

# Case 448 : Narrative

Case Vehicle (A): 1998 Buick
Type: LeSabre Custom, 4-door sedan
Driver: 79-year-old male
CDC: 12-FYEN-3

## SITUATION

[1](#) It was daylight and cloudy and the six-lane, east-west asphalt road with a posted speed limit of 35 mph (56 kph) was dry and in good condition. [2](#) Case vehicle (A) was traveling west at an unknown speed in a westbound lane when the driver passed out due to a pre-existing medical condition. As the vehicle veered to the left and began to head into on-coming traffic, [3](#) the female right-front passenger of case vehicle (A) reportedly leaned to the left, grabbed the steering wheel, and steered the vehicle to the right. [4](#) However, she over-steered, and the vehicle crossed both westbound through-lanes and the westbound right-turn lane while continuing to travel west. [5](#) Case vehicle (A) departed the road, went over a curb and a sidewalk, and [6](#) struck a 35-cm diameter tree with the left front. Case vehicle (A) was towed due to damage.

The police accident report indicates C-level injuries for the driver and the right-front passenger of case vehicle (A), and both were transported by ambulance to a level-one trauma center. The driver of case vehicle (A) was hospitalized for nine days, and the right-front passenger was hospitalized for seven days.

## GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

[7](#) Damage to the left front of case vehicle (A) was severe. [8](#) Direct damage began 18-cm left of the vehicle centerline and extended 35-cm to the left. [9](#) The maximum rearward crush was 94 cm and it occurred midway between the left-front bumper corner and the center of the vehicle.

Using the WinSMASH crash-reconstruction program and [7](#) [8](#) [9](#) [10](#) [11](#) crush profiles measured for the front of case vehicle (A) at the level of the bumper, the following impact severity was estimated:

		Estimated Velocity Change - kph (mph)		
Vehicle	Variable	Total	Longitudinal	Latitudinal
Case Vehicle (A)	delta V	51 (32)	-51 (-32)	0 (0)

This vehicle was equipped with a downloadable Event Data Recorder (EDR) that recorded non-deployment and deployment events on the same ignition cycle. For both events, the EDR data indicate that the driver seatbelt was unbuckled and, for the deployment event, the EDR data indicate that the Supplemental Inflatable Restraint (SIR) warning lamp was off and the dash-mounted airbag was not suppressed. The EDR data also indicate that the airbag deployed at 16.25 milliseconds and that the maximum longitudinal delta V was 28.08 mph at 100 milliseconds, at which time the EDR stopped

recording.

## DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

### Exterior

[9](#) [10](#) [12](#) In the front, the left side of the bumper and the hood were crushed rearward past the radiator support and into the engine compartment. The hood was buckled up and the hood latch was damaged and jammed closed. The rear edge of the hood was slightly elevated, but it did not contact the windshield, [13](#) which was cracked along the left A-pillar.

[14](#) On the left side, the front section of the fender was displaced to the right and the mid section was buckled to the left. The left-front wheel and the lower section of the left A-pillar were crushed rearward and the left wheelbase was reduced by 21 cm. [15](#) The upper section of the left A-pillar and the left roof siderail were deflected up, and the left side of the roof was buckled. The driver door and doorsill were buckled and the door was jammed closed. [16](#) The left-rear door was closed and operational and all of the left-side glazing was intact.

[17](#) [18](#) There was no damage to the rear of the vehicle. On the right side, [19](#) the front section of the fender was deflected to the left but [20](#) there was no other damage to the right side of the vehicle.

### Interior

This vehicle was equipped with steering-wheel and dash-mounted frontal-impact airbags and [21](#) [22](#) both deployed during the frontal impact. In the driver area, there was no damage to the steering-wheel airbag, [23](#) but there was blood and a black mark on the right side of the airbag fabric. [24](#) [25](#) The right side of the module cover was scuffed [26](#) but there was no damage to the left side of the module cover. [27](#) There was no damage to the steering-wheel rim or to the spokes but [28](#) the steering column was deflected up. [29](#) The roof siderail and the windshield header were deflected up and [30](#) the roof headliner and the roof were buckled. [31](#) There were scuffmarks on the driver knee bolster below and to the left and the right of the steering column, and the instrument panel was displaced rearward. The driver toepan was buckled and displaced rearward, [32](#) the driver seat was rotated to the right, and the seat fore-aft seat adjuster was jammed in a mid-track position. [33](#) There was no other damage in the driver area.

[34](#) In the center-front area, the ashtray cover was separated from the tray, there was a scuffmark to the left of the ashtray, and [35](#) [36](#) the instrument panel around and below the ashtray was covered with a liquid residue. [37](#) The forward section of the center armrest was scuffed and stained with an unknown substance. [38](#) [39](#) There was no other damage in the center-front area.

In the right-front seating area, [40](#) [41](#) there was no damage to the dash-mounted airbag [42](#) but there was an unknown substance and a black mark on the airbag fabric. [43](#) There was no damage to the airbag module cover and [44](#) [45](#) [46](#) [47](#) there was no other damage in the right-front seating area.

In the rear seating area, [48](#) the floor pan on the right was buckled up but [49](#) [50](#) [51](#) [52](#) there was no other damage.

The following intrusions were noted and measured:

Location	Component	Distance (cm)	Direction
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driver	toe pan <a href="#">53</a>	12	to rear
	instrument panel	4	to rear
right-rear	floor <a href="#">48</a>	3	up

## OCCUPANT KINEMATICS AND INJURIES

[54](#) The 175-cm, 66-kg (5-ft 9-in, 145-lb) 79-year-old male driver was not using the three-point belt, as indicated by the EDR data, and [55](#) the steering-wheel airbag deployed. Due to loss of consciousness prior to impact with the tree and lack of seatbelt use, the driver may have been leaning forward at the time of the frontal impact. During the frontal impact, he moved further forward relative to the vehicle interior, into the steering-wheel airbag and knee bolster. He sustained a subdural hematoma to the left parietal area, possibly due to rearward head rotation caused by close-proximity head/face loading by the deploying steering-wheel airbag, as indicated by an abrasion to the left side of the chin. He sustained fractures to the anterior aspect of the left 7th rib and the lateral aspect of the left 11th rib, a right-lung contusion with a right pneumothorax, a contusion to the right axilla, and an abrasion to the medial aspect of the right forearm, probably from contact and loading by the deploying airbag. He sustained a laceration to the right hand and an abrasion to the left hand from unknown sources, and he sustained abrasions to both knees and to the left shin from contact with the knee bolster.

The 168-cm, 57-kg (5-ft 6-in, 125-lb) 79-year-old female right-front passenger was using the three-point belt and [56](#) the dash-mounted airbag deployed. [57](#) Stretch marks on the shoulder belt indicate belt use at the time of the crash.

Prior to the frontal impact, the right-front passenger reached over to grab the steering wheel and was therefore probably leaning slightly to the left at the time of the frontal impact. During the frontal impact, she moved forward relative to the vehicle interior, into the belt restraints, the dash-mounted airbag, and the dashboard knee bolster. She sustained a contusion to the nose, possibly due to contact by the deploying dash-mounted airbag. She sustained a fracture to the lateral aspect of the right 6th rib, displaced fractures to the anterior-lateral aspects of the left 6th through 10th ribs, and a contusion to the left breast, probably from loading by the shoulder belt. She sustained a fracture to the posterior aspect of the left 12th rib, a hematoma to the left adrenal gland, a contusion to the left kidney, and a laceration to the spleen, possibly due to loading by the lap belt. She sustained a burst fracture of the L1 vertebrae, with fractures to the right pedicle and the inferior and superior facets of L1, and a fracture to the superior right facet of L2, possibly from bending and twisting of the lumbar spine due to crash forces and loading of the abdomen by the lap belt. She sustained contusions to the right flank, possibly from loading by the lap belt, and she sustained contusions to the right upper arm, possibly from contact by the deploying dash-mounted airbag. She sustained a comminuted displaced fracture to the neck of the left humerus and contusions to the left arm from unknown sources, and she sustained contusions to the left wrist, possibly from contact with the dashboard. She sustained contusions to the both knees and shins from contact with the knee bolster.

The following tables and attached drawings [58](#) [59](#) summarize the injuries for the driver and the right-front passenger of case vehicle (A).

Occupant: Driver	Age: 79 years	Gender: Male
Restraints: Steering-wheel airbag	Stature: 175 cm (5 ft, 9 in)	Mass: 66 kg (145 lb)

Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
—	—	—	—	—
Subdural hematoma to left parietal area	4	—	—	Head rotation induced by close-proximity airbag loading to the head/face
Abrasion, left side of chin	1	—	Airbag	—
Contusion, right lung with right pneumothorax	3	—	Airbag	—
Fractures, anterior aspect of left 7th rib and lateral aspect of left 11th rib	2	—	Airbag	—
Contusion, right axilla	1	—	Airbag	—
Abrasion, medial aspect of right forearm	1	—	Airbag	—
Abrasion, left hand	1	Unknown	—	—
Laceration, right hand	1	Unknown	—	—
Abrasion, right knee	1	Knee bolster	—	—
Abrasions, left knee and left shin	1	Knee bolster	—	—
Maximum A.I.S. Level	4	—	—	—
Injury Severity Score	26	—	—	—

Occupant: Right front	Age: 79 years	Gender: Female		
Restraints: 3-point belt; dash-mounted airbag	Stature: 168 cm (5 ft, 6 in)	Mass: 57 kg (125 lb)		
Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
—	—	—	—	—
Contusion, nose	1	—	—	Airbag
Comminuted displaced fracture, neck of left humerus	3	Unknown	—	—
Contusions, left arm	1	Unknown	—	—
Contusions, left wrist	1	—	—	Dashboard
Contusion, right arm	1	—	—	Airbag
Displaced fractures, anterior-lateral aspects of left 6th-10th ribs; non-displaced fracture to the lateral aspect of right 6th rib	3	—	Shoulder belt	—
Fracture, posterior aspect of left	1	—	—	Lap belt

12th rib				
Contusion, left breast	1	—	Shoulder belt	—
Hematoma, left adrenal gland	1	—	—	Lap belt
Contusion, left kidney	2	—	—	Lap belt
Laceration, posterior aspect of spleen	2	—	—	Lap belt
Burst fracture of L1 vertebrae, with fractures to the right pedicle and the inferior and superior facets of L1, and the superior right facet of L2	3	—	Bending/twisting of spine due to impact forces and lap belt loading of abdomen	—
Contusion, right flank	1	—	—	Lap belt
Contusions, right knee and right shin	1	Knee bolster	—	—
Contusions, left knee and left shin	1	Knee bolster	—	—
Maximum A.I.S. Level	3	—	—	—
Injury Severity Score	27	—	—	—

CASE NO.: 448

CASE VEHICLE: 1998 Buick

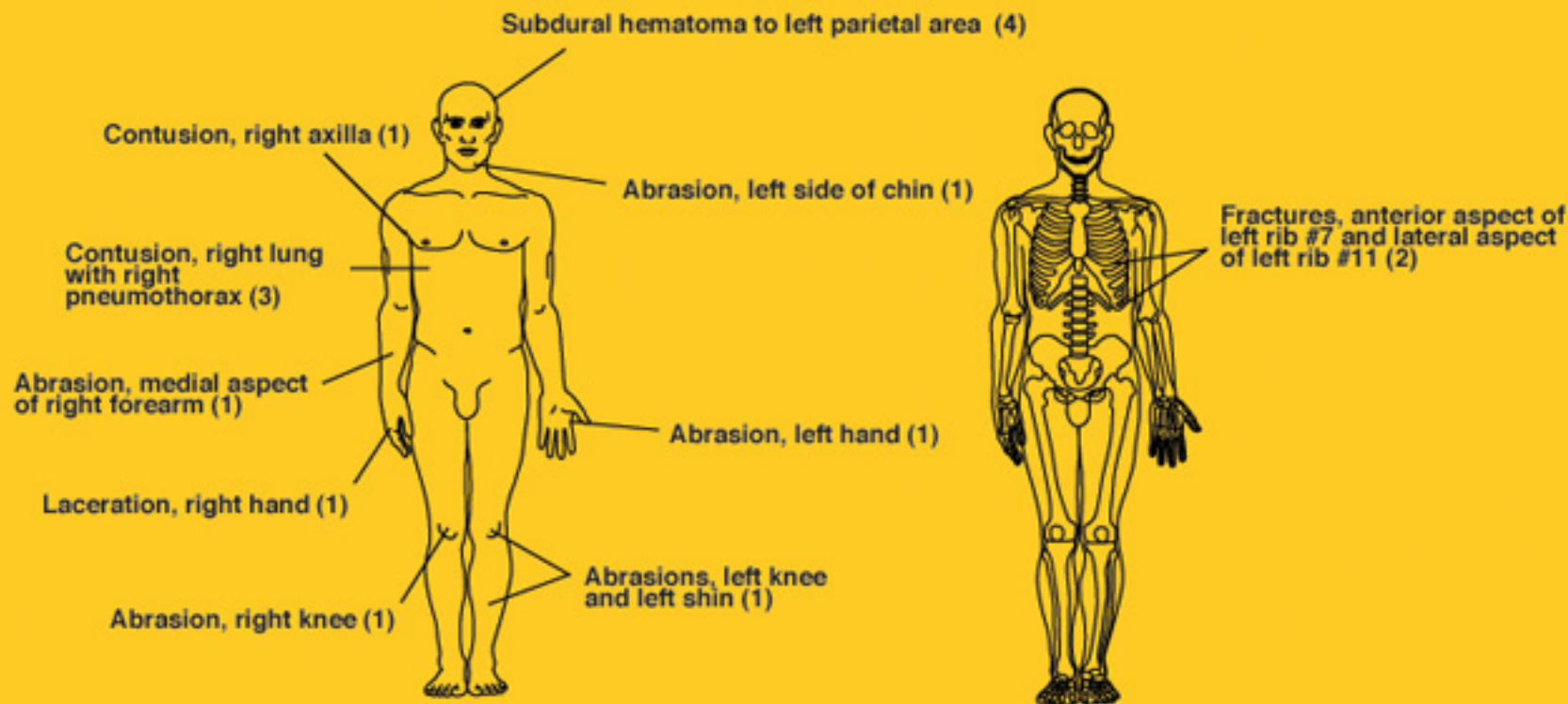
TYPE: LeSabre Custom, 4-door sedan

OCCUPANT: Driver: 79-year-old male

STATURE: 175 cm (5 ft, 9 in) MASS: 66 kg (145 lb)

RESTRAINTS: Steering-wheel airbag

SEVERITY: MAIS - 4 : ISS - 26



CASE NO.: 448

CASE VEHICLE: 1998 Buick

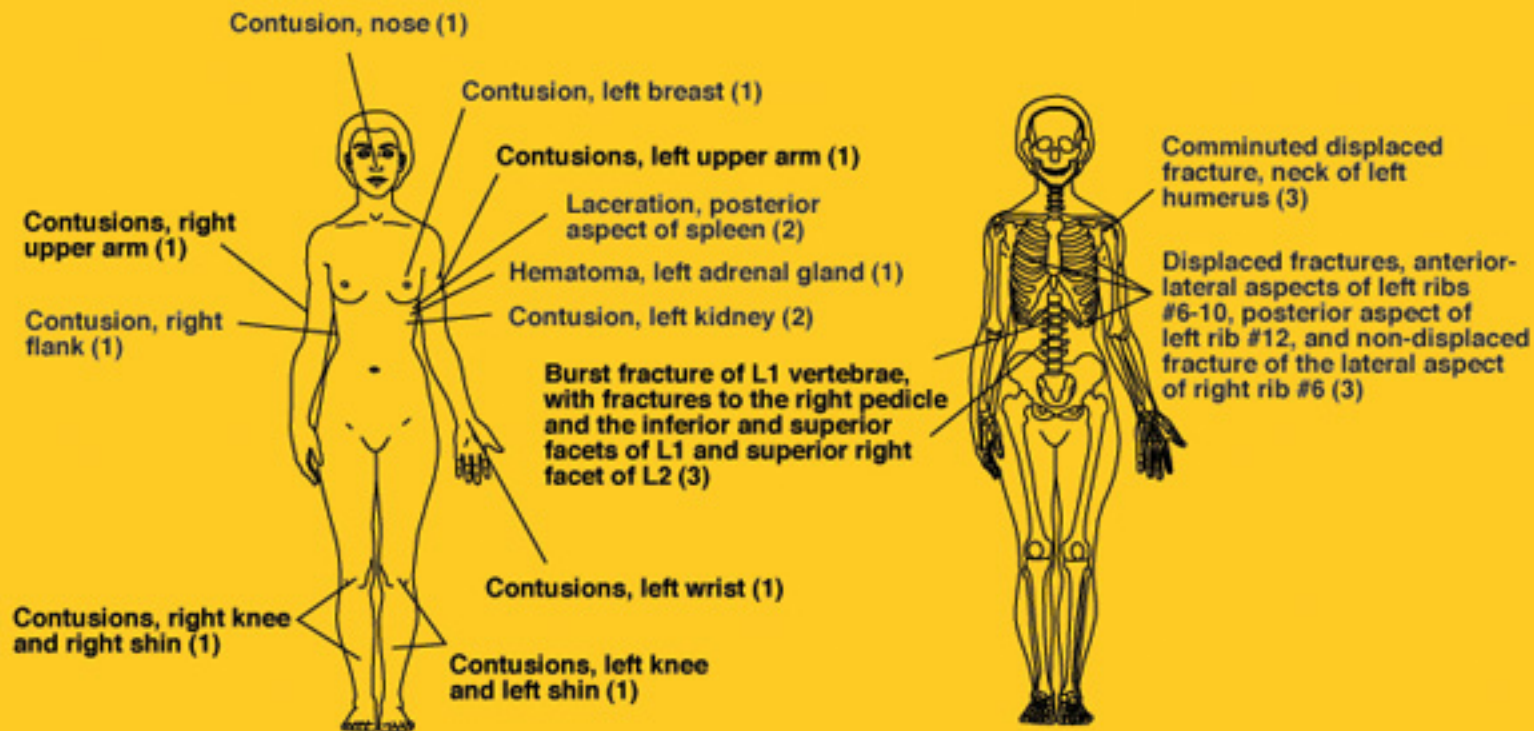
TYPE: LeSabre Custom, 4-door sedan

OCCUPANT: Right front: 79-year-old female

STATURE: 168 cm (5 ft, 6 in) MASS: 57 kg (125 lb)

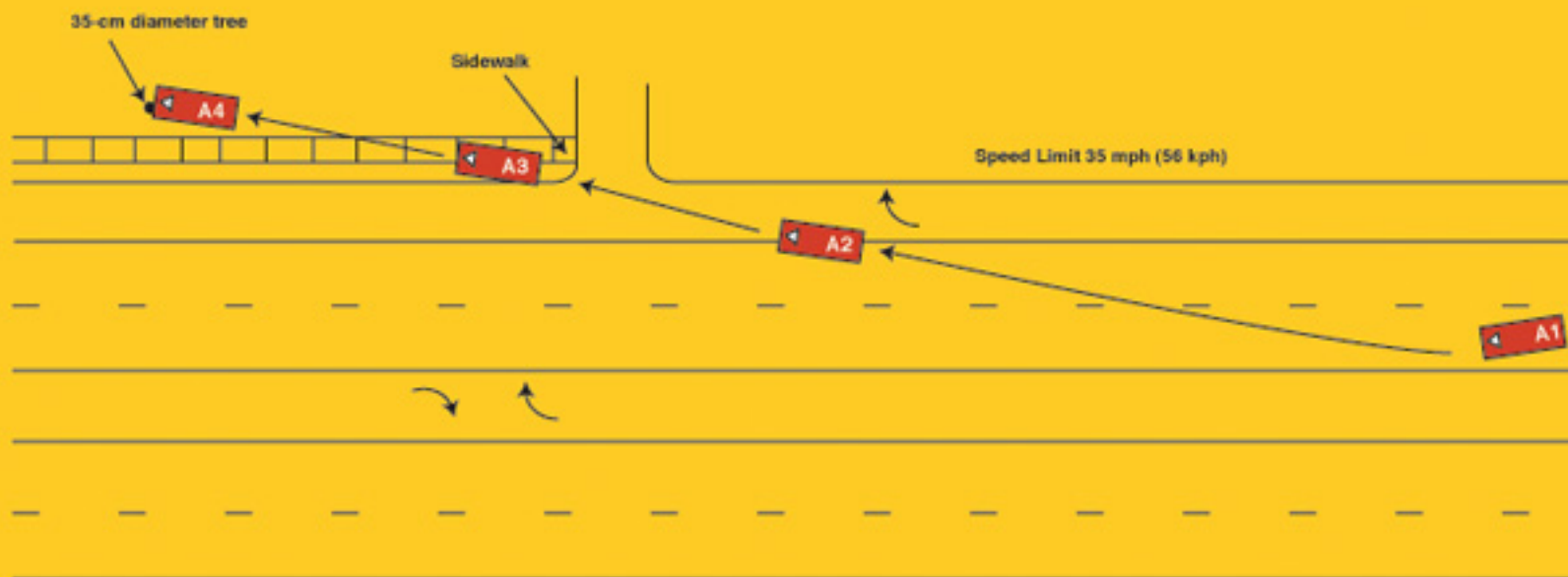
RESTRAINTS: 3-point belt; dash-mounted airbag

SEVERITY: MAIS - 3 : ISS - 27



Case No.: **448**  
Case Veh. (A): **1998 Buick**  
Type: **LeSabre Custom, 4-door sedan**  
Driver: **80-year-old male**

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





# UM-4261: Vehicle Report

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- 

## General Information

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0204	Collision Hour	1329	Time of day (24 hour clock)	<a href="#">more</a>
V0205	State Fips Code	26	Michigan	<a href="#">more</a>
V0206	Urban/rural Area	1	Urban	<a href="#">more</a>
V0207	Limited Access Highway	0	No	<a href="#">more</a>
V0208	Road Total Lanes	4	4 lanes or more	<a href="#">more</a>
V0209	Intersect Road Total Lanes	8	Not applicable	<a href="#">more</a>
V0210	Trafficway Flow	0	Not physically divided - two way traffic	<a href="#">more</a>
V0211	Road Surface Type	1	Asphalt	<a href="#">more</a>
V0212	Road Defects	0	No	<a href="#">more</a>
V0213	Construction Zone	0	No	<a href="#">more</a>
	Road Alignment Vertical			

V0214	Plane	1	Level	<a href="#">more</a>
V0215	Road Alignment Horizontal Plane	2	Curve	<a href="#">more</a>
V0216	Surface Covering	10	Dry	<a href="#">more</a>
V0217	Visibility Limitation	0	None	<a href="#">more</a>
V0218	Visibility Obstruction	0	None	<a href="#">more</a>
V0219	Speed Limit	2	56-60 km/h .. 35 mph	<a href="#">more</a>
V0220	Precipitation Type	0	None	<a href="#">more</a>
V0221	Precipitation Rate	8	Not applicable	<a href="#">more</a>
V0222	Temperature	9	Unknown	<a href="#">more</a>
V0223	Crosswind	9	Unknown	<a href="#">more</a>
V0224	Light Conditions	1	Daylight	<a href="#">more</a>
V0225	Mechanical Malfunction Mention	0	No	<a href="#">more</a>
V0226	Case Vehicle And Object	1	Yes, type and/or location unknown	<a href="#">more</a>
V0227	Case Vehicle Rollover	0	No	<a href="#">more</a>
V0228	Rollover Location	0	No rollover	<a href="#">more</a>
V0229	Roll Direction	0	No rollover	<a href="#">more</a>
V0230	Rollover Initiation Type	0	No rollover	<a href="#">more</a>
V0231	Rollover Number Of Turns	0	No rollover	<a href="#">more</a>
V0232	Case Vehicle Preimpact Braking	9	Unknown	<a href="#">more</a>
V0233	Case Vehicle Preimpact Stability	1	Case vehicle tracking before impact	<a href="#">more</a>
V0234	Case Vehicle Ran Off Roadway	1	Yes	<a href="#">more</a>
V0235	Moving Case Vehicle Contacted Moving Vehicle	0	No	<a href="#">more</a>
V0236	Case Vehicle Contacted Stopped Vehicle	0	No	<a href="#">more</a>
V0237	Stopped Case Vehicle Contacted Vehicle	0	No	<a href="#">more</a>
V0238	Total Vehicles Hit By Case Vehicle	0	0 vehicles	<a href="#">more</a>
V0239	Any Fire In Crash?	0	No	<a href="#">more</a>
V0240	Maximum Police Severity-acc	1	C - Possible Injury	<a href="#">more</a>
V0241	Driver Alcohol Involvmnt	0	Had not been drinking	<a href="#">more</a>
V0242	Driver Alcohol BAC (Case Vehicle)	80	No test	<a href="#">more</a>
V0243	Driver Impairment Mention	0	No	<a href="#">more</a>

V0244	Driver Distraction	11	Sleepy or fell asleep	<a href="#">more</a>
V0245	Driver Drug Involvement	0	None	<a href="#">more</a>
V0246	Driver Drug Type	0	No drug use	<a href="#">more</a>
V0247	Driven/towed From Scene	2	Towed Due to Damage	<a href="#">more</a>

## Other Vehicle

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0301	Other Vehicle VIN	0 xxxxxxx	<a href="#">Click for Contacted Vehicle figure</a>	<a href="#">more</a>
V0302	Other Vehicle Manufacturer/Body Code	99898	—	—
V0303	Other Vehicle Manufacturer	998	Unknown Other Vehicle	<a href="#">more</a>
V0304	Other Vehicle Body Code	98	No Other Vehicle	<a href="#">more</a>
V0305	Other Vehicle Make/model	0000	No other vehicle	<a href="#">more</a>
V0306	Other Vehicle Model Year	00	Year	<a href="#">more</a>
V0307	Other Vehicle Mass	000000 kg	No Other Vehicle	<a href="#">more</a>
V0308	Other Vehicle Number	8	No other vehicle	<a href="#">more</a>
V0309	Other Vehicle Number of Occupants	98	No Other Vehicle	<a href="#">more</a>
V0310	Other Vehicle Traveling Speed	990	No Other Vehicle	<a href="#">more</a>
V0311	Highest Police Injury Severity	8	No Other Vehicle	<a href="#">more</a>
V0312	Other Vehicle Type	98	No Other Vehicle	<a href="#">more</a>
V0313	Other Vehicle Wheelbase in Centimeters	998	No Other Vehicle	<a href="#">more</a>
V0314	Other Vehicle Average Track Width	998	No Other Vehicle	<a href="#">more</a>
V0315	Other Vehicle Overall Length	998	No Other Vehicle	<a href="#">more</a>
V0316	Other Vehicle Overall Width (OAW)	998	No Other Vehicle	<a href="#">more</a>
V0317	Other Vehicle Front Overhang	998	No Other Vehicle	<a href="#">more</a>
V0318	Other Vehicle Rear Overhang	998	No Other Vehicle	<a href="#">more</a>
V0319	Other Vehicle Undeformed End Width (UEW)	998	No Other Vehicle	<a href="#">more</a>

V0320	Other Vehicle Engine Displacement	0.0 l	No Other Vehicle	<a href="#">more</a>
V0321	Other Vehicle Engine: Number of Cylinders	98	No Other Vehicle	<a href="#">more</a>
V0322	Other Vehicle Direct Damage Length (DDL)	998	No Other Vehicle	<a href="#">more</a>
V0323	Other Vehicle Front-End Overlap	99	Missing or Not applicable	<a href="#">more</a>
V0324	Other Vehicle - Vehicle Overlap	99	Missing or Not applicable	<a href="#">more</a>

## Case Vehicle General

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0401	VIN	1G4HP52K2WXXXXXXX	<a href="#">Click for Case Vehicle figure</a>	<a href="#">more</a>
V0402	Manufacturer/Body Code	11129	—	—
V0403	Vehicle Manufacturer	111	Buick	<a href="#">more</a>
V0404	Vehicle Body Code	29	Full 110-114.9 in. wb.	<a href="#">more</a>
V0405	Make/model Code	0441	Le Sabre	<a href="#">more</a>
V0406	Model Year	1998	Model year	<a href="#">more</a>
V0407	Vehicle Mass	001562 kg	Mass (Kg)	<a href="#">more</a>
V0408	Odometer Reading	081929	—	—
V0409	Number of Occupants	02	2 occupants	<a href="#">more</a>
V0410	Traveling Speed	999	Unknown	<a href="#">more</a>
V0411	Body Type	14	4-door sedan	<a href="#">more</a>
V0412	Stolen Vehicle	8	Not currently collected	<a href="#">more</a>
V0413	Body Structure	1	Body and frame	<a href="#">more</a>
V0414	Transmission Type	1	Automatic	<a href="#">more</a>
V0415	Transmission Lever Location	3	Column	<a href="#">more</a>
V0416	Steering	1	Power	<a href="#">more</a>
V0417	Brakes	1	Power	<a href="#">more</a>
V0418	Brake Type	2	Disc - front wheels	<a href="#">more</a>
V0419	Adjustable Pedals?	0	No	<a href="#">more</a>
V0420	Brake Anti-lock Device	2	Four-wheel	<a href="#">more</a>
V0421	Air Conditioning in Vehicle	8	Not currently collected	<a href="#">more</a>

V0422	Drive Type	2	Front wheel	<a href="#">more</a>
V0423	Dual Rear Wheels	0	No	<a href="#">more</a>
V0424	Original Restraint System Type	3	Air bag	<a href="#">more</a>
V0425	Equipped With Roll Bar	0	No	<a href="#">more</a>
V0426	Roof Type	1	Solid	<a href="#">more</a>
V0427	Case Vehicle Wheelbase in Centimeters	281 cm	Actual Wheelbase	<a href="#">more</a>
V0428	Anti-lacerative Glass	8	Not Collected	<a href="#">more</a>
V0429	Case Vehicle average track Width	154 cm	actual measurement (cm)	<a href="#">more</a>
V0430	Case Vehicle Overall Length	510 cm	actual measurement (cm)	<a href="#">more</a>
V0431	Case Vehicle Overall Width (OAW)	190	actual measurement (cm)	<a href="#">more</a>
V0432	Case Vehicle Front Overhang	113 cm	actual measurement (cm)	<a href="#">more</a>
V0433	Case Vehicle Rear Overhang	116 cm	actual measurement (cm)	<a href="#">more</a>
V0434	Case Vehicle Undeformed End Width (UEW)	160 cm	actual measurement (cm)	<a href="#">more</a>
V0435	Case Vehicle Engine Displacement	3.8 l	Liters	<a href="#">more</a>
V0436	Case Vehicle Engine: Number of Cylinders	06	number of cylinders	<a href="#">more</a>
V0437	Case Vehicle Direct Damage Length (DDL)	999	Unknown	<a href="#">more</a>
V0438	Case Vehicle Front-end Overlap	99	Missing or Not applicable	<a href="#">more</a>
V0439	Case Vehicle - Vehicle Overlap	99	Missing or Not applicable	<a href="#">more</a>

### Case Vehicle Damage Description

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0501	Maximum Sheet Metal Crush - Front	094 cm	Depth of Crush (cm)	<a href="#">more</a>
V0502	Maximum Sheet Metal	000 cm	No Crush (or less than 1 cm.)	<a href="#">more</a>

	Crush - Rear			
V0503	Maximum Sheet Metal Crush - Roof	000 cm	No Crush (or less than 1 cm.)	<a href="#">more</a>
V0504	Maximum Sheet Metal Crush - Right Side	000 cm	No Crush (or less than 1 cm.)	<a href="#">more</a>
V0505	Maximum Sheet Metal Crush - Left Side	000 cm	No Crush (or less than 1 cm.)	<a href="#">more</a>
V0506	Maximum Sheet Metal Crush - Other	000 cm	No Crush (or less than 1 cm.)	<a href="#">more</a>
V0507	Seq In Chronological Ord	1	Yes	<a href="#">more</a>
V0508	Event 1 -impact Location	2	Shoulder/Median/Gore	<a href="#">more</a>
V0509	Event 1 -Impact Configuration	17	FRONT of case veh - object	<a href="#">more</a>
V0510	Event 1 -Object/Vehicle Contactd	77	Sign post, utility pole, tree	<a href="#">more</a>
V0511	Event 2 -impact Location	8	No 2nd event	<a href="#">more</a>
V0512	Event 2 -Impact Configuration	88	No 2nd event	<a href="#">more</a>
V0513	Event 2 -Object/Vehicle Contactd	00	No object/vehicle contacted	<a href="#">more</a>
V0514	Event 3 -impact Location	8	No 3rd event	<a href="#">more</a>
V0515	Event 3 -Impact Configuration	88	No 3rd event	<a href="#">more</a>
V0516	Event 3 -Object/Vehicle Contactd	00	No object/vehicle contacted	<a href="#">more</a>
V0517	Event 4 -impact Location	8	No 4th event	<a href="#">more</a>
V0518	Event 4 -Impact Configuration	88	No 4th event	<a href="#">more</a>
V0519	Event 4 -Object/Vehicle Contactd	00	No object/vehicle contacted	<a href="#">more</a>
V0520	Event 5 -impact Location	8	No 5th event	<a href="#">more</a>
V0521	Event 5 -Impact Configuration	88	No 5th event	<a href="#">more</a>
V0522	Event 5 -Object/Vehicle Contactd	00	No object/vehicle contacted	<a href="#">more</a>
V0523	Event 6 -impact Location	8	No 6th event	<a href="#">more</a>
V0524	Event 6 -Impact Configuration	88	No 6th event	<a href="#">more</a>
V0525	Event 6 -Object/Vehicle Contactd	00	No object/vehicle contacted	<a href="#">more</a>
V0526	Event 7 -impact Location	8	No 7th event	<a href="#">more</a>
	Event 7 -Impact			

V0527	Configuration	88	No 7th event	<a href="#">more</a>
V0528	Event 7 -Object/Vehicle Contactd	00	No object/vehicle contacted	<a href="#">more</a>
V0529	Primary CDC Case Vehicle - event Number	1	Event 1	<a href="#">more</a>
V0530	Primary CDC Case Vehicle - Impact Speed (kph)	999	Unknown	<a href="#">more</a>
V0531	Primary CDC Case Vehicle- estimatr	1	Investigator	<a href="#">more</a>
V0532	Primary CDC Case Vehicle - Crush (CM)	094	Crush measurements in cm	<a href="#">more</a>
V0533	Primary CDC Case Vehicle- clock #1	12	12 o'clock	<a href="#">more</a>
V0534	Primary CDC Case Vehicle- Letter 1 #1	06	F - Front	<a href="#">more</a>
V0535	Primary CDC Case Vehicle- Letter 2 #1	25	Y - Side or end (F + P or L + C)	<a href="#">more</a>
V0536	Primary CDC Case Vehicle- Letter 3 #1	05	E - Everything below belt line	<a href="#">more</a>
V0537	Primary CDC Case Vehicle- Letter 4 #1	14	N - Narrow impact area	<a href="#">more</a>
V0538	Primary CDC Case Vehicle - Extent #1	3	—	—
V0539	Primary CDC - Contacted Vehicles Assoc CDC - CDC #1	12FYEN3	—	—
V0540	Primary CDC Case Vehicle- clock #2	98	Not Applicable	<a href="#">more</a>
V0541	Primary CDC Case Vehicle- Letter 1 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V0542	Primary CDC Case Vehicle- Letter 2 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V0543	Primary CDC Case Vehicle- Letter 3 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V0544	Primary CDC Case Vehicle- Letter 4 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V0545	Primary CDC Case Vehicle - Extent #2	0	—	—
V0546	Primary CDC - Case Vehicle Assoc CDC - CDC #2	9800000	—	—
V0547	Primary CDC Contacted Vehicle - Impact Speed (kph)	998	Not Applicable	<a href="#">more</a>

V0548	Primary CDC Contacted Vehicle-estimator	8	Not applicable (no vehicle/no impact)	<a href="#">more</a>
V0549	Primary CDC Contacted Vehicle - Crush (CM)	998	Not Applicable	<a href="#">more</a>
V0550	Primary CDC Contacted Vehicle-clock #1	98	Not Applicable	<a href="#">more</a>
V0551	Primary CDC Contacted Vehicle-Letter 1 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V0552	Primary CDC Contacted Vehicle-Letter 2 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V0553	Primary CDC Contacted Vehicle-Letter 3 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V0554	Primary CDC Contacted Vehicle-Letter 4 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V0555	Primary CDC Contacted Vehicle - Extent #1	0	—	—
V0556	primary CDC - Contacted Vehicles Assoc CDC - CDC #1	9800000	—	—
V0557	Primary CDC Contacted Vehicle-clock #2	98	Not Applicable	<a href="#">more</a>
V0558	Primary CDC Contacted Vehicle-Letter 1 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V0559	Primary CDC Contacted Vehicle-Letter 2 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V0560	Primary CDC Contacted Vehicle-Letter 3 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V0561	Primary CDC Contacted Vehicle-Letter 4 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V0562	Primary CDC Contacted Vehicle - Extent #2	0	—	—
V0563	Primary CDC - Contacted Vehicles Assoc CDC - CDC #2	9800000	—	—
V0564	Secondary CDC Case Vehicle-event No	8	Not applicable	<a href="#">more</a>
V0565	Secondary CDC Case Vehicle - Impact Speed (kph)	998	Not Applicable	<a href="#">more</a>
V0566	Secondary CDC Case Vehicle-estimator	8	Not applicable (no vehicle/no impact)	<a href="#">more</a>
V0567	Secondary CDC Case Vehicle - Crush (CM)	998	Not Applicable	<a href="#">more</a>
	Secondary CDC Case			



V0568	Vehicle-clock #1	98	Not Applicable	<a href="#">more</a>
V0569	Secondary CDC Case Vehicle-Letter 1 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V0570	Secondary CDC Case Vehicle-Letter 2 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V0571	Secondary CDC Case Vehicle-Letter 3 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V0572	Secondary CDC Case Vehicle-Letter 4 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V0573	SECONDARY CDC CASE VEHICLE - EXTENT #1	0	—	—
V0574	Secondary CDC - Case Vehicle Assoc CDC - CDC #1	9800000	—	—
V0575	Secondary CDC Case Vehicle-clock #2	98	Not Applicable	<a href="#">more</a>
V0576	Secondary CDC Case Vehicle-Letter 1 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V0577	Secondary CDC Case Vehicle-Letter 2 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V0578	Secondary CDC Case Vehicle-Letter 3 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V0579	Secondary CDC Case Vehicle-Letter 4 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V0580	SECONDARY CDC CASE VEHICLE - EXTENT #2	0	—	—
V0581	Secondary CDC - Case Vehicle Assoc CDC - CDC #2	9800000	—	—
V0582	Secondary CDC Contacted Vehicle - Impact Speed (kph)	998	Not Applicable	<a href="#">more</a>
V0583	Secondary CDC Contacted Vehicle-estimator	8	Not applicable (no vehicle/no impact)	<a href="#">more</a>
V0584	Secondary CDC Contacted Vehicle - Crush (CM)	998	Not Applicable	<a href="#">more</a>
V0585	Secondary CDC Contacted Vehicle-clock #1	98	Not Applicable	<a href="#">more</a>
V0586	Secondary CDC Contacted Vehicle-Letter 1 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V0587	Secondary CDC Contacted Vehicle-Letter 2 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V0588	Secondary CDC Contacted Vehicle-Letter 3 #1	00	Missing Data/Not applicable	<a href="#">more</a>

V0589	Secondary CDC Contacted Vehicle-Letter 4 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V0590	Secondary CDC Contacted Vehicle - Extent #1	0	—	—
V0591	Secondary CDC - Contacted Vehicle Assoc CDC - CDC #1	9800000	—	—
V0592	Secondary CDC Contacted Vehicle-clock #2	98	Not Applicable	<a href="#">more</a>
V0593	Secondary CDC Contacted Vehicle-Letter 1 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V0594	Secondary CDC Contacted Vehicle-Letter 2 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V0595	Secondary CDC Contacted Vehicle-Letter 3 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V0596	Secondary CDC Contacted Vehicle-Letter 4 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V0597	Secondary CDC Contacted Vehicle - Extent #2	0	—	—
V0598	Secondary CDC - Contacted Vehicle Assoc CDC - CDC #2	9800000	—	—

## Crash Reconstruction

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0601	Primary Delta-V Case Vehicle-event #	1	Event number 1	<a href="#">more</a>
V0602	Primary Delta V Case Vehicle - Total Delta V	051 kph	kph	<a href="#">more</a>
V0603	Primary delta-V Case Vehicle -LONGITUD	-051	—	—
V0604	Primary delta-V Case Vehicle-Lateral	0000	—	—
V0605	Primary Delta V Case Vehicle - Energy Dissipated by Crush (k	0183	—	—
V0606	Primary Delta-V Case Vehicle-Reconstruction	22	Reconstructed, moderate confidence level	<a href="#">more</a>
V0607	Primary Delta-V Case Vehicle- Mode	2	CDC & detailed damage	<a href="#">more</a>

V0608	Primary Delta V Contacted Vehicle - Total Delta V	888	Not Applicable	<a href="#">more</a>
V0609	Primary delta-V Contacted Vehicle-LONGITUD	8888	—	—
V0610	Primary delta-V Contacted Vehicle-Lateral	8888	—	—
V0611	Primary delta-V Contacted Vehicle - Energy Dissipated by Cru	8888	—	—
V0612	Secondary Delta-V Case Vehicle-event #	8	Not applicable	<a href="#">more</a>
V0613	Secondary Delta V Case Vehicle - Total Delta V	888	Not applicable	<a href="#">more</a>
V0614	Secondarydelta-V Case Vehicle -LONGITUD	8888	—	—
V0615	Secondary delta-V Case Vehicle-Lateral	8888	—	—
V0616	Secondary delta-V Case Vehicle - Energy Dissipated by Crush	8888	—	—
V0617	Secondary Delta-V Case Vehicle-Reconstruction	88	Not applicable	<a href="#">more</a>
V0618	Secondary Delta-V Case Vehicle- Mode	8	Not applicable	<a href="#">more</a>
V0619	Secondary Delta V Contacted Vehicle - Total Delta V	888	Not applicable	<a href="#">more</a>
V0620	Secondary delta-V Contacted Vehicle-LONGITUD	8888	—	—
V0621	Secondary delta-V Contacted Vehicle-Lateral	8888	—	—
V0622	Secondary delta-V Contacted Vehicle - Energy Dissipated By C	8888	—	—
V0623	Primary EBS Case Vehicle-event #	1	Event number 1	<a href="#">more</a>
V0624	Primary EBS Case Vehicle - Total EBS	051 kph	kph	<a href="#">more</a>
V0625	Primary EBS Case Vehicle - LONGITUD	-051	—	—
V0626	Primary EBS Case Vehicle-Lateral	0000	—	—

V0627	Primary EBS Case Vehicle - Energy Dissipated by Crush (kj)	0183	—	—
V0628	Primary EBS Case Vehicle-Reconstruction	22	Reconstructed, moderate confidence level	<a href="#">more</a>
V0629	Primary EBS Case Vehicle-Mode	2	CDC & detailed damage	<a href="#">more</a>
V0630	Primary EBS Contacted Vehicle - Total EBS	888	Not Applicable	<a href="#">more</a>
V0631	Primary EBS Contacted Vehicle-LONGITUD	8888	—	—
V0632	Primary EBS Contacted Vehicle-Lateral	8888	—	—
V0633	Primary EBS Contact Vehicle - Energy Dissipated by Crush (kj)	8888	—	—
V0634	Secondary EBS Case Vehicle-event #	8	Not applicable	<a href="#">more</a>
V0635	Secondary EBS Case Vehicle - Total EBS	888	Not Applicable	<a href="#">more</a>
V0636	Secondary EBS Case Vehicle -LONGITUD	8888	—	—
V0637	Secondary EBS Case Vehicle-Lateral	8888	—	—
V0638	Secondary EBS Case Vehicle - Energy Dissipated by Crush (kj)	8888	—	—
V0639	Secondary EBS Case Vehicle-Reconstruction	88	Not applicable	<a href="#">more</a>
V0640	Secondary EBS Case Vehicle- Mode	8	Not applicable	<a href="#">more</a>
V0641	Secondary EBS Contacted Vehicle - Total EBS	888	Not Applicable	<a href="#">more</a>
V0642	Secondary EBS Contacted Vehicle-LONGITUD	8888	—	—
V0643	Secondary EBS Contacted Vehicle-Lateral	8888	—	—
V0644	Secondary EBS Contact Vehicle - Energy Dissipated by Crush (	8888	—	—
V0645	Specific Event # Case(1)	1	Event number 1	<a href="#">more</a>

V0646	Plane of Impact Case Vehicle (1)	1	Bumper	<a href="#">more</a>
V0647	Direct Damage Length (DDL) - Case Vehicle (1)	035 cm	cm	<a href="#">more</a>
V0648	Direct Damage Maximum Crush - Case Vehicle (1)	094 cm	cm	<a href="#">more</a>
V0649	Direct and Induced Damage Length in CM	118 cm	cm	<a href="#">more</a>
V0650	Field C1 - Case Vehicle (1)	057 cm	cm	<a href="#">more</a>
V0651	Field C2 - Case Vehicle (1)	094 cm	cm	<a href="#">more</a>
V0652	Field C3 - Case Vehicle (1)	062 cm	cm	<a href="#">more</a>
V0653	Field C4 - Case Vehicle (1)	060 cm	cm	<a href="#">more</a>
V0654	Field C5 - Case Vehicle (1)	023 cm	cm	<a href="#">more</a>
V0655	Field C6 - Case Vehicle (1)	009 cm	cm	<a href="#">more</a>
V0656	Direct Damage D Value = The Center of Direct Damage Offset t	-036 cm	Offset (cm)	<a href="#">more</a>
V0657	Specific Event # Case(2)	1	Event number 1	<a href="#">more</a>
V0658	Plane of Impact Case Vehicle(2)	1	Bumper	<a href="#">more</a>
V0659	Direct Damage Length (DDL) - Case Vehicle (2)	035 cm	cm	<a href="#">more</a>
V0660	Direct Damage Maximum Crush - Case Vehicle (2)	094 cm	cm	<a href="#">more</a>
V0661	Direct and Induced Damage Length in CM	118 cm	cm	<a href="#">more</a>
V0662	Field C1 - Case Vehicle (2)	057 cm	cm	<a href="#">more</a>
V0663	Field C2 - Case Vehicle (2)	094 cm	cm	<a href="#">more</a>
V0664	Field C3 - Case Vehicle (2)	062 cm	cm	<a href="#">more</a>
V0665	Field C4 - Case Vehicle (2)	060 cm	cm	<a href="#">more</a>
V0666	Field C5 - Case Vehicle (2)	023 cm	cm	<a href="#">more</a>
V0667	Field C6 - Case Vehicle (2)	009 cm	cm	<a href="#">more</a>
V0668	Direct Damage D Value = The Center of Direct Damage Offset t	-036 cm	cm	<a href="#">more</a>
V0669	Specific Event # Cont(1)	9	Unknown	<a href="#">more</a>
V0670	Plane of Impact Contacted Vehicle(1)	9	Unknown	<a href="#">more</a>
V0671	Direct Damage Length (DDL) - Contacted Vehicle (1)	999	Unknown	<a href="#">more</a>

V0672	Direct Damage Maximum Crush - Contacted Vehicle (1)	999	Unknown	<a href="#">more</a>
V0673	Field L - Contacted Vehicle (1)	999	Unknown	<a href="#">more</a>
V0674	Field C1 - Contacted Vehicle (1)	999	Unknown	<a href="#">more</a>
V0675	Field C2 - Contacted Vehicle (1)	999	Unknown	<a href="#">more</a>
V0676	Field C3 - Contacted Vehicle (1)	999	Unknown	<a href="#">more</a>
V0677	Field C4 - Contacted Vehicle (1)	999	Unknown	<a href="#">more</a>
V0678	Field C5 - Contacted Vehicle (1)	999	Unknown	<a href="#">more</a>
V0679	Field C6 - Contacted Vehicle (1)	999	Unknown	<a href="#">more</a>
V0680	Direct Damage D Value = The Center of Direct Damage Offset t	9999	offset (cm)	<a href="#">more</a>
V0681	Specific Event # Contacted Vehicle (2)	9	Unknown	<a href="#">more</a>
V0682	Plane of Impact Contacted Vehicle(2)	9	Unknown	<a href="#">more</a>
V0683	Direct Damage Length (DDL) - Contacted Vehicle (2)	999	Unknown	<a href="#">more</a>
V0684	Direct Damage Maximum Crush - Contacted Vehicle (2)	999	Unknown	<a href="#">more</a>
V0685	Direct and Induced Damage Length in CM	999	Unknown	<a href="#">more</a>
V0686	Field C1 - Contacted Vehicle (2)	999	Unknown	<a href="#">more</a>
V0687	Field C2 - Contacted Vehicle (2)	999	Unknown	<a href="#">more</a>
V0688	Field C3 - Contacted Vehicle (2)	999	Unknown	<a href="#">more</a>
V0689	Field C4 - Contacted Vehicle (2)	999	Unknown	<a href="#">more</a>
V0690	Field C5 - Contacted Vehicle (2)	999	Unknown	<a href="#">more</a>
V0691	Field C6 - Contacted Vehicle (2)	999	Unknown	<a href="#">more</a>

V0692	Direct Damage D Value = The Center of Direct Damage Offset t	9999	Offset (cm)	<a href="#">more</a>
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## Case Vehicle Tires & Rims

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0701	Left Front Wheel Damaged	0	No	<a href="#">more</a>
V0702	Right Front Wheel Damaged	0	No	<a href="#">more</a>
V0703	Right Rear Wheel Damaged	0	No	<a href="#">more</a>
V0704	Left Rear Wheel Damaged	0	No	<a href="#">more</a>
V0705	Left Front Tire Tread Type	4	All Weather	<a href="#">more</a>
V0706	Right Front Tire Tread Type	4	All Weather	<a href="#">more</a>
V0707	Right Rear Tire Tread Type	4	All Weather	<a href="#">more</a>
V0708	Left Rear Tire Tread Type	4	All Weather	<a href="#">more</a>
V0709	Left Front Carcass Construction	3	Radial	<a href="#">more</a>
V0710	Right Front Carcass Construction	3	Radial	<a href="#">more</a>
V0711	Right Rear Carcass Construction	3	Radial	<a href="#">more</a>
V0712	Left Rear Carcass Construction	3	Radial	<a href="#">more</a>
V0713	Left Front Tire Condition Precrash	0	Normal - no pre-crash problems	<a href="#">more</a>
V0714	Right Front Tire Condition Precrash	0	Normal - no pre-crash problems	<a href="#">more</a>
V0715	Right Rear Tire Condition Precrash	0	Normal - no pre-crash problems	<a href="#">more</a>
V0716	Left Rear Tire Condition Precrash	0	Normal - no pre-crash problems	<a href="#">more</a>
V0717	Left Front Tire Condition Postcrash	0	Normal - no damage to tire	<a href="#">more</a>
V0718	Right Front Tire Condition Postcrash	0	Normal - no damage to tire	<a href="#">more</a>
V0719	Right Rear Tire Condition Postcrash	0	Normal - no damage to tire	<a href="#">more</a>
V0720	Left Rear Tire Condition Postcrash	0	Normal - no damage to tire	<a href="#">more</a>

V0721	Left Front Tire Involvement	0	No	<a href="#">more</a>
V0722	Right Front Tire Involvement	0	No	<a href="#">more</a>
V0723	Right Rear Tire Involvement	0	No	<a href="#">more</a>
V0724	Left Rear Tire Involvement	0	No	<a href="#">more</a>
V0725	Left Front Tire Size	P20570R15	—	—
V0726	Right Front Tire Size	P20570R15	—	—
V0727	Right Rear Tire Size	P20570R15	—	—
V0728	Left Rear Tire Size	P20570R15	—	—
V0729	Left Front Tire Pressure (recorded in psi)	29.0 psi	Actual tire pressure in psi	<a href="#">more</a>
V0730	Right Front Tire Pressure (recorded in psi)	26.0 psi	Actual tire pressure in psi	<a href="#">more</a>
V0731	Right Rear Tire Pressure (recorded in psi)	25.0 psi	Actual tire pressure in psi	<a href="#">more</a>
V0732	Left Rear Tire Pressure (recorded in psi)	28.0 psi	Actual tire pressure in psi	<a href="#">more</a>
V0733	Left Front Tread Depth	07	07/32"	<a href="#">more</a>
V0734	Right Front Tread Depth	09	09/32"	<a href="#">more</a>
V0735	Right Rear Tread Depth	08	08/32"	<a href="#">more</a>
V0736	Left Rear Tread Depth	08	08/32"	<a href="#">more</a>

### Case Vehicle Fuel Tank

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0801	Propulsive Fuel Type	1	Gasoline	<a href="#">more</a>
V0802	Main Tank Location	322	Within frame/centered laterally - within vertical	<a href="#">more</a>
V0803	Main Filler Cap Location	113	Left of frame laterally - above vertically	<a href="#">more</a>
V0804	Main Tank Material	1	Steel	<a href="#">more</a>
V0805	Aux Tank Type	8	Not applicable (not equipped)	<a href="#">more</a>
V0806	Aux Tank Location	888	Not applicable (not equipped)	<a href="#">more</a>
V0807	Aux Filler Cap Location	888	Not applicable (not equipped)	<a href="#">more</a>
V0808	Aux Tank Material	8	Not applicable	<a href="#">more</a>

### Case Vehicle Fuel Leakage

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V0901	Fuel Leakage From Crash	0	No	<a href="#">more</a>

### Case Vehicle Fire

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V1001	Fire In Or On Case Vehicle	0	No	<a href="#">more</a>

### Case Vehicle Exterior

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Variable Number	Variable Name	Code Value	Code Description	Other Options
V1101	Hood Latch Released	0	No	<a href="#">more</a>
V1102	Hood Latch Damaged	1	Yes	<a href="#">more</a>
V1103	Hood Latch Jammed	1	Yes	<a href="#">more</a>
V1104	Left Hood Hinge Damaged	9	Unknown	<a href="#">more</a>
V1105	Left Hood Hinge Separated	0	No	<a href="#">more</a>
V1106	Right Hood Hinge Damaged	0	No	<a href="#">more</a>
V1107	Right Hood Hinge Separated	8	Not applicable	<a href="#">more</a>
V1108	Hood Remained On Vehicle	1	Yes	<a href="#">more</a>
V1109	Rear Hood Edge Elevated	1	Yes	<a href="#">more</a>
V1110	Edge Contacted Windshield	0	No	<a href="#">more</a>
V1111	Edge Penetrated Windshield	8	Not applicable	<a href="#">more</a>
V1112	Hood Latch Location	1	Front of Vehicle	<a href="#">more</a>
V1113	Eng/transmissn Mount Separated	0	No	<a href="#">more</a>
V1114	Steering Column Flex Couplng	9	Unknown if equipped	<a href="#">more</a>
V1115	Steering Column Coupling Dam	9	Unknown	<a href="#">more</a>
V1116	Steering Column Coupling Separated	9	Unknown	<a href="#">more</a>
V1117	Eng Comp Telescopng Unit	88	Not currently collected	<a href="#">more</a>
V1118	Compartment Unit's Original/telescoped Length Difference	888	Not currently collected	<a href="#">more</a>
V1119	Left Side Body Mount Separated	0	No	<a href="#">more</a>

V1120	Upper Left A-pillar Sep	4	No separation, but damaged	<a href="#">more</a>
V1121	Lower Left A-pillar Sep	4	No separation, but damaged	<a href="#">more</a>
V1122	Upper Left B-pillar Sep	0	No	<a href="#">more</a>
V1123	Lower Left B-pillar Sep	0	No	<a href="#">more</a>
V1124	Upper Left C-pillar Sep	0	No	<a href="#">more</a>
V1125	Lower Left C-pillar Sep	0	No	<a href="#">more</a>
V1126	Upper Left D-pillar Sep	8	Not applicable (not equipped)	<a href="#">more</a>
V1127	Lower Left D-pillar Sep	8	Not applicable (not equipped)	<a href="#">more</a>
V1128	Left Front Door Opening Cause	00	Door did not open	<a href="#">more</a>
V1129	Left Rear Door Opening Cause	00	Door did not open	<a href="#">more</a>
V1130	Left Front Door Jammed Closed	1	Yes	<a href="#">more</a>
V1131	Left Rear Door Jammed Closed	0	No	<a href="#">more</a>
V1132	Van Left Rear Door Type	8	Not applicable (not a van)	<a href="#">more</a>
V1133	Left Front Glazing Availability	2	Closed	<a href="#">more</a>
V1134	Left Rear Glazing Availability	2	Closed	<a href="#">more</a>
V1135	Lr2 Glazing Availability	1	Fixed	<a href="#">more</a>
V1136	Left Front Glazing Damage	0	No damage	<a href="#">more</a>
V1137	Left Rear Glazing Damage	0	No damage	<a href="#">more</a>
V1138	Lr2 Glazing Damage	0	No damage	<a href="#">more</a>
V1139	Rear Door Type	0	No door (includes pickups)	<a href="#">more</a>
V1140	Rear Door Opening Cause	8	Not applicable (no rear door)	<a href="#">more</a>
V1141	Rear Door Jammed Closed	8	Not applicable (no rear door)	<a href="#">more</a>
V1142	Rear Glazing Availability	8	Not Applicable (No Door)	<a href="#">more</a>
V1143	Rear Glazing Damage	8	Not Applicable (No Door)	<a href="#">more</a>
V1144	Luggage Partition Damaged	0	No	<a href="#">more</a>
V1145	Spare Tire Status	8	Not collected	<a href="#">more</a>
V1146	Trailer Hitch Type	0	No hitch	<a href="#">more</a>
V1147	Trailer Type	0	No trailer	<a href="#">more</a>
V1148	Rght Side Body Mount Separated	0	No	<a href="#">more</a>
V1149	Upper Right A-pillar Separated	0	No	<a href="#">more</a>
V1150	Lower Right A-pillar Separated	0	No	<a href="#">more</a>

V1151	Upper Right B-pillar Separated	0	No	<a href="#">more</a>
V1152	Lower Right B-pillar Separated	0	No	<a href="#">more</a>
V1153	Upper Right C-pillar Separated	0	No	<a href="#">more</a>
V1154	Lower Right C-pillar Separated	0	No	<a href="#">more</a>
V1155	Upper Right D-pillar Separated	8	Not applicable (not equipped)	<a href="#">more</a>
V1156	Lower Right D-pillar Separated	8	Not applicable (not equipped)	<a href="#">more</a>
V1157	Right Front Door Opening Cause	00	Door did not open	<a href="#">more</a>
V1158	Right Rear Door Opening Cause	00	Door did not open	<a href="#">more</a>
V1159	Right Front Door Jammed Closed	0	No	<a href="#">more</a>
V1160	Right Rear Door Jammed Closed	0	No	<a href="#">more</a>
V1161	Van Right-rear Door Type	8	Not applicable (not a van)	<a href="#">more</a>
V1162	Right Front Glazing Availability	2	Closed	<a href="#">more</a>
V1163	Right Rear Glazing Availability	2	Closed	<a href="#">more</a>
V1164	Rr2 Glazing Availability	1	Fixed	<a href="#">more</a>
V1165	Right Front Glazing Damage	0	No damage	<a href="#">more</a>
V1166	Right Rear Glazing Damage	0	No damage	<a href="#">more</a>
V1167	Rr2 Glazing Damage	0	No damage	<a href="#">more</a>
V1168	Windshield Cracked	1	Yes	<a href="#">more</a>
V1169	Windshield Broken	0	No <a href="#">Click for Windshield Damage figure</a>	<a href="#">more</a>
V1170	Occupant Cracked/Broke Wndshld	0	No	<a href="#">more</a>
V1171	Bond Separation Extent	0	None	<a href="#">more</a>
V1172	Windshield Code	99	<a href="#">Click for Windshield Mark figure</a>	<a href="#">more</a>
V1173	Did Sun Roof/T-Roof Open	8	Not Applicable	<a href="#">more</a>

### Case Vehicle Steering Column/Rim

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Variable Number	Variable Name	Code Value	Code Description	Other Options
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V1201	Steering Wheel Rim Damage	0	None	<a href="#">more</a>
V1202	Number of Steering Wheel Spokes	4	4 spokes	<a href="#">more</a>
V1203	Steering Wheel Spoke Damage	0	None	<a href="#">more</a>
V1204	Steering Wheel Hub Damage	0	None	<a href="#">more</a>
V1205	Steering Wheel Location of Rim Damage	0	No damage	<a href="#">more</a>
V1206	Aftermarket Add-on Device	0	None	<a href="#">more</a>
V1207	Column Tilt Feature	2	Up	<a href="#">more</a>
V1208	Column Swing-away Feature	0	Not equipped	<a href="#">more</a>
V1209	Column Telescoping Feature	0	Not equipped	<a href="#">more</a>
V1210	Wheel Energy Absorb Device	8	Not currently collected	<a href="#">more</a>
V1211	Wheel EA Device's original/damage Dimension Difference	888	Not collected	<a href="#">more</a>
V1212	Column Energy Absorb Device	88	Not collected	<a href="#">more</a>
V1213	Col EA Device's Orig/compressed (or Extruded) Length Diff	888	Not collected	<a href="#">more</a>
V1214	Shear Capsule Separation	888	Not collected	<a href="#">more</a>
V1215	Column Vertical Rotation	1	Upward apparent rotation	<a href="#">more</a>
V1216	Column Lateral Rotation	0	No apparent rotation	<a href="#">more</a>

## Case Vehicle Intrusion

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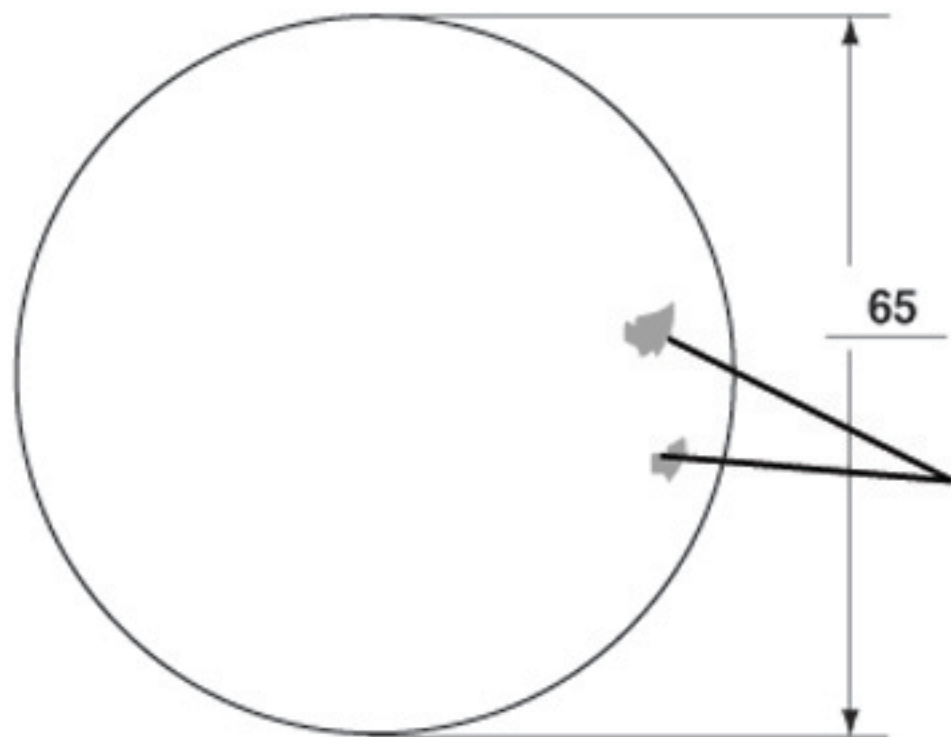
Variable Number	Variable Name	Code Value	Code Description	Other Options
V1301	Was Occupant Compartment Intruded	1	Yes <a href="#">Click for Intrusion Worksheet figure</a> <a href="#">Click for Intrusion figure</a>	<a href="#">more</a>
V1302	Was Intrusn Catastrophic	0	No	<a href="#">more</a>
V1303	Intrusion Number #1	01	Intrusion #1	<a href="#">more</a>
V1304	Occupant Space Number(1)	11	First row, Left seat	<a href="#">more</a>
V1305	Intrud Component/obj (1)	03	Toe pan	<a href="#">more</a>
V1306	Associate Event Numb (1)	1	Event #1	<a href="#">more</a>
V1307	Maximum Intrusion X Axis	12 cm	Intrusion (cm)	<a href="#">more</a>
V1308	Maximum Intrusion Y Axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1309	Maximum Intrusion Z Axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1310	Occupant Number #1 (1)	00	No contact or no intrusion	<a href="#">more</a>

V1311	Injury Number #1 (1)	00	No injury or no intrusion	<a href="#">more</a>
V1312	Occupant Number #2 (1)	00	No contact or no intrusion	<a href="#">more</a>
V1313	Injury Number #2 (1)	00	No injury or no intrusion	<a href="#">more</a>
V1314	Intrusion Number #2	02	Intrusion #2	<a href="#">more</a>
V1315	Occupant Space Number(2)	11	First row, Left seat	<a href="#">more</a>
V1316	Intrud Component/obj (2)	01	Instrument panel	<a href="#">more</a>
V1317	Associate Event Numb (2)	1	Event #1	<a href="#">more</a>
V1318	Maximum Intrusion X Axis	04 cm	Intrusion (cm)	<a href="#">more</a>
V1319	Maximum Intrusion Y Axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1320	Maximum Intrusion Z Axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1321	Occupant Number #1 (2)	00	No contact or no intrusion	<a href="#">more</a>
V1322	Injury Number #1 (2)	00	No injury or no intrusion	<a href="#">more</a>
V1323	Occupant Number #2 (2)	00	No contact or no intrusion	<a href="#">more</a>
V1324	Injury Number #2 (2)	00	No injury or no intrusion	<a href="#">more</a>
V1325	Intrusion Number #3	03	Intrusion #3	<a href="#">more</a>
V1326	Occupant Space Number(3)	23	Second row, Right seat	<a href="#">more</a>
V1327	Intrud Component/obj (3)	04	Floor pan	<a href="#">more</a>
V1328	Associate Event Numb (3)	1	Event #1	<a href="#">more</a>
V1329	Maximum Intrusion X Axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1330	Maximum Intrusion Y Axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1331	Maximum Intrusion Z Axis	03 cm	Intrusion (cm)	<a href="#">more</a>
V1332	Occupant Number #1 (3)	00	No contact or no intrusion	<a href="#">more</a>
V1333	Injury Number #1 (3)	00	No injury or no intrusion	<a href="#">more</a>
V1334	Occupant Number #2 (3)	00	No contact or no intrusion	<a href="#">more</a>
V1335	Injury Number #2 (3)	00	No injury or no intrusion	<a href="#">more</a>
V1336	Intrusion Number #4	99	Unknown or data not collected	<a href="#">more</a>
V1337	Occupant Space Number(4)	99	Unknown or data not collected	<a href="#">more</a>
V1338	Intrud Component/obj (4)	99	Unknown or data not collected	<a href="#">more</a>
V1339	Associate Event Numb (4)	9	Unknown or data not collected	<a href="#">more</a>
V1340	Maximum Intrusion X Axis	99	Unknown or data not collected	<a href="#">more</a>
V1341	Maximum Intrusion Y Axis	99	Unknown or data not collected	<a href="#">more</a>
V1342	Maximum Intrusion Z Axis	99	Unknown or data not collected	<a href="#">more</a>
V1343	Occupant Number #1 (4)	99	Unknown or data not collected	<a href="#">more</a>
V1344	Injury Number #1 (4)	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1345	Occupant Number #2 (4)	99	Unknown or data not collected	<a href="#">more</a>
V1346	Injury Number #2 (4)	99	Contact, injury unknown or data not collected	<a href="#">more</a>

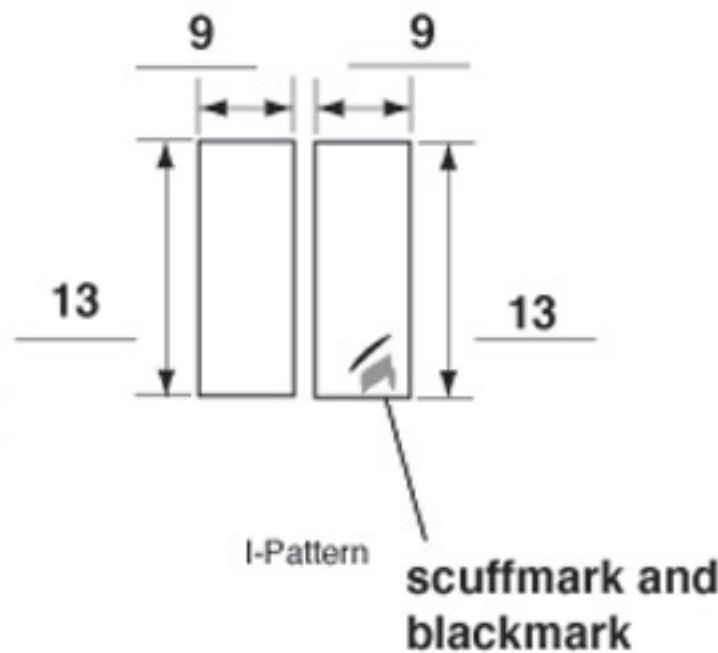
V1347	Intrusion Number #5	99	Unknown or data not collected	<a href="#">more</a>
V1348	Occupant Space Number(5)	99	Unknown or data not collected	<a href="#">more</a>
V1349	Intrud Component/obj (5)	99	Unknown or data not collected	<a href="#">more</a>
V1350	Associate Event Numb (5)	9	Unknown or data not collected	<a href="#">more</a>
V1351	Maximum Intrusion X Axis	99	Unknown or data not collected	<a href="#">more</a>
V1352	Maximum Intrusion Y Axis	99	Unknown or data not collected	<a href="#">more</a>
V1353	Maximum Intrusion Z Axis	99	Unknown or data not collected	<a href="#">more</a>
V1354	Occupant Number #1 (5)	99	Unknown or data not collected	<a href="#">more</a>
V1355	Injury Number #1 (5)	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1356	Occupant Number #2 (5)	99	Unknown or data not collected	<a href="#">more</a>
V1357	Injury Number #2 (5)	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1358	Intrusion Number #6	99	Unknown or data not collected	<a href="#">more</a>
V1359	Occupant Space Number(6)	99	Unknown or data not collected	<a href="#">more</a>
V1360	Intrud Component/obj (6)	99	Unknown or data not collected	<a href="#">more</a>
V1361	Associate Event Numb (6)	9	Unknown or data not collected	<a href="#">more</a>
V1362	Maximum Intrusion X Axis	99	Unknown or data not collected	<a href="#">more</a>
V1363	Maximum Intrusion Y Axis	99	Unknown or data not collected	<a href="#">more</a>
V1364	Maximum Intrusion Z Axis	99	Unknown or data not collected	<a href="#">more</a>
V1365	Occupant Number #1 (6)	99	Unknown or data not collected	<a href="#">more</a>
V1366	Injury Number #1 (6)	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1367	Occupant Number #2 (6)	99	Unknown or data not collected	<a href="#">more</a>
V1368	Injury Number #2 (6)	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1369	Intrusion Number #7	99	Unknown or data not collected	<a href="#">more</a>
V1370	Occupant Space Number(7)	99	Unknown or data not collected	<a href="#">more</a>
V1371	Intrud Component/obj (7)	99	Unknown or data not collected	<a href="#">more</a>
V1372	Associate Event Numb (7)	9	Unknown or data not collected	<a href="#">more</a>
V1373	Maximum Intrusion X Axis	99	Unknown or data not collected	<a href="#">more</a>
V1374	Maximum Intrusion Y Axis	99	Unknown or data not collected	<a href="#">more</a>
V1375	Maximum Intrusion Z Axis	99	Unknown or data not collected	<a href="#">more</a>
V1376	Occupant Number #1 (7)	99	Unknown or data not collected	<a href="#">more</a>
V1377	Injury Number #1 (7)	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1378	Occupant Number #2 (7)	99	Unknown or data not collected	<a href="#">more</a>
V1379	Injury Number #2 (7)	99	Contact, injury unknown or data not collected	<a href="#">more</a>

V1380	Intrusion Number #8	99	Unknown or data not collected	<a href="#">more</a>
V1381	Occupant Space Number(8)	99	Unknown or data not collected	<a href="#">more</a>
V1382	Intrud Component/obj (8)	99	Unknown or data not collected	<a href="#">more</a>
V1383	Associate Event Numb (8)	9	Unknown or data not collected	<a href="#">more</a>
V1384	Maximum Intrusion X Axis	99	Unknown or data not collected	<a href="#">more</a>
V1385	Maximum Intrusion Y Axis	99	Unknown or data not collected	<a href="#">more</a>
V1386	Maximum Intrusion Z Axis	99	Unknown or data not collected	<a href="#">more</a>
V1387	Occupant Number #1 (8)	99	Unknown or data not collected	<a href="#">more</a>
V1388	Injury Number #1 (8)	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1389	Occupant Number #2 (8)	99	Unknown or data not collected	<a href="#">more</a>
V1390	Injury Number #2 (8)	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1391	Intrusion Number #9	99	Unknown or data not collected	<a href="#">more</a>
V1392	Occupant Space Number(9)	99	Unknown or data not collected	<a href="#">more</a>
V1393	Intrud Component/obj (9)	99	Unknown or data not collected	<a href="#">more</a>
V1394	Associate Event Numb (9)	9	Unknown or data not collected	<a href="#">more</a>
V1395	Maximum Intrusion X Axis	99	Unknown or data not collected	<a href="#">more</a>

Driver Airbag



Driver Airbag Doors



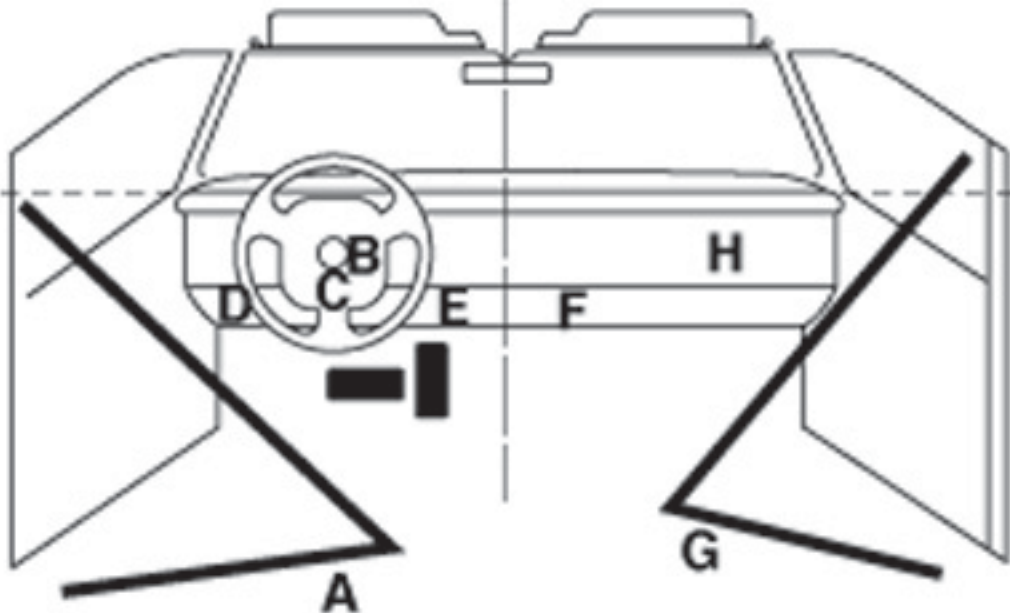
Vents:  Y  N

if yes, how many: 2

Tethers:  Y  N

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





- A = Driver seatbelt, loading marks**
- B = Steering wheel airbag right flap, scuff**
- C = Steering wheel airbag, blood**
- D = Knee bolster, scuff**
- E = Knee bolster, scuff**
- F = Knee bolster, liquid spray residue**
- G = Right front seatbelt, loading marks**
- H = Right front dash-mounted airbag, scuff mark**

1 = Definitely 2 = Probably 3 = Possible

INTRUSION IT-1

Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters)					Dominant Crush Direction
		Comparison Value	–	Intruded Value	=	Intrusion	
11	Toe pan	24	–	12	=	12	rear
11	Instrument panel	75	–	71	=	4	rear
23	Floor		–		=	3	up
			–		=		
			–		=		
			–		=		
			–		=		
			–		=		
			–		=		

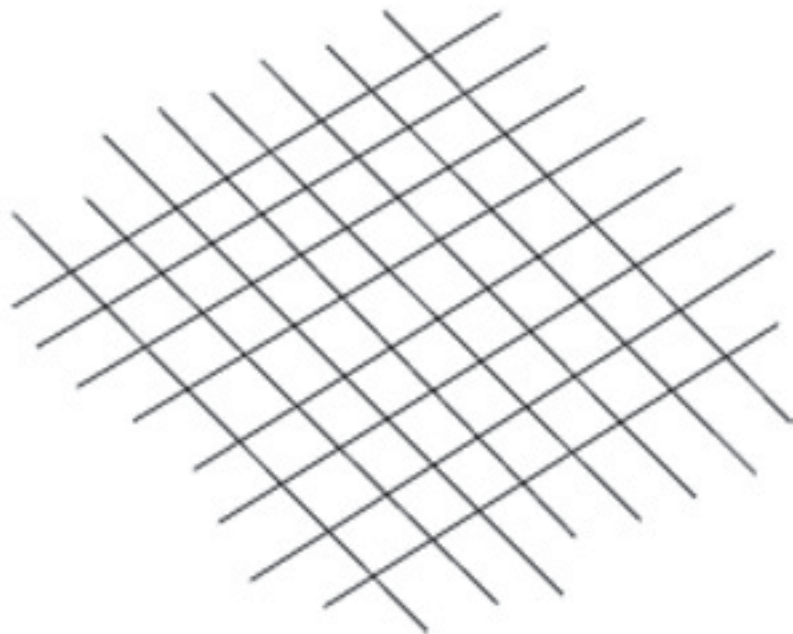
OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	Driver seatbelt	DR	Chest	loading marks	1
B	Right steering-wheel airbag flap	Unknown	Unknown	scuff	1
C	Steering-wheel airbag	Unknown	Unknown	blood	1
D	Knee bolster	DR	Lt LX	scuff	1
E	Knee bolster	DR	Rt. LX	scuff	1
F	Knee bolster	Unknown	Unknown	liquid spray residue	3
G	Right front seatbelt	RF	Chest/Abdomen	loading marks	1
H	Right front dash-mounted airbag	RF	Unknown	scuff mark	2

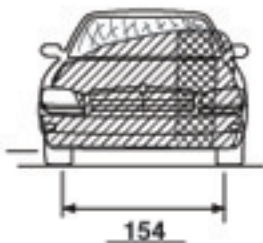


**Windshield cracked due to impact forces and left upper A-pillar displacement**

WINDSHIELD MARK ON CASE VEHICLE:

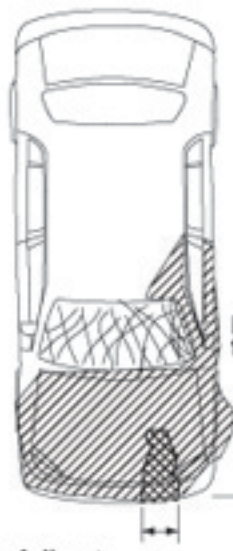


MEASUREMENTS IN CENTIMETERS



Original  
Bumper Height

34

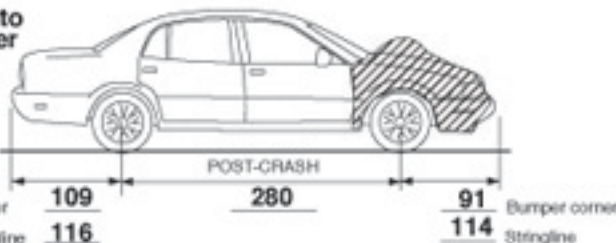
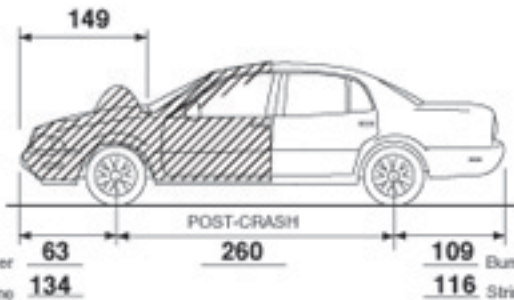


Max. crush to  
front bumper

94

Bumper corner

Stringline

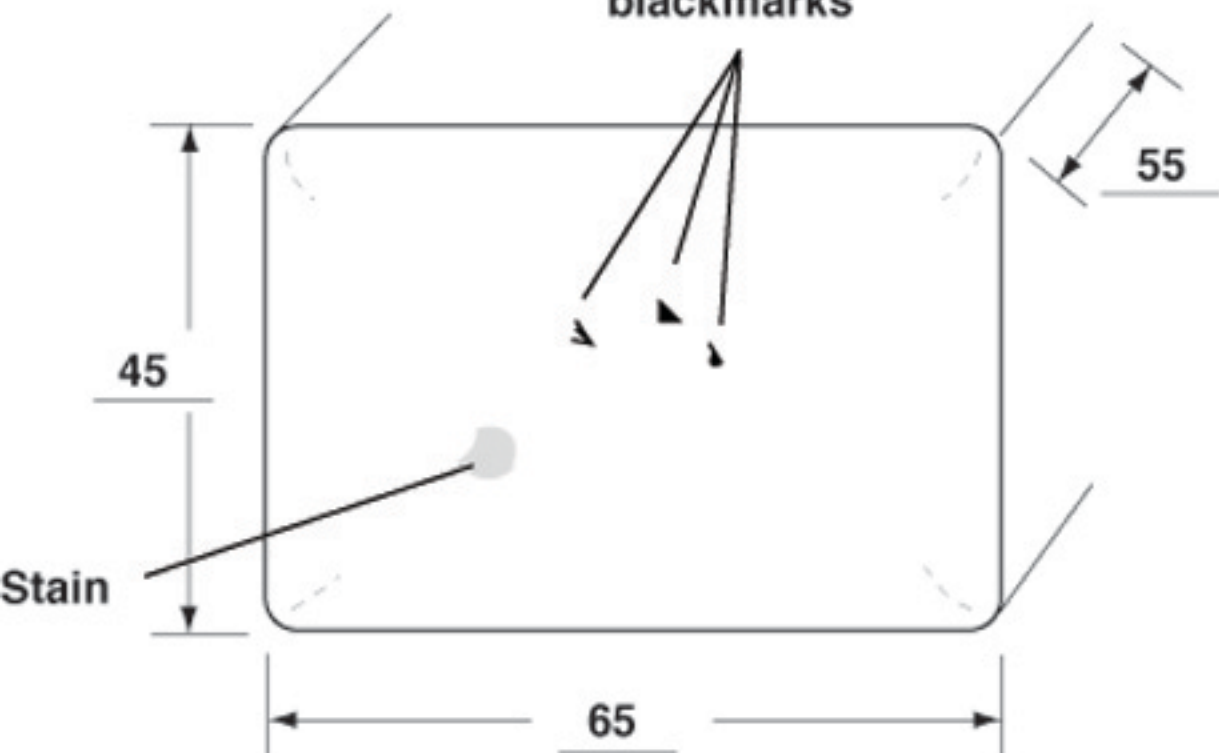


Width of direct  
damage to front

35

Passenger Airbag

blackmarks



Passenger Airbag Doors

Single Door



Vents:  Y  N  
if yes, how many: 1

Tethers:  Y  N  
if yes, how many: 1

at 3 o'clock



















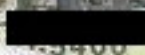
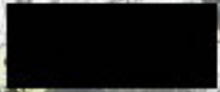








AIR BAG WARNING





WARNING

DEATHS BY AIRBAGS INFLATE WITH FORCE.  
• Children 12 and under shouldn't be seated by the air bag.  
• The SEATBELT is the SAFEST place for children.  
• NEVER put a child sleeping or out of consciousness  
into the back of a passenger car or SUV.



LE SABRE

SUPPLEMENTAL  
RESTRAINT SYSTEM

















E I F B  
LOCK BRANGES

VOLUME  
BAL  
RECALL  
FADE  
TUNE  
AM/FM  
SEEK  
EJECT  
PREV  
NEXT  
SCAN  
LOCK  
UNLOCK  
DISC

RECIRC  
OFF  
TEMPERATURE  
FAN  
LOW  
HIGH  
VENT  
HTR  
BLIND  
FRONT  
MAX  
NORM  
BI-LEV  
REAR







AIR BAG  
WARNING







**WARNING**

**DEATH or SERIOUS INJURY can occur.**

- Children 12 and under can be killed by the air bag.
- The BACK SEAT is the SAFEST place for children.
- NEVER put a rear-facing child seat in the front.
- Sit as far back as possible from the air bag.
- ALWAYS use proper SEATBELT and CHILD RESTRAINTS.













20 30 40 50 60 70 80

P



SUPPLEMENTAL  
RESTRAINT SYSTEM



P



SUPPLEMENTAL  
RESTRAINT SYSTEM



























00

04/23/30  
1

























