Case 420: Narrative

| Case Vehicle (A): 2000 Mercury | Vehicle (B): 2002 Volvo | Vehicle (C): 1997 Honda |
|--------------------------------------|------------------------------------|------------------------------|
| Type: Grand Marquis LS, 4-door sedan | Type: V70 XC, 4-door station wagon | Type: Civic EX, 4-door sedan |
| Driver: 29-year-old male | Driver: 46-year-old female | Driver: 32-year-old female |
| CDC: 12-FYEW-3, 06-RDES-1 | CDC: 12-FYEW-3 | CDC: 99-0000-0 |

SITUATION

1 2 It was near dawn on a clear morning, the asphalt road surface was dry, and the posted speed limit was 45 mph (72 kph). Case vehicle (A) was traveling east at an unknown speed in the inside eastbound lane of a four-lane, two-way, east-west road in an urban area. 3 4 Vehicle (B) was traveling west at a driver-estimated speed of 45 mph (72 kph) in the inside westbound lane of the same four-lane road. Vehicle (C) was traveling east in front of case vehicle (A). As case vehicle (A) and vehicle (B) approached each other, the driver of case vehicle (A) began to make a left turn onto an intersecting road and case vehicle (A) entered the westbound lane in front of vehicle (B). The driver of vehicle (B) was not able to take any avoidance actions and the left front of vehicle (B) struck the left front of case vehicle (A). Following the offset-frontal impact, the right side of case vehicle (A) contacted and sideswiped the left side of vehicle (C). All three vehicles were towed from the scene.

The police accident report (PAR) indicates C-level injuries for the driver of case vehicle (A) but he did not seek medical treatment. The PAR indicates B-level injuries for the driver of vehicle (B), who was transported to a local trauma center where she was treated and released. The PAR did not indicate any information for the child passenger of vehicle (B) but an interview revealed that she did not sustain any injuries and was not treated. The PAR indicates O-level injuries for the driver and passenger of vehicle (C) and they did not seek any treatment.

GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

- 5 Damage to the front of case vehicle (A) was severe. 6 Direct damage began at the left corner of the front bumper and extended 84-cm across the front of the vehicle, resulting in a 51-percent vehicle overlap (%VOL). The maximum frontal crush was 87 cm and it occurred at the left-front bumper corner. 7 8 Damage from the sideswipe with vehicle (C) was minor. It began at the right-front fender and extended 538-cm along the entire right side of the vehicle, with a maximum crush of 1 cm at the right fender.
- 9 Damage to the front of vehicle (B) was severe. 10 Direct damage began at the left corner of the front bumper and extended 77-cm across the front, resulting in a 50-percent vehicle overlap. The maximum frontal crush was 58 cm and it occurred at the left-front bumper corner. 11 The left and center sections of the front bumper and grille were damaged and pushed rearward into the engine compartment, and the front of the hood was crushed up and to the rear. 12 The left fender was crushed rearward into the front wheel and the left wheelbase was reduced by 14 cm. 13 The right fender was buckled and the right wheelbase was increased by 5 cm.

Vehicle (C) was not inspected.

14 15 16 17 18 19 20 21 22 23 Using the WinSMASH crash-reconstruction program and crush profiles for both vehicles, the following impact severities were estimated for the impact between case vehicle (A) and vehicle (B):

| | | Estimated Velocity Change - kph (mph) | | | |
|------------------|----------|---------------------------------------|--------------|-------------|--|
| Vehicle | Variable | Total | Longitudinal | Latitudinal | |
| Case Vehicle (A) | delta V | 46 (29) | -46 (-28) | -8 (-5) | |
| Vehicle (B) | delta V | 51 (32) | -50 (-31) | 9 (6) | |

DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

Exterior

- 24 In the front, the left and center sections of the front bumper were crushed rearward, the right section was deflected forward, and the bumper cover was completely separated from its attachments. 6 The left and center sections of the radiator and the radiator supports were crushed rearward into the engine compartment. The left headlight assembly was damaged and the headlamp was shattered. 25 The right headlight assembly was dislodged slightly from its attachment but the headlamp was not broken. The front of the hood was crushed rearward and up on the left side and deflected up on the right side, and the hood latch was damaged and jammed. 26 27 Both hood hinges were bent but they were not separated. 28 The left-rear edge of the hood contacted and cracked the lower-left corner of the windshield, resulting in cracks that radiated up along the left A-pillar. 29 There was also a dense pattern of circular cracks in the left section of the windshield from internal contacts. 30 The right-rear edge of the hood was elevated but it did not contact the right section of the windshield, which was not cracked. 31 The left side of the roof above the driver door was buckled.
- 6 On the left side, the fender was crushed rearward into the left-front wheel 32, the left-front tire was flat, and the wheel was pushed rearward, reducing the left wheelbase by 23 cm. 33. The rear section of the left fender was pushed into the lower section of the A-pillar and the forward edge the driver door. The driver door was jammed closed, the lower section of the left A-pillar was damaged, and 34 the upper section of the A-pillar was buckled. 35 There was no damage to the left B- and C-pillars, the left-rear door was undamaged and operational, and the left-side glazing was intact. 36 There was no damage to the left-rear wheel or to the left quarter panel.
- 37 On the right side, the fender was deformed and shifted to the left. Scratches extended along the right fender, both doors, and the right quarter panel from the sideswipe contact with vehicle (C), 7 8 but both doors were operational, the right-side glazing was intact, and there was no damage to the right A-, B- or C-pillars. 38 39 There was no damage to the right-side wheels but the right wheelbase was increased by 3 cm.
- 40 There was no damage to the rear of case vehicle (A).

Interior

41 This vehicle was equipped with steering-wheel and dash-mounted frontal-impact airbags, which deployed during the offset-frontal impact. 42 In the driver seating area, there was no damage to the roof,

to the windshield header, to the sunvisor, or to the upper section of the left A-pillar. 26 There were vertical cracks in the lower-left portion of the windshield from external contact and there was a 43 dense pattern of circular-shaped cracks in the upper-left portion of the windshield from contact by the driver. 44 45 There was no damage to the steering-wheel airbag or airbag flaps but there were bloodstains on the airbag fabric. 46 There was no damage to the steering-wheel rim and 47 there was no rotation of the steering column. 46 There was no damage to the upper or mid portions of the driver instrument panel. 48 49 There were scuffmarks on the driver knee bolster to the left and right of the steering column and the 50 knee-bolster cover was separated from its left attachment. 51 The floor was displaced up and 52 the toepan was displaced to the rear. 53 There was no damage to the interior panel of the driver door 54 but there was a scuffmark on the armrest.

55 56 There was no damage in the center-front area. 57 In the right-front seating area, there was no damage to the roof, to the roof header, to the windshield, or to the right A-pillar. 58 There was no damage to the dash-mounted airbag 59 or module cover, but 60 the decorative dashboard trim was separated from its right attachment. 61 There was no damage to the glove box, to the floor, or to the interior of the right-front door.

<u>51 52</u> The following intrusions were noted and measured:

| Location | Component | Distance (cm) | Direction |
|------------|-----------|---------------|-----------|
| left from | toepan | 10 | to rear |
| left front | floor | 8 | up |

OCCUPANT KINEMATICS AND INJURIES

62 The 183-cm, 82-kg (6-ft, 180-lb) 29-year-old male driver was <u>not</u> using the three-point belt and the steering-wheel airbag deployed. 63 There was no evidence of belt use on the D-ring, on the continuous loop, or on the belt webbing. During the frontal impact, the unbelted driver moved forward relative to the vehicle interior into the airbag, knee bolster, and windshield. He sustained lacerations to the left side of the forehead with glass embedded in the wounds and cervical strain from head contact with the windshield, 29 43 as evidenced by circular-shaped cracks in the upper-left corner of the windshield. He sustained an abrasion to the anterior aspect of the left forearm 44 from contact by the deploying airbag. He sustained contusions to the left and right knees from contact with the knee bolster, 48 49 50 as evidenced by scuffmarks on the bolster cover.

The following table 64 and attached drawing summarize the injuries for the driver.

| Occupant: Driver | Age: 29 years | | Gender: Male | | |
|--|---------------------------------|--------|----------------|------------|----------|
| Restraints: Steering-wheel airbag | Stature: 183 cm (6 ft) Mass: 82 | | 82 kg (180 lb) | | |
| Injury Description | | A.I.S. | Inju | ıry Source | ; |
| _ | | | Definite | Probable | Possible |
| Lacerations, left side of forehead with glass in wound | | 1 | Windshield | | |
| Zacorano, revesar er revesar managanes menanganes | | | Head | | |

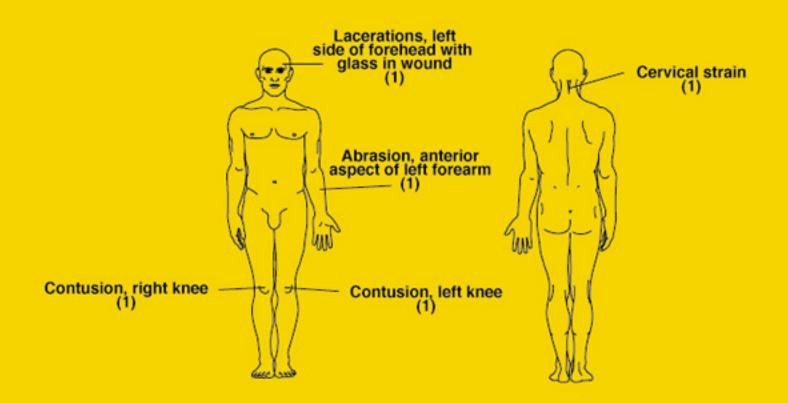
| Cervical strain | 1 | impact with windshield | _ |
|---|---|------------------------------|-------|
| Abrasion, anterior aspect of left forearm | 1 | Airbag | |
| Contusion, left knee | 1 | Knee bolster | |
| Contusion, right knee | 1 | Knee bolster | |
| Maximum A.I.S. Level | 1 | | |
| Injury Severity Score | 2 | | |

CASE NO.: 420 OCCUPANT: (Driver) 29-year-old male

CASE VEHICLE: 2000 Mercury STATURE: 183 cm (6 ft) MASS: 82 kg (180 lb)

TYPE: Grand Marquis LS, 4-door sedan RESTRAINTS: Steering-wheel airbag

SEVERITY: MAIS - 1 ISS - 2



Case No.: 420

Case Veh. (A): 2000 Mercury

Type: Grand Marquis LS, 4-door sedan

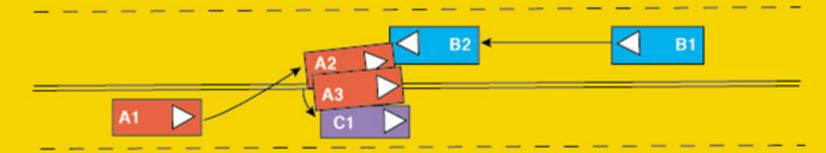
Driver: 29-year-old male

Vehicle (B): 2002 Volvo V70 XC, 4-door station wagon Vehicle (C): 1997 Honda Civic EX, 4-door sedan Weather: Clear Road Surface: Dry

Road Construction: Asphalt

Light Condition: Dawn





asphalt shoulder

speed limit 45 mph (72 kph)

Vehicle Report

Click on Section Name to jump directly to that Section —

- General Conditions
- Other Vehicle
- Case Vehicle General
- Case Vehicle Damage Description
- Crash Severity
- Case Vehicle Tires & Rims
- Case Vehicle Fuel, Tank, Fire
- Case Vehicle Exterior
- Case Vehicle Steering Column/Rim
- Case Vehicle Intrusion
- Case Vehicle Airbag(s)
- Case Vehicle Interior
- Case Vehicle Seats

General Conditions

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| Variable Number and Name | Code Value | Code Description | Other Options |
|---|-------------------|-------------------|------------------|
| V206 — Urban/Rural Area | 1 | Urban | <u>more</u> |
| V207 — Limited Access Highway | 0 | No | <u>more</u> |
| V208 — Road Total Lanes | 4 | 4 lanes or more | <u>more</u> |
| V209 — Intersecting Road Total Lanes | 2 | 2 lanes | <u>more</u> |
| V210 — Road Surface Type | 1 | Asphalt | <u>more</u> |
| V211 — Road Defects | 0 | No | <u>more</u> |
| V212 — Construction Zone | 0 | No | <u>more</u> |
| V213 — Road Alignment Vertical Plane | 1 | Level | more |
| V214 — Road Alignment Horizontal Plane | 1 | Straight | <u>more</u> |
| V215 — Surface Covering | 10 | Dry | <u>more</u> |
| V216 — Visibility Limitation | 0 | None | <u>more</u> |
| V217 — Visibility Obstruction | 0 | None | <u>more</u> |
| V218 — Speed Limit | 4 | 71-79 km/h 45 mph | <u>more</u> |
| V219 — Precipitation Type | 0 | None | more |
| V220 — Precipitation Rate | 8 | Not applicable | <u>more</u> |
| V221 — Temperature | 9 | Unknown | <u>more</u> |

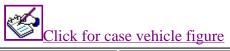
| V222 — Crosswind | 9 | Unknown | <u>more</u> |
|--|----|-------------------------------|-------------|
| V223 — Light Conditions | 2 | Dawn | more |
| V224 — Mechanical Malfunction Mention | 0 | No | more |
| V225 — Case Vehicle and Object | 0 | No | <u>more</u> |
| V226 — Case Vehicle Rollover | 0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

Other Vehicle Back to Top

| Variable Number and Name | Code Value | Code Description | Other Options |
|--|--------------|--------------------------------|------------------|
| V301 — Other Vehicle VIN | YV1S258DX210 | _ | |
| V302 — Other Vehicle Manufacturer/Body Code | 95228 | _ | _ |
| V303 — Other Vehicle Manufacturer | 952 | Volvo (Sweden) | more |
| V304 — Other Vehicle Body Code | 28 | Intermediate 105-109.9 in. wb. | more |
| V305 — Other Vehicle Make/Model | 2070 | _ | |
| V306 — Other Vehicle Model Year | 2002 | _ | |
| V307 — Other Vehicle Mass | 001630 kg | _ | |
| V308 — Other Vehicle Number | 1 | Vehicle #1 | more |
| V309 — Other Vehicle Number of Occupants | 02 | _ | |
| V310 — Other Vehicle Traveling Speed | 072 kph | _ | _ |
| | | | |

| V311 — Highest Police Injury Severity | 2 | B - Non-Incapacitating Injury | more |
|--|--------------|--|-------------|
| V312 — Other Vehicle Type | 15 | Large utility (wheelbase >107", e.g. Suburban) | <u>more</u> |
| V313 — Other Vehicle Wheelbase (cm) | 276 cm | _ | _ |
| V314 — Average Track Width | 163 cm | _ | |
| V315 — Overall Length | 475 cm | _ | |
| V316 — Overall Width (OAW) | 186 cm | _ | |
| V317 — Front Overhang (FOH) | 095 cm | _ | |
| V318 — Rear Overhang (ROH) | 104 cm | _ | |
| V319 — Undeformed End Width (UEW) | 154 cm | _ | _ |
| V320 — Engine Displacement | 2.5 <i>l</i> | _ | |
| V321 — Engine: Number of Cylinders | 05 | _ | _ |
| V322 — Direct Damage Length (DDL) | 077 cm | _ | _ |
| V323 — Front-End Overlap % (FEO) | 50 | _ | _ |
| V324 — Vehicle Overlap % (VOL) | 50 | _ | |

Case Vehicle General



| | | Content for table + time to 11 guilt | | | |
|-------------------------------|--------------|--------------------------------------|---------------|--|--|
| Variable Number and Name | Code Value | Code Description | Other Options | | |
| V401 — VIN | 2MEFM75W8YX6 | _ | | | |
| V402 — Manufacturer/Body Code | 22229 | _ | | | |
| V403 — Vehicle Manufacturer | 222 | Lincoln-Mercury | <u>more</u> | | |
| V404 — Vehicle Body Code | 29 | _ | | | |
| V405 — Make/Model Code | 0929 | Grand Marquis | <u>more</u> | | |
| V406 — Model Year | 2000 | _ | | | |
| V407 — Vehicle Mass | 001777 kg | _ | | | |
| V408 — Odometer Reading | 888888 | _ | | | |
| V409 — Number of Occupants | 01 | _ | | | |
| V410 — Traveling Speed | 999 | Unknown | more | | |
| V411 — Body Type | 14 | 4-door sedan | <u>more</u> | | |
| V412 — Stolen Vehicle | 8 | Not currently collected | <u>more</u> | | |
| V413 — Body Structure | 2 | Unitized | more | | |
| V414 — Transmission Type | 1 | Automatic | more | | |

| V415 — Transmission Lever Location | 3 | Column | <u>more</u> |
|--|--------------|-------------------------|-------------|
| V416 — Steering | 1 | Power | <u>more</u> |
| V417 — Brakes | 1 | Power | <u>more</u> |
| V418 — Brake Type | 2 | Disc - front wheels | <u>more</u> |
| V419 — Brake Anti-lock Device | 1 | Two-wheel | <u>more</u> |
| V420 — Air Conditioning in Vehicle | 8 | Not currently collected | <u>more</u> |
| V421 — Drive Type | 2 | Front wheel | <u>more</u> |
| V422 — Dual Rear Wheels | 0 | No | <u>more</u> |
| V423 — Original Restraint System Type | 3 | Airbag | more |
| V424 — Equipped With Roll Bar | 0 | No | <u>more</u> |
| V425 — Roof Type | 1 | Solid | more |
| V426 — Wheelbase | 291 cm | _ | |
| V427 — Anti-lacerative Glass | 0 | None | <u>more</u> |
| V428 — Average Track Width | 164 cm | | |
| V429 — Overall Length | 538 cm | _ | |
| V430 — Overall Width (OAW) | 199 cm | _ | |
| V431 — Front Overhang | 108 cm | _ | |
| V432 — Rear Overhang | 139 cm | _ | |
| V433 — Undeformed End Width (UEW) | 165 cm | _ | |
| V434 — Engine Displacement | 4.6 <i>l</i> | _ | |
| V435 — Engine: Number of Cylinders | 08 | _ | |
| V436 — Direct Damage Length (DDL) | 084 cm | _ | |
| V437 — Front End Overlap % (FEO) | 51 | _ | |
| V438 — Vehicle Overlap % (VOL) | 51 | _ | |

Case Vehicle Damage Description

| Variable Number and Name | Code Value | Code Description | Other Options |
|-----------------------------------|------------|-------------------------------|------------------|
| V501 — Maximum Crush - Front | 087 cm | | |
| V502 — Maximum Crush - Right Side | 001 cm | | |
| 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.) | <u>more</u> |
| V507 — Are Events In Chronological Order | 1 | Yes | <u>more</u> |
| V508 — Event 1 Impact Location | 1 | On Roadway | <u>more</u> |
| V509 — Event 1 Impact Configuration | 11 | FRONT of case veh - FRONT of contacted Vehicle | more |
| V510 — Event 1 Object/Vehicle Contacted | 28 | Intermediate 105-109.9 in. wb. | more |
| V511 — Event 2 Impact Location | 1 | _ | |
| V512 — Event 2 Impact Configuration | 46 | RIGHT of case veh - SIDESWIPED by contacted Vehicle | more |
| V513 — Event 2 Object/Vehicle Contacted | 27 | Compact 100- 104.9 in. wb. | <u>more</u> |
| 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 | <u>more</u> |
| V518 — Event 4 Impact Configuration | 88 | No 4th event | <u>more</u> |
| V519 — Event 4 Object/Vehicle Contacted | 00 | No object/vehicle contacted | more |
| V520 — Event 5 Impact Location | 8 | No 5th event | <u>more</u> |
| V521 — Event 5 Impact Configuration | 88 | No 5th event | <u>more</u> |
| V522 — Event 5 Object/Vehicle Contacted | 00 | No object/vehicle contacted | more |
| V523 — Event 6 Impact Location | 8 | No 6th event | <u>more</u> |
| V524 — Event 6 Impact Configuration | 88 | No 6th event | <u>more</u> |

| V525 — Event 6 Object/Vehicle Contacted | 00 | No object/vehicle contacted | more |
|---|---------|--|-------------|
| V526 — Event 7 Impact On Road | 8 | No 7th event | <u>more</u> |
| V527 — Event 7 Impact Configuration | 88 | No 7th event | more |
| V528 — Event 7 Object/Vehicle Contacted | 00 | No object/vehicle contacted | more |
| V529 — Primary CDC Case Vehicle -event Number | 1 | Event 1 | more |
| V530 — Primary CDC Case Vehicle - impact speed | 999 | Unknown | more |
| V531 — Primary CDC Case Vehicle - Estimated By | 1 | Investigator | more |
| V532 — Primary CDC Case Vehicle -crush | 087 | | _ |
| V533 — Primary CDC Case Vehicle -clock #1 | 12 | 12 o'clock | <u>more</u> |
| V534 — Primary CDC Case Vehicle letter 1 #1 | 06 | F - Front | <u>more</u> |
| V535 — Primary CDC Case Vehicle letter 2 #1 | 25 | Y - Side or end (F + P or L + C) | <u>more</u> |
| 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 | 12FYEW3 | _ | _ |
| 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 | <u>more</u> |
| V544 — Primary CDC Case Vehicle letter 4 #2 | 00 | Missing Data/Not applicable | <u>more</u> |
| 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 | 999 | Unknown | more |

| Speed | | | |
|--|---------|--|-------------|
| V548 — Primary CDC Contacted Vehicle - Estimated By | 1 | Investigator | more |
| V549 — Primary CDC Contacted Vehicle -crush | 058 | | |
| V550 — Primary CDC Contacted Vehicle -clock #1 | 12 | 12 o'clock | more |
| V551 — Primary CDC Contacted Vehicle letter 1 #1 | 06 | F - Front | <u>more</u> |
| V552 — Primary CDC Contacted Vehicle letter 2 #1 | 25 | Y - Side or end (F + P or L + C) | more |
| V553 — Primary CDC Contacted Vehicle letter 3 #1 | 05 | E - Everything below belt line | more |
| V554 — Primary CDC Contacted Vehicle letter 4 #1 | 23 | W - Wide impact area | more |
| V555 — Primary CDC Contacted Vehicle Extent #1 | 03 | Extent 3 | more |
| V556 — Primary CDC Contacted Vehicle -CDC #1 | 12FYEW3 | | _ |
| 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 | _ | <u> </u> |
| V564 — Secondary CDC Case Vehicle - Event No | 1 | Event 1 | more |
| V565 — Secondary CDC Case Vehicle - Impact Speed | 999 | Unknown | more |
| V566 — Secondary CDC Case Vehicle - Estimated By | 1 | | _ |
| V567 — Secondary CDC Case Vehicle -crush | 001 | | more |
| V568 — Secondary CDC Case Vehicle -clock #1 | 06 | 6 o'clock | more |

| V569 — Secondary CDC Case Vehicle letter 1 #1 | 18 | R - Right Side | <u>more</u> |
|--|---------|-------------------------------------|-------------|
| V570 — Secondary CDC Case Vehicle letter 2 #1 | 04 | D - Distributed (Side or End) | more |
| V571 — Secondary CDC Case Vehicle letter 3 #1 | 05 | E - Everything below belt line | more |
| V572 — Secondary CDC Case Vehicle letter 4 #1 | 19 | S - Sideswipe | <u>more</u> |
| V573 — Secondary CDC Case Vehicle Extent #1 | 01 | Extent 1 | <u>more</u> |
| V574 — Secondary CDC Case Vehicle -CDC #1 | 06RDES1 | | |
| V576 — Secondary CDC Case Vehicle letter 1 #2 | 00 | Missing Data/Not applicable | more |
| V577 — Secondary CDC Case Vehicle letter 2 #2 | 00 | Missing Data/Not applicable | more |
| V578 — Secondary CDC Case Vehicle letter 3 #2 | 00 | Missing Data/Not applicable | more |
| V579 — Secondary CDC Case Vehicle letter 4 #2 | 00 | Missing Data/Not applicable | more |
| V580 — Secondary CDC Case Vehicle Extent #2 | 00 | Missing Data/Not applicable | <u>more</u> |
| V581 — Secondary CDC Case Vehicle -CDC #2 | 9800000 | _ | _ |
| V582 — Secondary CDC Contacted Vehicle - Impact Speed | 999 | Unknown | <u>more</u> |
| V583 — Secondary CDC Contacted Vehicle - Estimated By | 1 | | _ |
| V584 — Secondary CDC Contacted Vehicle - crush | 999 | Unknown | more |
| V585 — Secondary CDC Contacted Vehicle - clock #1 | 99 | Unknown or no damage | <u>more</u> |
| 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 | 00 | Missing Data/Not | more |

| 4 #1 | | applicable | |
|---|---------|-----------------------------------|-------------|
| V590 — Secondary CDC Contacted Vehicle Extent #1 | 00 | Missing Data/Not applicable | more |
| V591 — Secondary CDC Contacted Vehicle -CDC #1 | 9900000 | _ | _ |
| 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 | <u>more</u> |
| 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 | 9900000 | _ | _ |

Crash Severity Back to Top

| Variable Number and Name | Code Value | Code Description | Other Options |
|---|------------|------------------|------------------|
| V601 — Case Vehicle Primary Impact Number | 1 | | _ |
| V602 — Primary Impact Total Delta-V | 046 kph | | _ |
| V603 — Primary Case Vehicle Reconstructed Longitudinal Delta-V | -046 kph | _ | _ |
| V604 — | -008 kph | | |

| Primary Case Vehicle Reconstructed Lateral Delta- V | | | _ |
|---|----------|--|------|
| V605 — Primary Case Vehicle Reconstructed Crush Energy | 0290 kJ | | _ |
| V606 — Primary Impact Case Vehicle - reconstuction | 22 | Reconstructed, moderate confidence level | more |
| V607 — Primary Case Vehicle Reconstruction Mode | 2 | CDC & detailed damage | more |
| V608 — Primary Contacted Vehicle Reconstructed Total Delta-V | 051 kph | _ | |
| V609 — Primary Contacted Vehicle Reconstructed Longitudinal Delta-V | -050 kph | | |
| V610 — Primary Contacted Vehicle Reconstructed Lateral Delta- V | 0009 kph | | _ |
| V611 — Primary Contacted Vehicle Reconstructed Crush Energy | 0075 kJ | | _ |
| V612 — Case Vehicle | 8 | | |

| Secondary Impact Number | | _ | _ |
|---|------|----------------|------|
| V613 — Secondary Case Vehicle Reconstructed Total Delta-V | 888 | N/A | more |
| V614 — Secondary Case Vehicle Reconstructed Longitudinal Delta-V | 8888 | | _ |
| V615 — Secondary Case Vehicle Reconstructed Lateral Delta- V | 8888 | _ | _ |
| V616 — Secondary Case Vehicle Reconstructed Crush Energy | 8888 | | _ |
| V617 — Secondary Case Vehicle Reconstruction Note | 88 | _ | |
| V618 — 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 | 046 kph | _ | _ |
| V625 — Primary Case Vehicle Reconstructed Longitudinal EBS | -046 kph | | _ |
| V626 — Primary Case Vehicle Reconstructed Lateral EBS | -008 kph | | _ |
| V627 — Primary Case Vehicle Reconstructed Crush Energy | 0290 kJ | _ | _ |
| V628 — Primary Case Vehicle Reconstruction Note | 22 | Reconstructed, moderate confidence level | more |
| V629 — Primary Case Vehicle Reconstruction | 2 | CDC & detailed damage | more |

| Mode | | | |
|--|----------|----------------|------|
| V630 — Primary Contacted Vehicle Reconstruction Total EBS | 051 kph | _ | _ |
| V631 — Primary Contacted Vehicle Reconstruction Longitudinal EBS | -050 kph | | _ |
| V632 — Primary Contacted Vehicle Reconstruction Lateral EBS | 0009 kph | _ | _ |
| V633 — Primary Contacted Vehicle Reconstruction Crush Energy | 0075 kJ | | _ |
| V634 — Case Vehicle Secondary Impact Number | 8 | Not applicable | more |
| V635 — Secondary Case Vehicle Reconstruction Total EBS | 888 | N/A | more |
| V636 — Secondary Case Vehicle Reconstruction Longitudinal EBS | 8888 | | _ |
| V637 — Secondary Case Vehicle Reconstruction Lateral EBS | 8888 | _ | |
| ll I | | II I | |

| V638 — Secondary Case Vehicle Reconstruction Crush Energy | 8888 | | _ |
|--|------|----------------|-------------|
| V639 — Secondary Case Vehicle Reconstruction Note | 88 | | _ |
| V640 — Secondary Case Vehicle Reconstruction Mode | 8 | Not applicable | <u>more</u> |
| V641 — Secondary Contacted Vehicle Reconstruction Total EBS | 888 | N/A | <u>more</u> |
| V642 — Secondary Contacted Vehicle Reconstruction Longitudinal EBS | 8888 | | _ |
| 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 | 1 | Bumper | more |

| V647 — Case Vehicle | 084 cm | | |
|---|--------|------------|------|
| Impact 1 Direct Damage Length [DDL] | | _ | _ |
| V648 — Case Vehicle Impact 1 Max Crush | 087 cm | _ | _ |
| V649 — Case Vehicle Impact 1 Field-L | 095 cm | | _ |
| V650 — Case Vehicle Impact 1 C1 | 087 cm | _ | _ |
| V651 — Case Vehicle Impact 1 C2 | 086 cm | _ | _ |
| V652 — Case Vehicle Impact 1 C3 | 077 cm | _ | _ |
| V653 — Case Vehicle Impact 1 C4 | 072 cm | _ | _ |
| V654 — Case Vehicle Impact 1 C5 | 039 cm | _ | _ |
| V655 — Case Vehicle Impact 1 C6 | 004 cm | _ | _ |
| V656 — Case Vehicle Impact 1 +/- D | | _ | _ |
| V657 — Case Vehicle Reconstructed Impact Number | 2 | | _ |
| V658 — Case Vehicle Impact 2 Plane | | Above sill | more |
| V659 — Case Vehicle Impact 2 | 538 cm | _ | _ |

| Direct Damage | | | |
|---|---------|----------------|-------------|
| Length [DDL] | | | |
| V660 — Case Vehicle Impact 2 Max Crush | 001 cm | _ | _ |
| 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 | <u>more</u> |
| V664 — Case Vehicle Impact 2 C3 | 998 | Not applicable | <u>more</u> |
| V665 — Case Vehicle Impact 2 C4 | 998 | Not applicable | <u>more</u> |
| 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 | 0999 cm | _ | _ |
| V669 — Other Vehicle Reconstructed Impact Number | 1 | _ | _ |
| V670 — Other Vehicle Impact 1 Plane | 1 | Bumper | more |
| V671 — Other Vehicle Impact 1 Direct Damage Length [DDL] | 077 cm | | |

| V672 — Other | 058 cm | II I | ı |
|-------------------------|----------|----------------|-------------|
| Vehicle | 030 6111 | | |
| Impact 1 Max | | _ | _ |
| Crush | | | |
| V673 — Other | 118 cm | | |
| Vehicle | | | |
| Impact 1 | | _ | |
| Field-L | | | |
| V674 — Other | 058 cm | | |
| Vehicle | | _ | |
| Impact 1 C1 | | | |
| V675 — Other | 040 cm | | |
| Vehicle | | _ | |
| Impact 1 C2 | | | |
| V676 — Other | 030 cm | | |
| Vehicle Impact 1 C3 | | _ | |
| | 020 cm | | |
| V677 — Other Vehicle | 020 Cili | | |
| Impact 1 C4 | | | |
| V678 — Other | 010 cm | | |
| Vehicle | | | |
| Impact 1 C5 | | | |
| V679 — Other | 006 cm | | |
| Vehicle | | _ | |
| Impact 1 C6 | | | |
| V680 — Other | -042 cm | | |
| Vehicle | | _ | |
| Impact 1 +/- D | | | |
| V681 — Other | 2 | | |
| Vehicle | | | |
| Reconstructed | | _ | |
| Impact Number | | | |
| V682 — Other | 8 | | |
| Vehicle | | Not applicable | <u>more</u> |
| Impact 2 Plane | | | 111010 |
| V683 — Other | | | |
| Vehicle | | | |
| Impact 2 | | Not applicable | <u>more</u> |
| Direct | | | more |
| Damage | | | |
| Length [DDL] | | | |
| V684 — Other | 998 | | |
| Vehicle | | Not applicable | <u>more</u> |
| Impact 2 Max | | | |
| μ * | II | ıı I | ı II |

| Crush | | | |
|--|-----|----------------|------|
| V685 — Other Vehicle Impact 2 Field-L | 998 | Not applicable | more |
| V686 — Other Vehicle Impact 2 C1 | 998 | Not applicable | more |
| V687 — Other Vehicle Impact 2 C2 | 998 | Not applicable | more |
| V688 — Other Vehicle Impact 2 C3 | 998 | Not applicable | more |
| V689 — Other Vehicle Impact 2 C4 | 998 | Not applicable | more |
| V690 — Other Vehicle Impact 2 C5 | 998 | Not applicable | more |
| V691 — Other Vehicle Impact 2 C6 | 998 | Not applicable | more |
| V692 — Other Vehicle Impact 2 +/- D | | _ | _ |

Case Vehicle Tires & Rims

| Variable Number and Name | Code Value | Code Description | Other Options |
|---------------------------------------|------------|------------------|------------------|
| V701 — Left Front Wheel Damaged | 1 | Yes | <u>more</u> |
| V702 — Right Front Wheel Damaged | 0 | No | 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 | <u>more</u> |

| V709 — Left Front Carcass Construction | 3 | Radial | <u>more</u> |
|--|-----------|--------|-------------|
| 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 | P22560R16 | _ | |
| V718 — Right Front Tire Size | P22560R16 | _ | _ |
| V719 — Right Rear Tire Size | P22560R16 | _ | |
| V720 — Left Rear Tire Size | P22560R16 | | |

Case Vehicle Fuel, Tank, Fire

Back to Top

| Variable Number and Name | Code Value | Code Description | Other Options |
|---------------------------------------|------------|---|------------------|
| V801 — Propulsive Fuel Type | 1 | Gasoline | <u>more</u> |
| 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) | <u>more</u> |
| V806 — Aux Tank Location | 888 | Not applicable (not equipped) | <u>more</u> |
| V807 — Aux Filler Cap Location | 888 | Not applicable (not equipped) | <u>more</u> |
| V808 — Aux Tank Material | 8 | Not applicable | more |
| V901 — Fuel Leakage From Crash | 0 | No | <u>more</u> |
| V1001 — Fire In Or On Case Vehicle | 0 | No | more |

Case Vehicle Exterior

| Variable Number and Name | Code Value | Code Description | Other Options |
|-----------------------------|---------------|------------------|---------------|
| V1101 — Hood Latch Released | 0 | No | <u>more</u> |
| V1102 — Hood Latch Damaged | 1 | Yes | <u>more</u> |
| V1103 — Hood Latch Jammed | 1 | Yes | <u>more</u> |
| | 1 | | |

| V1104 — Left Hood Hinge Damaged | | 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 | <u>more</u> |
| V1118 — Comp Orig/Telescopd Diff | 888 | Not collected | <u>more</u> |
| V1119 — Left Side Body Mount Separation | 8 | Not applicable (unitized) | more |
| V1120 — Upper Left A-pillar Separation | 4 | No separation, but damaged | more |
| V1121 — Lower Left A-pillar Separation | 4 | No separation, but damaged | 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 | 1 | | |

| Closed | | Yes | more |
|---|--------------------------------------|-------------------------------|-------------|
| V1131 — Left Rear Door Jammed Closed | 0 | No | more |
| V1132 — Rear Door Type | 0 | No door (includes pickups) | <u>more</u> |
| V1133 — Rear Door Opening Cause | 8 | Not applicable (no rear door) | more |
| V1134 — Rear Door Jammed Closed | 8 | Not applicable (no rear door) | <u>more</u> |
| V1135 — Luggage Partition Damagd | 0 | No | more |
| V1136 — Spare Tire Status | 8 | Not collected | more |
| V1137 — Trailer Hitch Type | 0 | No hitch | more |
| V1138 — Trailer Type | 0 | No trailer | more |
| V1139 — Right Side Body Mount Separation | 8 | Not applicable (unitized) | more |
| V1140 — Upper Right A-pillar Separation | 0 | No | more |
| V1141 — Lower Right A-pillar Separation | 0 | No | more |
| V1142 — Upper Right B-pillar Separation | 0 | No | <u>more</u> |
| V1143 — Lower Right B-pillar Separation | 0 | No | more |
| V1144 — Upper Right C-pillar Separation | 0 | No | more |
| V1145 — Lower Right C-pillar Separation | 0 | No | more |
| V1146 — Upper Right D-pillar Separation | 8 | Not applicable (not equipped) | more |
| V1147 — Lower Right D-pillar Separation | 8 | Not applicable (not equipped) | more |
| V1148 — Right Front Door Opening Cause | 0.0 | Door did not open | more |
| V1149 — Right Rear Door Opening Cause | 0.0 | Door did not open | <u>more</u> |
| V1150 — Right Front Door Jammed Closed | 0 | No | <u>more</u> |
| V1151 — Right Rear Door Jammed Closed | 0 | No | more |
| V1152 — Van Rear Door Type | 8 | Not applicable (not a van) | <u>more</u> |
| V1153 — Windshield Cracked | Click for windshield damage | Yes | <u>more</u> |

| | <u>figure</u> | | |
|---|---|----------------|-------------|
| V1154 — Windshield Broken | 0 | No | <u>more</u> |
| V1155 — Windshield Cracked or Broken by Occupant | 1 | Yes | <u>more</u> |
| V1156 — Bond Separation Extent | 0 | None | <u>more</u> |
| V1157 — Windshield Code | Click for windshield code figure | _ | _ |
| V1158 — Did Sun/T Roof Open | 8 | Not Applicable | <u>more</u> |

Case Vehicle Steering Column/Rim

| Variable Number and Name | Code Value | Code Description | Other Options |
|---|-------------------|----------------------|------------------|
| V1201 — Steering Wheel Rim Damage | 0 | None | <u>more</u> |
| V1202 — Number of Steering Wheel Spokes | 2 | 2 spokes | more |
| V1203 — Steering Wheel Spoke Damage | 0 | None | more |
| V1204 — Column Tilt Feature | 3 | Middle | <u>more</u> |
| V1205 — Column Swing-away Feature | 0 | Not equipped | <u>more</u> |
| V1206 — Column Telescoping Feature | 0 | Not equipped | <u>more</u> |
| V1207 — Wheel Energy Absorb Device | 8 | Not collected | <u>more</u> |
| V1208 — Wheel Ea Orig/Damaged Diff | 888 | Not collected | <u>more</u> |
| V1209 — Column Energy Absorb Device | 88 | Not collected | <u>more</u> |
| V1210 — Column Ea Orig/Comprss Diff | 888 | Not collected | <u>more</u> |
| 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 | <u>more</u> |
| V1214 — Steering Wheel Hub Damage | 0 | None | more |

| Intrusion | CIIC | ck for intrusion figures | <u>10þ</u> |
|---|-------------------|----------------------------|------------------|
| Variable Number and Name | Code Value | Code Description | Other Options |
| V1301 — Occupant Compartment Intrusion | 1 | Yes | <u>more</u> |
| V1302 — Was Intrusion Catastrophic | 0 | No | more |
| V1303 — Intrusion Number 01 | 01 | Intrusion #1 | more |
| V1304 — Intrusion 01 Occupant Space Number | 11 | First row, Left seat | more |
| V1305 — Intrusion 01 Intruding Object | 03 | Toe pan | more |
| V1306 — Intrusion 01 Assoc Event Number | 1 | Event #1 | more |
| V1307 — Intrusion 01 Max Intrusion X-axis | 10 cm | _ | _ |
| V1308 — Intrusion 01 Max Intrusion Y-axis | 00 cm | 0 cm or No Intrusion | more |
| V1309 — Intrusion 01 Max Intrusion Z-axis | 00 cm | 0 cm or No Intrusion | more |
| V1310 — Intrusion 01 Occupant Number | 00 | No contact or no intrusion | more |
| V1311 — Intrusion 01 Injury Number | 00 | No injury or no intrusion | <u>more</u> |
| V1312 — Intrusion 01 Occupant Number | 00 | No contact or no intrusion | more |
| V1313 — Intrusion 01 Injury Number | 00 | No injury or no intrusion | more |
| V1314 — Intrusion Number 02 | 02 | Intrusion #2 | more |
| V1315 — Intrusion 02 Occupant Space Number | 11 | First row, Left seat | <u>more</u> |
| V1316 — Intrusion 02 Intruding Object | 04 | Floor pan | more |
| V1317 — Intrusion 02 Assoc Event Number | 1 | Event #1 | more |
| V1318 — Intrusion 02 Max Intrusion X-axis | 00 cm | 0 cm or No Intrusion | <u>more</u> |
| V1319 — Intrusion 02 Max Intrusion Y-axis | 00 cm | 0 cm or No Intrusion | more |
| V1320 — Intrusion 02 Max Intrusion Z-axis | 08 cm | | |
| V1321 — Intrusion 02 Occupant | 00 | No contact or no intrusion | more |

| Number | | | |
|---|-------|---|-------------|
| V1322 — Intrusion 02 Injury Number | 00 | No injury or no intrusion | more |
| V1323 — Intrusion 02 Occupant Number | 00 | No contact or no intrusion | more |
| V1324 — Intrusion 02 Injury Number | 00 | No injury or no intrusion | <u>more</u> |
| 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 | <u>more</u> |
| V1328 — Intrusion 03 Assoc Event Number | 0 | No Intrusion, None | <u>more</u> |
| 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 | <u>more</u> |
| V1332 — Intrusion 03 Occupant Number | 00 | No contact or no intrusion | <u>more</u> |
| V1333 — Intrusion 03 Injury Number | 00 | No injury or no intrusion | <u>more</u> |
| 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 | <u>more</u> |
| V1337 — Intrusion 04 Occupant Space Number | 00 | No Intrusion, None | more |
| V1338 — Intrusion 04 Intruding Object | 00 | No Intrusion, None | <u>more</u> |
| V1339 — Intrusion 04 Assoc Event Number | 0 | No Intrusion, None | <u>more</u> |
| V1340 — Intrusion 04 Max Intrusion X-axis | 00 cm | 0 cm or No Intrusion | <u>more</u> |
| V1341 — Intrusion 04 Max Intrusion Y-axis | 00 cm | 0 cm or No Intrusion | <u>more</u> |
| V1342 — Intrusion 04 Max Intrusion Z-axis | 00 cm | 0 cm or No Intrusion | <u>more</u> |
| V1343 — Intrusion 04 Occupant Number | 00 | No contact or no intrusion | <u>more</u> |
| V1344 — Intrusion 04 Injury Number | 00 | No injury or no intrusion | <u>more</u> |
| V1345 — Intrusion 04 Occupant | 00 | No contact or no intrusion | more |

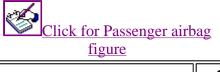
| Number | | | |
|---|-------|---|-------------|
| V1346 — Intrusion 04 Injury Number | 99 | Contact, injury unknown or data not collected | more |
| V1347 — Intrusion Number 05 | 00 | No Intrusion, None | <u>more</u> |
| V1348 — Intrusion 05 Occupant Space Number | 0.0 | No Intrusion, None | more |
| V1349 — Intrusion 05 Intruding Object | 00 | No Intrusion, None | <u>more</u> |
| V1350 — Intrusion 05 Assoc Event Number | 0 | No Intrusion, None | <u>more</u> |
| V1351 — Intrusion 05 Max Intrusion X-axis | 00 cm | 0 cm or No Intrusion | <u>more</u> |
| 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 | <u>more</u> |
| V1356 — Intrusion 05 Occupant Number | 00 | No contact or no intrusion | <u>more</u> |
| V1357 — Intrusion 05 Injury Number | 99 | Contact, injury unknown or data not collected | <u>more</u> |
| V1358 — Intrusion Number 06 | 00 | No Intrusion, None | <u>more</u> |
| V1359 — Intrusion 06 Occupant Space Number | 00 | No Intrusion, None | <u>more</u> |
| V1360 — Intrusion 06 Intruding Object | 00 | No Intrusion, None | <u>more</u> |
| 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 | <u>more</u> |
| V1367 — Intrusion 06 Occupant Number | 00 | No contact or no intrusion | more |
| V1368 — Intrusion 06 Injury Number | 99 | Contact, injury unknown or data not collected | more |

| V1369 — Intrusion Number 07 | 00 | No Intrusion, None | more |
|---|-------|---|-------------|
| V1370 — Intrusion 07 Occupant Space Number | 00 | No Intrusion, None | more |
| V1371 — Intrusion 07 Intruding Object | 00 | No Intrusion, None | more |
| V1372 — Intrusion 07 Assoc Event Number | 0 | No Intrusion, None | more |
| V1373 — Intrusion 07 Max Intrusion X-axis | 00 cm | 0 cm or No Intrusion | more |
| V1374 — Intrusion 07 Max Intrusion Y-axis | 00 cm | 0 cm or No Intrusion | more |
| V1375 — Intrusion 07 Max Intrusion Z-axis | 00 cm | 0 cm or No Intrusion | more |
| V1376 — Intrusion 07 Occupant Number | 00 | No contact or no intrusion | more |
| V1377 — Intrusion 07 Injury Number | 00 | No injury or no intrusion | more |
| V1378 — Intrusion 07 Occupant Number | 00 | No contact or no intrusion | more |
| V1379 — Intrusion 07 Injury Number | 99 | Contact, injury unknown or data not collected | more |
| V1380 — Intrusion Number 08 | 00 | No Intrusion, None | more |
| V1381 — Intrusion 08 Occupant Space Number | 00 | No Intrusion, None | more |
| V1382 — Intrusion 08 Intruding Object | 00 | No Intrusion, None | more |
| V1383 — Intrusion 08 Assoc Event Number | 0 | No Intrusion, None | more |
| V1384 — Intrusion 08 Max Intrusion X-axis | 00 cm | 0 cm or No Intrusion | more |
| V1385 — Intrusion 08 Max Intrusion Y-axis | 00 cm | 0 cm or No Intrusion | more |
| V1386 — Intrusion 08 Max Intrusion Z-axis | 00 cm | 0 cm or No Intrusion | more |
| V1387 — Intrusion 08 Occupant Number | 00 | No contact or no intrusion | more |
| V1388 — Intrusion 08 Injury Number | 00 | No injury or no intrusion | <u>more</u> |
| V1389 — Intrusion 08 Occupant Number | 00 | No contact or no intrusion | more |
| V1390 — Intrusion 08 Injury Number | 99 | Contact, injury unknown or data not collected | more |
| V1391 — Intrusion Number 09 | 00 | No Intrusion, None | more |
| V1392 — Intrusion 09 Occupant Space Number | 00 | No Intrusion, None | more |

| T11202 T 1 1 00 T 1 11 | 0.0 | | |
|---|-------|---|-------------|
| V1393 — Intrusion 09 Intruding Object | 00 | No Intrusion, None | <u>more</u> |
| V1394 — Intrusion 09 Assoc Event Number | 0 | No Intrusion, None | more |
| V1395 — Intrusion 09 Max Intrusion X-axis | 00 cm | 0 cm or No Intrusion | more |
| V1396 — Intrusion 09 Max Intrusion Y-axis | 00 cm | 0 cm or No Intrusion | more |
| V1397 — Intrusion 09 Max Intrusion Z-axis | 00 cm | 0 cm or No Intrusion | more |
| V1398 — Intrusion 09 Occupant Number | 0.0 | No contact or no intrusion | more |
| V1399 — Intrusion 09 Injury Number | 00 | No injury or no intrusion | more |
| V1400 — Intrusion 09 Occupant Number | 00 | No contact or no intrusion | more |
| V1401 — Intrusion 09 Injury Number | 99 | Contact, injury unknown or data not collected | more |
| V1402 — Intrusion Number 10 | 00 | No Intrusion, None | more |
| V1403 — Intrusion 10 Occupant Space Number | 00 | No Intrusion, None | more |
| V1404 — Intrusion 10 Intruding Object | 00 | No Intrusion, None | more |
| V1405 — Intrusion 10 Assoc Event Number | 0 | No Intrusion, None | more |
| V1406 — Intrusion 10 Max Intrusion X-axis | 00 cm | 0 cm or No Intrusion | more |
| V1407 — Intrusion 10 Max Intrusion Y-axis | 00 cm | 0 cm or No Intrusion | more |
| V1408 — Intrusion 10 Max Intrusion Z-axis | 00 cm | 0 cm or No Intrusion | more |
| V1409 — Intrusion 10 Occupant Number | 00 | No contact or no intrusion | more |
| V1410 — Intrusion 10 Injury Number | 00 | No injury or no intrusion | more |
| V1411 — Intrusion 10 Occupant Number | 00 | No contact or no intrusion | more |
| V1412 — Intrusion 10 Injury Number | 99 | Contact, injury unknown or data not collected | more |
| V1413 — Door Intrusion Number 01 | 88 | Not Applicable | more |
| V1414 — Door Intrusion Number 01 Cause | 8 | Not applicable | more |
| V1415 — Door Intrusion Number 02 | 88 | Not Applicable | more |
| V1416 — Door Intrusion Number 02 Cause | 8 | Not applicable | more |

| V1417 — Door Intrusion Number 03 | 88 | Not Applicable | <u>more</u> |
|--|----|----------------|-------------|
| V1418 — Door Intrusion Number 03 Cause | 8 | Not applicable | more |
| V1419 — Door Intrusion 01 Component | 88 | Not Applicable | more |
| V1420 — Door Intrusion 01 Component Damaged 1 | 8 | Not Applicable | <u>more</u> |
| V1421 — Door Intrusion 01 Component Damaged 2 | 8 | Not Applicable | more |
| V1422 — Door Intrusion 02 Component | 88 | Not Applicable | more |
| V1423 — Door Intrusion 02 Component Damaged 1 | 8 | Not Applicable | <u>more</u> |
| V1424 — Door Intrusion 02 Component Damaged 2 | 8 | Not Applicable | more |
| V1425 — Door Intrusion 03 Component | 88 | Not Applicable | more |
| V1426 — Door Intrusion 03 Component Damaged 1 | 8 | Not Applicable | more |
| V1427 — Door Intrusion 03 Component Damaged 2 | 8 | Not Applicable | more |
| V1428 — Door Intrusion 04 Component | 88 | Not Applicable | more |
| V1429 — Door Intrusion 04 Component Damaged 1 | 8 | Not Applicable | more |
| V1430 — Door Intrusion 04 Component Damaged 2 | 8 | Not Applicable | more |





| Variable Number and Name | Code Value | Code Description | Other Options |
|---------------------------------------|-------------------|------------------|---------------|
| V1501 — Driver Airbag Equipped | 1 | Yes | <u>more</u> |
| V1502 — Driver Airbag Deployed | 1 | Yes | <u>more</u> |
| V1503 — Driver Airbag Condition | 0 | No Damage | <u>more</u> |
| V1504 — Passenger Airbag Equip | 1 | Yes | <u>more</u> |
| V1505 — Passenger Airbag Deployed | 1 | Yes | <u>more</u> |
| V1506 — Passenger Airbag Condition | 0 | No Damage | more |
| | | | |

| V1507 — Steering Wheel Airbag Tether | 1 | Yes | more |
|---|---|-----|-------------|
| V1508 — Driver Airbag Marked By Contact | 1 | Yes | <u>more</u> |
| V1509 — Passenger Airbag Tether | 0 | No | <u>more</u> |
| V1510 — Passenger Airbag Marked By Contact | 0 | No | <u>more</u> |

Case Vehicle Interior

| Variable Number and Name | Code Value | Code Description | Other Options |
|---|-------------------|----------------------|---------------|
| V1601 — Left Front Door Damaged | 0 | No | more |
| V1602 — Right Front Door Damaged | 0 | No | more |
| V1603 — Left Front Hardware Damaged | 0 | No | <u>more</u> |
| V1604 — Right Front Hardware Damaged | 0 | No | <u>more</u> |
| V1605 — Left Front Armrest Damaged | 3 | No, occupant contact | more |
| V1606 — Right Front Armrest Damaged | 0 | No | <u>more</u> |
| V1607 — Left Front Glass Damaged | 0 | No | more |
| V1608 — Right Front Glass Damaged | 0 | No | <u>more</u> |
| V1609 — Left Rear Door Area Damaged | 0 | No | more |
| V1610 — Right Rear Door Area Damaged | 0 | No | more |
| V1611 — Left Rear Hardware Damaged | 0 | No | more |
| V1612 — Right Rear Hardware Damaged | 0 | No | more |
| V1613 — Left Rear Armrest Damaged | 0 | No | more |
| V1614 — Right Rear Armrest Damaged | 0 | No | more |
| V1615 — Left Rear Glass Damaged | 0 | No | <u>more</u> |
| V1616 — Right Rear Glass Damaged | 0 | No | more |
| V1617 — Left Roof Side Rail Damaged | 0 | No | more |
| V1618 — Right Roof Side Rail | 0 | | |

| Damaged | | No | <u>more</u> |
|---|---|-----------------------|-------------|
| V1619 — Left B-pillar Damaged | 0 | No | more |
| V1620 — Right B-pillar Damaged | 0 | No | more |
| V1621 — Left C-pillar Damaged | 0 | No | more |
| V1622 — Right C-pillar Damaged | 0 | No | more |
| V1623 — Left D-pillar Damaged | 8 | Not applicable | more |
| V1624 — Right D-pillar Damaged | 8 | Not applicable | more |
| V1625 — Left Headlining Damaged | 0 | No | more |
| V1626 — Right Headlining Damaged | 0 | No | more |
| V1627 — Left Roof Structure Damaged | 0 | No | more |
| V1628 — Right Roof Structure Damaged | 0 | No | more |
| V1629 — Left T/Sun Roof Damaged | 8 | Not applicable | more |
| V1630 — Right T/Sun Roof Damaged | 8 | Not applicable | <u>more</u> |
| V1631 — Other Left Side Item Damagd | 8 | Not applicable | more |
| V1632 — Other Right Side Item Damagd | 8 | Not applicable | more |
| V1633 — Foot Controls Damaged | 0 | No | more |
| V1634 — Ignition Key Damaged | 0 | No | more |
| V1635 — Rear View Mirror Damaged | 0 | No | more |
| V1636 — Sunvisor/Fitting Damaged | 0 | No | more |
| V1637 — Windshield Molding Damaged | 0 | No | more |
| V1638 — Left A-pillar Damaged | 0 | No | more |
| V1639 — Right A-pillar Damaged | 0 | No | more |
| V1640 — Center Console Damaged | 0 | No | more |
| V1641 — Transmission Lever Damaged | 0 | No | more |
| V1642 — Horn/Spoke Shroud Damagd | 0 | No | more |
| V1643 — Upper Panel Damaged | 0 | No | more |
| V1644 — Mid Panel Damaged | 1 | Yes | more |
| V1645 — Lower Panel Damaged | 4 | Yes, occupant contact | more |
| V1646 — Ashtray Damaged | 0 | No | more |
| V1647 — Control Knob/Lever Damaged | 0 | No | more |
| V1648 — Glove Compartment Area Damaged | 0 | No | more |

| V1649 — Instruments Damaged | 0 | No | <u>more</u> |
|---------------------------------------|---|----------------|-------------|
| V1650 — Park Brake Release Damaged | 0 | No | <u>more</u> |
| V1651 — Park Brake Pedal Damaged | 0 | No | more |
| V1652 — A/C Or Upper Vent Damaged | 0 | No | <u>more</u> |
| V1653 — Heater Or A/C Duct Damaged | 0 | No | <u>more</u> |
| V1654 — Radio Damaged | 0 | No | more |
| V1655 — Other Item Damaged | 8 | Not applicable | <u>more</u> |
| V1656 — Rear Window Damaged | 0 | No | more |
| V1657 — Rear Window Header Damaged | 0 | No | more |
| V1658 — Vertical Console Damaged | 0 | No | <u>more</u> |
| V1659 — Roof Console Damaged | 8 | Not applicable | more |

Case Vehicle Seats

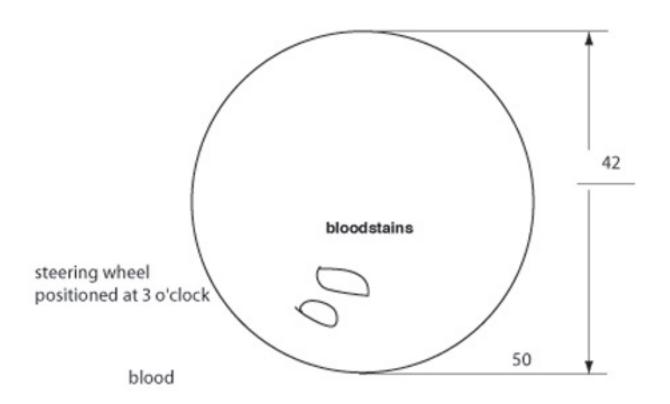
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| Variable Number and Name | Code Value | Code Description | Other Options |
|---|-------------------|------------------|------------------|
| V1701 — Driver Front Seat Type | 05 | Bucket | <u>more</u> |
| V1702 — Passenger Front Seat Type | 05 | Bucket | more |
| V1703 — Driver Seat Mount Type | 1 | Standard | <u>more</u> |
| V1704 — Passenger Seat Mount Type | 1 | Standard | <u>more</u> |
| V1705 — Driver Swivel Mechanism Equipped | 0 | No | more |
| V1706 — Passenger Swivel Mechanism Equipped | 0 | No | more |
| V1707 — Driver Seat Original Equipment | 1 | Yes | more |
| V1708 — Passenger Seat Original Equipment | 1 | Yes | more |
| V1709 — Driver Seat/Rear Occupant Contact | 8 | Not applicable | more |
| V1710 — Passenger Seat/Rear Occupant Contact | 8 | Not applicable | more |
| V1711 — Driver Seat Damage | 0 | None | more |
| V1712 — Passenger Seat Damage | 0 | None | more |
| V1713 — Center Front Armrest | 0 | No | more |

| Damaged | | | |
|---|---|---------------|-------------|
| V1714 — Driver Seat Rotation | 0 | None apparent | more |
| V1715 — Passenger Seat Rotation | 0 | None apparent | more |
| V1716 — Driver Seat-back Type | 3 | Reclining | more |
| V1717 — Passenger Seat-back Type | 3 | Reclining | more |
| V1718 — Driver Seat-back Lock Type | 1 | Manual | more |
| V1719 — Passenger Seat-back Lock Type | 1 | Manual | more |
| V1720 — Driver Seat-back Lock Held | 1 | Yes | more |
| V1721 — Passenger Seat-back Lock Held | 1 | Yes | more |
| V1722 — Driver Recliner Mechanism Held | 1 | Yes | more |
| V1723 — Passenger Recliner Mechanism Held | 1 | Yes | more |
| V1724 — Driver Head Restraint Type | 1 | Adjustable | more |
| V1725 — Passenger Head Restraint Type | 1 | Adjustable | more |
| V1726 — Driver Head Rest Removed | 0 | No | more |
| V1727 — Passenger Head Rest Removed | 0 | No | more |
| V1728 — Driver Head Rest Adjustment | 2 | Down | more |
| V1729 — Passenger Head Rest Adjustment | 2 | Down | more |
| V1730 — Driver Head Rest Damage | 0 | None | <u>more</u> |
| V1731 — Passenger Head Rest Damage | 0 | None | more |
| V1732 — Driver Seat Adjustment Type | 2 | Power | more |
| V1733 — Passenger Seat Adjustment Type | 2 | Power | more |
| V1734 — Driver Seat Adjustment Provided | 3 | 6-way | more |
| V1735 — Passenger Seat Adjustment Provided | 3 | 6-way | more |
| V1736 — Driver Seat Adjuster Damage | 0 | None | more |
| | | | |

| V1737 — Passenger Seat Adjuster Damage | 0 | None | more |
|---|---|----------------|-------------|
| V1738 — Driver Seat Adjuster Separation | 8 | Not applicable | more |
| V1739 — Passenger Seat Adjuster Separation | 8 | Not applicable | more |
| V1740 — Driver Seat Pre-crash Position | 2 | Middle | more |
| V1741 — Passenger Seat Pre-crash Position | 3 | Rearward | more |
| V1742 — Left Rear Seat Type | 1 | Non-folding | more |
| V1743 — Right Rear Seat Type | 1 | Non-folding | <u>more</u> |
| V1744 — Left Rear Seat Damaged | 0 | None | more |
| V1745 — Right Rear Seat Damaged | 0 | None | more |
| V1746 — Center Rear Armrest Damaged | 0 | No | more |
| V1747 — Left Rear Seat-back Left Lock Equipped | 8 | Not applicable | more |
| V1748 — Right Rear Seat-back Left Lock Equipped | 8 | Not applicable | more |
| V1749 — Left Rear Seat-back Left Lock Held | 8 | Not applicable | more |
| V1750 — Right Rear Seat-back Left Lock Held | 8 | Not applicable | more |
| V1751 — Left Rear Seat-back Right Lock Equipped | 8 | Not applicable | more |
| V1752 — Right Rear Seat-back Right Lock Equipped | 8 | Not applicable | more |
| V1753 — Left Rear Seat-back Right Lock Held | 8 | Not applicable | more |
| V1754 — Right Rear Seat-back Right Lock Held | 8 | Not applicable | more |
| V1755 — Left 3rd Seat Equipped | 0 | No | more |
| V1756 — Right 3rd Seat Equipped | 0 | No | more |
| V1757 — Left 3rd Seat Backrest Damaged | 8 | Not applicable | more |
| V1758 — Right 3rd Seat Backrest Damaged | 8 | Not applicable | more |
| V1759 — Left 3rd Seat Cushion Damaged | 8 | Not applicable | more |
| V1760 — Right 3rd Seat Cushion Damaged | 8 | Not applicable | more |
| | | | |

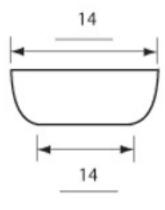
Driver Airbag



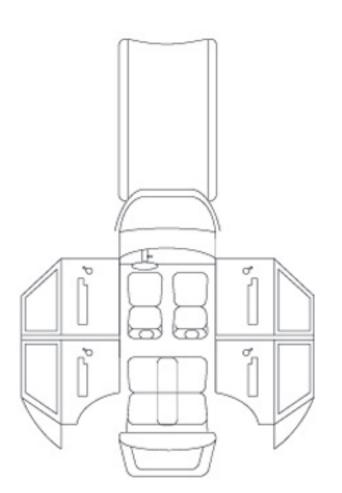
Vents: Y N
if yes, how many: 2
vents at 11 and 1 o'clock

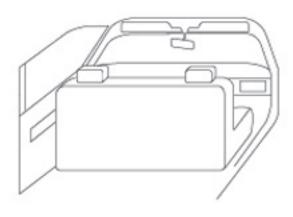
Tethers: Y N
if yes, how many: 2

Driver Airbag Doors

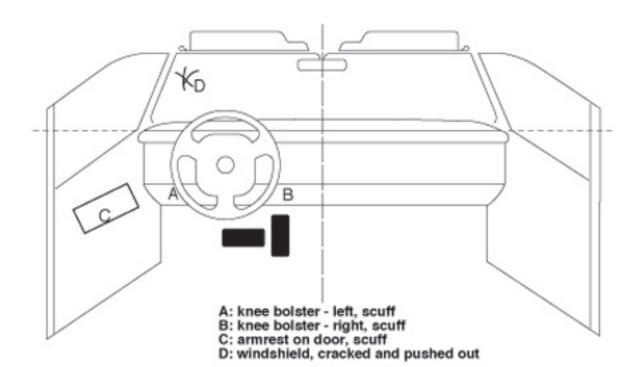


Single Door





no evidence of belt use



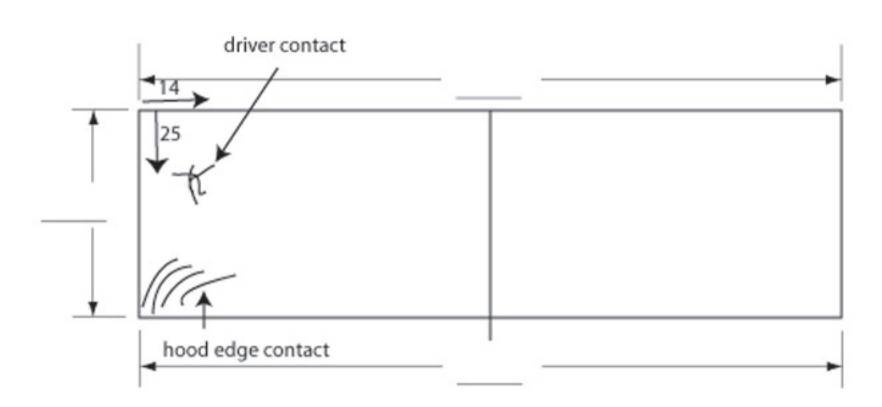
1 = Definitely 2 = Probably 3 = Possible

INTRUSION IT-1

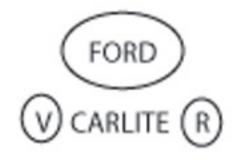
| | | (All Me | I Measurements Are in Centimeters) | | | Dominant | |
|--------------------------|--------------------|---------------------|------------------------------------|-------------------|----|-----------|--------------------|
| Location of Intrusion | Intruded Component | Comparison Value | - | Intruded Value | = | Intrusion | Crush Direction |
| 11 | Toepan | 83 – 73 = | | = | 10 | to rear | |
| 11 | Floor | | _ | | = | 8 | up |
| | | | _ | | = | | |
| | | | _ | | = | | |
| | | | _ | | = | | |
| | | | _ | | = | | |
| | | | - | | = | | |
| | | | _ | | = | | |
| | | | - | | = | | |
| | | | _ | | = | | |
| | | | _ | | = | | |
| | | | _ | | = | | |
| | | | _ | | = | | |

OCCUPANT CONTACT WORKSHEET

| | Interior | Occupant | Body | | Confidence Level of |
|---------|-----------------------|----------|----------|------------------------------|------------------------|
| | Component | No. if | Region | | Contact |
| Contact | Contacted | Known | if Known | Supporting Physical Evidence | Point |
| А | Left knee bolster | 1 | Knee | Scuff | 1 |
| В | Right knee bolster | 1 | Knee | Scuff | 1 |
| С | Armrest | 1 | Arm/side | Scuff | 2 |
| D | Windshield | 1 | Head | Cracked, pushed out | 1 |
| Е | | | | | |
| F | | | | | |
| G | | | | | |
| Н | | | | | |



WINDSHIELD MARK ON CASE VEHICLE:



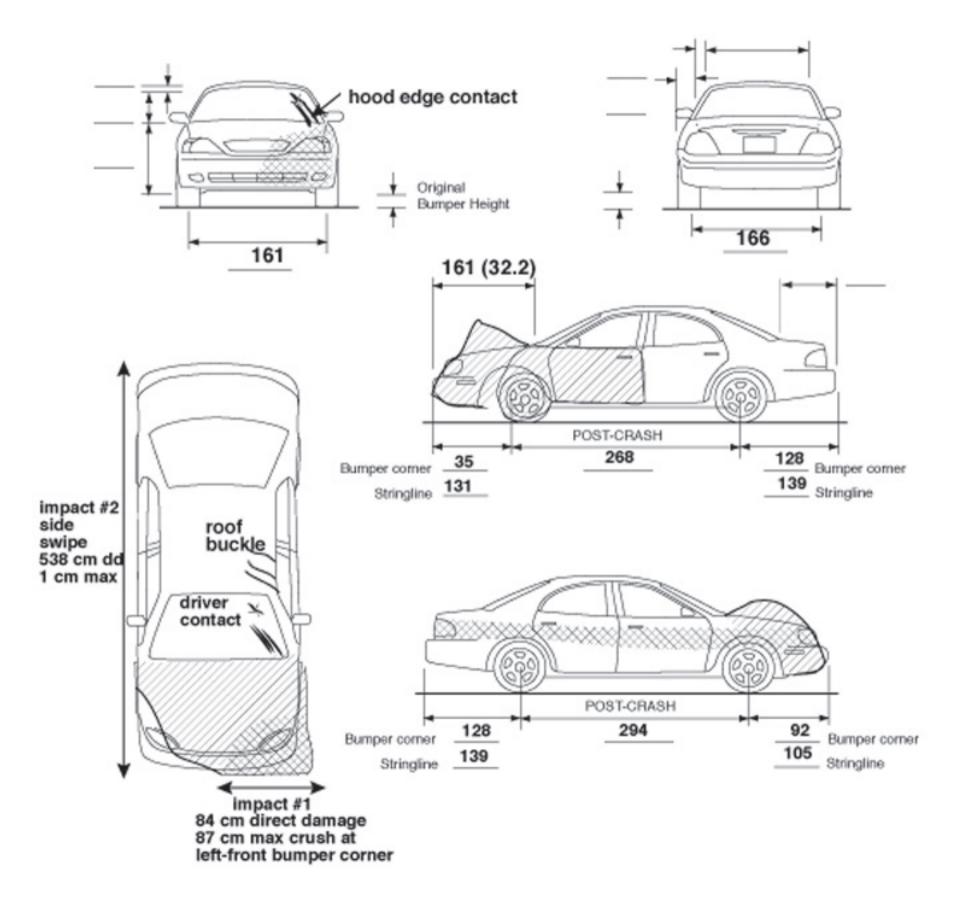
SOLARTINT

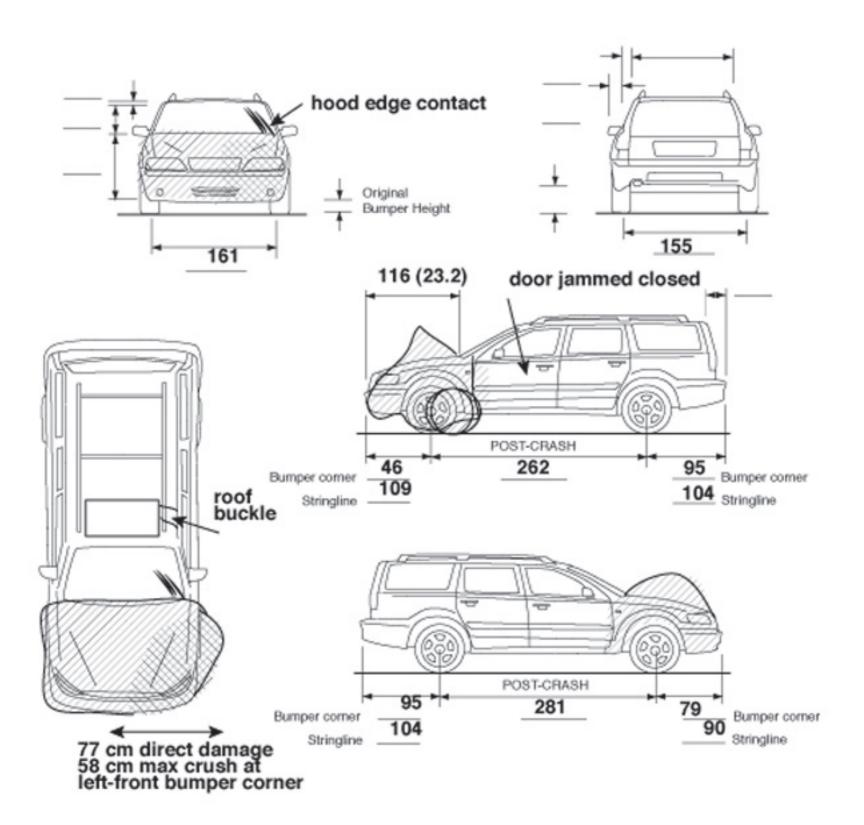
LAMINATED AS1

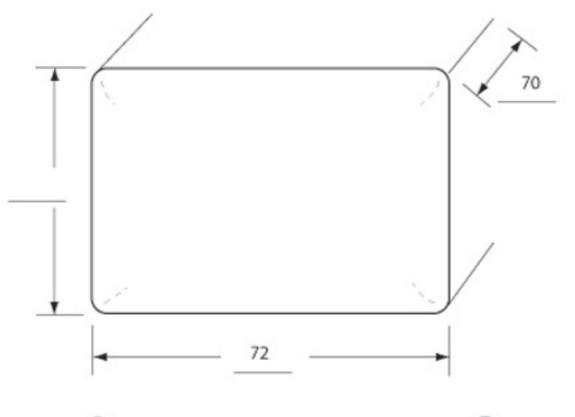
DOT-287 VF-M557

OAC

DW1327







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

Tethers: Y N

If yes, how many: _____

Passenger Airbag Doors

