

## Case 445 : Narrative

Case Vehicle (A): 2002 Ford	Vehicle (B): 2002 International
E150 Econoline Van, 4x2	Type: 4300 Series Straight truck, 4x2
Driver: 62-year-old female	Driver: 50-year-old male
CDC: 12-FDEW-3	CDC: 99-0000-0

### SITUATION

[1](#) [2](#) On a cloudy day, case vehicle (A) was traveling west at a driver-estimated speed of 45 mph (72 kph) in the outside westbound lane of a four-lane, divided, limited-access highway in an urban area. The road surface was dry and the speed limit was 70 mph (113 kph) but the overpass bridges were under construction, causing the westbound traffic to become congested and traffic to come to a halt. Vehicle (B) was stopped facing west in the outside westbound lane on the same road and was ahead of case vehicle (A) and behind several cars that were also stopped for the construction. The driver of case vehicle (A) failed to stop for the traffic and the front of case vehicle (A) struck and went under the rear of vehicle (B).

Case vehicle (A) was towed from the scene and vehicle (B) was driven away. The police accident report (PAR) indicates C-level injuries for the driver of case vehicle (A) and she was treated at the scene. The PAR did not indicate any information on the passenger seated in the left second row of case vehicle (A). The PAR indicates O-level injuries for the driver of vehicle (B), who did not seek treatment.

### GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

[3](#) Direct damage to the front of case vehicle (A) was moderate and extended 180-cm across the entire front of the vehicle, with the [4](#) [5](#) majority of the damage occurring above the bumper. [6](#) The maximum frontal crush was 40 cm and it occurred above the left-front bumper corner in an override-type damage pattern.

[7](#) [8](#) [9](#) [10](#) [11](#) Using the WinSMASH crash-reconstruction program and crush profiles measured at and [12](#) [13](#) [14](#) above the front bumper for case vehicle (A), the following impact severity was calculated for the impact between the front of case vehicle (A) and the rear of vehicle (B):

### DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

#### Exterior

[15](#) [16](#) [17](#) In the front, the entire front end, including the bumper, the grille, the radiator, and engine components were crushed rearward and both headlamps were damaged and torn off. The hood latch was damaged and released [18](#) [19](#) [20](#) and the hood was completely separated from the vehicle. [21](#) Deformation to the lower-right corner of the cowl caused some vertical cracks in the right section of the windshield and there were minor cracks radiating across [22](#) the center and [23](#) left sections of the

windshield.

[24](#) [25](#) On the right side, the fender was deformed. [26](#) The rear section of the right-front bumper was pushed rearward against the right-front tire, but there was no damage to the right-front wheel or tire. [27](#) Both of the right-side doors were undamaged and operational and the [28](#) right-side glazing was intact. [29](#) There were scrape marks on the sidewall of the right-rear tire, but there was no damage to the wheel and there was no change in the right wheelbase. There was no other damage to the right side of the case vehicle.

[30](#) On the left side, the fender was deformed and [31](#) the left side of the front bumper was pushed rearward against the left-front tire, but there was no damage to the left-front wheel or tire. The front axle was bent and the left wheelbase was reduced by 6 cm. [32](#) There was no damage to the left-rear wheel or tire. [33](#) The driver door was undamaged and operational and [34](#) the left-side glazing was intact. [35](#) There was no other damage to the left side or [36](#) [37](#) to the rear of the case vehicle.

## Interior

[38](#) This vehicle was equipped with steering-wheel and dash-mounted frontal-impact airbags, which deployed during the frontal impact into the rear of vehicle (B). [39](#) In the driver seating area, there was no damage to the roof, to the roof header, or to the left A-pillar. [40](#) [41](#) There was no damage to the steering-wheel rim and [42](#) [43](#) there was no rotation of the steering column. [44](#) There was no damage to the steering-wheel airbag or [45](#) to the airbag module cover, [46](#) but there was facial makeup on the center section of the airbag. [47](#) There was no damage to the upper or mid portions of the instrument panel, [48](#) [49](#) [50](#) but there were scuffmarks on the knee bolster cover to the right of the steering column. [51](#) There was no damage to the floor, to the foot controls, or [52](#) to the interior of the driver door. [53](#) [54](#) The driver seatback was damaged, the fore/aft seat adjuster was jammed, and the seat was displaced forward from loading by the unbelted left-rear passenger.

[55](#) [56](#) There was no damage in the center-front seating area. [57](#) In the right-front seating area, [58](#) [59](#) the module cover of the deployed dash-mounted airbag was bent up but [60](#) there was no damage to the airbag. There was no other damage in the right-front seating area.

[61](#) [62](#) In the second-row seating area, the door cover over the VCR located in the left-side panel was broken and separated from its attachments. [63](#) There was no other damage to the rear seating area.

## OCCUPANT KINEMATICS AND INJURIES

[64](#) [65](#) The 165-cm, 66-kg (5-ft 5-in, 145-lb) 62-year-old female driver was using the three-point belt [70](#) with the shoulder-belt anchor point adjusted to the highest position on the B-pillar, and the [44](#) [46](#) steering-wheel airbag deployed. Belt use at the time of the crash is indicated by loading marks on the [66](#) D-ring, [67](#) on the continuous loop of the latch plate, [68](#) [69](#) and on the shoulder-belt webbing.

During the frontal impact, the driver moved forward relative to the vehicle interior, into the three-point belt and [44](#) [46](#) airbag. She sustained a laceration below the right knee [49](#) [50](#) from contact with the knee bolster.

[71](#) The 152-cm, 66-kg (5-ft, 145-lb) 20-year-old male left second-seat passenger was not using the three-point belt as evidenced by the lack of loading marks on the D-ring and [72](#) continuous loop of the latch plate. [73](#) During the frontal impact, he moved forward and loaded the back of the driver seatback, but he did not sustain any injuries.

The following tables [74](#) [75](#) and attached drawings summarize the injuries and injury sources for the two occupants.

Occupant: Driver	Age: 62 years	Gender: Female		
Restraints: 3-point belt, steering-wheel airbag	Stature: 165 cm (5 ft, 5 in)	Mass: 66 kg (145 lb)		
Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
—	—			
Laceration, below right knee	1	Knee bolster	—	—
Maximum A.I.S. Level	1	—	—	—
Injury Severity Score	1	—	—	—

Occupant: Left second	Age: 20 years	Gender: Male		
Restraints: None	Stature: 152 cm (5 ft)	Mass: 66 kg (145 lb)		
Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
—	—			
No injury	—	—	—	—
Maximum A.I.S. Level	0	—	—	—
Injury Severity Score	0	—	—	—

CASE NO.: 445

CASE VEHICLE: 2002 Ford

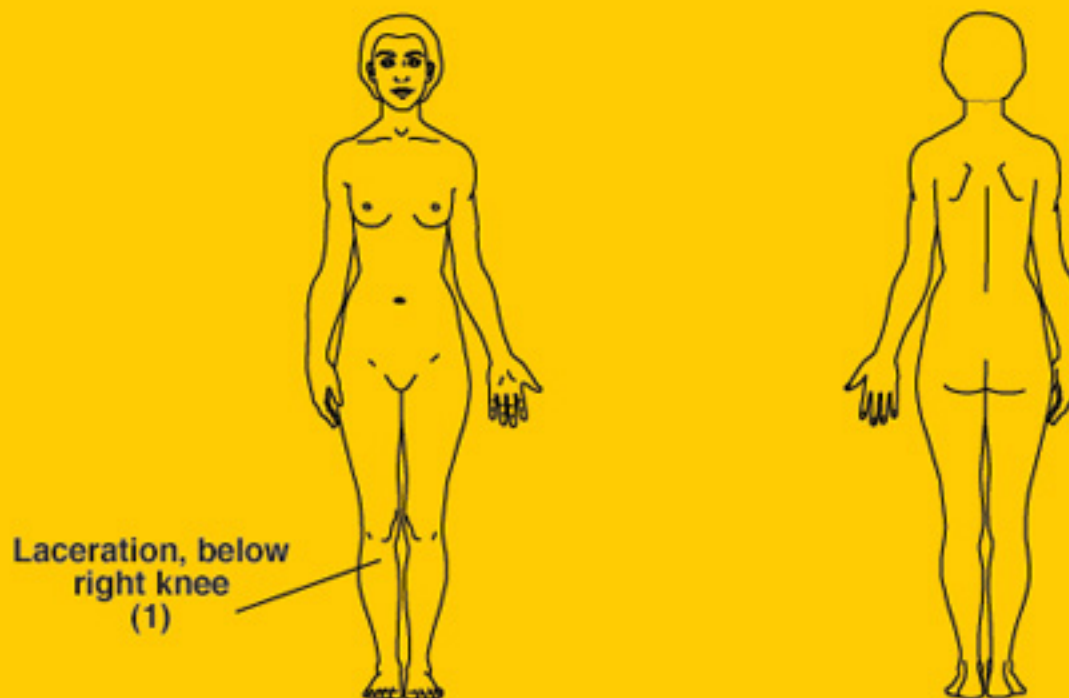
TYPE: E150 Econoline Van, 4x2

OCCUPANT: (Driver) 62-year-old female

STATURE: 165 cm (5 ft, 5 in) MASS: 66 kg (145 lb)

RESTRAINTS: 3-point belt, steering-wheel airbag

SEVERITY: MAIS - 1 ISS - 1



CASE NO.: 445

CASE VEHICLE: 2002 Ford

TYPE: E150 Econoline Van, 4x2

OCCUPANT: (Left second) 20-year-old male

STATURE: 152 cm (5 ft)    MASS: 66 kg (145 lb)

RESTRAINTS: None

SEVERITY:    MAIS - 0                    ISS - 0

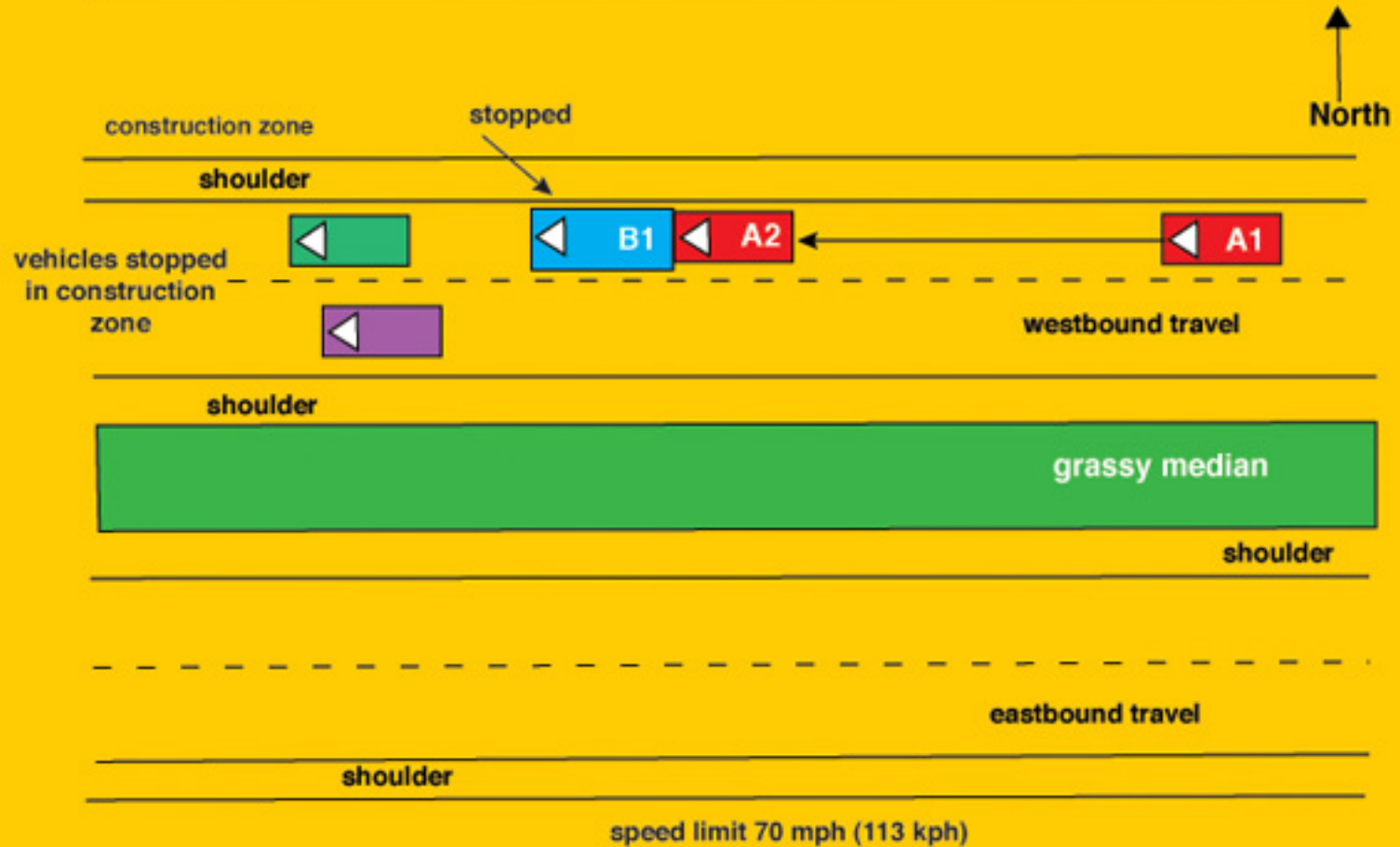


No injury



Case No.: 445  
Case Veh. (A): 2002 Ford  
Type: E150 Econoline Van, 4x2  
Driver: 62-year-old female  
Vehicle (B): 2002 International Series Straight truck

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



# UM-4257: 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	1710	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	1	Yes	<a href="#">more</a>
V0208	Road Total Lanes	5	Divided, 4 lanes or more	<a href="#">more</a>
V0209	Intersect Road Total Lanes	8	Not applicable	<a href="#">more</a>
V0210	Trafficway Flow	1	Divided trafficway - median strip without positi	<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	1	Yes	<a href="#">more</a>
	Road Alignment Vertical			

V0214	Plane	1	Level	<a href="#">more</a>
V0215	Road Alignment Horizontal Plane	1	Straight	<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	8	106+ km/h .. 65+ 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	0	No	<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	1	Yes	<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	0	No	<a href="#">more</a>
V0235	Moving Case Vehicle Contacted Moving Vehicle	0	No	<a href="#">more</a>
V0236	Case Vehicle Contacted Stopped Vehicle	1	Yes	<a href="#">more</a>
V0237	Stopped Case Vehicle Contacted Vehicle	0	No	<a href="#">more</a>
V0238	Total Vehicles Hit By Case Vehicle	1	1 vehicle	<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	01	Attentive or not distracted	<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	1HTMMAAM42XXXXXXX	<a href="#">Click for Contacted Vehicle figure</a>	<a href="#">more</a>
V0302	Other Vehicle Manufacturer/Body Code	15334	—	—
V0303	Other Vehicle Manufacturer	153	International	<a href="#">more</a>
V0304	Other Vehicle Body Code	34	Straight truck	<a href="#">more</a>
V0305	Other Vehicle Make/model	8101	International Truck Series 4300	<a href="#">more</a>
V0306	Other Vehicle Model Year	2002	Year	<a href="#">more</a>
V0307	Other Vehicle Mass	999999	Unknown	<a href="#">more</a>
V0308	Other Vehicle Number	8	No other vehicle	<a href="#">more</a>
V0309	Other Vehicle Number of Occupants	01	number of occupants	<a href="#">more</a>
V0310	Other Vehicle Traveling Speed	000 kph	Parked or just starting	<a href="#">more</a>
V0311	Highest Police Injury Severity	0	O - No Injury	<a href="#">more</a>
V0312	Other Vehicle Type	34	Straight truck	<a href="#">more</a>
V0313	Other Vehicle Wheelbase in Centimeters	999	Unknown wheelbase	<a href="#">more</a>
V0314	Other Vehicle Average Track Width	999	Unknown	<a href="#">more</a>
V0315	Other Vehicle Overall Length	999	Unknown	<a href="#">more</a>
V0316	Other Vehicle Overall Width (OAW)	999	Unknown	<a href="#">more</a>
V0317	Other Vehicle Front Overhang	999	Unknown	<a href="#">more</a>

V0318	Other Vehicle Rear Overhang	999	Unknown	<a href="#">more</a>
V0319	Other Vehicle Undeformed End Width (UEW)	999	Unknown	<a href="#">more</a>
V0320	Other Vehicle Engine Displacement	9.9	Unknown	<a href="#">more</a>
V0321	Other Vehicle Engine: Number of Cylinders	99	Unknown	<a href="#">more</a>
V0322	Other Vehicle Direct Damage Length (DDL)	999	Unknown	<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	1FDRE14W22XXXXXXX	<a href="#">Click for Case Vehicle figure</a>	<a href="#">more</a>
V0402	Manufacturer/Body Code	12111	—	—
V0403	Vehicle Manufacturer	121	Ford	<a href="#">more</a>
V0404	Vehicle Body Code	11	Passenger van; panel or cargo van	<a href="#">more</a>
V0405	Make/model Code	3113	Econoline E150	<a href="#">more</a>
V0406	Model Year	2002	Model year	<a href="#">more</a>
V0407	Vehicle Mass	002107 kg	Mass (Kg)	<a href="#">more</a>
V0408	Odometer Reading	102074	—	—
V0409	Number of Occupants	02	2 occupants	<a href="#">more</a>
V0410	Traveling Speed	072 kph	Speed (km/h)	<a href="#">more</a>
V0411	Body Type	25	Van (large)	<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	1	Rear 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	8	Other	<a href="#">more</a>
V0427	Case Vehicle Wheelbase in Centimeters	351 cm	Actual Wheelbase	<a href="#">more</a>
V0428	Anti-lacerative Glass	8	Not Collected	<a href="#">more</a>
V0429	Case Vehicle average track Width	174 cm	actual measurement (cm)	<a href="#">more</a>
V0430	Case Vehicle Overall Length	539 cm	actual measurement (cm)	<a href="#">more</a>
V0431	Case Vehicle Overall Width (OAW)	202	actual measurement (cm)	<a href="#">more</a>
V0432	Case Vehicle Front Overhang	075 cm	actual measurement (cm)	<a href="#">more</a>
V0433	Case Vehicle Rear Overhang	113 cm	actual measurement (cm)	<a href="#">more</a>
V0434	Case Vehicle Undeformed End Width (UEW)	180 cm	actual measurement (cm)	<a href="#">more</a>
V0435	Case Vehicle Engine Displacement	4.6 l	Liters	<a href="#">more</a>
V0436	Case Vehicle Engine: Number of Cylinders	08	number of cylinders	<a href="#">more</a>
V0437	Case Vehicle Direct Damage Length (DDL)	180 cm	actual measurement (cm)	<a href="#">more</a>
V0438	Case Vehicle Front-end Overlap	98	98% or more	<a href="#">more</a>
V0439	Case Vehicle - Vehicle Overlap	98	98% or more	<a href="#">more</a>

## Case Vehicle Damage Description

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<b>Variable Number</b>	<b>Variable Name</b>	<b>Code Value</b>	<b>Code Description</b>	<b>Other Options</b>
V0501	Maximum Sheet Metal Crush - Front	040 cm	Depth of Crush (cm)	<a href="#">more</a>
V0502	Maximum Sheet Metal Crush - Rear	000 cm	No Crush (or less than 1 cm.)	<a href="#">more</a>
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	1	On Roadway	<a href="#">more</a>
V0509	Event 1 -Impact Configuration	14	FRONT of case veh - REAR of contacted veh	<a href="#">more</a>
V0510	Event 1 -Object/Vehicle Contactd	34	Straight truck	<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>
	Event 6 -Impact			

V0524	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>
V0527	Event 7 -Impact 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)	040	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	04	D - Distributed (Side or End)	<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	23	W - Wide impact area	<a href="#">more</a>
V0538	Primary CDC Case Vehicle - Extent #1	3	—	—
V0539	Primary CDC - Contacted Vehicles Assoc CDC - CDC #1	12FDEW3	—	—
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	1	Investigator	<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	99	Unknown or no damage	<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	9900000	—	—
V0557	Primary CDC Contacted Vehicle-clock #2	99	Unknown or no damage	<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	9900000	—	—
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>
V0568	Secondary CDC Case 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>
	Secondary CDC Contacted			

V0586	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	034 kph	kph	<a href="#">more</a>
V0603	Primary delta-V Case Vehicle -LONGITUD	-034	—	—
V0604	Primary delta-V Case Vehicle-Lateral	0000	—	—
V0605	Primary Delta V Case Vehicle - Energy Dissipated	0100	—	—



	by Crush (k			
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	999	Unknown	<a href="#">more</a>
V0609	Primary delta-V Contacted Vehicle-LONGITUD	9999	—	—
V0610	Primary delta-V Contacted Vehicle-Lateral	9999	—	—
V0611	Primary delta-V Contacted Vehicle - Energy Dissipated by Cru	9999	—	—
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>
	Primary EBS Case Vehicle -			

V0624	Total EBS	034 kph	kph	<a href="#">more</a>
V0625	Primary EBS Case Vehicle - LONGITUD	-034	—	—
V0626	Primary EBS Case Vehicle-Lateral	0000	—	—
V0627	Primary EBS Case Vehicle - Energy Dissipated by Crush (kj)	0100	—	—
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	999	Unknown	<a href="#">more</a>
V0631	Primary EBS Contacted Vehicle-LONGITUD	9999	—	—
V0632	Primary EBS Contacted Vehicle-Lateral	9999	—	—
V0633	Primary EBS Contact Vehicle - Energy Dissipated by Crush (kj)	9999	—	—
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)	5	Other	<a href="#">more</a>
V0647	Direct Damage Length (DDL) - Case Vehicle (1)	180 cm	cm	<a href="#">more</a>
V0648	Direct Damage Maximum Crush - Case Vehicle (1)	040 cm	cm	<a href="#">more</a>
V0649	Direct and Induced Damage Length in CM	173 cm	cm	<a href="#">more</a>
V0650	Field C1 - Case Vehicle (1)	025 cm	cm	<a href="#">more</a>
V0651	Field C2 - Case Vehicle (1)	024 cm	cm	<a href="#">more</a>
V0652	Field C3 - Case Vehicle (1)	027 cm	cm	<a href="#">more</a>
V0653	Field C4 - Case Vehicle (1)	025 cm	cm	<a href="#">more</a>
V0654	Field C5 - Case Vehicle (1)	022 cm	cm	<a href="#">more</a>
V0655	Field C6 - Case Vehicle (1)	027 cm	cm	<a href="#">more</a>
V0656	Direct Damage D Value = The Center of Direct Damage Offset t	+000 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)	5	Other	<a href="#">more</a>
V0659	Direct Damage Length (DDL) - Case Vehicle (2)	180 cm	cm	<a href="#">more</a>
V0660	Direct Damage Maximum Crush - Case Vehicle (2)	040 cm	cm	<a href="#">more</a>
V0661	Direct and Induced Damage Length in CM	173 cm	cm	<a href="#">more</a>
V0662	Field C1 - Case Vehicle (2)	025 cm	cm	<a href="#">more</a>
V0663	Field C2 - Case Vehicle (2)	024 cm	cm	<a href="#">more</a>
V0664	Field C3 - Case Vehicle (2)	027 cm	cm	<a href="#">more</a>
V0665	Field C4 - Case Vehicle (2)	025 cm	cm	<a href="#">more</a>
V0666	Field C5 - Case Vehicle (2)	022 cm	cm	<a href="#">more</a>
V0667	Field C6 - Case Vehicle (2)	027 cm	cm	<a href="#">more</a>
V0668	Direct Damage D Value = The Center of Direct Damage Offset t	+000 cm	cm	<a href="#">more</a>
V0669	Specific Event # Cont(1)	1	Event number 1	<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	+999 cm	offset (cm)	<a href="#">more</a>
V0681	Specific Event # Contacted Vehicle (2)	1	Event number	<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>
	Field C4 - Contacted Vehicle	999		

V0689	(2)		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	+999 cm	Offset (cm)	<a href="#">more</a>

## 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>
	Right Front Tire Condition			

V0718	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	P23575R15	—	—
V0726	Right Front Tire Size	P23575R15	—	—
V0727	Right Rear Tire Size	P23575R15	—	—
V0728	Left Rear Tire Size	P23575R15	—	—
V0729	Left Front Tire Pressure (recorded in psi)	37.5 psi	Actual tire pressure in psi	<a href="#">more</a>
V0730	Right Front Tire Pressure (recorded in psi)	29.5 psi	Actual tire pressure in psi	<a href="#">more</a>
V0731	Right Rear Tire Pressure (recorded in psi)	27.0 psi	Actual tire pressure in psi	<a href="#">more</a>
V0732	Left Rear Tire Pressure (recorded in psi)	32.0 psi	Actual tire pressure in psi	<a href="#">more</a>
V0733	Left Front Tread Depth	11	11/32"	<a href="#">more</a>
V0734	Right Front Tread Depth	07	07/32"	<a href="#">more</a>
V0735	Right Rear Tread Depth	06	06/32"	<a href="#">more</a>
V0736	Left Rear Tread Depth	07	07/32"	<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	143	Dual, rt & lf tanks laterally - above vertically	<a href="#">more</a>
V0804	Main Tank Material	9	Unknown	<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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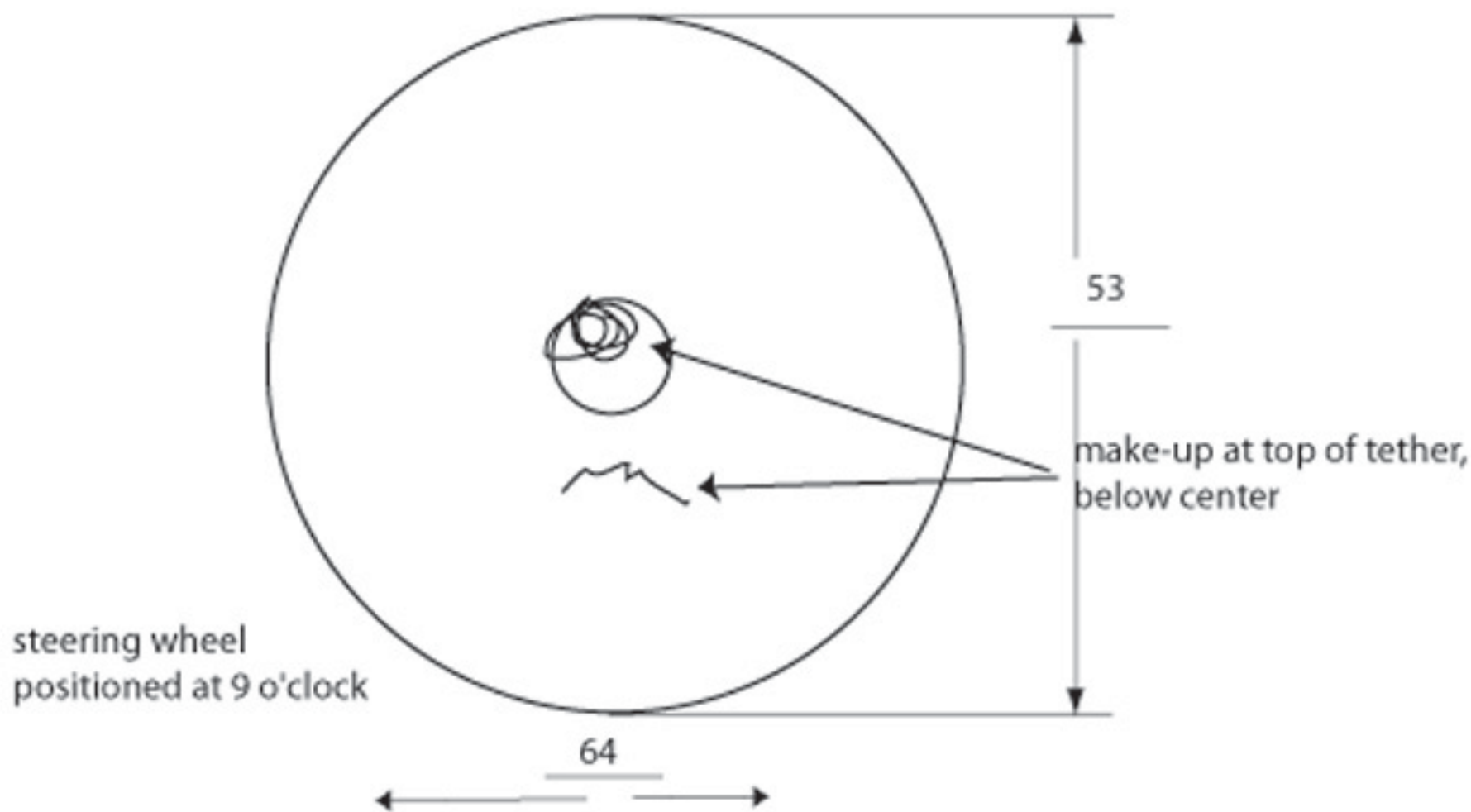
Variable Number	Variable Name	Code Value	Code Description	Other Options
V1101	Hood Latch Released	1	Yes	<a href="#">more</a>
V1102	Hood Latch Damaged	1	Yes	<a href="#">more</a>
V1103	Hood Latch Jammed	0	No	<a href="#">more</a>
V1104	Left Hood Hinge Damaged	1	Yes	<a href="#">more</a>
V1105	Left Hood Hinge Separated	1	Yes	<a href="#">more</a>
V1106	Right Hood Hinge Damaged	1	Yes	<a href="#">more</a>
V1107	Right Hood Hinge Separated	1	Yes	<a href="#">more</a>
V1108	Hood Remained On Vehicle	0	No	<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	0	No	<a href="#">more</a>
V1121	Lower Left A-pillar Sep	0	No	<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	8	Not applicable (not equipped)	<a href="#">more</a>
V1125	Lower Left C-pillar Sep	8	Not applicable (not equipped)	<a href="#">more</a>
V1126	Upper Left D-pillar Sep	0	No	<a href="#">more</a>
V1127	Lower Left D-pillar Sep	0	No	<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	98	Not applicable (no left rear door)	<a href="#">more</a>
V1130	Left Front Door Jammed Closed	0	No	<a href="#">more</a>
V1131	Left Rear Door Jammed Closed	8	Not applicable (no left rear door)	<a href="#">more</a>
V1132	Van Left Rear Door Type	0	Van, no rear door	<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	6	Double door	<a href="#">more</a>
V1140	Rear Door Opening Cause	0	Door did not open	<a href="#">more</a>
V1141	Rear Door Jammed Closed	0	No	<a href="#">more</a>
V1142	Rear Glazng Availability	1	Fixed	<a href="#">more</a>
V1143	Rear Glazing Damage	0	No damage	<a href="#">more</a>
V1144	Luggage Partition Damaged	8	Not applicable	<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	0	No	<a href="#">more</a>



	Separated			
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>

### Driver Airbag



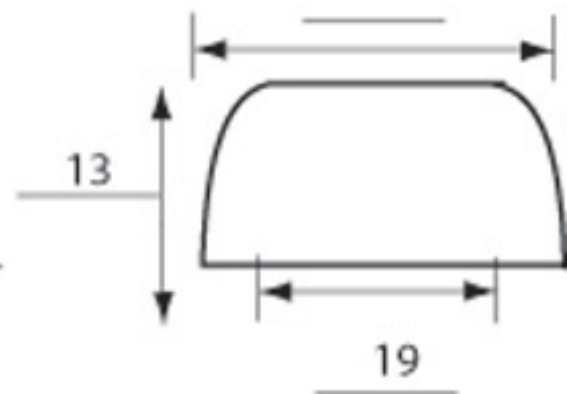
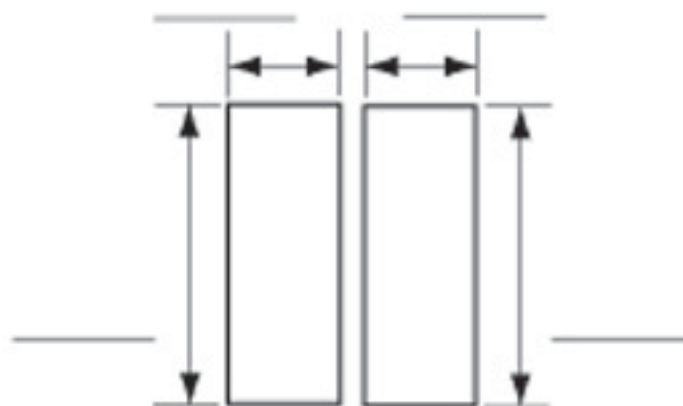
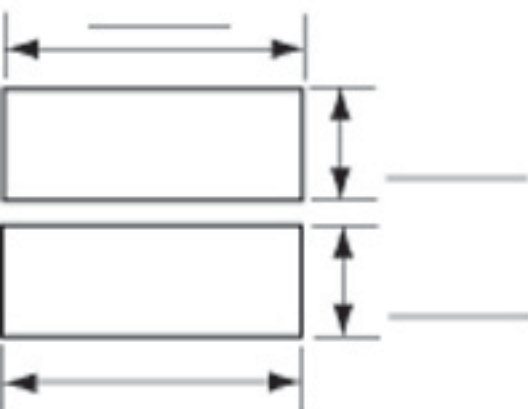
steering wheel positioned at 9 o'clock

Vents:  Y  N  
if yes, how many: 2

Tethers:  Y  N  
if yes, how many: 1

vents located at 11 and 1 o'clock

### Driver Airbag Doors

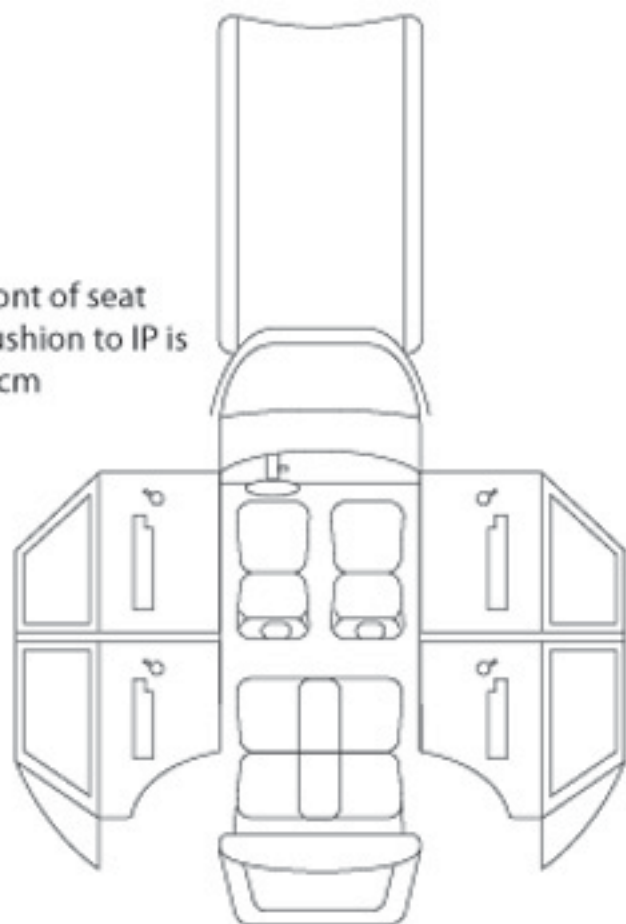


H-Pattern

I-Pattern

Single Door

front of seat  
cushion to IP is  
7 cm

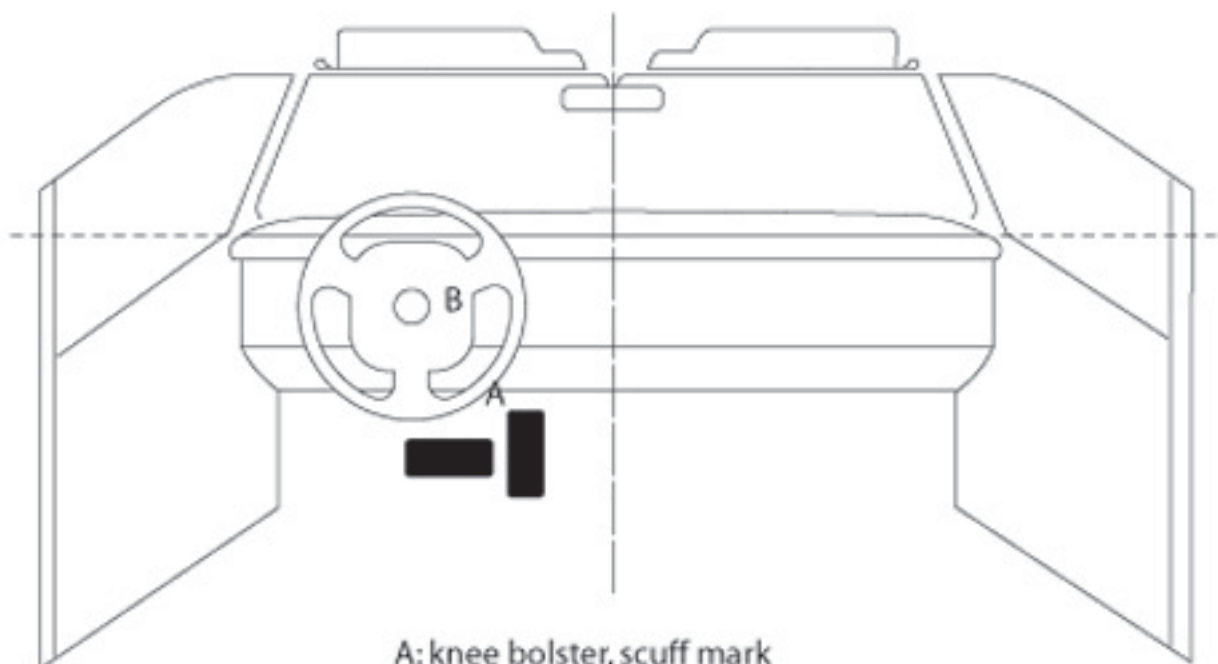


x: mark is from  
hood in car

Evidence of belt use:

DR: load marks on D-ring and  
continuous loop

LR: no evidence of use



A: knee bolster, scuff mark

B: airbag, facial makeup

C: rear of driver seatback, seat pushed forward 9 cm  
on seat track

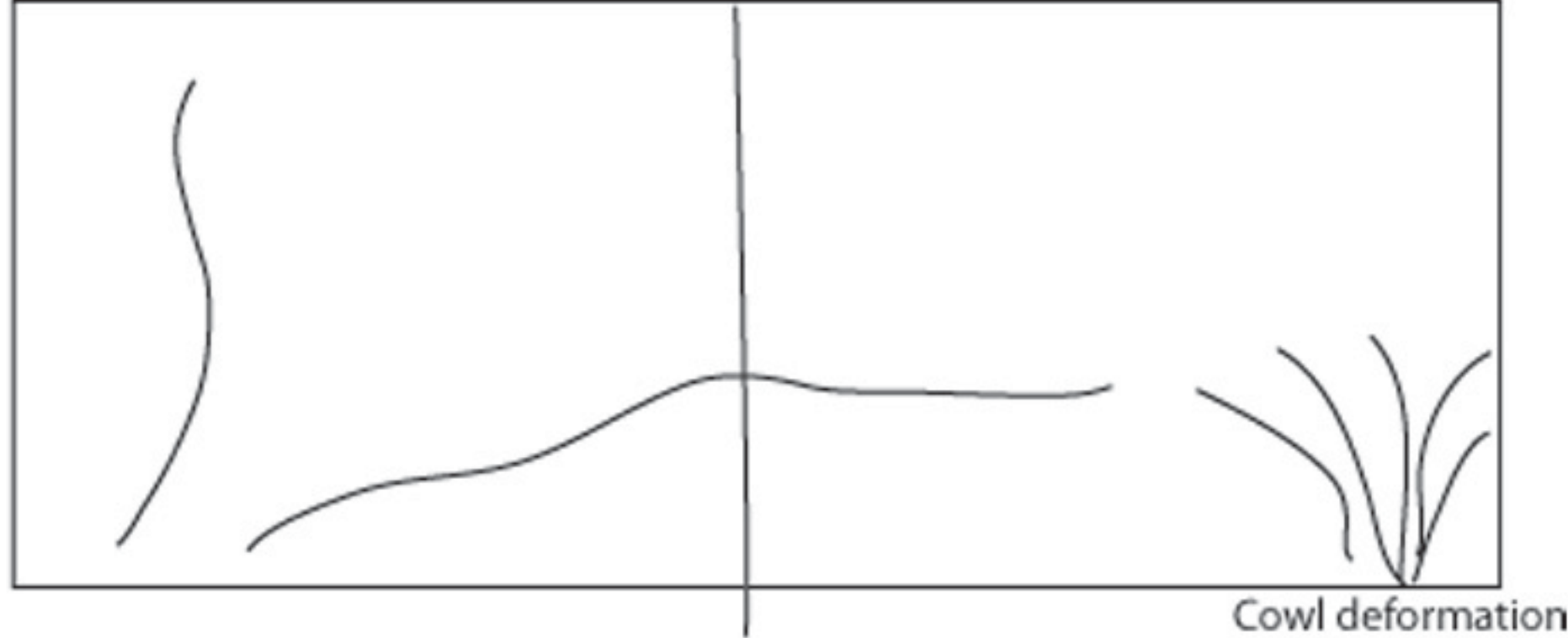
1 = Definitely 2 = Probably 3 = Possible

INTRUSION IT-1

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

OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	Knee bolster	1	Knee	Scuff mark	2
B	Airbag	1	Face	Makeup	1
C	Left front seat	2	Legs	Pushed forward 9-cm on track	1
D					
E					
F					
G					
H					
I					
J					
K					
L					
M					



L

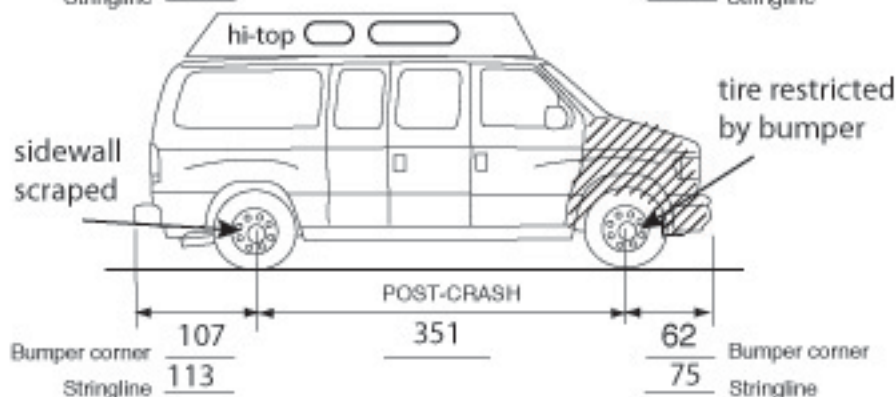
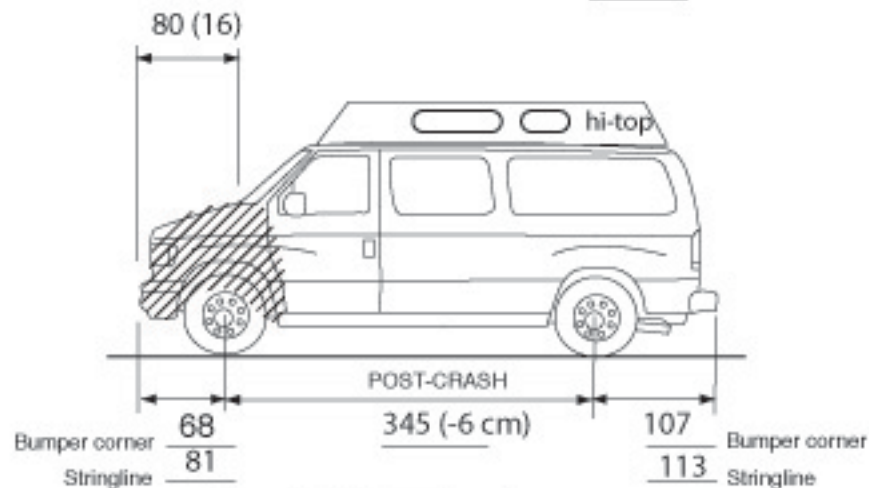
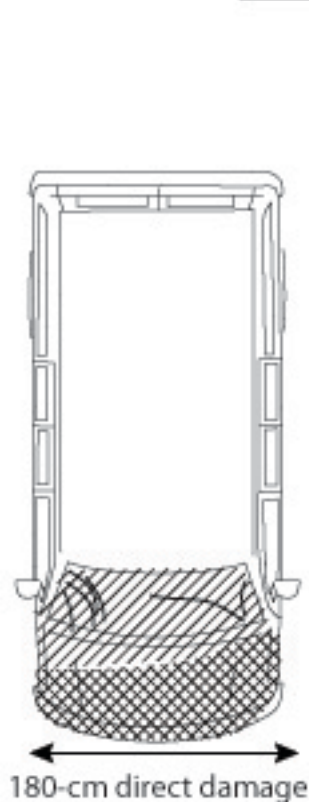
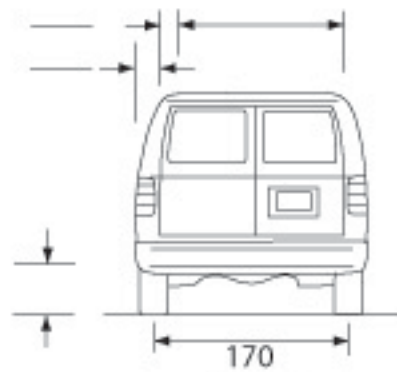
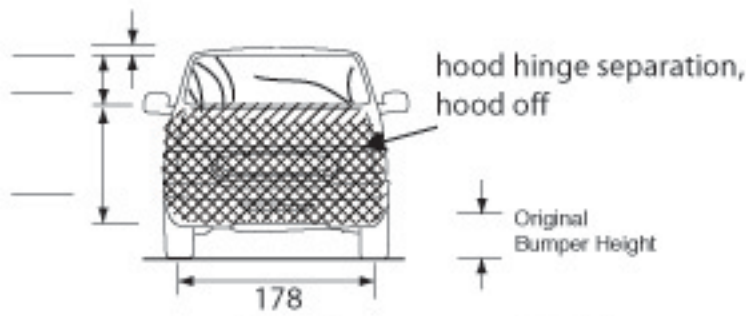
F

R

WINDSHIELD MARK ON CASE VEHICLE:

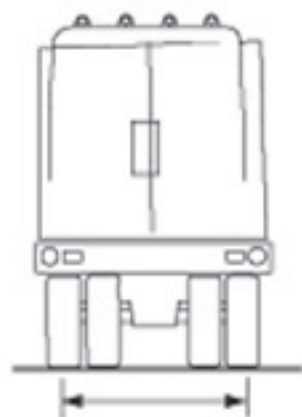
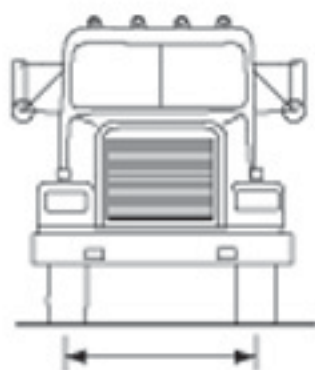
FORD  
N CARLITE R  
SOLAR TINT  
LAMINATED AS1  
DOT-75 FM-M180  
1AB  
DW01292GT

MEASUREMENTS IN CENTIMETERS

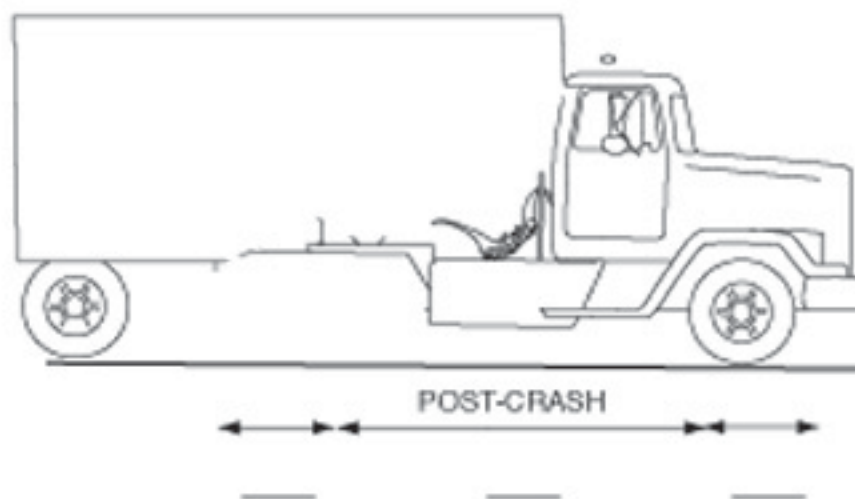
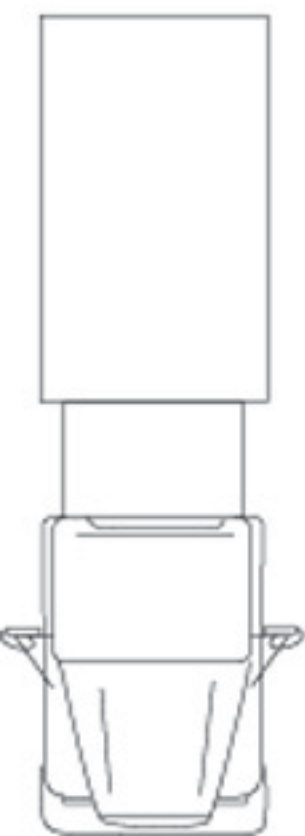
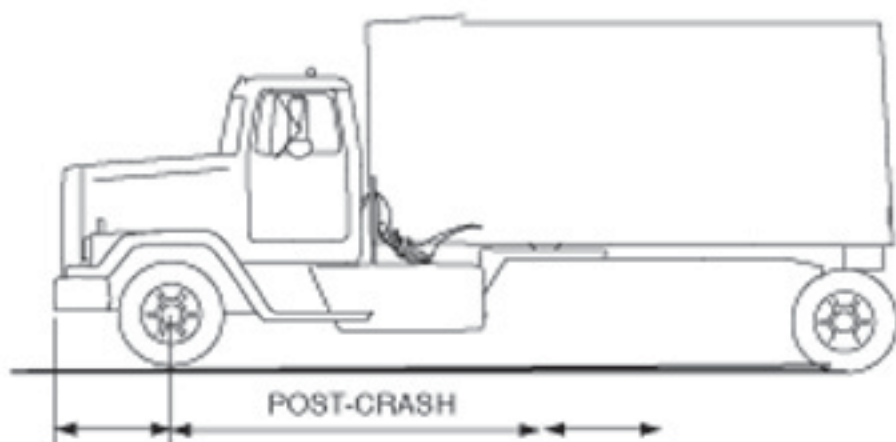


40-cm max crush above the right-front bumper corner

MEASUREMENTS IN CENTIMETERS

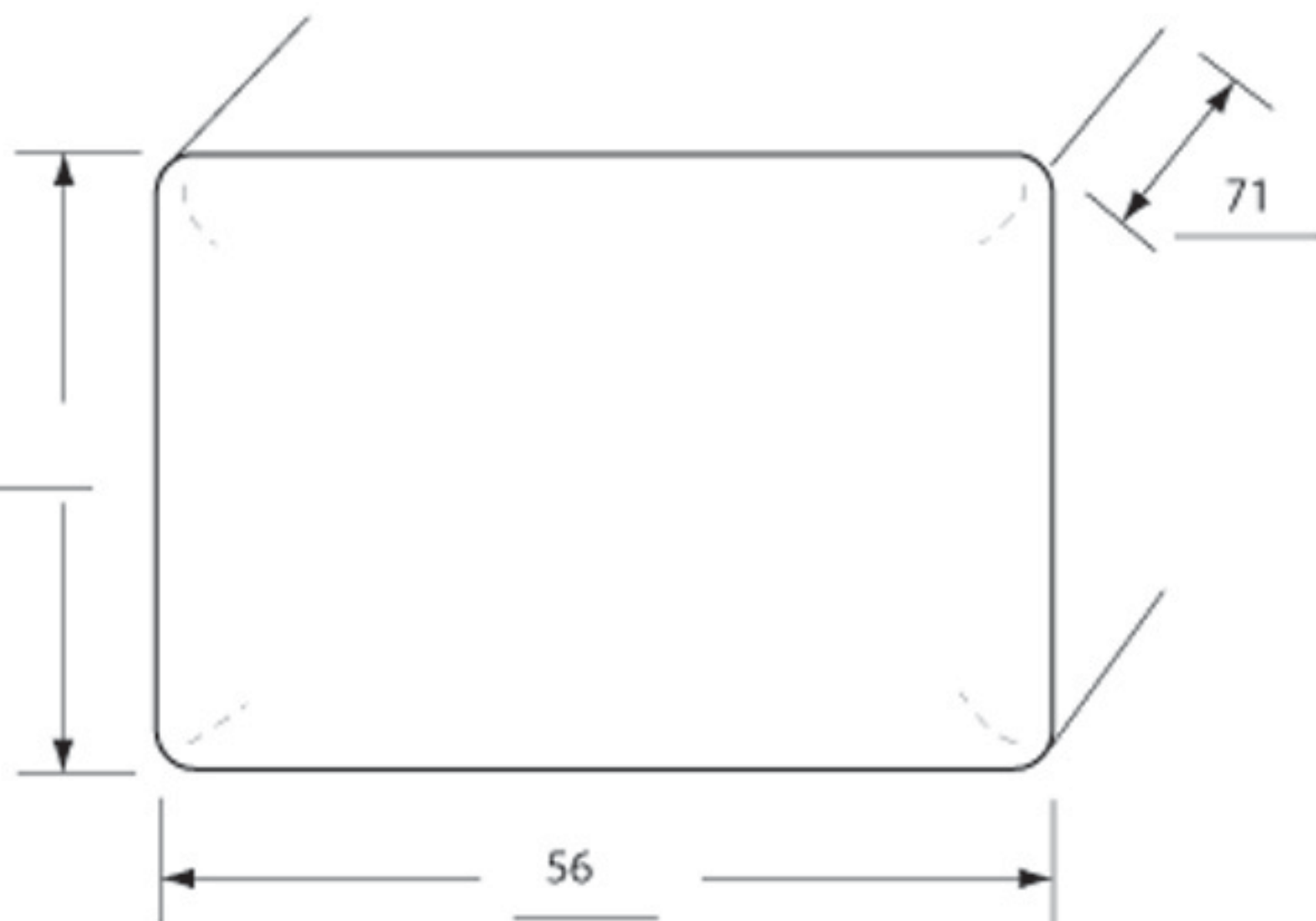


no inspection





### Passenger Airbag

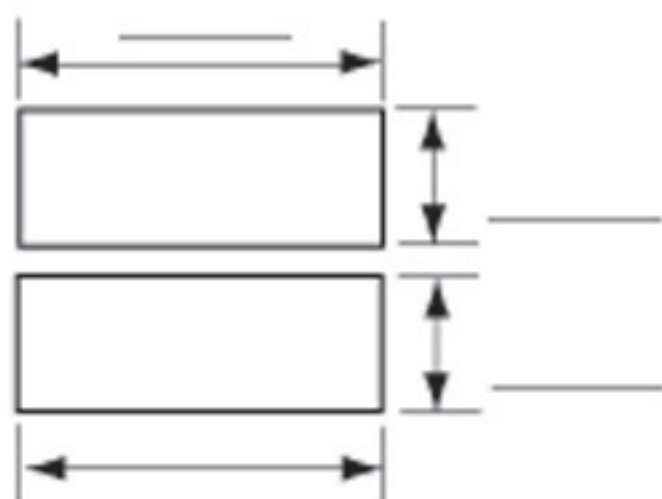


Vents:  Y  N  
if yes, how many: 2  
vents at 10 and 2 o'clock

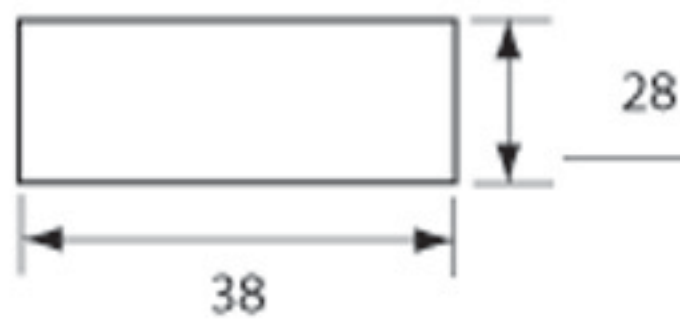
Tethers:  Y  N  
if yes, how many: \_\_\_\_\_

### Passenger Airbag Doors

H-Pattern



Single Door



Cover bent up and stuck on windshield, mark on glass.







OK

OR

DR



0803 5 P10













AND Free

**Markups rile**

hike interest rates; minorities

Air

962-75

JUST BOLD  
75 LAY  
E B





Stack of papers or documents on the floor.















11690

METRO DETROIT'S BEST







































*Elegant*





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MICHELIN  
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