

Case 407 : Narrative

Case Vehicle (A): 2003 Chrysler
Type: Sebring LX, 4-door sedan
Driver: 65-year-old female
CDC: 12-FDEW-3

SITUATION

[1](#) [2](#) On a very stormy night, case vehicle (A) was traveling south at a driver-estimated speed of 55 mph (89 kph) in the southbound lane of a two-lane asphalt road, in a rural area. There were strong winds and heavy rain, it was dark and unlighted, and the speed limit was 55 mph (89 kph). Due to the strong wind, a dead tree had fallen from the west edge of the road and was lying across the southbound lane. As the driver of case vehicle (A) approached the fallen tree, she applied the brakes but was unable to prevent the front of the vehicle from striking the fallen tree. The vehicle was towed from the scene due to damage.

The police accident report (PAR) indicates B-level injuries for the driver and right-front passenger of case vehicle (A) and both refused transport to a local hospital for treatment. Approximately two hours after the crash, the driver went to a hospital emergency department for treatment.

GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

[3](#) The direct damage to the front of case vehicle (A) from the impact with the fallen tree was primarily [4](#) to the grille and hood above the bumper, although there was minor contact damage to the bumper cover. The damage began at the right-front corner and extended 150-cm across the entire front. The maximum frontal crush was 46 cm and occurred above the right-front bumper corner.

[5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) Using the WinSMASH crash-reconstruction program for the equivalent barrier speed and the average of crush profiles measured at the level of the bumper and above the bumper for case vehicle (A), the following impact severity was estimated for the frontal impact with the fallen tree.

		Estimated Velocity Change - kph (mph)		
Vehicle	Variable	Total	Longitudinal	Latitudinal
Case Vehicle (A)	EBS	20 (13)	-20 (-13)	0 (0)

DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

Exterior

[12](#) There were cracks in the right and left sections of the bumper cover along with scratches and tree bark, but there was only 1-cm of crush to the bumper at the right-front corner. [13](#) [14](#) [15](#) The majority of

the damage occurred above the bumper. The right section of the engine compartment was crushed rearward and the right headlight assembly was demolished. The right and center sections of the hood were severely crushed and pushed up and to the rear, the hood latch was damaged and released, the right hood hinge was bent up, and the left hood hinge was bent to the left. [16](#) The rear edge of the hood was elevated and it contacted and cracked the lower-right corner of the windshield. [17](#) There was a dense circular pattern of cracks in the center of the right section of the windshield from contact by the deploying airbag and [18](#) there were cracks in the lower-left section of the windshield from contact by a tree branch.

[19](#) On the right side, the fender was crushed rearward and pushed against the lower portion of the A-pillar, and the rear section of the fender was pulled out. [20](#) The right-front wheel was pushed to the rear, resulting in a 3-cm reduction in the right wheelbase. The right-front tire was flat and tree bark was embedded between the rubber and the hubcap. [21](#) There was no damage to the upper or lower portions of the right A-, B- or C-pillars, the right-side doors were undamaged and operational, and the right-side glazing was intact. [22](#) There was no damage to the right-rear wheel and there was no [23](#) damage to the right quarter panel.

[24](#) On the left side, the fender was buckled. [25](#) There was no damage to the upper or lower portions of the left A-, B- or C-pillars, the left-side doors were undamaged and operational, and the left-side glazing was intact. The left-side rearview mirror was broken, probably from contact with a tree branch. [26](#) [27](#) There was no damage to the left-side wheels and there was no change in the left wheelbase. [28](#) There was no damage to the left quarter panel or to [29](#) the rear of case vehicle (A).

Interior

[30](#) This vehicle was equipped with steering-wheel and dash-mounted frontal-impact airbags, which deployed during the frontal impact with the tree. [31](#) In the driver area, there was no damage to the steering-wheel airbag, [32](#) but there were yellow and black streaks on the center section of the airbag fabric from an unknown source. [33](#) [34](#) The cover of the airbag module/hub of the steering wheel was pulled up from the steering-wheel rim and [35](#) [36](#) the upper half of the steering-wheel rim was deflected slightly forward. There was no rotation of the steering column. [37](#) There was no damage to the roof or roof headliner in the driver area and there was no damage to the interior of the left A-pillar. [38](#) There were a few cracks radiating across the windshield forward of the steering wheel and along the left A-pillar. [39](#) There was no damage to the upper or mid portions of the instrument panel or to the driver knee bolster, [40](#) but there was a scuffmark on the left portion of the driver bolster. [41](#) There was no damage to the floor in the driver area and [42](#) there was no deformation of the foot controls. There was also no damage to the interior panel of the driver door.

[43](#) In the center-front area, there was no damage to the roof, to the windshield header, or to the rearview mirror, but there were a few cracks in the center section of the windshield. [44](#) There was no damage to the center console or to the [45](#) floor console between the front seats.

[46](#) In the right-front seating area, there was no damage to the roof, to the windshield header, or to the right A-pillar. [47](#) [48](#) There was no damage to the dash-mounted airbag or module cover, but there was a dense pattern of circular-shaped cracks in the windshield due to contact by the deploying dash-mounted airbag. [49](#) There was no damage to the glove compartment but there were scuffmarks on the glovebox. [50](#) There was no damage to the floor in the right-front seating area.

There were no intrusions into the occupant space.

OCCUPANT KINEMATICS AND INJURIES

[51](#) The 163-cm, 100-kg (5-ft 4-in, 220-lb) 65-year-old female driver was using the available three-point belt [31](#) and the steering-wheel airbag deployed during the frontal impact. Belt use at the time of the crash is indicated by [52](#) [53](#) loading marks on the shoulder-belt webbing and [54](#) belt-loading marks on the continuous loop of the latch plate, but [55](#) there were no loading marks on the D-ring. [56](#) [57](#) Also, the belt pretensioner was activated and the webbing was locked in an extended position. [58](#) The shoulder-belt anchor point on the B-pillar was adjusted to a mid position and the driver reportedly had adjusted the seat to a mid-to-rearward seat-track position and was braking with her right foot at the time of impact with the fallen tree.

During the frontal impact, the driver moved forward relative to the vehicle interior, into the belt restraints and [59](#) airbag. She sustained an abrasion across the upper aspect of the left breast and contusions across the upper aspect of the right breast, probably from loading by the shoulder belt, but possibly from contact by the deploying airbag. She sustained contusions across the abdomen from loading by the lap belt. [60](#) Scuffmarks on the left section of the driver knee bolster indicate that her left knee contacted the bolster but she did not sustain any knee, thigh, or hip injuries.

[61](#) The 175-cm, 82-kg (5-ft 9-in, 180-lb) 79-year-old male right-front passenger was using the available three-point belt and the dash-mounted airbag deployed during the frontal impact. [62](#) [63](#) Loading marks on the shoulder-belt webbing, [64](#) belt-loading marks on the D-ring, and [65](#) loading marks on the continuous loop are evidence of belt use at the time of the crash. [66](#) Also, the belt pretensioner was activated and the belt webbing was locked in an extended position. [67](#) The shoulder-belt anchor point on the B-pillar was adjusted to a mid position and the passenger reportedly had adjusted the seat to a rearward seat-track position.

During the frontal impact, the right-front passenger moved forward relative to the vehicle interior, into the belt restraints and airbag. He sustained an abrasion to the posterior aspect of the right forearm about 5-cm below the elbow, probably from contact with the interior panel of the right-front door. [68](#) Scuffmarks on both sides of the glove compartment indicate that the knees made contact, but no knee, thigh, or hip injuries were reported.

The following tables and attached drawings [69](#) [70](#) summarize the injuries for the restrained occupants.

Occupant: Driver	Age: 65 years	Gender: Female		
Restraints: 3-point belt with pretensioner; steering-wheel airbag	Stature: 163 cm (5 ft, 4 in)	Mass: 100 kg (220 lb)		
Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
—	—	—	—	—
Abrasion, upper aspect of left breast	1	—	Shoulder belt	Airbag
Contusions, upper aspect of right breast	1	—	Shoulder belt	Airbag
Contusions, across the abdomen	1	Lap	—	—

		belt		
Maximum A.I.S. Level	1	—	—	—
Injury Severity Score	1	—	—	—

Occupant: Right front	Age: 79 years	Gender: Male		
Restraints: 3-point belt with pretensioner; dash-mounted airbag	Stature: 175 cm (5 ft, 9 in)	Mass: 82 kg (180 lb)		
Injury Description	A.I.S.	Injury Source		
—	—	Definite	Probable	Possible
Abrasion, posterior aspect of right forearm, 5-cm below elbow	1	—	Interior panel of right-front door	—
Maximum A.I.S. Level	1	—	—	—
Injury Severity Score	1	—	—	—

CASE NO.: 407

CASE VEHICLE: 2003 Chrysler

TYPE: Sebring LX, 4-door sedan

OCCUPANT: (Driver) 65-year-old female

STATURE: 163 cm (5 ft, 4 in) MASS: 100 kg (220 lb)

RESTRAINTS: 3-point belt with pretensioner; steering-wheel airbag

SEVERITY: MAIS - 1 ISS - 1

Contusions, upper
aspect of right breast
(1)



Abrasion, upper
aspect of left breast
(1)

Contusions, across
the abdomen
(1)



CASE NO.: 407

CASE VEHICLE: 2003 Chrysler

TYPE: Sebring LX, 4-door sedan

OCCUPANT: (Right front) 79-year-old male

STATURE: 175 cm (5 ft, 9 in) MASS: 82 kg (180 lb)

RESTRAINTS: 3-point belt with pretensioner; steering-wheel airbag

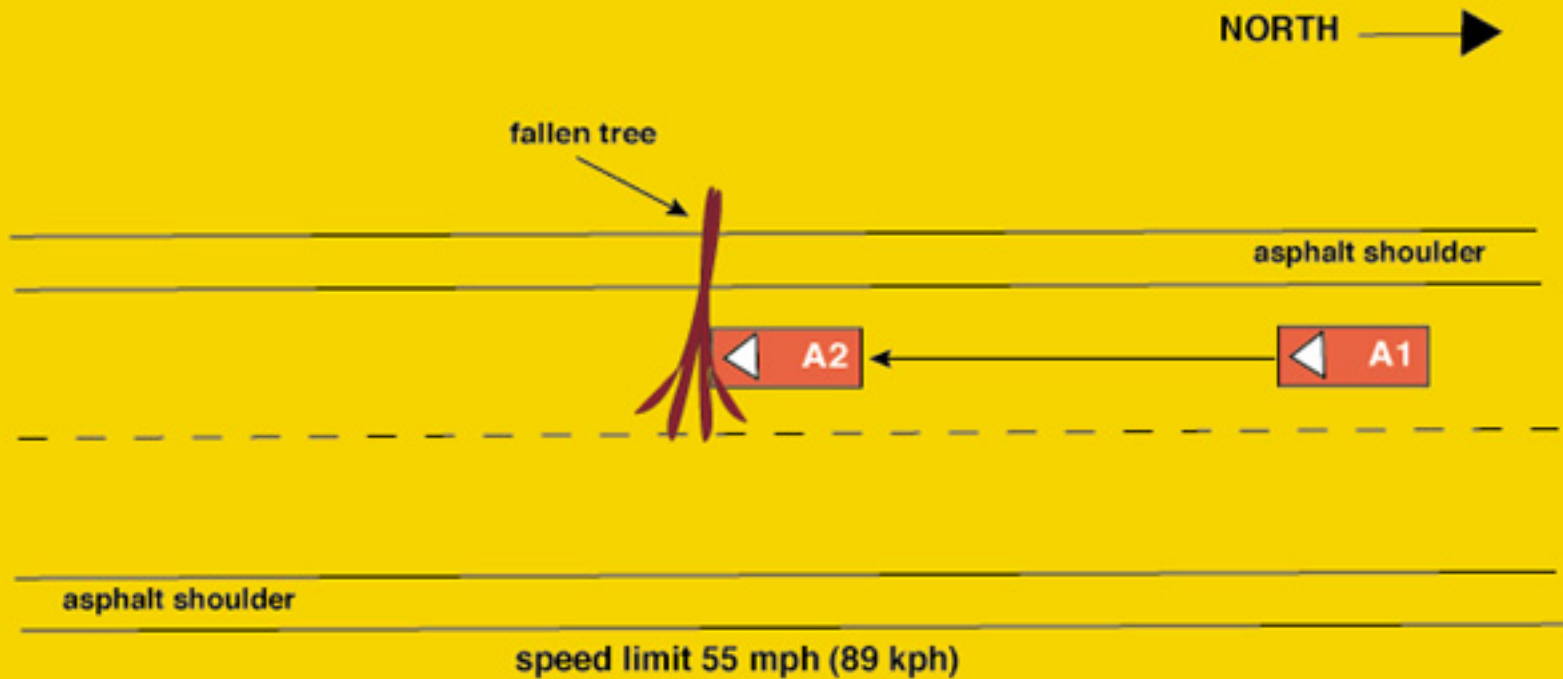
SEVERITY: MAIS - 1 ISS - 1



Abrasion, posterior
aspect of right forearm,
5-cm below elbow
(1)

Case No.: 407
Case Veh. (A): 2003 Chrysler
Type: Sebring LX, 4-door sedan
Driver: 65-year-old female

Weather: Heavy rain/strong winds
Road Surface: Wet
Road Construction: Asphalt
Light Condition: Dark/unlighted



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	more
V207 — Limited Access Highway	0	No	more
V208 — Road Total Lanes	2	2 lanes	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	6	86-90 km/h .. 55 mph	more
V219 — Precipitation Type	1	Rain	more
V220 — Precipitation Rate	3	Heavy	more
V221 — Temperature	9	Unknown	more

V222 — Crosswind	3	Gusty and strong	more
V223 — Light Conditions	5	Dark, unlighted	more
V224 — Mechanical Malfunction Mention	0	No	more
V225 — Case Vehicle and Object	1	Yes	more
V226 — Case Vehicle Rollover	0	No	more
V227 — Case Vehicle Ran Off Roadway	0	No	more
V228 — Moving Case Vehicle/Contacted Moving Vehicle	0	No	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	0	0 vehicles	more
V232 — Any Fire in Crash	0	No	more
V233 — Max Police Severity-PAR	2	B - Non-Incapacitating 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	none	—	—
V302 — Other Vehicle Manufacturer/Body Code	99898	—	—
V303 — Other Vehicle Manufacturer	998	No Other Vehicle	more
V304 — Other Vehicle Body Code	98	No Other Vehicle	more
V305 — Other Vehicle Make/Model	0000	No other vehicle	more
V306 — Other Vehicle Model Year	9999	No other vehicle	more
V307 — Other Vehicle Mass	999998	No other vehicle	more
V308 — Other Vehicle Number	8	No other vehicle	more
V309 — Other Vehicle Number of Occupants	98	No other vehicle	more
V310 — Other Vehicle Traveling Speed	999	Unknown	more

V311 — Highest Police Injury Severity	8	Unoccupied Vehicle	more
V312 — Other Vehicle Type	98	No Other Vehicle	more
V313 — Other Vehicle Wheelbase (cm)	998	No other vehicle	more
V314 — Average Track Width	999	Unknown	more
V315 — Overall Length	999	Unknown	more
V316 — Overall Width (OAW)	999	Unknown	more
V317 — Front Overhang (FOH)	999	Unknown	more
V318 — Rear Overhang (ROH)	999	Unknown	more
V319 — Undeformed End Width (UEW)	999	Unknown	more
V320 — Engine Displacement	9.9 l	—	—
V321 — Engine: Number of Cylinders	99	Unknown	more
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	1C3EL46XX3N5	—	—
V402 — Manufacturer/Body Code	13128	—	—
V403 — Vehicle Manufacturer	131	Chrysler	more
V404 — Vehicle Body Code	28	—	—
V405 — Make/Model Code	1250	—	—
V406 — Model Year	2003	—	—
V407 — Vehicle Mass	001452 kg	—	—
V408 — Odometer Reading	888888	—	—
V409 — Number of Occupants	02	—	—
V410 — Traveling Speed	089 kph	—	—
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
V415 — Transmission Lever Location	2	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	274 cm	—	—
V427 — Anti-lacerative Glass	0	None	more
V428 — Average Track Width	153 cm	—	—
V429 — Overall Length	486 cm	—	—
V430 — Overall Width (OAW)	179 cm	—	—
V431 — Front Overhang	101 cm	—	—
V432 — Rear Overhang	111 cm	—	—
V433 — Undeformed End Width (UEW)	150 cm	—	—
V434 — Engine Displacement	2.4 l	—	—
V435 — Engine: Number of Cylinders	04	—	—
V436 — Direct Damage Length (DDL)	150 cm	—	—
V437 — Front End Overlap % (FEO)	98	98% or more	more
V438 — Vehicle Overlap % (VOL)	98	98% or more	more

Case Vehicle Damage Description

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Variable Number and Name	Code Value	Code Description	Other Options
V501 — Maximum Crush - Front	046 cm	—	—
V502 — Maximum Crush - Right Side	000 cm	No crush (or less than 1 cm.)	more
V503 — Maximum Crush - Rear	000 cm	No crush (or 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
	1		

V507 — Are Events In Chronological Order		Yes	more
V508 — Event 1 Impact Location	1	On Roadway	more
V509 — Event 1 Impact Configuration	17	FRONT of case veh - object	more
V510 — Event 1 Object/Vehicle Contacted	74	Fallen object (e.g. obj from other veh, tree)	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 contacted	more
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	1	Investigator	more

- Estimated By			
V532 — Primary CDC Case Vehicle -crush	046	—	—
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	04	D - Distributed (Side or End)	more
V536 — Primary CDC Case Vehicle letter 3 #1	05	E - Everything below belt line	more
V537 — Primary CDC Case Vehicle letter 4 #1	23	W - Wide impact area	more
V538 — Primary CDC Case Vehicle Extent #1	03	Extent 3	more
V539 — Primary CDC Case Vehicle -CDC #1	12FDEW3	—	—
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	998	Not Applicable	more
V548 — Primary CDC Contacted Vehicle - Estimated By	1	Investigator	more
V549 — Primary CDC Contacted Vehicle -crush	998	Not Applicable	more
V550 — Primary CDC Contacted Vehicle -clock #1	98	Not Applicable	more
V551 — Primary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	more
V552 — Primary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	more
V553 — Primary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	more

V554 — Primary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	more
V555 — Primary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	more
V556 — Primary CDC Contacted Vehicle -CDC #1	9800000	—	—
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 By	8	Not applicable (no vehicle/no impact)	more
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	00	Missing Data/Not applicable	more

Vehicle letter 2 #2			
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	888	N/A	more
V603 — Primary Case Vehicle Reconstructed Longitudinal Delta-V	8888	—	—
V604 — Primary Case Vehicle Reconstructed Lateral Delta-V	8888	—	—
V605 — Primary Case Vehicle Reconstructed Crush Energy	8888	—	—
V606 — Primary Impact Case Vehicle - reconstruction	09	Yielding fixed object	more
V607 — Primary Case Vehicle Reconstruction Mode	5	Not reconstructed	more
V608 — Primary Contacted Vehicle Reconstructed Total Delta-V	888	N/A	more
	8888		

V609 — Primary Contacted Vehicle Reconstructed Longitudinal Delta-V			—	—
V610 — Primary Contacted Vehicle Reconstructed Lateral Delta- V	8888		—	—
V611 — Primary Contacted Vehicle Reconstructed Crush Energy	8888		—	—
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 —	88			

Secondary Case Vehicle Reconstruction Note		—	—
V618 — Secondary Case Vehicle Reconstruction Mode	8	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	020 kph	—	—
V625 — Primary Case Vehicle	-020 kph		

Reconstructed Longitudinal EBS		—	—
V626 — Primary Case Vehicle Reconstructed Lateral EBS	0000 kph	—	—
V627 — Primary Case Vehicle Reconstructed Crush Energy	0026 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	888	N/A	more
V631 — Primary Contacted Vehicle Reconstruction Longitudinal EBS	8888	—	—
V632 — Primary Contacted Vehicle Reconstruction Lateral EBS	8888	—	—
V633 — Primary Contacted Vehicle Reconstruction Crush Energy	8888	—	—

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	8888	—	—

EBS			
V643 — Secondary Contacted Vehicle Reconstruction Lateral EBS	8888	—	—
V644 — Secondary Contacted Vehicle Reconstruction Crush Energy	8888	—	—
V645 — Case Vehicle Reconstructed Impact Number	1	—	—
V646 — Case Vehicle Impact 1 Plane	5	Other	more
V647 — Case Vehicle Impact 1 Direct Damage Length [DDL]	150 cm	—	—
V648 — Case Vehicle Impact 1 Max Crush	046 cm	—	—
V649 — Case Vehicle Impact 1 Field-L	136 cm	—	—
V650 — Case Vehicle Impact 1 C1	000 cm	No Crush	more
V651 — Case Vehicle Impact 1 C2	000 cm	No Crush	more
V652 — Case Vehicle Impact 1 C3	000 cm	No Crush	more
V653 — Case Vehicle Impact 1 C4	003 cm	—	—

V654 — Case Vehicle Impact 1 C5	015 cm	—	—
V655 — Case Vehicle Impact 1 C6	024 cm	—	—
V656 — Case Vehicle Impact 1 +/- D	0000 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 Vehicle Impact 2 +/- D	9998	—	—
V669 — Other Vehicle Reconstructed Impact Number	9	Unknown	more
V670 — Other Vehicle Impact 1 Plane	9	Unknown	more
V671 — Other Vehicle Impact 1 Direct Damage Length [DDL]	999	Unknown	more
V672 — Other Vehicle Impact 1 Max Crush	999	Unknown	more
V673 — Other Vehicle Impact 1 Field-L	999	Unknown	more
V674 — Other Vehicle Impact 1 C1	999	Unknown	more
V675 — Other Vehicle Impact 1 C2	999	Unknown	more
V676 — Other Vehicle Impact 1 C3	999	Unknown	more
V677 — Other Vehicle Impact 1 C4	999	Unknown	more
V678 — Other Vehicle Impact 1 C5	999	Unknown	more
V679 — Other Vehicle Impact 1 C6	999	Unknown	more

V680 — Other Vehicle Impact 1 +/- D	9999	—	—
V681 — Other Vehicle Reconstructed Impact Number	9	Unknown	more
V682 — Other Vehicle Impact 2 Plane	9	Unknown	more
V683 — Other Vehicle Impact 2 Direct Damage Length [DDL]	999	Unknown	more
V684 — Other Vehicle Impact 2 Max Crush	999	Unknown	more
V685 — Other Vehicle Impact 2 Field-L	999	Unknown	more
V686 — Other Vehicle Impact 2 C1	999	Unknown	more
V687 — Other Vehicle Impact 2 C2	999	Unknown	more
V688 — Other Vehicle Impact 2 C3	999	Unknown	more
V689 — Other Vehicle Impact 2 C4	999	Unknown	more
V690 — Other Vehicle Impact 2 C5	999	Unknown	more
V691 — Other Vehicle Impact 2 C6	999	Unknown	more
V692 — Other Vehicle Impact 2 +/- D	9999	—	—

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	P20560R16	—	—
V718 — Right Front Tire Size	P20560R16	—	—
V719 — Right Rear Tire Size	P20560R16	—	—
V720 — Left Rear Tire Size	P20560R16	—	—

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	322	Within frame/centered laterally - within vertically	more
V803 — Main Filler Cap Location	113	Left of frame laterally - above vertically	more



V804 — Main Tank Material	9	Unknown	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	1	Yes	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	1	Yes	more
V1111 — Edge Penetrated Windshield	0	No	more
V1112 — Hood Latch Location	1	Front of Vehicle	more
V1113 — Eng/Transmissn Mount Separation	0	No	more
V1114 — Steerng Column Flex Coupling	9	Unknown if equipped	more
V1115 — Steerng Column Coupling Damaged	9	Unknown	more
V1116 — Steerng 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 Separation	0	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	8	Not applicable	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	0	No	more
V1141 — Lower Right A-pillar Separation	0	No	more
V1142 — Upper Right B-pillar Separation	0	No	more
V1143 — Lower Right B-pillar Separation	0	No	more
V1144 — Upper Right C-pillar Separation	0	No	more
V1145 — Lower Right C-pillar	0	No	more

Separation			
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	0	No	more
V1151 — Right Rear Door Jammed Closed	0	No	more
V1152 — Van Rear Door Type	8	Not applicable (not a van)	more
V1153 — Windshield Cracked		Yes	more
V1154 — Windshield Broken	0	No	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

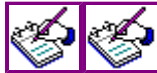
**Case Vehicle
Steering
Column/Rim**

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Variable Number and Name	Code Value	Code Description	Other Options
V1201 — Steering Wheel Rim Damage	1	Deformed slightly	more
V1202 — Number of Steering Wheel Spokes	4	4 spokes	more
V1203 — Steering Wheel Spoke Damage	0	None	more

V1204 — Column Tilt Feature	3	Middle	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	2	Airbag	more

Case Vehicle Intrusion



Click for intrusion figures

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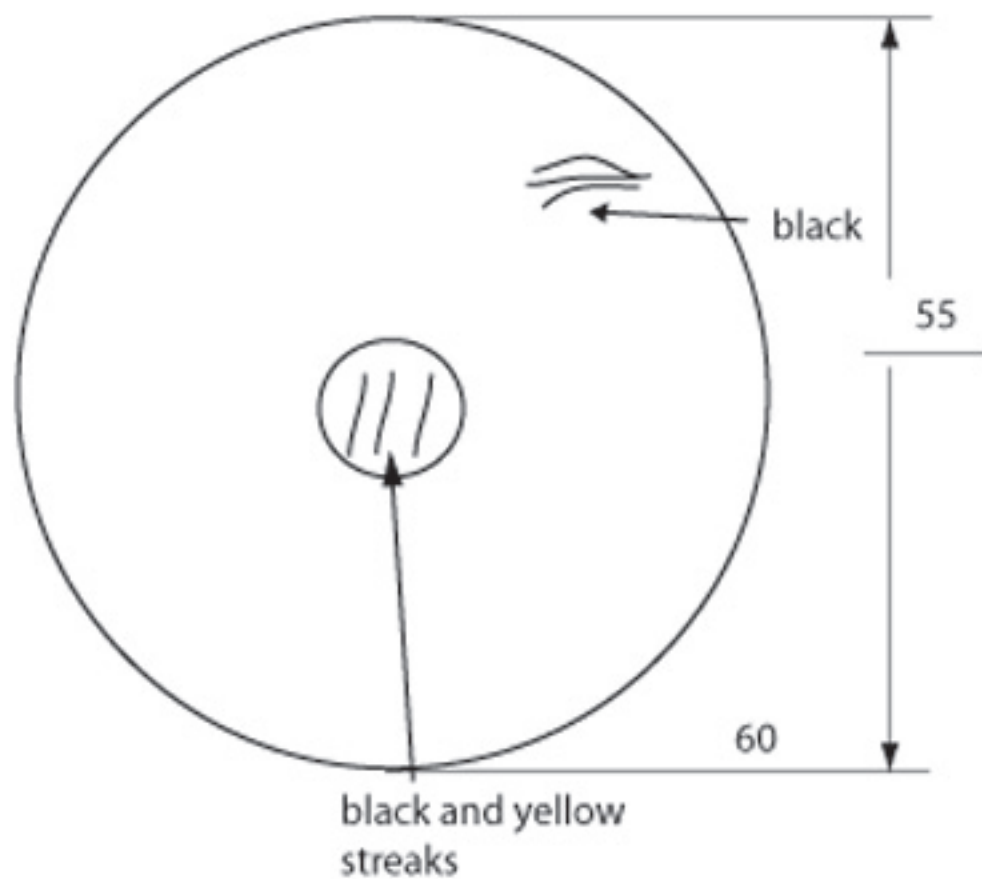
Variable Number and Name	Code Value	Code Description	Other Options
V1301 — Occupant Compartment Intrusion	0	No	more
V1302 — Was Intrusion Catastrophic	8	Not applicable	more
V1303 — Intrusion Number 01	00	No Intrusion, None	more
V1304 — Intrusion 01 Occupant Space Number	00	No Intrusion, None	more
V1305 — Intrusion 01 Intruding Object	00	No Intrusion, None	more
V1306 — Intrusion 01 Assoc Event Number	0	No Intrusion, None	more
V1307 — Intrusion 01 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
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	99	Contact, injury unknown or data not collected	more
V1314 — Intrusion Number 02	00	No Intrusion, None	more
V1315 — Intrusion 02 Occupant Space Number	00	No Intrusion, None	more
V1316 — Intrusion 02 Intruding Object	00	No Intrusion, None	more
V1317 — Intrusion 02 Assoc Event Number	0	No Intrusion, None	more
V1318 — Intrusion 02 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
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	99	Contact, injury unknown or data not collected	more
V1325 — Intrusion Number 03	00	No Intrusion, None	more
V1326 — Intrusion 03 Occupant Space Number	00	No Intrusion, None	more
V1327 — Intrusion 03 Intruding Object	00	No Intrusion, None	more
V1328 — Intrusion 03 Assoc Event Number	0	No Intrusion, None	more
V1329 — Intrusion 03 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
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	99	Contact, injury unknown or data not collected	more
V1336 — Intrusion Number 04	00	No Intrusion, None	more
V1337 — Intrusion 04 Occupant Space Number	00	No Intrusion, None	more
V1338 — Intrusion 04 Intruding Object	00	No Intrusion, None	more
V1339 — Intrusion 04 Assoc Event Number	0	No Intrusion, None	more
V1340 — Intrusion 04 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
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	99	Contact, injury unknown or data not collected	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

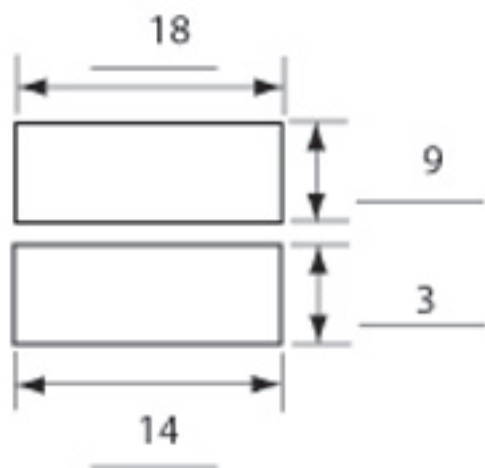
Driver Airbag



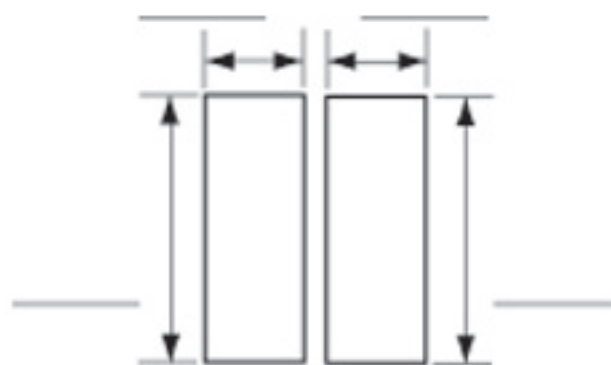
Vents: Y N
if yes, how many: 1
1 vent at 11 o'clock

Tethers: Y N
if yes, how many: 2

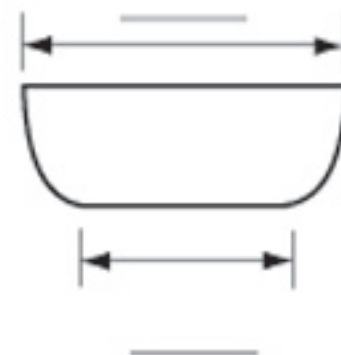
Driver Airbag Doors



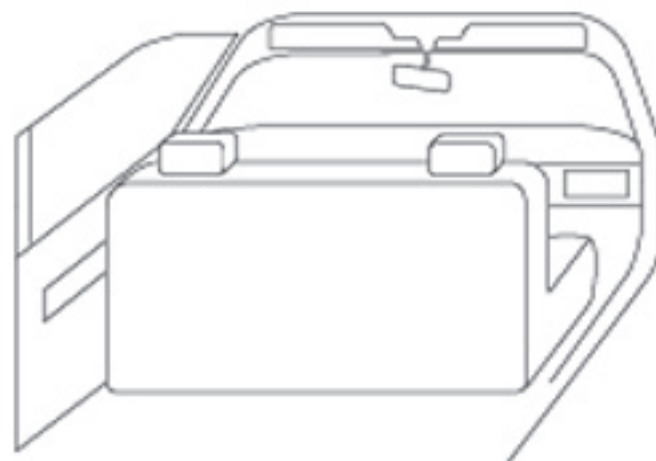
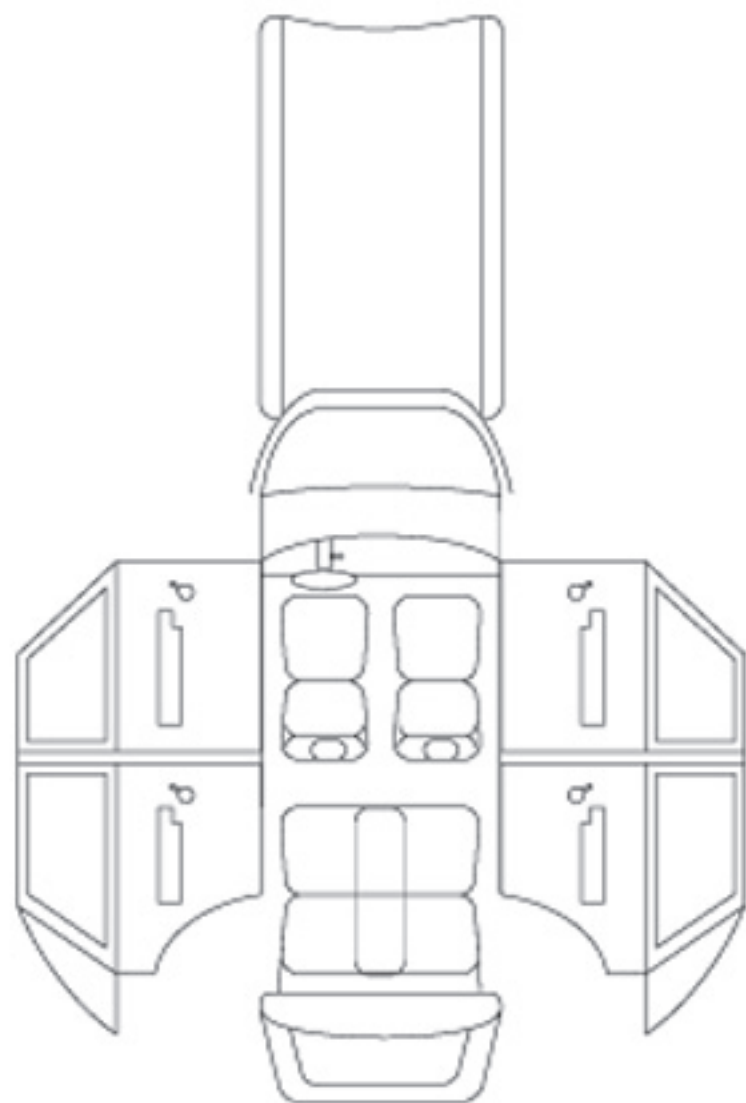
H-Pattern



I-Pattern

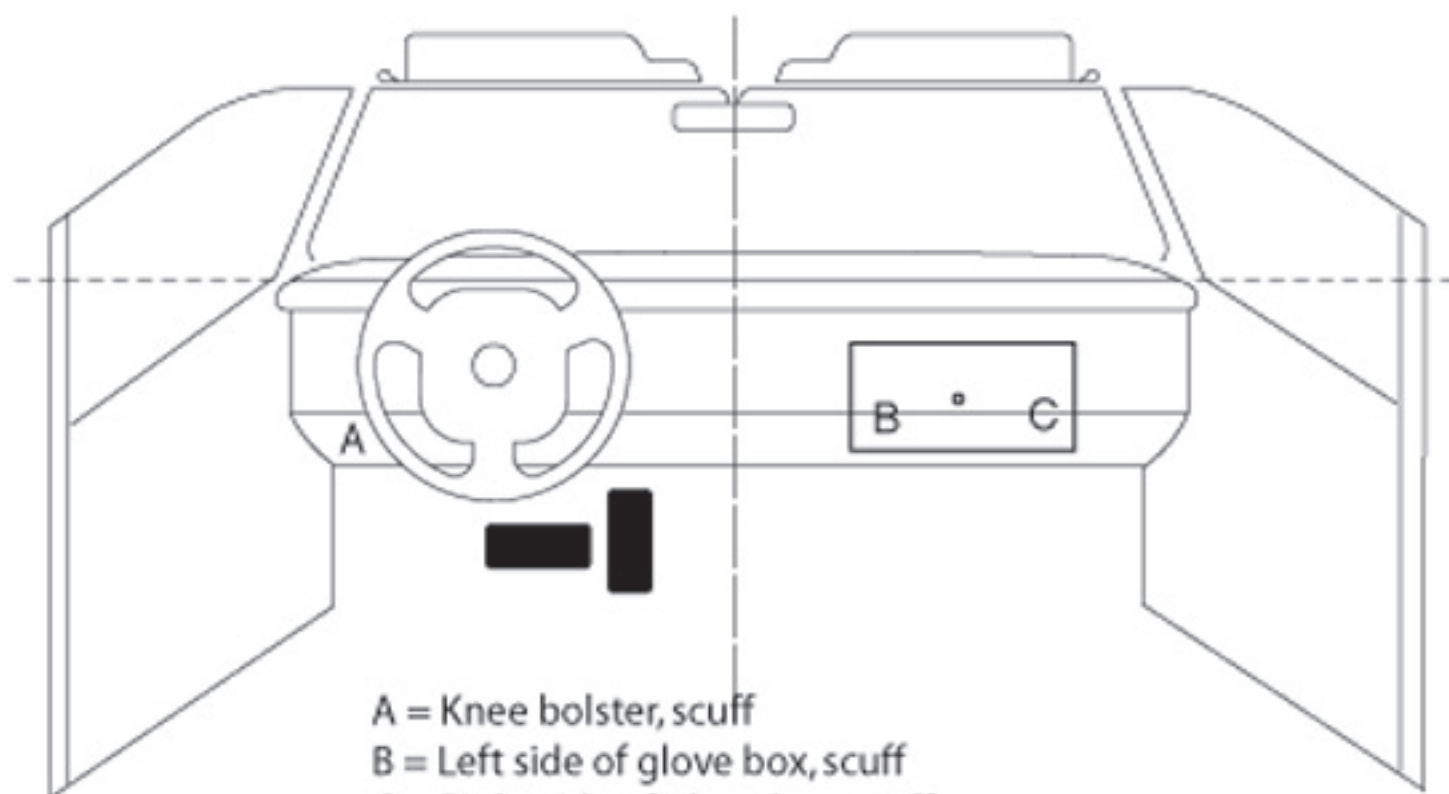


Single Door



DR Belt: Yes
 Pretensioner activated and locked in an extended position
 Mark on webbing from D-ring
 Continuous loop is abraded

RF Belt: Yes
 Pretensioner activated and locked in an extended position
 Mark on webbing from D-ring
 Scratches on D-ring



A = Knee bolster, scuff
 B = Left side of glove box, scuff
 C = Right side of glove box, scuff

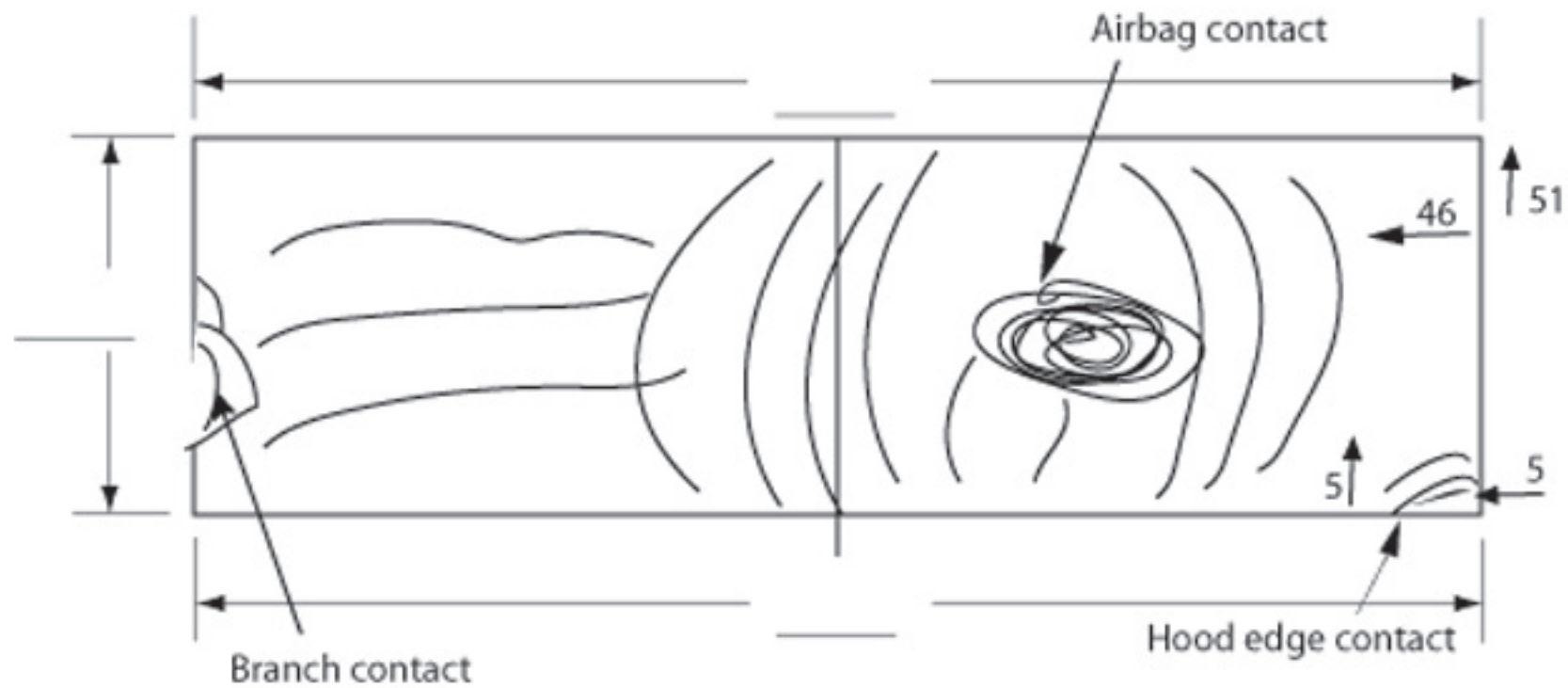
1 = Definitely 2 = Probably 3 = Possible

INTRUSION IT-1

Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters)			Dominant Crush Direction
		Comparison Value	–	Intruded Value = Intrusion	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	

OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	Left knee bolster	1	Knee	Scuff	1
B	Left side glove box	2	Knee	Scuff	1
C	Right side glove box	2	Knee	Scuff	1
D					
E					
F					
G					
H					
I					



WINDSHIELD MARK ON CASE VEHICLE:



SAFEGUARD

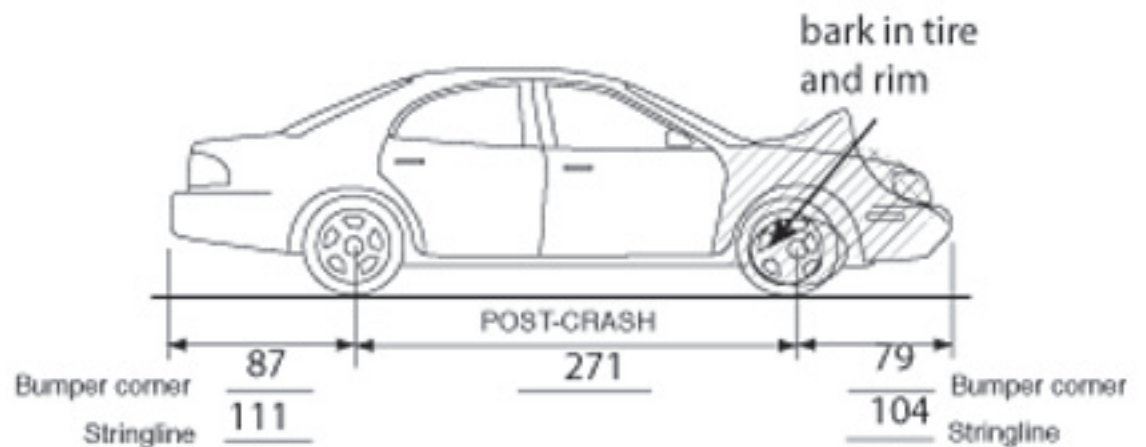
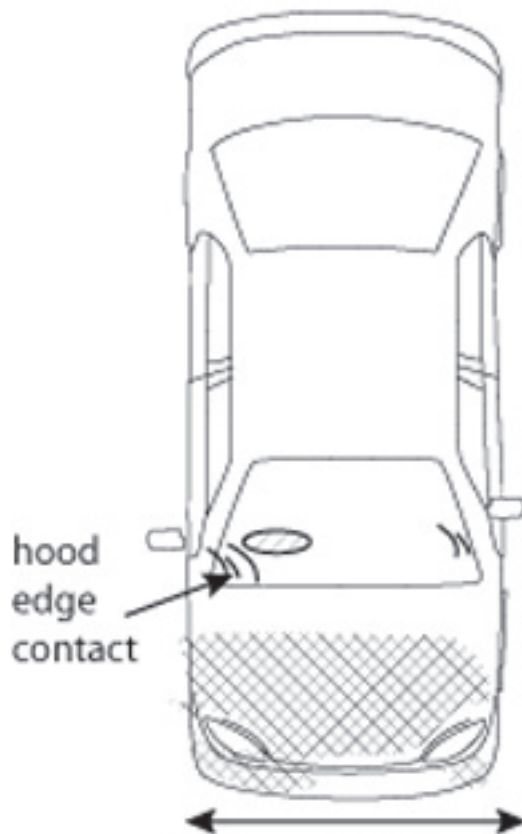
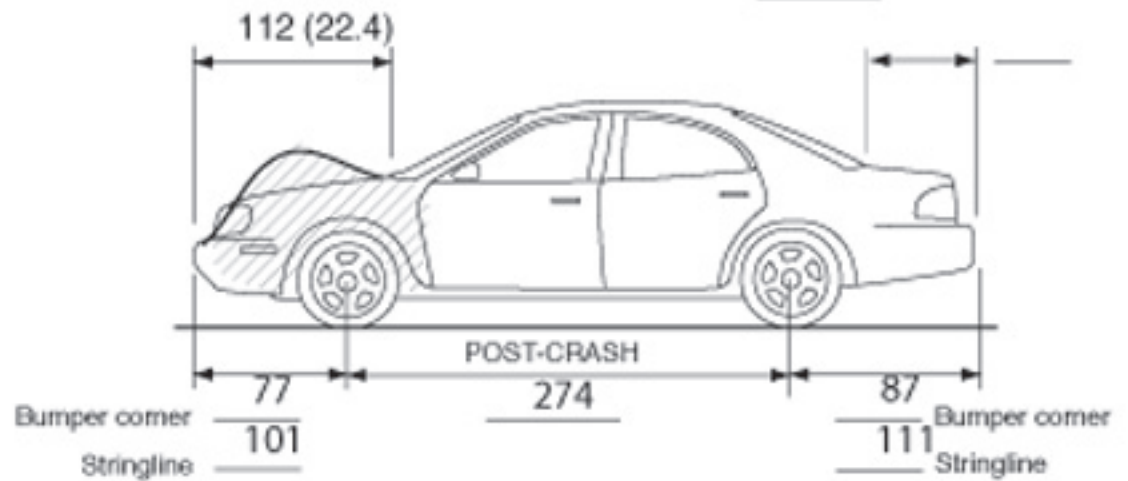
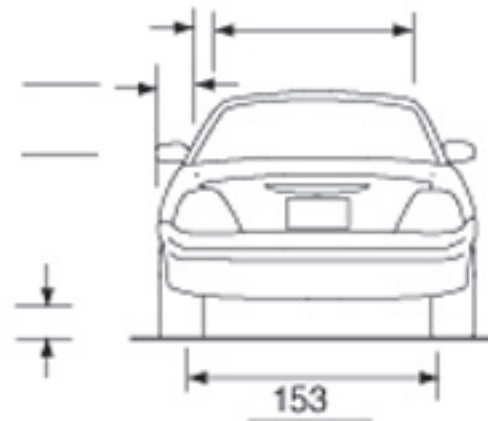
11 DOT-18 PPG M405 T

AS1 2 1

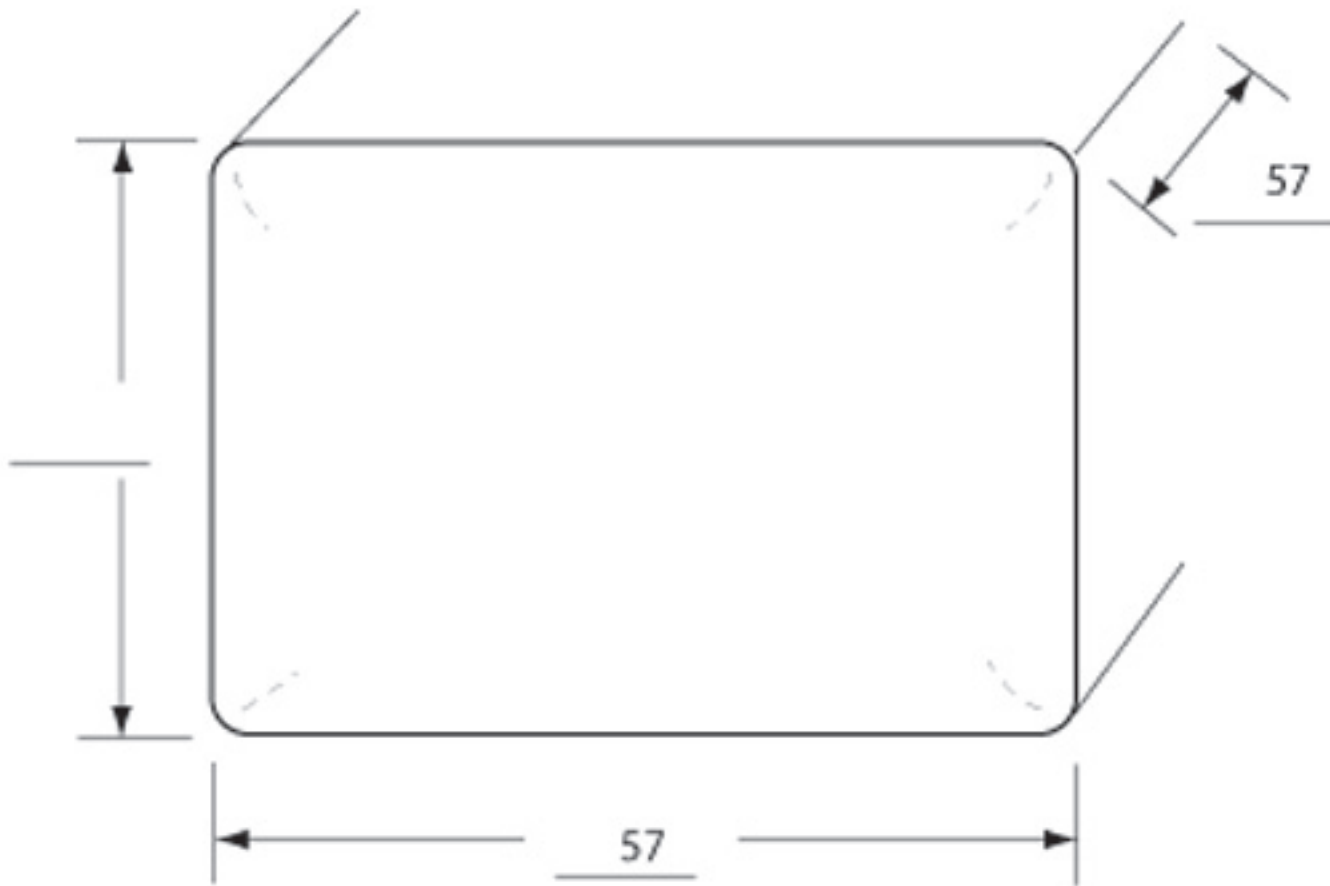


43R-00028

MEASUREMENTS IN CENTIMETERS



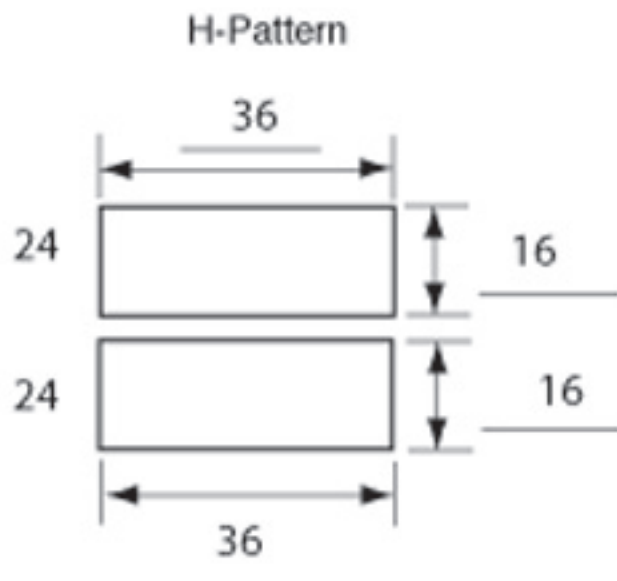
Passenger Airbag



Vents: Y N
if yes, how many: 1
vent at 9 o'clock

Tethers: Y N
if yes, how many: _____

Passenger Airbag Doors



Single Door







RF

1000 1.440



RF

A close-up photograph showing a person's hand holding a dark, textured fabric strip. The hand is wearing a gold-colored bracelet and has purple nail polish. A small, white, rectangular label with the letters 'RF' is attached to the fabric. The background is a dark, textured surface, possibly a car seat.

RF









DR





DR

DR
↓

DR

















⚠ WARNING
DEATH OR SERIOUS
INJURY CAN RESULT
IF YOU DO NOT
PROPERLY INSTALL OR
USE THE SEAT BELT.
SEE THE OWNER'S
MANUAL FOR
PROPER SEAT BELT
USE. © 2014 GM Corp. All rights reserved.



















WARNING
SEE DEALER FOR RECALL







176169



ACCEL

RESUME

CANCEL

CRUISE

SAFARI

100
170
220
MPH















10-6 AUTO 20



111550
AVT20



177550
Auto 7F
10-6





AT AUTO 20
104













176
EAT - FT
10-8

199
150



197
170



XV 3-R
S011111

17350

EMT'S
10-8 ✓











AC
1773

1773
AC













XV 3-8
SOLVING

17350

EMTS
10-8









RF