

## Case 408 : Narrative

Case Vehicle (A): 2000 Chevrolet	Vehicle (B): 2001 Toyota
Type: Suburban LS, 4 x 4, 4-door SUV	Type: RAV4, 4 x 2, 4-door SUV
Driver: 35-year-old female	Driver: 50-year-old female
CDC: 12-FYEW-2, 06-BDEW-1	CDC: 99-0000-0

### SITUATION

1 It was daylight, the weather was clear, and the asphalt road surface of the six-lane limited-access freeway was dry and free of defects, as 2 case vehicle (A) was traveling west in the center westbound lane at an EDR-recorded speed of 74 mph (119 kph). Vehicle (B) was traveling west behind case vehicle (A) and vehicle (X) was traveling west at an unknown speed in the left westbound lane to the left of case vehicle (A). When vehicle (X) suddenly moved to the right, the female driver of case vehicle (A) steered to the right into the right westbound lane to avoid a collision. She then steered back to the left to re-enter the center travel lane but she over-steered and case vehicle (A) crossed the center and left westbound lanes and 3 struck the concrete median wall with the left front in an offset mode. Case vehicle (A) then veered to the right and re-entered the center westbound lane, where it came to rest before being struck in the rear by vehicle (B). Both vehicles were towed due to damage.

The police report indicates C-level injuries for the adolescent right-rear passenger of case vehicle (A) and O-level injuries for the driver, the right-front passenger, and the left-rear child passenger of case vehicle (A), and the driver of vehicle (B). The driver and all the passengers of case vehicle (A) were taken by ambulance to a level-one trauma center. The driver, the right-front passenger and the left-rear child passenger of case vehicle (A) were treated and released, and the adolescent right-rear passenger was hospitalized for one day. The driver of vehicle (B) was not treated.

### GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

4 Damage to case vehicle (A) was severe. 5 Direct damage from the frontal impact began at the left-front bumper corner and extended 120-cm to the right, resulting in 65-percent vehicle overlap (VOL). The maximum crush was 48 cm and occurred at the left-front bumper corner. 6 Damage to the rear of case vehicle (A) was minor. Direct damage for the rear impact began at the left-rear bumper corner and extended to the right across the entire bumper. The maximum crush from the rear impact was 2 cm to the right-rear bumper corner.

Vehicle (B) was unavailable for inspection.

Using the barrier algorithm of the WinSMASH crash-reconstruction program and 7 8 9 a crush profile measured for case vehicle (A), the following impact severity was estimated for the frontal impact:

		Estimated Velocity Change - kph (mph)		
Vehicle	Variable	Total	Longitudinal	Latitudinal

Case Vehicle (A)	delta V	28 (17)	-28 (-17)	5 (3)
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This vehicle was equipped with a downloadable Event Data Recorder (EDR) that recorded a deployment event. The EDR data indicate that the maximum-recorded pre-crash travel speed was 74 mph at 5 seconds before the deployment event, that the driver's seatbelt was buckled, and that the passenger dash-mounted airbag was not suppressed. The throttle was at 0%, the brakes were applied, and the vehicle speed was 45 mph one-second prior to the deployment event. The maximum-recorded longitudinal velocity change is -21.7 mph and it occurred 120 milliseconds into the event, but the EDR apparently lost power 130-seconds into the deployment event.

## DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

### Exterior

[4](#) [10](#) [11](#) In the front, left and center portions of the bumper and hood, and [12](#) the left side of the engine compartment, were crushed rearward. The hood latch was damaged and jammed closed [13](#) and the right hood hinge was damaged but it is unknown if this damage was caused by the crash or by rescue personnel. [14](#) The left hood hinge had been cut by rescue personnel and the rear edge of the hood was elevated and [15](#) [16](#) it had contacted and cracked the lower-left corner of the windshield.

On the left side, [17](#) the left-front wheel, [18](#) the fender, and the upper and lower sections of the A-pillar were crushed rearward, jamming the driver door closed and reducing the left wheelbase by 5 cm. The left side of the roof between the A- and B-pillars was deflected slightly up, but all left-side glazing was intact and the left-rear door was closed and operational.

[6](#) Damage to the rear of the vehicle was confined to the bumper and lower portions of the rear doors. The maximum crush from the rear impact by vehicle (B) was 2 cm to the right-rear bumper corner.

[19](#) On the right side, the fender was deflected to the right and it was dented by rescue or insurance personnel. [20](#) [21](#) There was no other right-side damage, both right-side doors were closed and operational, all the right-side glazing was intact, and there was no significant change in the right wheelbase.

### Interior

This vehicle was equipped with steering-wheel and dash-mounted frontal-impact airbags [22](#) [23](#) [24](#) and both deployed in the frontal impact. [25](#) [26](#) It was also equipped with seatback-mounted side-impact airbags but they did not deploy.

[27](#) [28](#) [29](#) [30](#) In the driver area, there was no damage to the steering-wheel airbag or the airbag module covers/flaps. [31](#) [32](#) There was no damage to the steering-wheel rim or spokes, and there was no rotation of the steering column. [33](#) [34](#) The roof headliner and [35](#) the knee bolster to the left of the steering column were scuffed and [36](#) the parking-brake release handle was deflected to the left. The kick panel cover and the knee bolster below the steering column were covered with pizza sauce. [37](#) The seat-integrated shoulder-belt guide was dislodged from the driver seatback and the shoulder belt was twisted and jammed in the guide slot.

In the right-front seating area, [38](#) there was no damage to the dash-mounted airbag or [39](#) [40](#) [41](#) airbag module cover. [42](#) The hardware on the interior panel of the right-front door was displaced to the left and

loose.

In the left-rear seating area, [43](#) [44](#) the seat cushion was dented and [45](#) the back of the driver seat was stained with pizza sauce. [46](#) The backs of the rear-seat seatbacks were scuffed, the cargo area was covered with dried milk, and [47](#) the upper panel of the right-rear cargo door was knocked off.

[48](#) [49](#) [50](#) [51](#) [52](#) [53](#) [54](#) [55](#) [56](#) [57](#) [58](#) There was no other interior damage.

The following intrusions were noted and measured:

Location	Component	Distance (cm)	Direction
Driver	knee bolster <a href="#">59</a>	3	to rear
	toe pan <a href="#">60</a>	3	to rear

## OCCUPANT KINEMATICS AND INJURIES

[61](#) The 170-cm, 54-kg (5-ft 7-in, 120-lb) 35-year-old female driver was using the seat-integrated three-point belt and [62](#) the steering-wheel airbag deployed, [25](#) but the seatback mounted side-impact airbag did not deploy. [37](#) The belt webbing was twisted and jammed in the shoulder-belt guide, [63](#) [64](#) there were belt loading marks on the plastic sliding latch plate, and [65](#) there were plastic transfer marks on the belt webbing, confirming belt use at the time of the crash. During impact with the median barrier, the driver moved forward relative to the vehicle interior, into the belt restraints, airbag, and knee bolster. She sustained a loss of consciousness for an unspecified length of time from an unknown source but was awake on admission to the hospital. She sustained a displaced fracture to the styloid process of the left ulna, possibly due to the airbag flinging her left wrist and hand into contact with the roof headliner, as evidenced by [34](#) [35](#) scuffmarks. She sustained contusions to both knees from contact with the knee bolster.

[66](#) The 183-cm, 52-kg (6-ft 0-in, 115-lb) 16-year-old male right-front passenger was using the seat-integrated three-point belt and [67](#) the dash-mounted airbag deployed, [26](#) but the seatback mounted side-impact airbag did not deploy. [68](#) The shoulder belt was twisted and jammed in the belt guide on the seatback and [69](#) [70](#) there were belt loading marks on the plastic sliding latch plate, indicating belt use at the time of the crash. During impact with the median barrier, the right-front passenger moved forward relative to the vehicle interior. He sustained a contusion to the left index finger, possibly due to contact by the deploying airbag. He sustained a contusion to the right knee due to contact with the knee bolster.

[71](#) The 91-cm, 16-kg (3-ft 0-in, 35-lb) 2-year-old male, left-rear passenger was restrained by a five-point harness in a Cosco forward-facing child safety seat that was properly secured to the vehicle seat by the three-point belt. [72](#) [73](#) There were no marks on the continuous loop of the sliding latch to confirm belt use, but the left-rear passenger did not sustain any injuries.

[74](#) The 152-cm, 45-kg (5-ft 0-in, 100-lb) 12-year-old male right-rear passenger was using the three-point belt, as evidenced [75](#) [76](#) by belt loading marks on the plastic sliding latch plate. On impact with the median barrier, he moved forward relative to the vehicle interior. He sustained abrasions to the right side of the neck from the shoulder belt. He sustained a pulmonary contusion to the middle lobe of the right lung and abrasions across the abdomen, probably from loading by the shoulder belt and the lap belt, respectively.

The following tables and attached drawings [77](#) [78](#) [79](#) [80](#) summarize the injuries for the four occupants of

case vehicle (A).

Occupant: Driver	Age: 35 years	Gender: Female		
Restraints: 3-point belt; steering-wheel airbag	Stature: 170 cm (5 ft, 7 in)	Mass: 54 kg (120 lb)		
Injury Description	A.I.S.	Injury Source		
—	—	Definite	Probable	Possible
Loss of consciousness for an unspecified length of time, but awake on admission to the hospital	2	Unknown	—	—
Displaced fracture, styloid process of the left ulna	3	—	—	Roof headliner (airbag fling)
Contusions, both knees	1	Knee bolster	—	—
Maximum A.I.S. Level	3	—	—	—
Injury Severity Score	14	—	—	—

Occupant: Right front	Age: 16 years	Gender: Male		
Restraints: 3-point belt; dash-mounted airbag	Stature: 183 cm (6 ft, 0 in)	Mass: 52 kg (115 lb)		
Injury Description	A.I.S.	Injury Source		
—	—	Definite	Probable	Possible
Contusion, left index finger	1	—	—	Airbag
Contusion, right knee	1	Knee bolster	—	—
Maximum A.I.S. Level	1	—	—	—
Injury Severity Score	1	—	—	—

Occupant: Left rear	Age: 2 years	Gender: Male		
Restraints: 5-point harness in forward facing child safety seat properly secured in the vehicle seat by the 3-point belt	Stature: 91 cm (3 ft, 0 in)	Mass: 16 kg (35 lb)		
Injury Description	A.I.S.	Injury Source		
—	—	Definite	Probable	Possible
No Injury	0	—	—	—

Maximum A.I.S. Level	0	—	—	—
Injury Severity Score	0	—	—	—

Occupant: Right rear	Age: 12 years	Gender: Male		
Restraints: 3-point belt	Stature: 152 cm (5 ft, 0 in)	Mass: 45 kg (100 lb)		
Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
—	—	—	—	—
Abrasion, right side of neck	1	Shoulder belt	—	—
Pulmonary contusion, middle lobe of right lung	3	—	Shoulder belt	—
Abrasion, across abdomen	1	—	Lap belt	—
Maximum A.I.S. Level	3	—	—	—
Injury Severity Score	10	—	—	—

CASE NO.: 408

CASE VEHICLE: 2000 Chevrolet

TYPE: Suburban LS, 4 x 4, 4-door SUV

OCCUPANT: Driver: 35-year-old female

STATURE: 170 cm (5 ft, 7 in) MASS: 54 kg (120 lb)

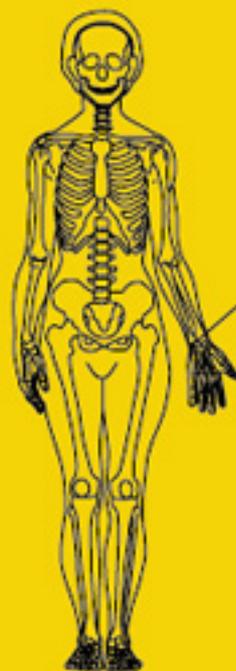
RESTRAINTS: 3-point belt; steering-wheel airbag

SEVERITY: MAIS - 3 : ISS - 14

Loss of consciousness for  
an unspecified length of time,  
but awake on admission to the hospital (2)



Contusions, both knees  
(1)



Displaced fracture,  
styloid process of  
left ulna  
(3)

CASE NO.: 408

CASE VEHICLE: 2000 Chevrolet

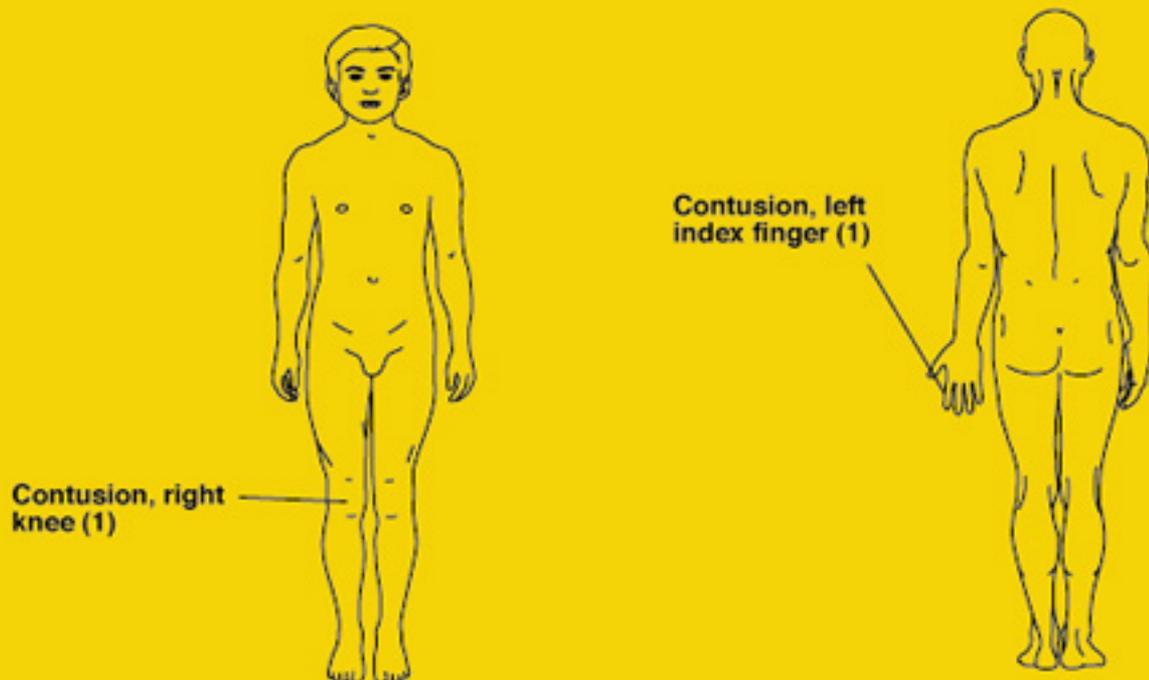
TYPE: Suburban LS, 4 x 4, 4-door SUV

OCCUPANT: Right front: 16-year-old male

STATURE: 183 cm (6 ft) MASS: 52 kg (115 lb)

RESTRAINTS: 3-point belt; dash-mounted airbag

SEVERITY: MAIS - 1 : ISS - 1



CASE NO.: 408

CASE VEHICLE: 2000 Chevrolet

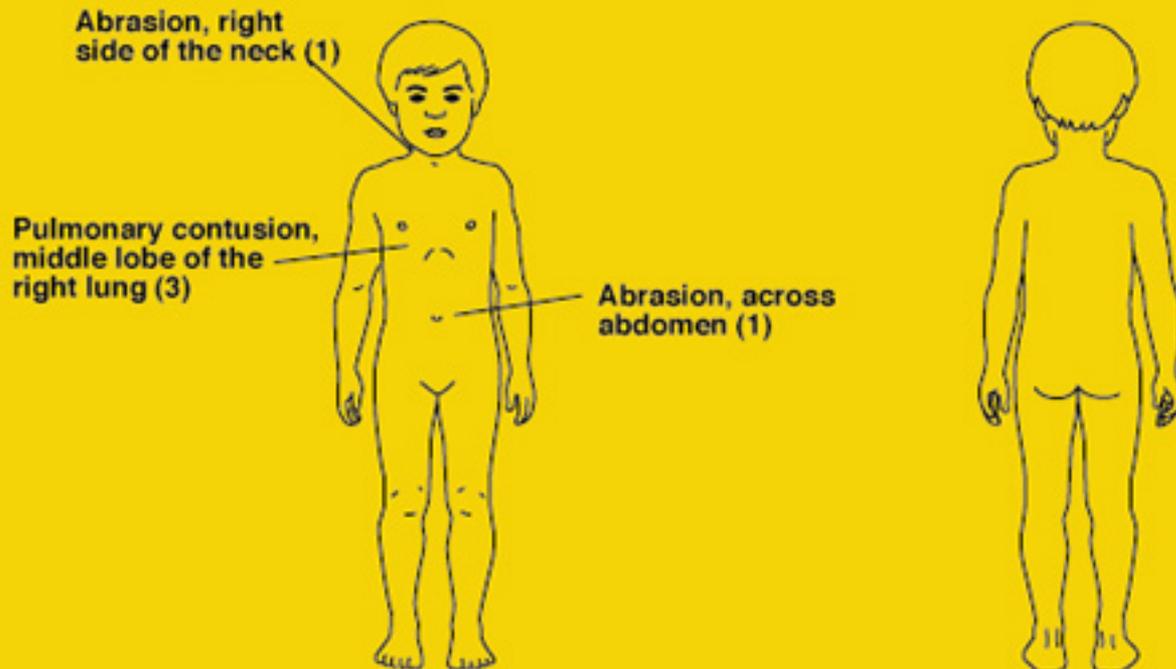
TYPE: Suburban LS, 4 x 4, 4-door SUV

OCCUPANT: Right rear: 12-year-old male

STATURE: 152 cm (5 ft) MASS: 45 kg (100 lb)

RESTRAINTS: 3-point belt

SEVERITY: MAIS - 3 : ISS - 10



CASE NO.: 408

CASE VEHICLE: 2000 Chevrolet

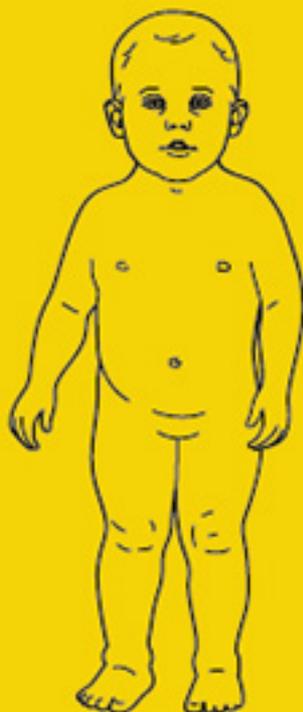
TYPE: Suburban LS, 4 x 4, 4-door SUV

OCCUPANT: Left rear: 2-year-old male

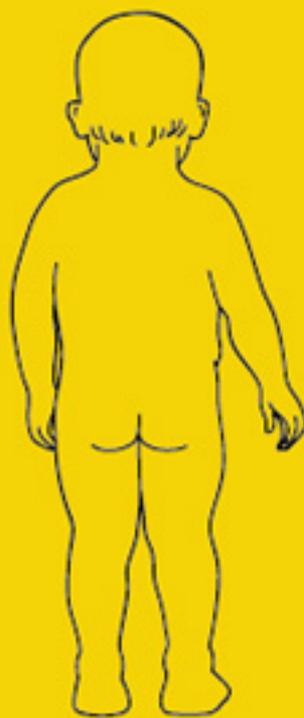
STATURE: 91 cm (3 ft) MASS: 16 kg (35 lb)

RESTRAINTS: 5-point harness in forward facing child safety seat properly secured in the vehicle seat by the 3-point belt

SEVERITY: MAIS - 0 : ISS - 0



No Injury

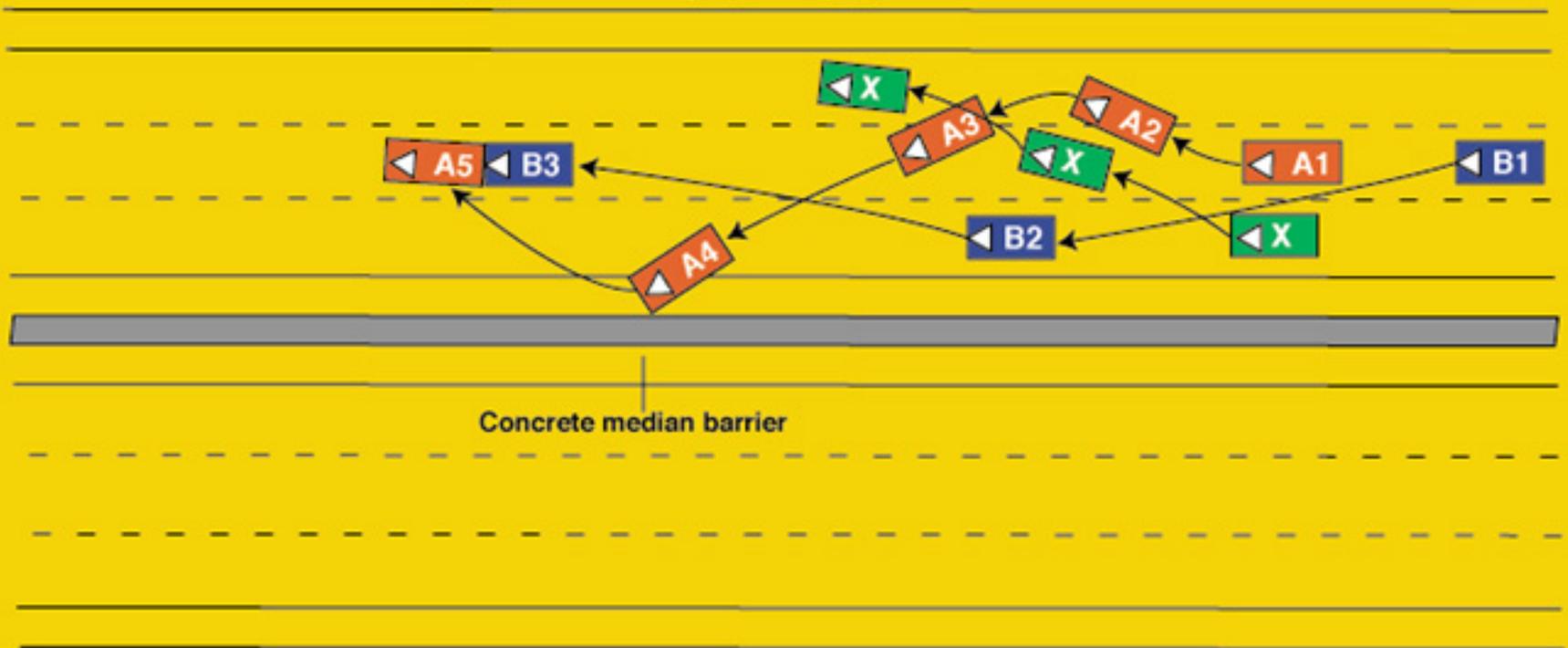


Case No.: 408  
Case Veh. (A): 2000 Chevrolet  
Type: Suburban LS, 4 x 4, 4-door SUV  
Driver: 35-year-old female  
Veh. (B): 2001 Toyota RAV4, 4 x 2, 4-door SUV

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



Speed limit 70 mph (113 kph)



# 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	1	Yes	<a href="#">more</a>
V208 — Road Total Lanes	5	Divided, 4 lanes or more	<a href="#">more</a>
V209 — Intersecting Road Total Lanes	8	Not applicable	<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	8	106+ km/h .. 65+ 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	1	Yes	<a href="#">more</a>
V226 — Case Vehicle Rollover	0	No	<a href="#">more</a>
V227 — Case Vehicle Ran Off Roadway	1	Yes	<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	1	C - Possible Injury	<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	JTEGH20V6100	—	—
V302 — Other Vehicle Manufacturer/Body Code	87114	—	—
V303 — Other Vehicle Manufacturer	871	Toyota	<a href="#">more</a>
V304 — Other Vehicle Body Code	14	Short wheelbase utility vehicle (Jeep, Bronco)	<a href="#">more</a>
V305 — Other Vehicle Make/Model	1686	—	—
V306 — Other Vehicle Model Year	2001	—	—
V307 — Other Vehicle Mass	001210 kg	—	—
V308 — Other Vehicle Number	0	No separate report	<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	0	0 - No Injury	<a href="#">more</a>
V312 — Other Vehicle Type	14	Small utility (wheelbase <107", e.g. Jeep)	<a href="#">more</a>
V313 — Other Vehicle Wheelbase (cm)	241 cm	—	—
V314 — Average Track Width	151 cm	—	—
V315 — Overall Length	416 cm	—	—
V316 — Overall Width (OAW)	169 cm	—	—
V317 — Front Overhang (FOH)	077 cm	—	—
V318 — Rear Overhang (ROH)	098 cm	—	—
V319 — Undeformed End Width (UEW)	150 cm	—	—
V320 — Engine Displacement	2.0 l	—	—
V321 — Engine: Number of Cylinders	04	—	—
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	3GNFK16T0YG1	—	—
V402 — Manufacturer/Body Code	94815	—	—
V403 — Vehicle Manufacturer	948	—	—
V404 — Vehicle Body Code	15	—	—
V405 — Make/Model Code	2903	Suburban Carryall 1/2 ton	<a href="#">more</a>
V406 — Model Year	2000	—	—
V407 — Vehicle Mass	002324 kg	—	—
V408 — Odometer Reading	888888	—	—
V409 — Number of Occupants	04	—	—
V410 — Traveling Speed	119 kph	—	—
V411 — Body Type	22	Large utility (e.g. Suburban)	<a href="#">more</a>
V412 — Stolen Vehicle	8	Not currently collected	<a href="#">more</a>
V413 — Body Structure	1	Body and frame	<a href="#">more</a>
V414 — Transmission Type	1	Automatic	<a href="#">more</a>

V415 — Transmission Lever Location	3	Column	<a href="#">more</a>
V416 — Steering	1	Power	<a href="#">more</a>
V417 — Brakes	1	Power	<a href="#">more</a>
V418 — Brake Type	3	Disc - all 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	3	Four 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	330 cm	—	—
V427 — Anti-lacerative Glass	0	None	<a href="#">more</a>
V428 — Average Track Width	147 cm	—	—
V429 — Overall Length	557 cm	—	—
V430 — Overall Width (OAW)	200 cm	—	—
V431 — Front Overhang	094 cm	—	—
V432 — Rear Overhang	133 cm	—	—
V433 — Undeformed End Width (UEW)	180 cm	—	—
V434 — Engine Displacement	5.7 l	—	—
V435 — Engine: Number of Cylinders	08	—	—
V436 — Direct Damage Length (DDL)	120 cm	—	—
V437 — Front End Overlap % (FEO)	67	—	—
V438 — Vehicle Overlap % (VOL)	65	—	—

## Case Vehicle

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### Damage Description

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>
V503 — Maximum Crush - Rear	002 cm	—	—
V504 — Maximum Crush - Left	000 cm	—	—

Side		No crush (or less than 1 cm.)	<a href="#">more</a>
V505 — Maximum Crush - Roof	000 cm	No crush (or less than 1 cm.)	<a href="#">more</a>
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	2	Shoulder/Median/Gore	<a href="#">more</a>
V509 — Event 1 Impact Configuration	17	FRONT of case veh - object	<a href="#">more</a>
V510 — Event 1 Object/Vehicle Contacted	95	Concrete barrier (median)	<a href="#">more</a>
V511 — Event 2 Impact Location	1	—	—
V512 — Event 2 Impact Configuration	31	REAR of case veh - FRONT of contacted Vehicle	<a href="#">more</a>
V513 — Event 2 Object/Vehicle Contacted	14	Small utility (wheelbase <107", e.g. Jeep)	<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	045	—	—
V531 — Primary CDC Case Vehicle - Estimated By	5	Other computer program	<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	25	Y - Side or end (F + P or L + C)	<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	02	Extent 2	<a href="#">more</a>
V539 — Primary CDC Case Vehicle -CDC #1	12FYEW2	—	—
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	998	Not Applicable	<a href="#">more</a>
V548 — Primary CDC Contacted Vehicle - Estimated By	8	Not applicable (no vehicle/no impact)	<a href="#">more</a>
V549 — Primary CDC Contacted Vehicle -crush	998	Not Applicable	<a href="#">more</a>
V550 — Primary CDC Contacted Vehicle -clock #1	98	Not Applicable	<a href="#">more</a>
V551 — Primary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V552 — Primary CDC Contacted	00	Missing Data/Not applicable	<a href="#">more</a>

Vehicle letter 2 #1			
V553 — Primary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V554 — Primary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V555 — Primary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	<a href="#">more</a>
V556 — Primary CDC Contacted Vehicle -CDC #1	9800000	—	—
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	000	Stopped	<a href="#">more</a>
V566 — Secondary CDC Case Vehicle - Estimated By	5	—	—
V567 — Secondary CDC Case Vehicle -crush	002	—	—
V568 — Secondary CDC Case Vehicle -clock #1	06	6 o'clock	<a href="#">more</a>
V569 — Secondary CDC Case Vehicle letter 1 #1	02	B - Back (Rear)	<a href="#">more</a>
V570 — Secondary CDC Case Vehicle letter 2 #1	04	D - Distributed (Side or End)	<a href="#">more</a>
V571 — Secondary CDC Case Vehicle letter 3 #1	05	E - Everything below belt line	<a href="#">more</a>
V572 — Secondary CDC Case Vehicle letter 4 #1	23	W - Wide impact area	<a href="#">more</a>
V573 — Secondary CDC Case Vehicle Extent #1	01	Extent 1	<a href="#">more</a>
V574 — Secondary CDC Case Vehicle -CDC #1	06BDEW1	—	—

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	999	Unknown	<a href="#">more</a>
V583 — Secondary CDC Contacted Vehicle - Estimated By	1	—	—
V584 — Secondary CDC Contacted Vehicle -crush	999	Unknown	<a href="#">more</a>
V585 — Secondary CDC Contacted Vehicle -clock #1	99	Unknown or no damage	<a href="#">more</a>
V586 — Secondary CDC Contacted Vehicle letter 1 #1	00	Missing 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	9900000	—	—
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	9900000	—	—

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<b>Variable Number and Name</b>	<b>Code Value</b>	<b>Code Description</b>	<b>Other Options</b>
V601 — Case Vehicle Primary Impact Number	1	—	—
V602 — Primary Impact Total Delta-V	028 kph	—	—
V603 — Primary Case Vehicle Reconstructed Longitudinal Delta-V	-028 kph	—	—
V604 — Primary Case Vehicle Reconstructed Lateral Delta-V	0005 kph	—	—
V605 — Primary Case Vehicle Reconstructed Crush Energy	0077 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	888	N/A	<a href="#">more</a>

Vehicle Reconstructed Total Delta-V			
V609 — Primary Contacted Vehicle Reconstructed Longitudinal Delta-V	8888	—	—
V610 — Primary Contacted Vehicle Reconstructed Lateral Delta- V	8888	—	—
V611 — Primary Contacted Vehicle Reconstructed Crush Energy	8888	—	—
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	9999	—	—

Reconstructed Crush Energy			
V617 — Secondary Case Vehicle Reconstruction Note	12	Other Vehicle Not Inspected	<a href="#">more</a>
V618 — Secondary Case Vehicle Reconstruction Mode	5	Not reconstructed	<a href="#">more</a>
V619 — Secondary Contacted Vehicle Reconstructed Total Delta-V	999	Unknown	<a href="#">more</a>
V620 — Secondary Contacted Vehicle Reconstructed Longitudinal Delta-V	9999	—	—
V621 — Secondary Contacted Vehicle Reconstructed Lateral Delta- V	9999	—	—
V622 — Secondary Contacted Vehicle Reconstructed Crush Energy	9999	—	—
V623 — Case Vehicle Primary Impact Number	1	—	—
V624 — Primary Case Vehicle Reconstructed Total EBS	028 kph	—	—

V625 — Primary Case Vehicle Reconstructed Longitudinal EBS	-028 kph	—	—
V626 — Primary Case Vehicle Reconstructed Lateral EBS	0005 kph	—	—
V627 — Primary Case Vehicle Reconstructed Crush Energy	0077 kJ	—	—
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	888	N/A	<a href="#">more</a>
V631 — Primary Contacted Vehicle Reconstruction Longitudinal EBS	8888	—	—
V632 — Primary Contacted Vehicle Reconstruction Lateral EBS	8888	—	—
V633 — Primary Contacted	8888		

Vehicle Reconstruction Crush Energy		—	—
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	12	Other Vehicle Not Inspected	<a href="#">more</a>
V640 — Secondary Case Vehicle Reconstruction Mode	5	Not reconstructed	<a href="#">more</a>
V641 — Secondary Contacted Vehicle Reconstruction Total EBS	999	Unknown	<a href="#">more</a>
V642 — Secondary	9999		

Contacted Vehicle Reconstruction Longitudinal EBS			—	—
V643 — Secondary Contacted Vehicle Reconstruction Lateral EBS	9999		—	—
V644 — Secondary Contacted Vehicle Reconstruction Crush Energy	9999		—	—
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]	120 cm		—	—
V648 — Case Vehicle Impact 1 Max Crush	048 cm		—	—
V649 — Case Vehicle Impact 1 Field-L	170 cm		—	—
V650 — Case Vehicle Impact 1 C1	048 cm		—	—
V651 — Case Vehicle Impact 1 C2	040 cm		—	—
V652 — Case Vehicle	024 cm		—	—

Impact 1 C3			
V653 — Case Vehicle Impact 1 C4	006 cm	—	—
V654 — Case Vehicle Impact 1 C5	003 cm	—	—
V655 — Case Vehicle Impact 1 C6	001 cm	—	—
V656 — Case Vehicle Impact 1 +/- D	-030 cm	—	—
V657 — Case Vehicle Reconstructed Impact Number	2	—	—
V658 — Case Vehicle Impact 2 Plane	1	Bumper	<a href="#">more</a>
V659 — Case Vehicle Impact 2 Direct Damage Length [DDL]	180 cm	—	—
V660 — Case Vehicle Impact 2 Max Crush	002 cm	—	—
V661 — Case Vehicle Impact 2 Field-L	180 cm	—	—
V662 — Case Vehicle Impact 2 C1	999	Unknown	<a href="#">more</a>
V663 — Case Vehicle Impact 2 C2	999	Unknown	<a href="#">more</a>
V664 — Case Vehicle Impact 2 C3	999	Unknown	<a href="#">more</a>
V665 — Case Vehicle	999	Unknown	<a href="#">more</a>

Impact 2 C4			
V666 — Case Vehicle Impact 2 C5	999	Unknown	<a href="#">more</a>
V667 — Case Vehicle Impact 2 C6	002 cm	—	—
V668 — Case Vehicle Impact 2 +/- D	0000 cm	—	—
V669 — Other Vehicle Reconstructed Impact Number	1	—	—
V670 — Other Vehicle Impact 1 Plane	9	Unknown	<a href="#">more</a>
V671 — Other Vehicle Impact 1 Direct Damage Length [DDL]	999	Unknown	<a href="#">more</a>
V672 — Other Vehicle Impact 1 Max Crush	999	Unknown	<a href="#">more</a>
V673 — Other Vehicle Impact 1 Field-L	999	Unknown	<a href="#">more</a>
V674 — Other Vehicle Impact 1 C1	999	Unknown	<a href="#">more</a>
V675 — Other Vehicle Impact 1 C2	999	Unknown	<a href="#">more</a>
V676 — Other Vehicle Impact 1 C3	999	Unknown	<a href="#">more</a>
V677 — Other Vehicle Impact 1 C4	999	Unknown	<a href="#">more</a>
V678 — Other Vehicle	999	Unknown	<a href="#">more</a>

Impact 1 C5			
V679 — Other Vehicle Impact 1 C6	999	Unknown	<a href="#">more</a>
V680 — Other Vehicle Impact 1 +/- D	0999 cm	—	—
V681 — Other Vehicle Reconstructed Impact Number	2	—	—
V682 — Other Vehicle Impact 2 Plane	8	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	998	Not applicable	<a href="#">more</a>

Impact 2 C6			
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	1	Yes	<a href="#">more</a>
V702 — Right Front Wheel Damaged	0	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	P26570R16	—	—
V718 — Right Front Tire Size	P26570R16	—	—
V719 — Right Rear Tire Size	P26570R16	—	—
V720 — Left Rear Tire Size	P26570R16	—	—

### 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	113	Left of frame laterally - above vertically	<a href="#">more</a>
V804 — Main Tank Material	3	Plastic	<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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Variable Number and Name	Code Value	Code Description	Other Options
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	1	Yes	<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	1	Yes	<a href="#">more</a>
V1111 — Edge Penetrated Windshield	0	No	<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	0	No	<a href="#">more</a>
V1120 — Upper Left A-pillar Separation	4	No separation, but damaged	<a href="#">more</a>
V1121 — Lower Left A-pillar Separation	4	No separation, but damaged	<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 Separation	0	No	<a href="#">more</a>
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	1	Yes	<a href="#">more</a>
V1131 — Left Rear Door Jammed Closed	0	No	<a href="#">more</a>
V1132 — Rear Door Type	6	Double door	<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	3	Bumper and frame (but non-equalizing)	<a href="#">more</a>
V1138 — Trailer Type	0	No trailer	<a href="#">more</a>
V1139 — Right Side Body Mount Separation	0	No	<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	8	Not applicable (not a van)	<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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Variable Number and Name	Code Value	Code Description	Other Options
V1201 — Steering Wheel Rim	0		

Damage		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	3	Middle	<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	0	No apparent rotation	<a href="#">more</a>
V1213 — Column Lateral Rotation	0	No 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	01	Instrument panel	<a href="#">more</a>
V1306 — Intrusion 01 Assoc Event Number	1	Event #1	<a href="#">more</a>
V1307 — Intrusion 01 Max Intrusion X-axis	03 cm	—	—
V1308 — Intrusion 01 Max Intrusion	00 cm		

Y-axis		0 cm or No Intrusion	<a href="#">more</a>
V1309 — Intrusion 01 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1310 — Intrusion 01 Occupant Number	01	Occupant number 1, contact	<a href="#">more</a>
V1311 — Intrusion 01 Injury Number	03	Injury #3	<a href="#">more</a>
V1312 — Intrusion 01 Occupant Number	01	Occupant number 1, contact	<a href="#">more</a>
V1313 — Intrusion 01 Injury Number	04	Injury #4	<a href="#">more</a>
V1314 — Intrusion Number 02	02	Intrusion #2	<a href="#">more</a>
V1315 — Intrusion 02 Occupant Space Number	11	First row, Left seat	<a href="#">more</a>
V1316 — Intrusion 02 Intruding Object	03	Toe pan	<a href="#">more</a>
V1317 — Intrusion 02 Assoc Event Number	1	Event #1	<a href="#">more</a>
V1318 — Intrusion 02 Max Intrusion X-axis	03 cm	—	—
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	00 cm	0 cm or No Intrusion	<a href="#">more</a>
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	00	No Intrusion, None	<a href="#">more</a>
V1326 — Intrusion 03 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1327 — Intrusion 03 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1328 — Intrusion 03 Assoc Event Number	0	No Intrusion, None	<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	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1332 — Intrusion 03 Occupant	00	No contact or no intrusion	<a href="#">more</a>

Number			
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	99	Contact, injury unknown or data not collected	<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 Z-axis	00 cm	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>
	99	Contact, injury unknown or data	

V1379 — Intrusion 07 Injury Number		not collected	<a href="#">more</a>
V1380 — Intrusion Number 08	00	No Intrusion, None	<a href="#">more</a>
V1381 — Intrusion 08 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1382 — Intrusion 08 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1383 — Intrusion 08 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1384 — Intrusion 08 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1385 — Intrusion 08 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1386 — Intrusion 08 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1387 — Intrusion 08 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1388 — Intrusion 08 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1389 — Intrusion 08 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1390 — Intrusion 08 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1391 — Intrusion Number 09	00	No Intrusion, None	<a href="#">more</a>
V1392 — Intrusion 09 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1393 — Intrusion 09 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1394 — Intrusion 09 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1395 — Intrusion 09 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1396 — Intrusion 09 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1397 — Intrusion 09 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1398 — Intrusion 09 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1399 — Intrusion 09 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1400 — Intrusion 09 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1401 — Intrusion 09 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1402 — Intrusion Number 10	00	No Intrusion, None	<a href="#">more</a>

V1403 — Intrusion 10 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1404 — Intrusion 10 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1405 — Intrusion 10 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1406 — Intrusion 10 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1407 — Intrusion 10 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1408 — Intrusion 10 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1409 — Intrusion 10 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1410 — Intrusion 10 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1411 — Intrusion 10 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1412 — Intrusion 10 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1413 — Door Intrusion Number 01	88	Not Applicable	<a href="#">more</a>
V1414 — Door Intrusion Number 01 Cause	8	Not applicable	<a href="#">more</a>
V1415 — Door Intrusion Number 02	88	Not Applicable	<a href="#">more</a>
V1416 — Door Intrusion Number 02 Cause	8	Not applicable	<a href="#">more</a>
V1417 — Door Intrusion Number 03	88	Not Applicable	<a href="#">more</a>
V1418 — Door Intrusion Number 03 Cause	8	Not applicable	<a href="#">more</a>
V1419 — Door Intrusion 01 Component	88	Not Applicable	<a href="#">more</a>
V1420 — Door Intrusion 01 Component Damaged 1	8	Not Applicable	<a href="#">more</a>
V1421 — Door Intrusion 01 Component Damaged 2	8	Not Applicable	<a href="#">more</a>
V1422 — Door Intrusion 02 Component	88	Not Applicable	<a href="#">more</a>
V1423 — Door Intrusion 02 Component Damaged 1	8	Not Applicable	<a href="#">more</a>
V1424 — Door Intrusion 02 Component Damaged 2	8	Not Applicable	<a href="#">more</a>
V1425 — Door Intrusion 03 Component	88	Not Applicable	<a href="#">more</a>
V1426 — Door Intrusion 03	8		

Component Damaged 1		Not Applicable	<a href="#">more</a>
V1427 — Door Intrusion 03 Component Damaged 2	8	Not Applicable	<a href="#">more</a>
V1428 — Door Intrusion 04 Component	88	Not Applicable	<a href="#">more</a>
V1429 — Door Intrusion 04 Component Damaged 1	8	Not Applicable	<a href="#">more</a>
V1430 — Door Intrusion 04 Component Damaged 2	8	Not Applicable	<a href="#">more</a>

**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	<a href="#">more</a>
V1502 — Driver Airbag Deployed	1	Yes	<a href="#">more</a>
V1503 — Driver Airbag Condition	0	No Damage	<a href="#">more</a>
V1504 — Passenger Airbag Equip	1	Yes	<a href="#">more</a>
V1505 — Passenger Airbag Deployed	1	Yes	<a href="#">more</a>
V1506 — Passenger Airbag Condition	0	No Damage	<a href="#">more</a>
V1507 — Steering Wheel Airbag Tether	1	Yes	<a href="#">more</a>
V1508 — Driver Airbag Marked By Contact	0	No	<a href="#">more</a>
V1509 — Passenger Airbag Tether	0	No	<a href="#">more</a>
V1510 — Passenger Airbag Marked By Contact	0	No	<a href="#">more</a>

**Case Vehicle  
Interior**

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Variable Number and Name	Code Value	Code Description	Other Options
V1601 — Left Front Door Damaged	0	No	<a href="#">more</a>
V1602 — Right Front Door Damaged	0	No	<a href="#">more</a>
V1603 — Left Front Hardware Damaged	0	No	<a href="#">more</a>
	1		

V1604 — Right Front Hardware Damaged		Yes	<a href="#">more</a>
V1605 — Left Front Armrest Damaged	0	No	<a href="#">more</a>
V1606 — Right Front Armrest Damaged	0	No	<a href="#">more</a>
V1607 — Left Front Glass Damaged	0	No	<a href="#">more</a>
V1608 — Right Front Glass Damaged	0	No	<a href="#">more</a>
V1609 — Left Rear Door Area Damaged	0	No	<a href="#">more</a>
V1610 — Right Rear Door Area Damaged	0	No	<a href="#">more</a>
V1611 — Left Rear Hardware Damaged	0	No	<a href="#">more</a>
V1612 — Right Rear Hardware Damaged	0	No	<a href="#">more</a>
V1613 — Left Rear Armrest Damaged	0	No	<a href="#">more</a>
V1614 — Right Rear Armrest Damaged	0	No	<a href="#">more</a>
V1615 — Left Rear Glass Damaged	0	No	<a href="#">more</a>
V1616 — Right Rear Glass Damaged	0	No	<a href="#">more</a>
V1617 — Left Roof Side Rail Damaged	0	No	<a href="#">more</a>
V1618 — Right Roof Side Rail Damaged	0	No	<a href="#">more</a>
V1619 — Left B-pillar Damaged	0	No	<a href="#">more</a>
V1620 — Right B-pillar Damaged	0	No	<a href="#">more</a>
V1621 — Left C-pillar Damaged	0	No	<a href="#">more</a>
V1622 — Right C-pillar Damaged	0	No	<a href="#">more</a>
V1623 — Left D-pillar Damaged	0	No	<a href="#">more</a>
V1624 — Right D-pillar Damaged	0	No	<a href="#">more</a>
V1625 — Left Headlining Damaged	3	No, occupant contact	<a href="#">more</a>
V1626 — Right Headlining Damaged	0	No	<a href="#">more</a>
V1627 — Left Roof Structure Damaged	0	No	<a href="#">more</a>
V1628 — Right Roof Structure Damaged	0	No	<a href="#">more</a>
V1629 — Left T/Sun Roof Damaged	8	Not applicable	<a href="#">more</a>
V1630 — Right T/Sun Roof Damaged	8	Not applicable	<a href="#">more</a>
V1631 — Other Left Side Item	8	Not applicable	<a href="#">more</a>

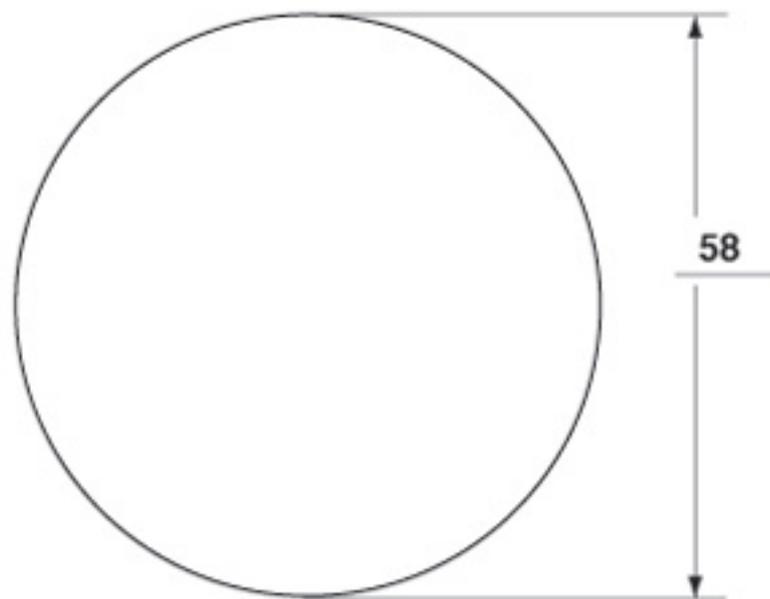
Damaged			
V1632 — Other Right Side Item Damaged	8	Not applicable	<a href="#">more</a>
V1633 — Foot Controls Damaged	0	No	<a href="#">more</a>
V1634 — Ignition Key Damaged	0	No	<a href="#">more</a>
V1635 — Rear View Mirror Damaged	0	No	<a href="#">more</a>
V1636 — Sunvisor/Fitting Damaged	0	No	<a href="#">more</a>
V1637 — Windshield Molding Damaged	0	No	<a href="#">more</a>
V1638 — Left A-pillar Damaged	0	No	<a href="#">more</a>
V1639 — Right A-pillar Damaged	0	No	<a href="#">more</a>
V1640 — Center Console Damaged	0	No	<a href="#">more</a>
V1641 — Transmission Lever Damaged	0	No	<a href="#">more</a>
V1642 — Horn/Spoke Shroud Damaged	0	No	<a href="#">more</a>
V1643 — Upper Panel Damaged	0	No	<a href="#">more</a>
V1644 — Mid Panel Damaged	0	No	<a href="#">more</a>
V1645 — Lower Panel Damaged	3	No, occupant contact	<a href="#">more</a>
V1646 — Ashtray Damaged	0	No	<a href="#">more</a>
V1647 — Control Knob/Lever Damaged	0	No	<a href="#">more</a>
V1648 — Glove Compartment Area Damaged	0	No	<a href="#">more</a>
V1649 — Instruments Damaged	0	No	<a href="#">more</a>
V1650 — Park Brake Release Damaged	1	Yes	<a href="#">more</a>
V1651 — Park Brake Pedal Damaged	0	No	<a href="#">more</a>
V1652 — A/C Or Upper Vent Damaged	0	No	<a href="#">more</a>
V1653 — Heater Or A/C Duct Damaged	0	No	<a href="#">more</a>
V1654 — Radio Damaged	0	No	<a href="#">more</a>
V1655 — Other Item Damaged	8	Not applicable	<a href="#">more</a>
V1656 — Rear Window Damaged	0	No	<a href="#">more</a>
V1657 — Rear Window Header Damaged	0	No	<a href="#">more</a>
V1658 — Vertical Console Damaged	8	Not applicable	<a href="#">more</a>
V1659 — Roof Console Damaged	0	No	<a href="#">more</a>

## Case Vehicle Seats

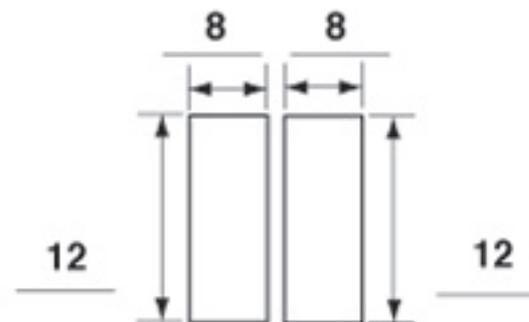
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Variable Number and Name	Code Value	Code Description	Other Options
V1701 — Driver Front Seat Type	05	Bucket	<a href="#">more</a>
V1702 — Passenger Front Seat Type	05	Bucket	<a href="#">more</a>
V1703 — Driver Seat Mount Type	1	Standard	<a href="#">more</a>
V1704 — Passenger Seat Mount Type	1	Standard	<a href="#">more</a>
V1705 — Driver Swivel Mechanism Equipped	0	No	<a href="#">more</a>
V1706 — Passenger Swivel Mechanism Equipped	0	No	<a href="#">more</a>
V1707 — Driver Seat Original Equipment	1	Yes	<a href="#">more</a>
V1708 — Passenger Seat Original Equipment	1	Yes	<a href="#">more</a>
V1709 — Driver Seat/Rear Occupant Contact	0	No	<a href="#">more</a>
V1710 — Passenger Seat/Rear Occupant Contact	0	No	<a href="#">more</a>
V1711 — Driver Seat Damage	0	None	<a href="#">more</a>
V1712 — Passenger Seat Damage	0	None	<a href="#">more</a>
V1713 — Center Front Armrest Damaged	0	No	<a href="#">more</a>
V1714 — Driver Seat Rotation	0	None apparent	<a href="#">more</a>
V1715 — Passenger Seat Rotation	0	None apparent	<a href="#">more</a>
V1716 — Driver Seat-back Type	3	Reclining	<a href="#">more</a>
V1717 — Passenger Seat-back Type	3	Reclining	<a href="#">more</a>
V1718 — Driver Seat-back Lock Type	1	Manual	<a href="#">more</a>
V1719 — Passenger Seat-back Lock Type	1	Manual	<a href="#">more</a>
V1720 — Driver Seat-back Lock Held	1	Yes	<a href="#">more</a>
V1721 — Passenger Seat-back Lock Held	1	Yes	<a href="#">more</a>

Driver Airbag

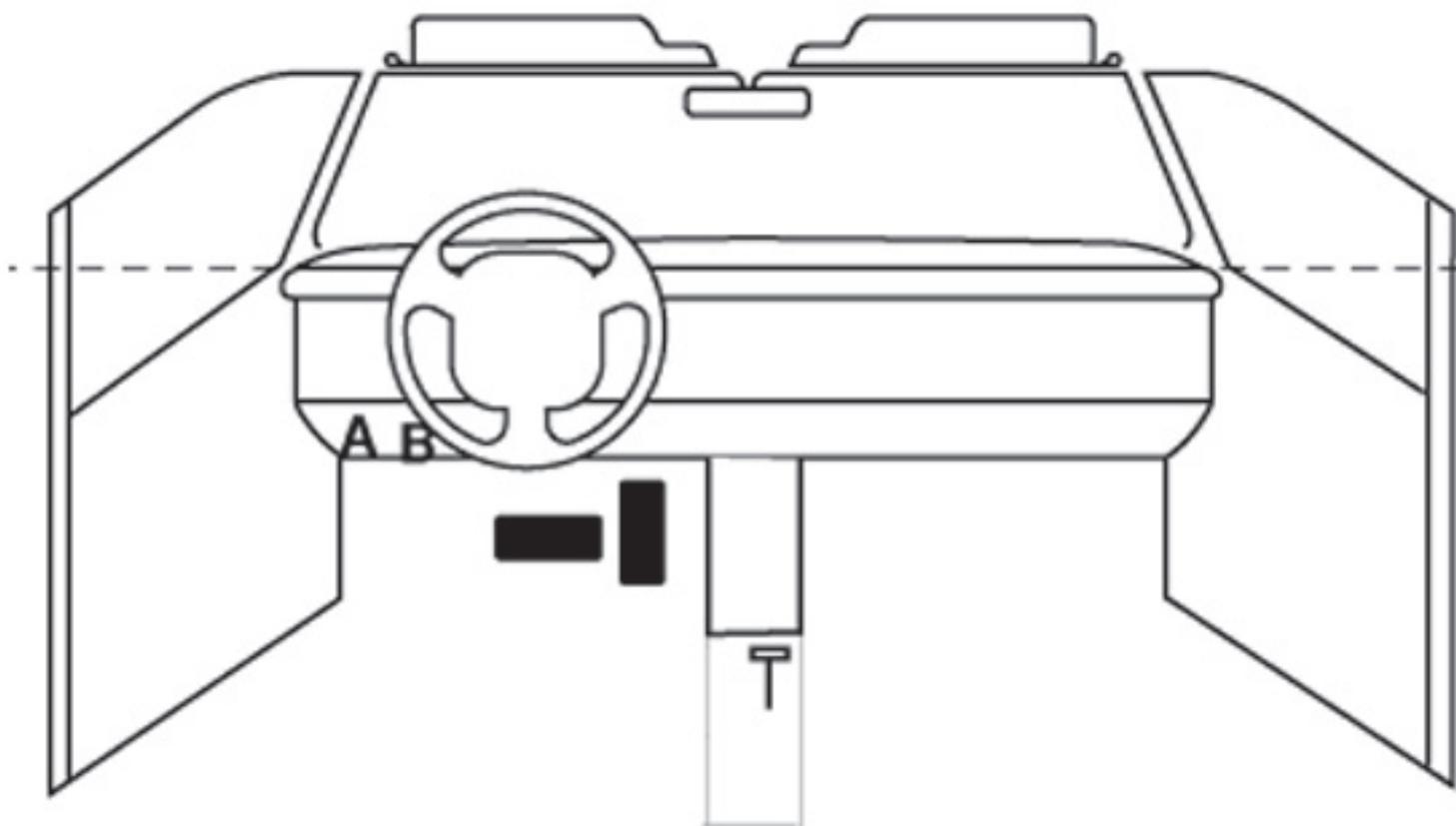


Driver Airbag Doors



Vents:  Y  N  
if yes, how many: 2

Tethers:  Y  N  
if yes, how many: 2



**A = knee bolster, scuffmark**

**B = parking brake release lever, deflected to left**

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	Instrument panel	76	–	73	=	3	to rear
11	Toe pan	126	–	123	=	3	to rear
			–		=		
			–		=		
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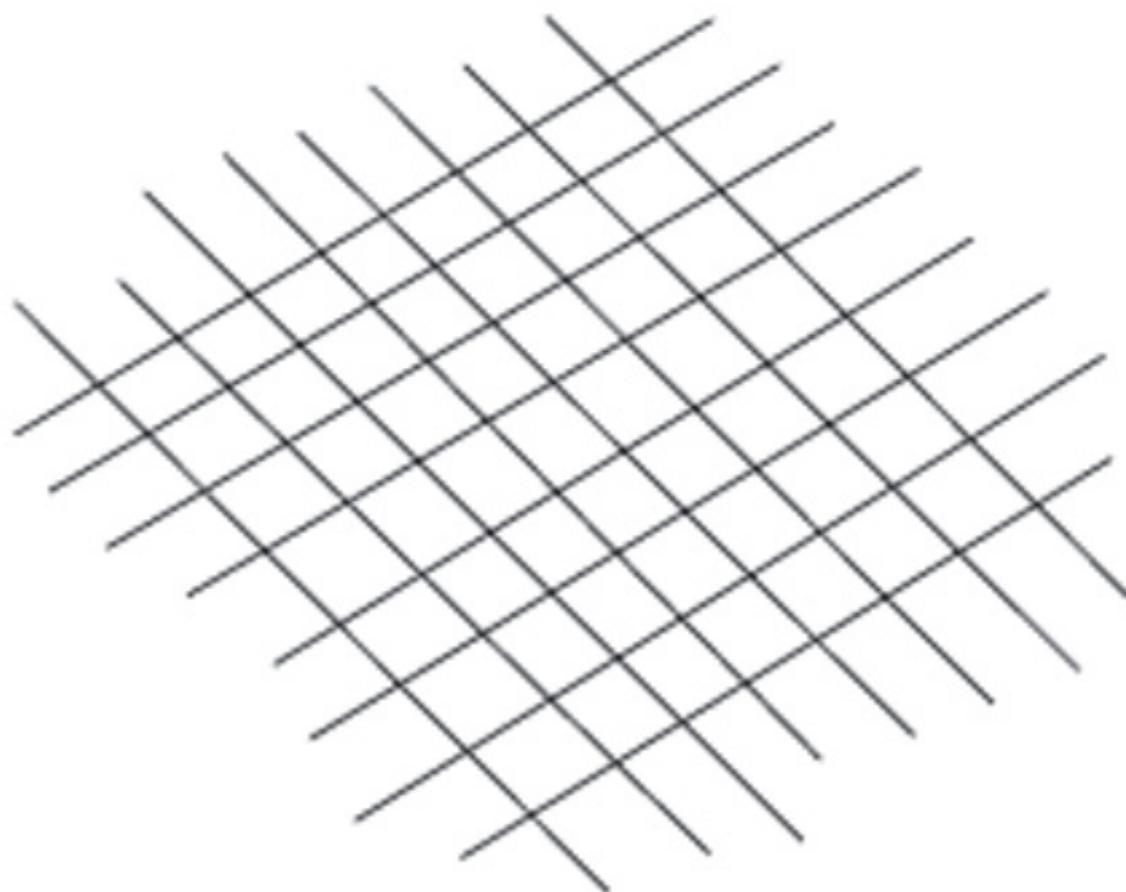
OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	Knee bolster	DR	Lt. LX	scuffmark	1
B	Parking brake release lever	DR	LX	deflected to left	1
C					
D					
E					
F					
G					

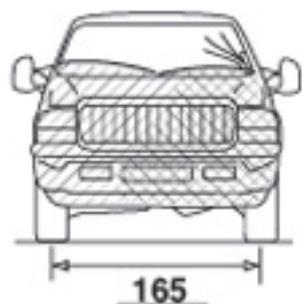


**Windshield cracked on left due to contact by rear hood edge**

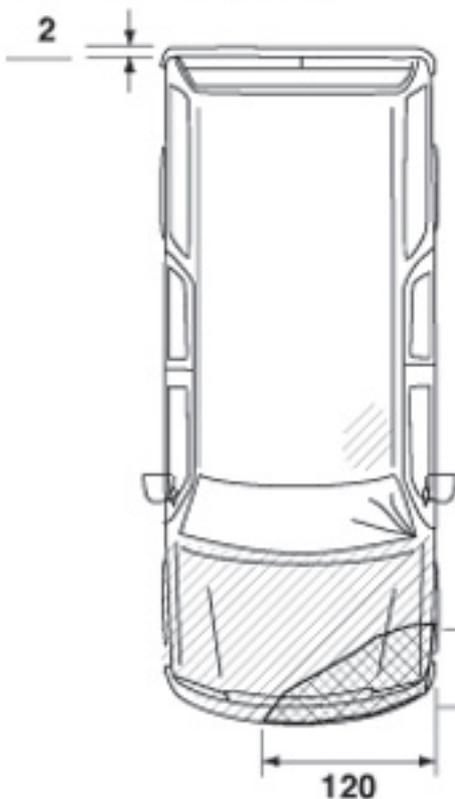
WINDSHIELD MARK ON CASE VEHICLE:



MEASUREMENTS IN CENTIMETERS

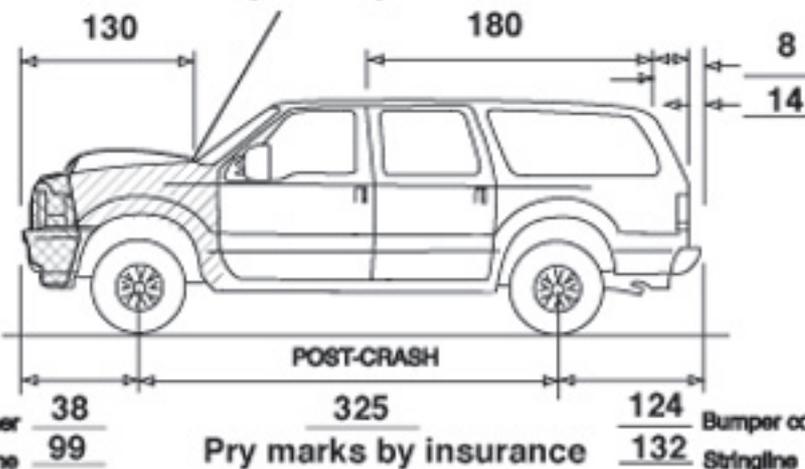


Max. crush to rear at right bumper corner



Width of direct damage to front bumper

Hinge cut by rescue

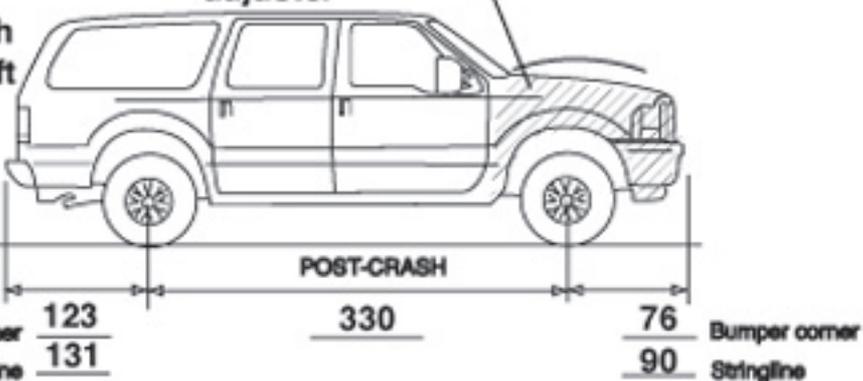


Pry marks by insurance adjuster

Max. crush to front left bumper corner

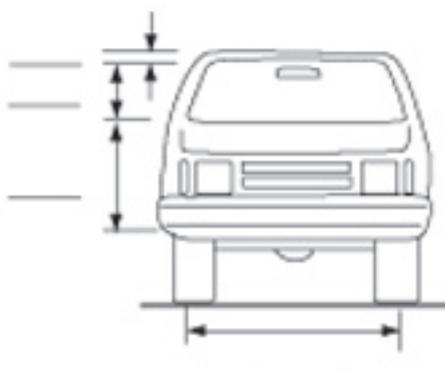
48

Bumper corner	123	76
Stringline	131	90

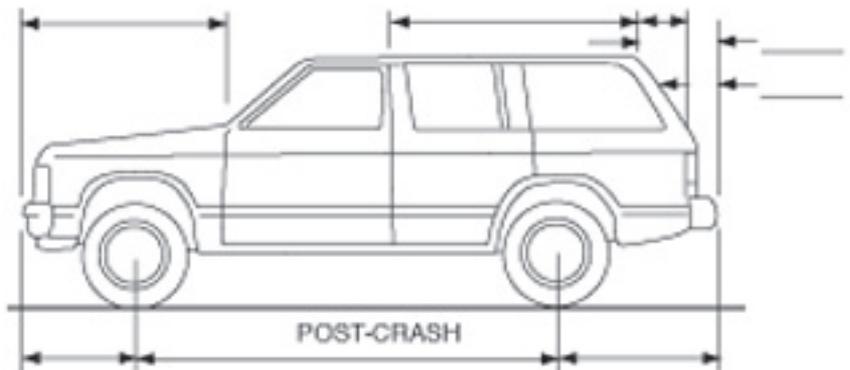
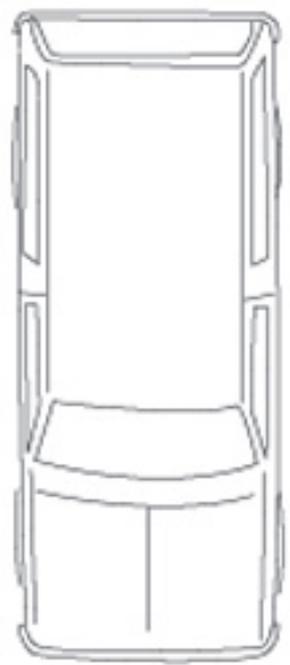
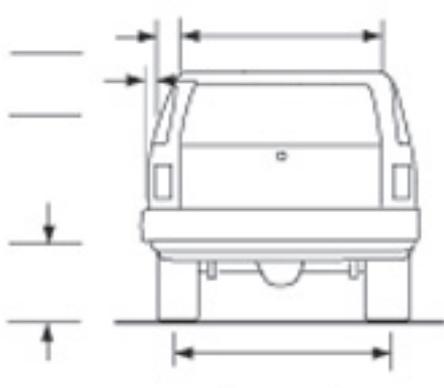


MEASUREMENTS IN CENTIMETERS

**This vehicle was not inspected.**

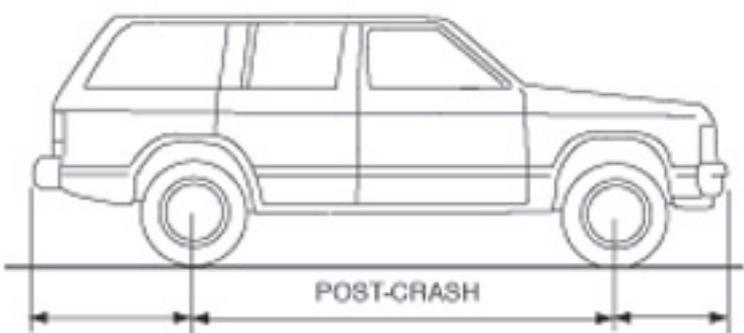


Original  
Bumper Height



Bumper corner  
Stringline

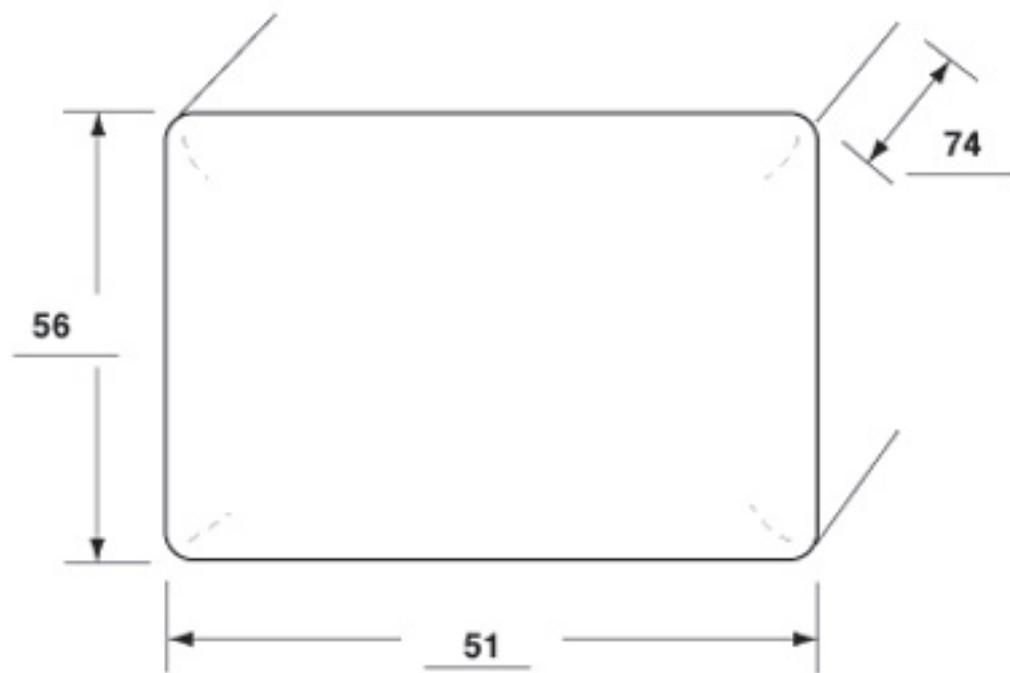
Bumper corner  
Stringline



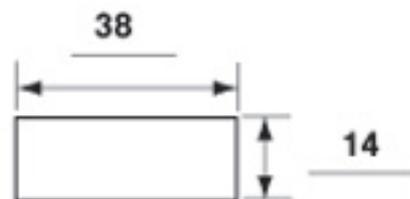
Bumper corner  
Stringline

Bumper corner  
Stringline

### Passenger Airbag



### Passenger Airbag Door



Vents:  Y  N  
if yes, how many: 2  
**3 and 9 o'clock on sides**

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



L-100 1040





LEAGUE



2000 1A2







ALLIED E28171











ALLIED E28171















































AIR BAG



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43

ART 342



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AIR BAG









DRIVER

















A close-up photograph of a car seat. The seat is upholstered in a light-colored, textured fabric. A grey seatbelt strap is visible, running diagonally across the seat. A grey, rectangular air bag cover is attached to the seat, positioned below the seatbelt. The cover has the words "AIR BAG" printed on it in a simple, sans-serif font. The lighting is bright, casting shadows on the seat and seatbelt.

AIR BAG



















WILDERNESS

WILDERNESS  
LT

CHEVROLET



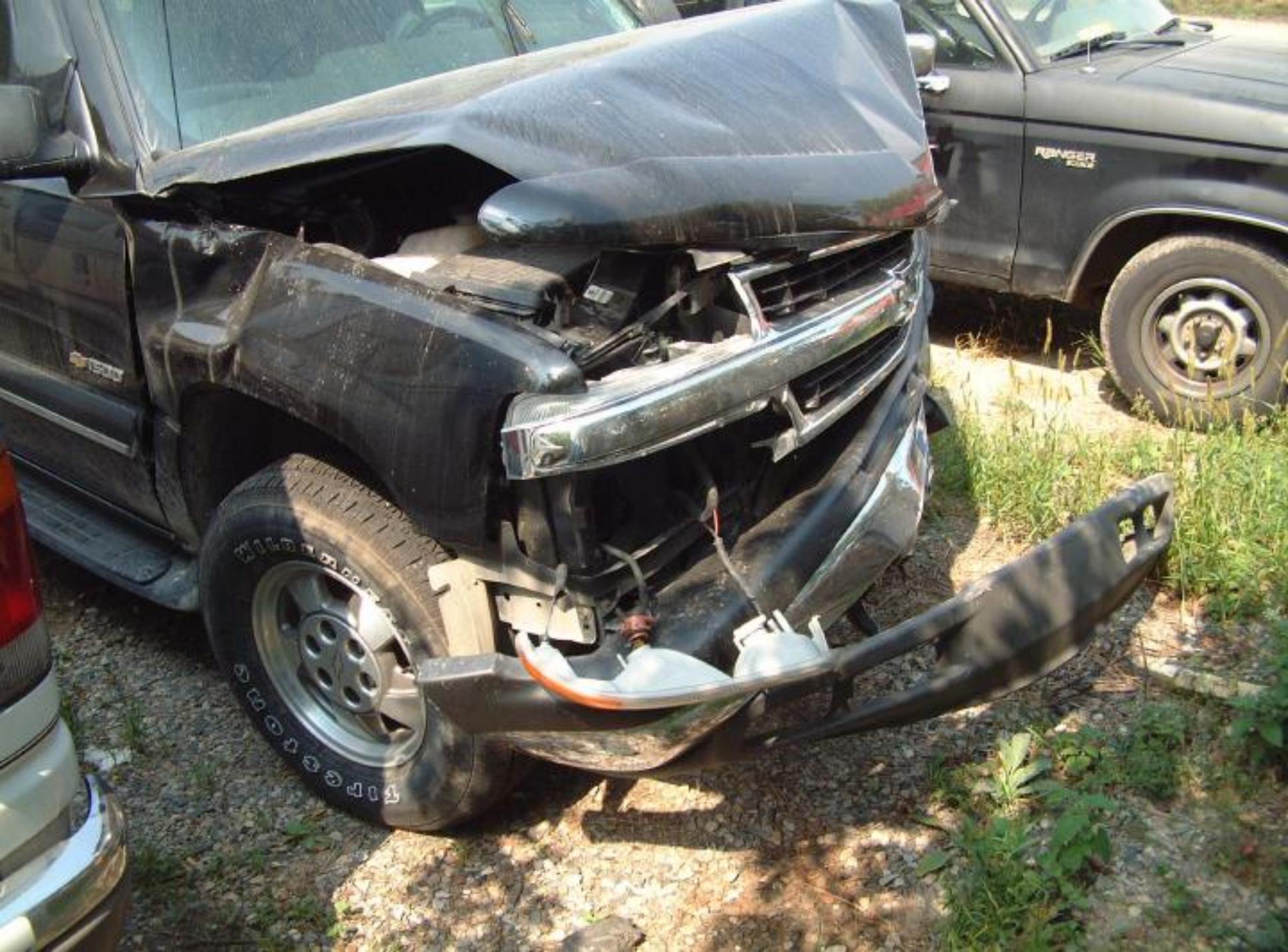


















F150

RENDER

WHEEL



 SUBURBAN

CHEVROLET

[Redacted license plate]









A close-up photograph showing a person's hand holding a dark, textured fabric strap. A small, white, rectangular label is attached to the strap with the handwritten text "Right Rear". The strap is connected to a dark, possibly plastic or metal, component that has some faint markings, including the letter "B". The background is dark and out of focus.

Right Rear