secondary CDC Case Vehicle -clock #1	98	Not Applicable	more
V569 — Secondary CDC Case Vehicle letter 1 #1	00	Missing Data/Not applicable	more
V570 — Secondary CDC Case Vehicle letter 2 #1	00	Missing Data/Not applicable	more
V571 — Secondary CDC Case Vehicle letter 3 #1	00	Missing Data/Not applicable	more
V572 — Secondary CDC Case Vehicle letter 4 #1	00	Missing Data/Not applicable	more
V573 — Secondary CDC Case Vehicle Extent #1	00	Missing Data/Not applicable	more
V574 — Secondary CDC Case Vehicle -CDC #1	9800000	—	—
V576 — Secondary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V577 — Secondary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V578 — Secondary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V579 — Secondary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V580 — Secondary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	more
V581 — Secondary CDC Case Vehicle -CDC #2	9800000	—	—
V582 — Secondary CDC Contacted Vehicle - Impact Speed	998	Not Applicable	more
V583 — Secondary CDC Contacted Vehicle - Estimated By	8	Not applicable (no vehicle/no impact)	more

V584 — Secondary CDC Contacted Vehicle -crush	998	Not Applicable	more
V585 — Secondary CDC Contacted Vehicle -clock #1	98	Not Applicable	more
V586 — Secondary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	more
V587 — Secondary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	more
V588 — Secondary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	more
V589 — Secondary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	more
V590 — Secondary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	more
V591 — Secondary CDC Contacted Vehicle -CDC #1	9800000	—	—
V593 — Secondary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V594 — Secondary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V595 — Secondary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V596 — Secondary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V597 — Secondary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	more
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 — Primary Impact Total Delta-V	031 kph	—	—
V603 — Primary Case Vehicle Reconstructed Longitudinal Delta-V	-031 kph	—	—
V604 — Primary Case Vehicle Reconstructed Lateral Delta-V	-005 kph	—	—
V605 — Primary Case Vehicle Reconstructed Crush Energy	0020 kJ	—	—
V606 — Primary Impact Case Vehicle - reconstruction	22	Reconstructed, moderate confidence level	more
V607 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	more
V608 — Primary Contacted Vehicle Reconstructed Total Delta-V	021 kph	—	—
V609 — Primary Contacted Vehicle Reconstructed Longitudinal	0021 kph	—	—

Delta-V			
V610 — Primary Contacted Vehicle Reconstructed Lateral Delta- V	-004 kph	—	—
V611 — Primary Contacted Vehicle Reconstructed Crush Energy	0079 kJ	—	—
V612 — Case Vehicle Secondary Impact Number	8	—	—
V613 — Secondary Case Vehicle Reconstructed Total Delta-V	888	N/A	more
V614 — Secondary Case Vehicle Reconstructed Longitudinal Delta-V	8888	—	—
V615 — Secondary Case Vehicle Reconstructed Lateral Delta- V	8888	—	—
V616 — Secondary Case Vehicle Reconstructed Crush Energy	8888	—	—
V617 — Secondary Case Vehicle Reconstruction Note	88	—	—
V618 —	8		

Secondary Case Vehicle Reconstruction Mode		Not applicable	more
V619 — Secondary Contacted Vehicle Reconstructed Total Delta-V	888	N/A	more
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	018 kph	—	—
V625 — Primary Case Vehicle Reconstructed Longitudinal EBS	-018 kph	—	—
V626 — Primary Case	-003 kph		

Vehicle Reconstructed Lateral EBS		—	—
V627 — Primary Case Vehicle Reconstructed Crush Energy	0020 kJ	—	—
V628 — Primary Case Vehicle Reconstruction Note	21	Reconstructed, low confidence level	more
V629 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	more
V630 — Primary Contacted Vehicle Reconstruction Total EBS	030 kph	—	—
V631 — Primary Contacted Vehicle Reconstruction Longitudinal EBS	0029 kph	—	—
V632 — Primary Contacted Vehicle Reconstruction Lateral EBS	-005 kph	—	—
V633 — Primary Contacted Vehicle Reconstruction Crush Energy	0079 kJ	—	—
V634 — Case Vehicle Secondary Impact Number	8	Not applicable	more

V635 — Secondary Case Vehicle Reconstruction Total EBS	888	N/A	more
V636 — Secondary Case Vehicle Reconstruction Longitudinal EBS	8888	—	—
V637 — Secondary Case Vehicle Reconstruction Lateral EBS	8888	—	—
V638 — Secondary Case Vehicle Reconstruction Crush Energy	8888	—	—
V639 — Secondary Case Vehicle Reconstruction Note	88	—	—
V640 — Secondary Case Vehicle Reconstruction Mode	8	Not applicable	more
V641 — Secondary Contacted Vehicle Reconstruction Total EBS	888	N/A	more
V642 — Secondary Contacted Vehicle Reconstruction Longitudinal EBS	8888	—	—
V643 — Secondary Contacted Vehicle	8888	—	—

Reconstruction Lateral EBS			
V644 — Secondary Contacted Vehicle Reconstruction Crush Energy	8888	—	—
V645 — Case Vehicle Reconstructed Impact Number	1	—	—
V646 — Case Vehicle Impact 1 Plane	1	Bumper	more
V647 — Case Vehicle Impact 1 Direct Damage Length [DDL]	050 cm	—	—
V648 — Case Vehicle Impact 1 Max Crush	039 cm	—	—
V649 — Case Vehicle Impact 1 Field-L	120 cm	—	—
V650 — Case Vehicle Impact 1 C1	007 cm	—	—
V651 — Case Vehicle Impact 1 C2	001 cm	—	—
V652 — Case Vehicle Impact 1 C3	000 cm	No Crush	more
V653 — Case Vehicle Impact 1 C4	007 cm	—	—
V654 — Case Vehicle Impact 1 C5	013 cm	—	—
V655 — Case	039 cm		

Vehicle Impact 1 C6		—	—
V656 — Case Vehicle Impact 1 +/- D	0045 cm	—	—
V657 — Case Vehicle Reconstructed Impact Number	2	—	—
V658 — Case Vehicle Impact 2 Plane	8	Not applicable	more
V659 — Case Vehicle Impact 2 Direct Damage Length [DDL]	998	Not applicable	more
V660 — Case Vehicle Impact 2 Max Crush	998	Not applicable	more
V661 — Case Vehicle Impact 2 Field-L	998	Not applicable	more
V662 — Case Vehicle Impact 2 C1	998	Not applicable	more
V663 — Case Vehicle Impact 2 C2	998	Not applicable	more
V664 — Case Vehicle Impact 2 C3	998	Not applicable	more
V665 — Case Vehicle Impact 2 C4	998	Not applicable	more
V666 — Case Vehicle Impact 2 C5	998	Not applicable	more
V667 — Case Vehicle Impact 2 C6	998	Not applicable	more
V668 — Case	9998		

Vehicle Impact 2 +/- D		—	—
V669 — Other Vehicle Reconstructed Impact Number	1	—	—
V670 — Other Vehicle Impact 1 Plane	5	Other	more
V671 — Other Vehicle Impact 1 Direct Damage Length [DDL]	125 cm	—	—
V672 — Other Vehicle Impact 1 Max Crush	026 cm	—	—
V673 — Other Vehicle Impact 1 Field-L	184 cm	—	—
V674 — Other Vehicle Impact 1 C1	025 cm	—	—
V675 — Other Vehicle Impact 1 C2	025 cm	—	—
V676 — Other Vehicle Impact 1 C3	026 cm	—	—
V677 — Other Vehicle Impact 1 C4	025 cm	—	—
V678 — Other Vehicle Impact 1 C5	023 cm	—	—
V679 — Other Vehicle Impact 1 C6	018 cm	—	—
V680 — Other Vehicle Impact 1 +/- D	0032 cm	—	—
V681 — Other	2		

Vehicle Reconstructed Impact Number		—	—
V682 — Other Vehicle Impact 2 Plane	8	Not applicable	more
V683 — Other Vehicle Impact 2 Direct Damage Length [DDL]	998	Not applicable	more
V684 — Other Vehicle Impact 2 Max Crush	998	Not applicable	more
V685 — Other Vehicle Impact 2 Field-L	998	Not applicable	more
V686 — Other Vehicle Impact 2 C1	998	Not applicable	more
V687 — Other Vehicle Impact 2 C2	998	Not applicable	more
V688 — Other Vehicle Impact 2 C3	998	Not applicable	more
V689 — Other Vehicle Impact 2 C4	998	Not applicable	more
V690 — Other Vehicle Impact 2 C5	998	Not applicable	more
V691 — Other Vehicle Impact 2 C6	998	Not applicable	more
V692 — Other Vehicle Impact 2 +/- D	9998	—	—

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	more
V702 — Right Front Wheel Damaged	1	Yes	more
V703 — Right Rear Wheel Damaged	0	No	more
V704 — Left Rear Wheel Damaged	0	No	more
V705 — Left Front Tire Tread Type	4	All Weather	more
V706 — Right Front Tire Tread Type	4	All Weather	more
V707 — Right Rear Tire Tread Type	4	All Weather	more
V708 — Left Rear Tire Tread Type	4	All Weather	more
V709 — Left Front Carcass Construction	3	Radial	more
V710 — Right Front Carcass Construction	3	Radial	more
V711 — Right Rear Carcass Construction	3	Radial	more
V712 — Left Rear Carcass Construction	3	Radial	more
V717 — Left Front Tire Size	P21560R15	—	—
V718 — Right Front Tire Size	P21560R15	—	—
V719 — Right Rear Tire Size	P21560R15	—	—
V720 — Left Rear Tire Size	P21560R15	—	—

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	more
V802 — Main Tank Location	122	Within frame/centered laterally - within vertically	more
V803 — Main Filler Cap Location	233	Right of frame laterally - above vertically	more
V804 — Main Tank Material	2	Aluminum	more
V805 — Aux Tank Type	8	Not applicable (not equipped)	more
V806 — Aux Tank Location	888	Not applicable (not equipped)	more
V807 — Aux Filler Cap Location	888	Not applicable (not equipped)	more



V808 — Aux Tank Material	8	Not applicable	more
V901 — Fuel Leakage From Crash	0	No	more
V1001 — Fire In Or On Case Vehicle	0	No	more

Case Vehicle Exterior

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Variable Number and 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	0	No	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	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 Separation	0	No	more
V1114 — Sterng Column Flex Coupling	9	Unknown if equipped	more
V1115 — Sterng Column Coupling Damaged	9	Unknown	more
V1116 — Sterng Column Coupling Separated	9	Unknown	more
V1117 — Eng Comp Telescopng Unit	88	Not collected	more
V1118 — Comp Orig/Telescopd Diff	888	Not collected	more
V1119 — Left Side Body Mount Separation	8	Not applicable (unitized)	more
V1120 — Upper Left A-pillar Separation	0	No	more
V1121 — Lower Left A-pillar Separation	0	No	more
V1122 — Upper Left B-pillar Separation	0	No	more
V1123 — Lower Left B-pillar	0		

Separation		No	more
V1124 — Upper Left C-pillar Separation	0	No	more
V1125 — Lower Left C-pillar Separation	0	No	more
V1126 — Upper Left D-pillar Separation	8	Not applicable (not equipped)	more
V1127 — Lower Left D-pillar Separation	8	Not applicable (not equipped)	more
V1128 — Left Front Door Opening Cause	0	Door did not open	more
V1129 — Left Rear Door Opening Cause	0	Door did not open	more
V1130 — Left Front Door Jammed Closed	0	No	more
V1131 — Left Rear Door Jammed Closed	0	No	more
V1132 — Rear Door Type	0	No door (includes pickups)	more
V1133 — Rear Door Opening Cause	8	Not applicable (no rear door)	more
V1134 — Rear Door Jammed Closed	8	Not applicable (no rear door)	more
V1135 — Luggage Partition Damagd	0	No	more
V1136 — Spare Tire Status	8	Not collected	more
V1137 — Trailer Hitch Type	0	No hitch	more
V1138 — Trailer Type	0	No trailer	more
V1139 — Right Side Body Mount Separation	8	Not applicable (unitized)	more
V1140 — Upper Right A-pillar Separation	4	No separation, but damaged	more
V1141 — Lower Right A-pillar Separation	4	No separation, but damaged	more
V1142 — Upper Right B-pillar Separation	4	No separation, but damaged	more
V1143 — Lower Right B-pillar Separation	4	No separation, but damaged	more
V1144 — Upper Right C-pillar Separation	0	No	more
V1145 — Lower Right C-pillar Separation	0	No	more
V1146 — Upper Right D-pillar Separation	8	Not applicable (not equipped)	more
V1147 — Lower Right D-pillar Separation	8	Not applicable (not equipped)	more

V1148 — Right Front Door Opening Cause	00	Door did not open	more
V1149 — Right Rear Door Opening Cause	00	Door did not open	more
V1150 — Right Front Door Jammed Closed	1	Yes	more
V1151 — Right Rear Door Jammed Closed	1	Yes	more
V1152 — Van Rear Door Type	8	Not applicable (not a van)	more
V1153 — Windshield Cracked		Yes	more
V1154 — Windshield Broken	1	Yes	more
V1155 — Windshield Cracked or Broken by Occupant	0	No	more
V1156 — Bond Separation Extent	0	None	more
V1157 — Windshield Code		—	—
V1158 — Did Sun/T Roof Open	8	Not Applicable	more

**Case Vehicle
Steering
Column/Rim**

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Variable Number and 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 — Column Tilt Feature	2	Up	more
V1205 — Column Swing-away Feature	0	Not equipped	more
V1206 — Column Telescoping Feature	0	Not equipped	more

V1207 — Wheel Energy Absorb Device	8	Not collected	more
V1208 — Wheel Ea Orig/Damaged Diff	888	Not collected	more
V1209 — Column Energy Absorb Device	88	Not collected	more
V1210 — Column Ea Orig/Comprss Diff	888	Not collected	more
V1211 — Shear Capsule Separation	888	Not collected	more
V1212 — Column Vertical Rotation	0	No apparent rotation	more
V1213 — Column Lateral Rotation	0	No apparent rotation	more
V1214 — Steering Wheel Hub Damage	0	None	more

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	more
V1302 — Was Intrusion Catastrophic	0	No	more
V1303 — Intrusion Number 01	01	Intrusion #1	more
V1304 — Intrusion 01 Occupant Space Number	13	First row, Right seat	more
V1305 — Intrusion 01 Intruding Object	01	Instrument panel	more
V1306 — Intrusion 01 Assoc Event Number	1	Event #1	more
V1307 — Intrusion 01 Max Intrusion X-axis	12 cm	—	—
V1308 — Intrusion 01 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1309 — Intrusion 01 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1310 — Intrusion 01 Occupant Number	00	No contact or no intrusion	more
V1311 — Intrusion 01 Injury Number	00	No injury or no intrusion	more
V1312 — Intrusion 01 Occupant Number	00	No contact or no intrusion	more
V1313 — Intrusion 01 Injury Number	00	No injury or no intrusion	more
V1314 — Intrusion Number 02	02	Intrusion #2	more

V1315 — Intrusion 02 Occupant Space Number	13	First row, Right seat	more
V1316 — Intrusion 02 Intruding Object	03	Toe pan	more
V1317 — Intrusion 02 Assoc Event Number	1	Event #1	more
V1318 — Intrusion 02 Max Intrusion X-axis	04 cm	—	—
V1319 — Intrusion 02 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1320 — Intrusion 02 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1321 — Intrusion 02 Occupant Number	00	No contact or no intrusion	more
V1322 — Intrusion 02 Injury Number	00	No injury or no intrusion	more
V1323 — Intrusion 02 Occupant Number	00	No contact or no intrusion	more
V1324 — Intrusion 02 Injury Number	00	No injury or no intrusion	more
V1325 — Intrusion Number 03	03	Intrusion #3	more
V1326 — Intrusion 03 Occupant Space Number	13	First row, Right seat	more
V1327 — Intrusion 03 Intruding Object	08	A-pillar	more
V1328 — Intrusion 03 Assoc Event Number	1	Event #1	more
V1329 — Intrusion 03 Max Intrusion X-axis	03 cm	—	—
V1330 — Intrusion 03 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1331 — Intrusion 03 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1332 — Intrusion 03 Occupant Number	00	No contact or no intrusion	more
V1333 — Intrusion 03 Injury Number	00	No injury or no intrusion	more
V1334 — Intrusion 03 Occupant Number	00	No contact or no intrusion	more
V1335 — Intrusion 03 Injury Number	00	No injury or no intrusion	more
V1336 — Intrusion Number 04	04	Intrusion #4	more
V1337 — Intrusion 04 Occupant Space Number	12	First row, Center seat	more
V1338 — Intrusion 04 Intruding Object	01	Instrument panel	more

V1339 — Intrusion 04 Assoc Event Number	1	Event #1	more
V1340 — Intrusion 04 Max Intrusion X-axis	03 cm	—	—
V1341 — Intrusion 04 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1342 — Intrusion 04 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1343 — Intrusion 04 Occupant Number	00	No contact or no intrusion	more
V1344 — Intrusion 04 Injury Number	00	No injury or no intrusion	more
V1345 — Intrusion 04 Occupant Number	00	No contact or no intrusion	more
V1346 — Intrusion 04 Injury Number	00	No injury or no intrusion	more
V1347 — Intrusion Number 05	00	No Intrusion, None	more
V1348 — Intrusion 05 Occupant Space Number	00	No Intrusion, None	more
V1349 — Intrusion 05 Intruding Object	00	No Intrusion, None	more
V1350 — Intrusion 05 Assoc Event Number	0	No Intrusion, None	more
V1351 — Intrusion 05 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1352 — Intrusion 05 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1353 — Intrusion 05 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1354 — Intrusion 05 Occupant Number	00	No contact or no intrusion	more
V1355 — Intrusion 05 Injury Number	00	No injury or no intrusion	more
V1356 — Intrusion 05 Occupant Number	00	No contact or no intrusion	more
V1357 — Intrusion 05 Injury Number	99	Contact, injury unknown or data not collected	more
V1358 — Intrusion Number 06	00	No Intrusion, None	more
V1359 — Intrusion 06 Occupant Space Number	00	No Intrusion, None	more
V1360 — Intrusion 06 Intruding Object	00	No Intrusion, None	more
V1361 — Intrusion 06 Assoc Event Number	0	No Intrusion, None	more
V1362 — Intrusion 06 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more

V1363 — Intrusion 06 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1364 — Intrusion 06 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1365 — Intrusion 06 Occupant Number	00	No contact or no intrusion	more
V1366 — Intrusion 06 Injury Number	00	No injury or no intrusion	more
V1367 — Intrusion 06 Occupant Number	00	No contact or no intrusion	more
V1368 — Intrusion 06 Injury Number	99	Contact, injury unknown or data not collected	more
V1369 — Intrusion Number 07	00	No Intrusion, None	more
V1370 — Intrusion 07 Occupant Space Number	00	No Intrusion, None	more
V1371 — Intrusion 07 Intruding Object	00	No Intrusion, None	more
V1372 — Intrusion 07 Assoc Event Number	0	No Intrusion, None	more
V1373 — Intrusion 07 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1374 — Intrusion 07 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1375 — Intrusion 07 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1376 — Intrusion 07 Occupant Number	00	No contact or no intrusion	more
V1377 — Intrusion 07 Injury Number	00	No injury or no intrusion	more
V1378 — Intrusion 07 Occupant Number	00	No contact or no intrusion	more
V1379 — Intrusion 07 Injury Number	99	Contact, injury unknown or data not collected	more
V1380 — Intrusion Number 08	00	No Intrusion, None	more
V1381 — Intrusion 08 Occupant Space Number	00	No Intrusion, None	more
V1382 — Intrusion 08 Intruding Object	00	No Intrusion, None	more
V1383 — Intrusion 08 Assoc Event Number	0	No Intrusion, None	more
V1384 — Intrusion 08 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1385 — Intrusion 08 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1386 — Intrusion 08 Max Intrusion	00 cm		

Z-axis		0 cm or No Intrusion	more
V1387 — Intrusion 08 Occupant Number	00	No contact or no intrusion	more
V1388 — Intrusion 08 Injury Number	00	No injury or no intrusion	more
V1389 — Intrusion 08 Occupant Number	00	No contact or no intrusion	more
V1390 — Intrusion 08 Injury Number	99	Contact, injury unknown or data not collected	more
V1391 — Intrusion Number 09	00	No Intrusion, None	more
V1392 — Intrusion 09 Occupant Space Number	00	No Intrusion, None	more
V1393 — Intrusion 09 Intruding Object	00	No Intrusion, None	more
V1394 — Intrusion 09 Assoc Event Number	0	No Intrusion, None	more
V1395 — Intrusion 09 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1396 — Intrusion 09 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1397 — Intrusion 09 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1398 — Intrusion 09 Occupant Number	00	No contact or no intrusion	more
V1399 — Intrusion 09 Injury Number	00	No injury or no intrusion	more
V1400 — Intrusion 09 Occupant Number	00	No contact or no intrusion	more
V1401 — Intrusion 09 Injury Number	99	Contact, injury unknown or data not collected	more
V1402 — Intrusion Number 10	00	No Intrusion, None	more
V1403 — Intrusion 10 Occupant Space Number	00	No Intrusion, None	more
V1404 — Intrusion 10 Intruding Object	00	No Intrusion, None	more
V1405 — Intrusion 10 Assoc Event Number	0	No Intrusion, None	more
V1406 — Intrusion 10 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1407 — Intrusion 10 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1408 — Intrusion 10 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1409 — Intrusion 10 Occupant Number	00	No contact or no intrusion	more

V1410 — Intrusion 10 Injury Number	00	No injury or no intrusion	more
V1411 — Intrusion 10 Occupant Number	00	No contact or no intrusion	more
V1412 — Intrusion 10 Injury Number	99	Contact, injury unknown or data not collected	more
V1413 — Door Intrusion Number 01	88	Not Applicable	more
V1414 — Door Intrusion Number 01 Cause	8	Not applicable	more
V1415 — Door Intrusion Number 02	88	Not Applicable	more
V1416 — Door Intrusion Number 02 Cause	8	Not applicable	more
V1417 — Door Intrusion Number 03	88	Not Applicable	more
V1418 — Door Intrusion Number 03 Cause	8	Not applicable	more
V1419 — Door Intrusion 01 Component	88	Not Applicable	more
V1420 — Door Intrusion 01 Component Damaged 1	8	Not Applicable	more
V1421 — Door Intrusion 01 Component Damaged 2	8	Not Applicable	more
V1422 — Door Intrusion 02 Component	88	Not Applicable	more
V1423 — Door Intrusion 02 Component Damaged 1	8	Not Applicable	more
V1424 — Door Intrusion 02 Component Damaged 2	8	Not Applicable	more
V1425 — Door Intrusion 03 Component	88	Not Applicable	more
V1426 — Door Intrusion 03 Component Damaged 1	8	Not Applicable	more
V1427 — Door Intrusion 03 Component Damaged 2	8	Not Applicable	more
V1428 — Door Intrusion 04 Component	88	Not Applicable	more
V1429 — Door Intrusion 04 Component Damaged 1	8	Not Applicable	more
V1430 — Door Intrusion 04 Component Damaged 2	8	Not Applicable	more

**Case Vehicle
Airbag(s)**



[Click for Driver airbag figure](#)



[Click for Passenger airbag figure](#)

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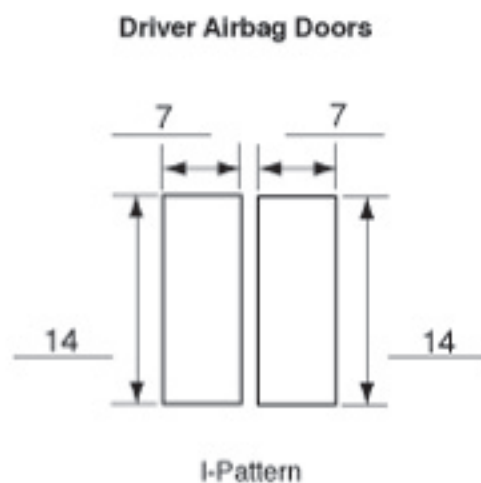
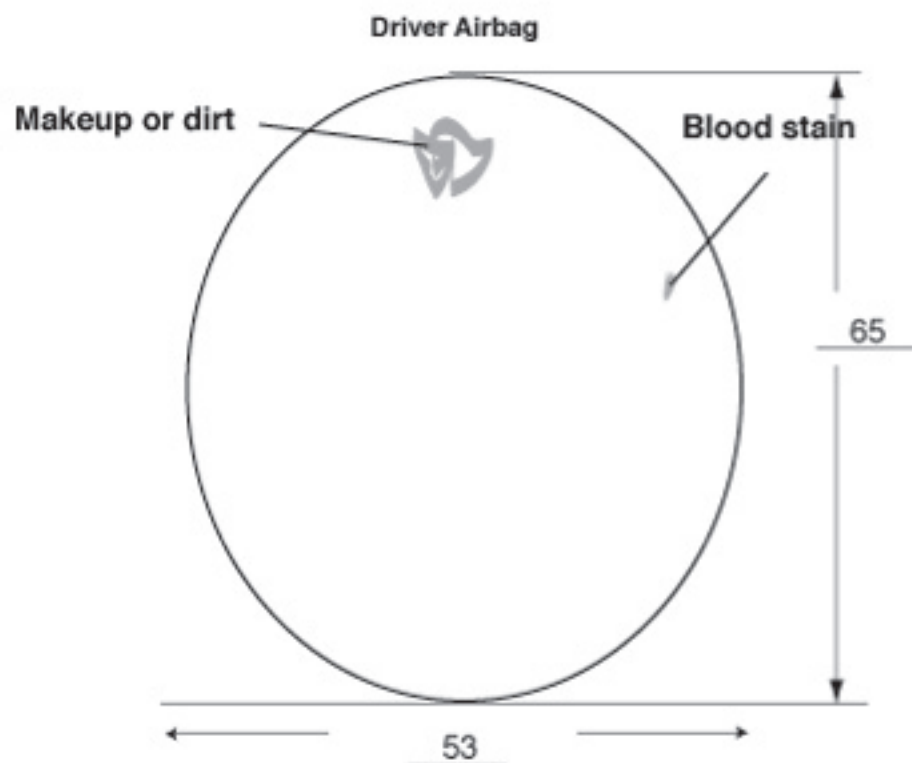
Variable Number and Name	Code Value	Code Description	Other Options
V1501 — Driver Airbag Equipped	1	Yes	more
V1502 — Driver Airbag Deployed	1	Yes	more
V1503 — Driver Airbag Condition	0	No Damage	more
V1504 — Passenger Airbag Equip	1	Yes	more
V1505 — Passenger Airbag Deployed	1	Yes	more
V1506 — Passenger Airbag Condition	0	No Damage	more
V1507 — Steering Wheel Airbag Tether	1	Yes	more
V1508 — Driver Airbag Marked By Contact	1	Yes	more
V1509 — Passenger Airbag Tether	1	Yes	more
V1510 — Passenger Airbag Marked By Contact	0	No	more

Case Vehicle Interior

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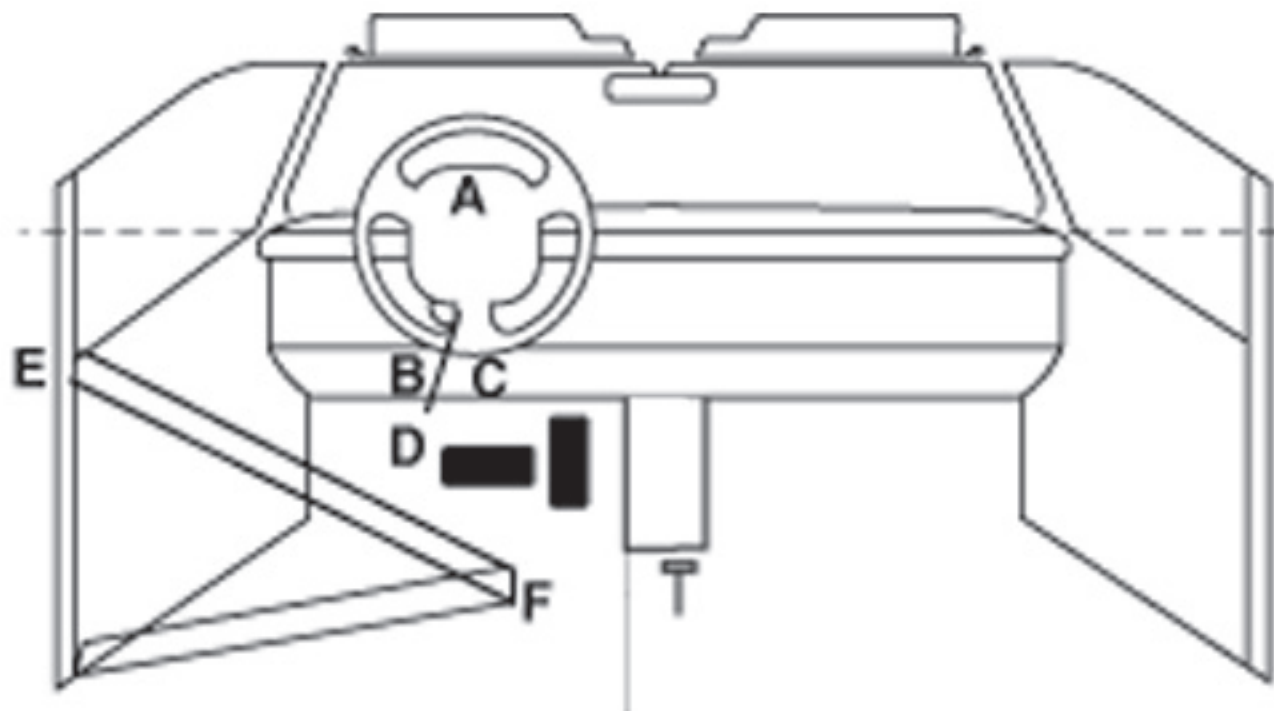
Variable Number and Name	Code Value	Code Description	Other Options
V1601 — Left Front Door Damaged	0	No	more
V1602 — Right Front Door Damaged	1	Yes	more
V1603 — Left Front Hardware Damaged	0	No	more
V1604 — Right Front Hardware Damaged	1	Yes	more
V1605 — Left Front Armrest Damaged	0	No	more
V1606 — Right Front Armrest Damaged	1	Yes	more
V1607 — Left Front Glass Damaged	0	No	more
V1608 — Right Front Glass Damaged	1	Yes	more
V1609 — Left Rear Door Area Damaged	0	No	more
V1610 — Right Rear Door Area Damaged	0	No	more
V1611 — Left Rear Hardware	0		

Damaged		No	more
V1612 — Right Rear Hardware Damaged	0	No	more
V1613 — Left Rear Armrest Damaged	0	No	more
V1614 — Right Rear Armrest Damaged	0	No	more
V1615 — Left Rear Glass Damaged	0	No	more
V1616 — Right Rear Glass Damaged	0	No	more
V1617 — Left Roof Side Rail Damaged	0	No	more
V1618 — Right Roof Side Rail Damaged	0	No	more
V1619 — Left B-pillar Damaged	0	No	more
V1620 — Right B-pillar Damaged	1	Yes	more
V1621 — Left C-pillar Damaged	0	No	more
V1622 — Right C-pillar Damaged	0	No	more
V1623 — Left D-pillar Damaged	8	Not applicable	more
V1624 — Right D-pillar Damaged	8	Not applicable	more
V1625 — Left Headlining Damaged	0	No	more
V1626 — Right Headlining Damaged	1	Yes	more



Vents: Y N
 if yes, how many: _____

Tethers: Y N
 if yes, how many: 2



A = airbag, makeup

B = knee bolster, scuffmark

C = knee bolster, scuffmark

D = steering column cover, scuffmark

E = seatbelt D-ring, webbing marks

F = seatbelt loop, webbing marks

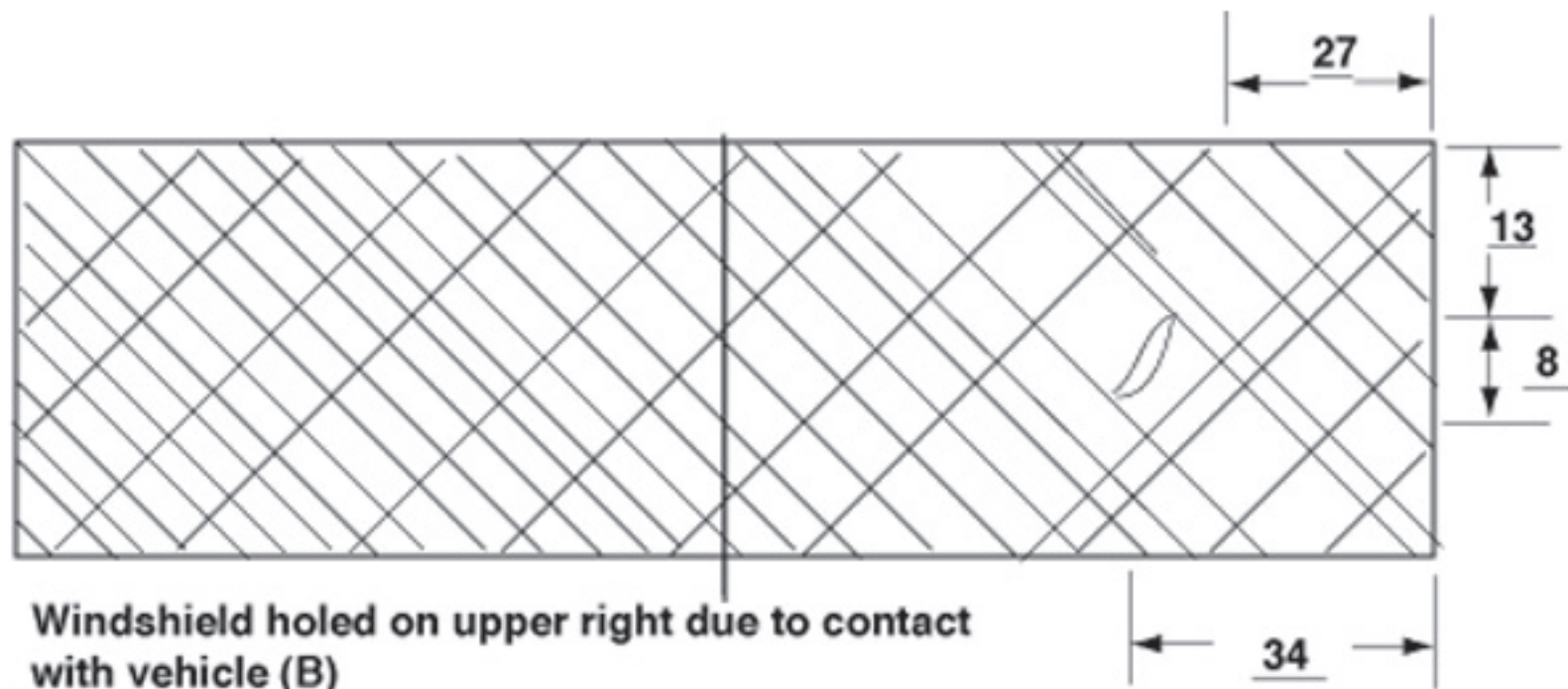
1 = Definitely 2 = Probably 3 = Possible

INTRUSION IT-1

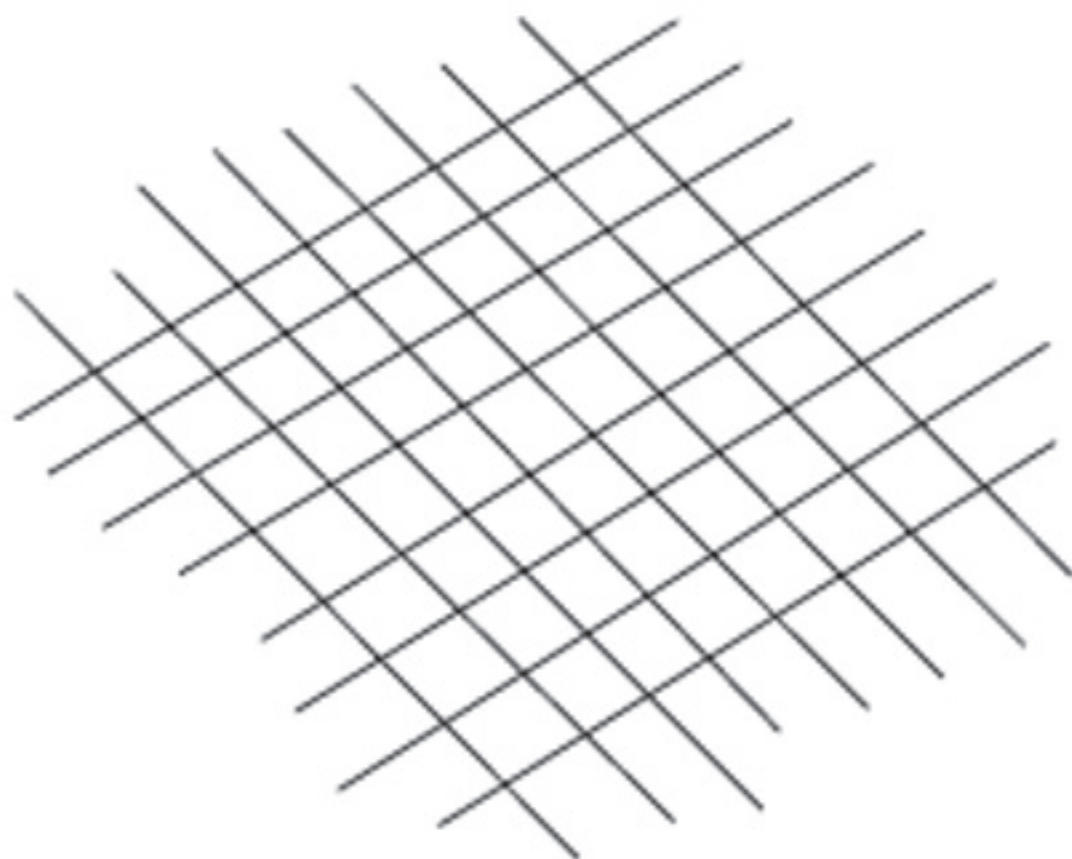
Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters)					Dominant Crush Direction
		Comparison Value	–	Intruded Value	=	Intrusion	
13	Instrument panel	78	–	66	=	12	to rear
13	Toe pan	54	–	50	=	4	to rear
13	A-pillar	49	–	46	=	3	to rear
12	Instrument panel	74	–	71	=	3	to rear

OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	Airbag	1	Face	Makeup or dirt	2
B	Knee bolster	1	Lt. knee	Scuffmark	1
C	Knee bolster	1	Rt. LX	Scuffmark	1
D	Steering column cover	1	Rt. LX	Scuffmark	1
E	Seatbelt D-ring	1	Lt. UX	Webbing marks	1
F	Seatbelt loop	1	Abdomen	Webbing marks	1
G					
H					
I					
J					

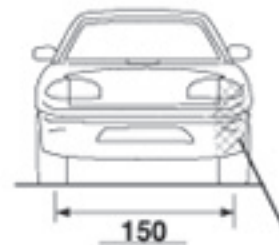
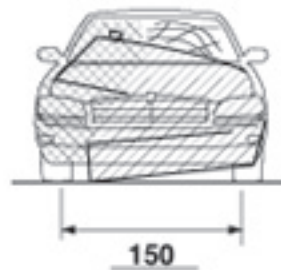


WINDSHIELD MARK ON CASE VEHICLE:



DESTROYED

MEASUREMENTS IN CENTIMETERS

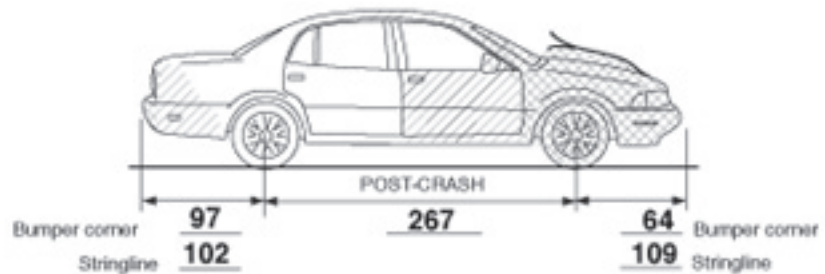
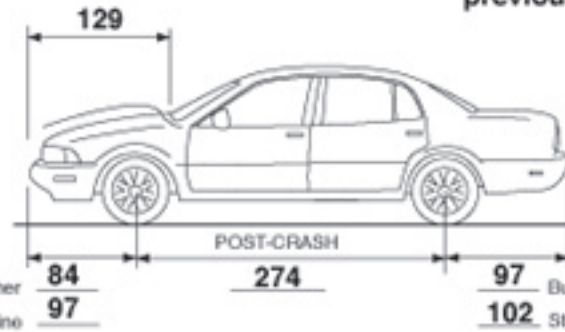


previous or post-crash damage

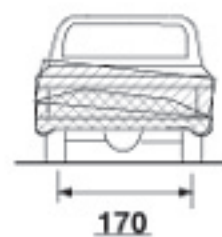
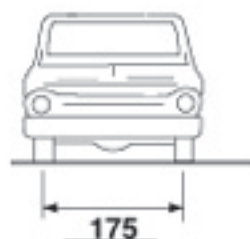


Max. crush to front 39
at right bumper
corner

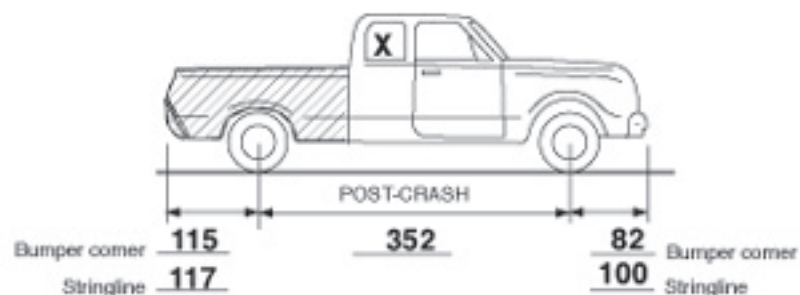
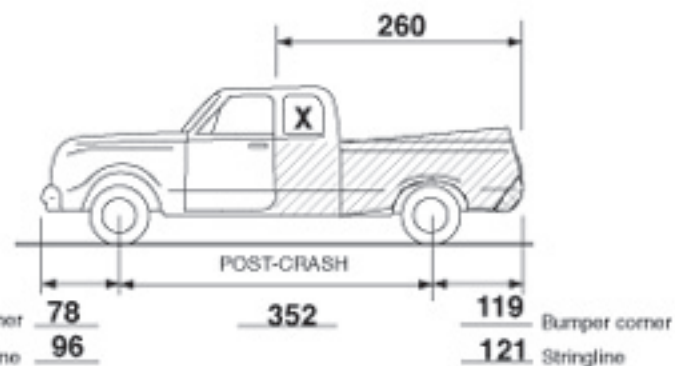
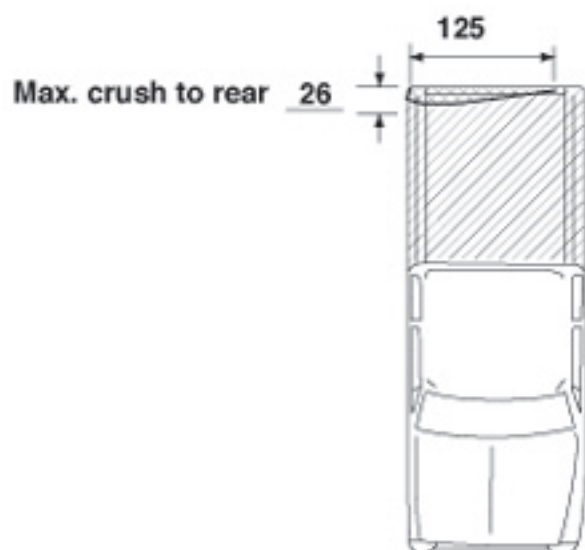
50 Width of direct damage
to front

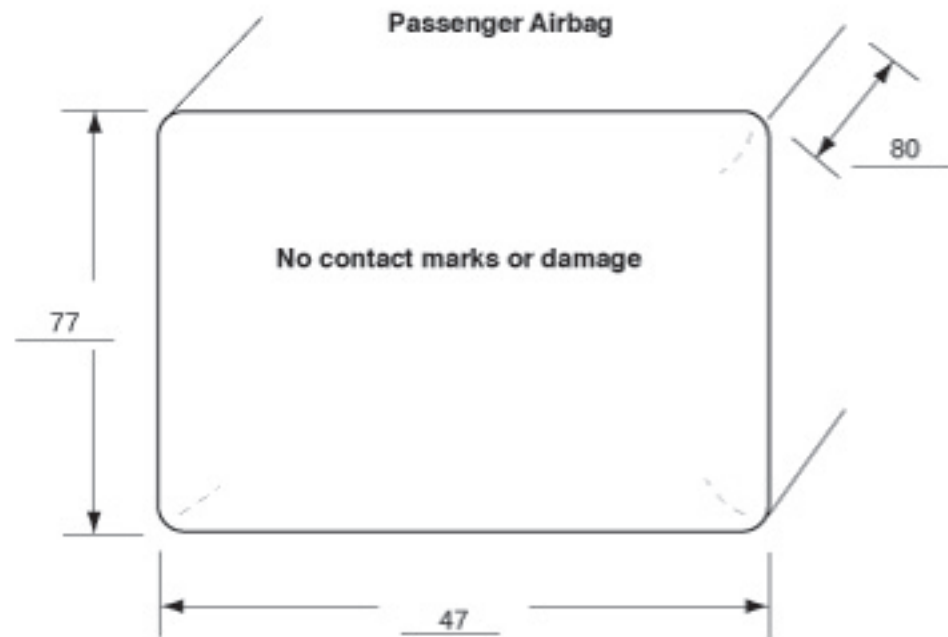


MEASUREMENTS IN CENTIMETERS



Width of direct damage





Vents: Y N

if yes, how many: 2

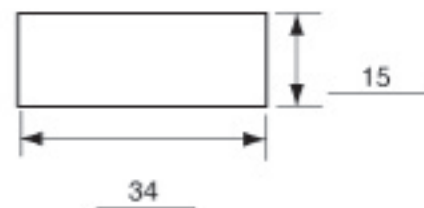
Vents @ 11 and 1

Tethers: Y N

if yes, how many: 1

Passenger Airbag Door

Single Door















ETS

CHRYSLER

MARK

RECALL

PREV

1

2

3

4

5

6

7

8

9

0

MEMO

TIME

12

24

36

48

60

72

84

96

108

120

BAL

FACE

DEF

REAR

WASH

WAX

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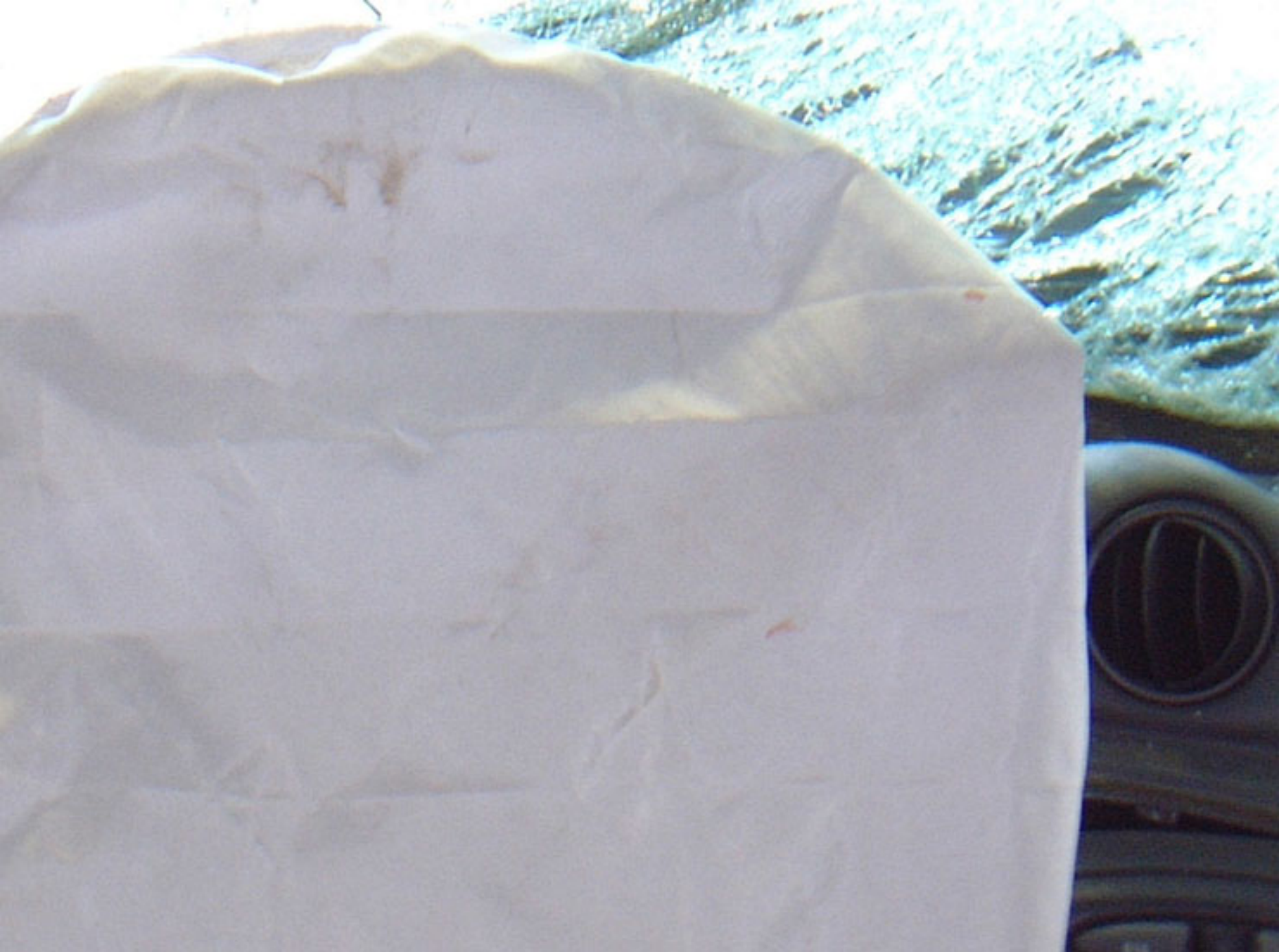




















180167
NW1 PT

DODGE STRATUS









11/5
180104
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07

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Loren



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Hyundai



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DODGE

4x4

BY PRESIDENT B.
MARCIN JESCH

RAINS



MY PRESIDENT IS
CHARLTON HESTON

DODGE

4x4











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180102
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