Case 395 : Narrative

Case Vehicle (A): 1998 Jeep	Vehicle (B): 1999 Oldsmobile
Type: Grand Cherokee Laredo, 4x4, 4-door SUV	Type: Intrigue, 4-door sedan
Driver: 28-year-old female	Driver: 28-year-old female
CDC: 12-FLEE-2	CDC: 99-0000-0

SITUATION

1 It was daylight and snowing, and the five-lane asphalt roadway was wet but in good condition. The speed limit was 45 mph (72 kph) and 2 3 4 5 6 case vehicle (A) was traveling north in the left northbound through lane at a driver-reported speed of 35 mph (56 kph) and was approaching a controlled, four-leg intersection. 7 Vehicles (X) and (B) were stopped in the southbound left-turn lane of the same roadway with vehicle (B) behind vehicle (X). 8 9 As case vehicle (A) reached the intersection, the driver of vehicle (X) proceeded into the intersection and turned left across the path of case vehicle (A), and the driver of vehicle (B) followed immediately behind vehicle (X). The driver of case vehicle (A) braked and successfully avoided contact with vehicle (X) but could not avoid contact with vehicle (B) and the left-front bumper corner of case vehicle (A) struck the left-front bumper corner of vehicle (B). Both vehicles came to rest in the intersection with minimal rotation, and both vehicles were towed due to damage.

The police accident report (PAR) indicates no injuries for the drivers of case vehicle (A) and vehicle (B) and neither sought medical treatment. The PAR indicates A-level injuries for the infant right-front passenger of case vehicle (A) who was restrained in a rear-facing child safety seat. The infant was transported to a regional level-one trauma center and hospitalized for 30 days.

GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

10 11 12 Damage to case vehicle (A) was minor. Direct damage began at the left-front bumper corner and extended 40-cm to the right, resulting in 28-percent vehicle overlap. The maximum frontal crush was 20-cm and occurred at the left-front bumper corner.

Vehicle (B) was not available for inspection but an undamaged exemplar vehicle was measured to obtain data for use in the Missing-Vehicle algorithm of the WinSMASH crash-reconstruction program.

Using the WinSMASH crash-reconstruction program, and a 10 11 12 crush profile measured for case vehicle (A), the following impact severities were estimated:

		Calculated Velocity Change - kph (mph)		
Vehicle	Variable	Total	Longitudinal	Latitudinal
Case Vehicle (A)	delta V	14 (9)	-14 (-9)	2 (2)
Vehicle (B)	delta V	15 (9)	-14 (-9)	-5 (-3)

DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

Exterior

12 17 In the front, direct contact damage involved the left-front bumper corner and the left headlight area, but not the grille or radiator. The bumper fascia cover was not available for inspection. The left portion of the bumper reinforcement bar was crushed rearward with the apex of the bend at the attachment with the left frame rail. The housing of the left headlight assembly was deformed but all frontal components to the right of these two points were not damaged. The hood, the hood latch, and the hood hinges were not damaged and the rear edge of the hood was not elevated. The windshield was not damaged.

12 13 On the left side, the fender had been removed and was not available for inspection. Both left-side doors were closed and operational and the left-side glazing was intact. The left-front tire was deflated and the left-front wheel was deflected rearward, resulting in a 9-cm reduction in the left wheelbase. There was no damage to the left-rear wheel or tire and there was no other damage to the left side of the case vehicle.

13 14 15 16 There was no damage to the rear or right side of the vehicle. Both right-side doors were closed and operational and there was no change in the right wheelbase.

Interior

This vehicle was equipped with steering-wheel and passenger frontal-impact airbags and 18 19 both deployed in the offset-frontal crash. 20 22 23 24 In the driver area, the tethered steering-wheel airbag was deployed. There was no damage to the airbag or to the airbag module covers but there were two areas of discoloration on the airbag fabric; one 10x15-cm area was near the edge of the airbag at the 11 o'clock position and the other 3x10-cm area was near the edge of the airbag at the 6 o'clock position. 31 32 33 There was no damage to the steering-wheel rim or spokes and there was no displacement of the steering column. 34 The foot controls were not damaged. 35 The windshield, the visor, the left A-pillar, the roof siderail, the interior panel of the driver door, the driver seat and seatback, and the center armrest were not damaged. 36 37 There were two faint scuffmarks, or possibly cloth transfers, on the knee-bolster cover, one underneath the steering column and one on the far left side.

38 39 In the center-front area, there was no damage to the upper and mid instrument panels or to the vertical console, but several panels and components in this area had been removed as part of the vehicle salvage process. There was no damage to, or contact marks on, the floor-mounted transmission selector, but the plastic housing was dislodged.

21 25 26 27 28 29 30 In the right-front passenger area, the untethered dash-mounted airbag was deployed. There was no damage to the airbag or to the airbag module cover, but there were two areas of discoloration on the airbag fabric; one 3x5-cm area was slightly to the right and below the center of the airbag and the other 4x26-cm area was along the upper edge of the outboard-side of the airbag. 40 41 42 43 There were no contact marks on the right-front seatback and there was no other damage in the right-front seating area.

There were no intrusions in the front or 44 45 rear seating areas.

There was no damage in the rear cargo area but it was reported that there was about 14 kg (30 lb) of

cargo (laundry) in this area at the time of the crash.

OCCUPANT KINEMATICS AND INJURIES

The 168-cm, 64-kg (5-ft 6-in, 140-lb), 28-year-old female driver was reportedly using the three-point belt and 18 the steering-wheel airbag deployed. 46 47 48 49 There were no loading marks on the plastic D-ring, on the belt webbing, or on the continuous loop of the latch plate, but this is probably because of the low-severity crash. The driver reportedly positioned the seat in a mid-track position with the seatback slightly reclined. She also reported that her hands were on the steering wheel with her right hand at the 2 o'clock position and her left hand at the 8 o'clock position, and that she was braking with her right foot at the time of the collision.

During the offset-frontal impact, the driver moved forward and slightly to the left relative to the vehicle interior, into the three-point belt, airbag, and knee bolster. She did not sustain any injuries, although her knees may have contacted the knee bolster, 36 37 as evidenced by the two scuffmarks.

50 51 52 53 54 The 58-cm, 5-kg (23-in, 11.5 lb) 2-month-old male right-front passenger was properly restrained in a rear-facing child safety seat that was secured by the vehicle three-point belt with a cinching latch plate but without a locking clip. The right-front seat was reportedly in the full-rear position. 55 56 57 58 59 60 There were no loading marks on the D-ring, on the belt webbing, or on the continuous loop of the latch plate.

61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 During the pre-impact braking and offset-frontal impact, the child seat and infant rotated forward and were contacted by the deploying right-front passenger airbag, as evidenced by a crack in the plastic shell on the inboard side of the child seat that propagated into the left side and base. There was also some crazing on the forward surfaces of both side wings, midway between the foot and the head of the child seat. The infant sustained severe skull and brain injuries, including fractures of the right occipital, right temporal, and right parietal bones, intraventricular, subarachnoid, and intraparenchymal hemorrhages of the cerebrum, and severe brain swelling/edema due to airbag-deployment loading into the child safety seat,.

The infant survived these injuries and was released from the hospital 31 days after the crash, but will require further treatment and repair of the skull as his cranium continues to grow. The long-term outcome for this infant is uncertain.

The following tables and attached drawings 85 86 summarize the injuries for the driver and right-front passenger of case vehicle (A).

Occupant: Driver	Age: 28 years	Gender: Female
Restraints: 3-point belt; steering-wheel airbag	Stature: 168 cm (5 ft, 6 in)	Mass: 64 kg (140 lb)

Injury Description	A.I.S.	Injury Source		
—	—	Definite	Probable	Possible
No injuries	0	—	—	—

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

Occupant: Right front	Age: 2 months	Gender: Male
Restraints: Rear-facing child seat secured by 3-point belt;dash-mounted airbag	Stature: 58 cm (23 in)	Mass: 5 kg (11.5 lb)

Injury Description	A.I.S.	Injury Source		
—	—	Definite	Probable	Possible
Fractures, right occipital, right temporal, and right parietal bones	2	Airbag into child safety seat	—	—
Intraventricular hemorrhage	4	Airbag into child safety seat	—	—
Subarachnoid hemorrhage	3	Airbag into child safety seat	—	—
Intraparenchymal hemorrhage	4	Airbag into child safety seat	—	—
Brain swelling/edema	3	Airbag into child safety seat	—	—
Maximum A.I.S. Level	4	—	—	—
Injury Severity Score	16	—	—	—

CASE NO.: **395**

CASE VEHICLE: **1998 Jeep**

TYPE: **Grand Cherokee Laredo, 4-door SUV**

OCCUPANT: **(Driver): 28-year old female**

STATURE: **168 cm (5 ft, 6 in)** MASS: **64 kg (140 lb)**

RESTRAINTS: **3-point belt, steering-wheel airbag**

SEVERITY: MAIS - **0** : ISS - **0**

No injuries

CASE NO.: **395**

CASE VEHICLE: **1998 Jeep**

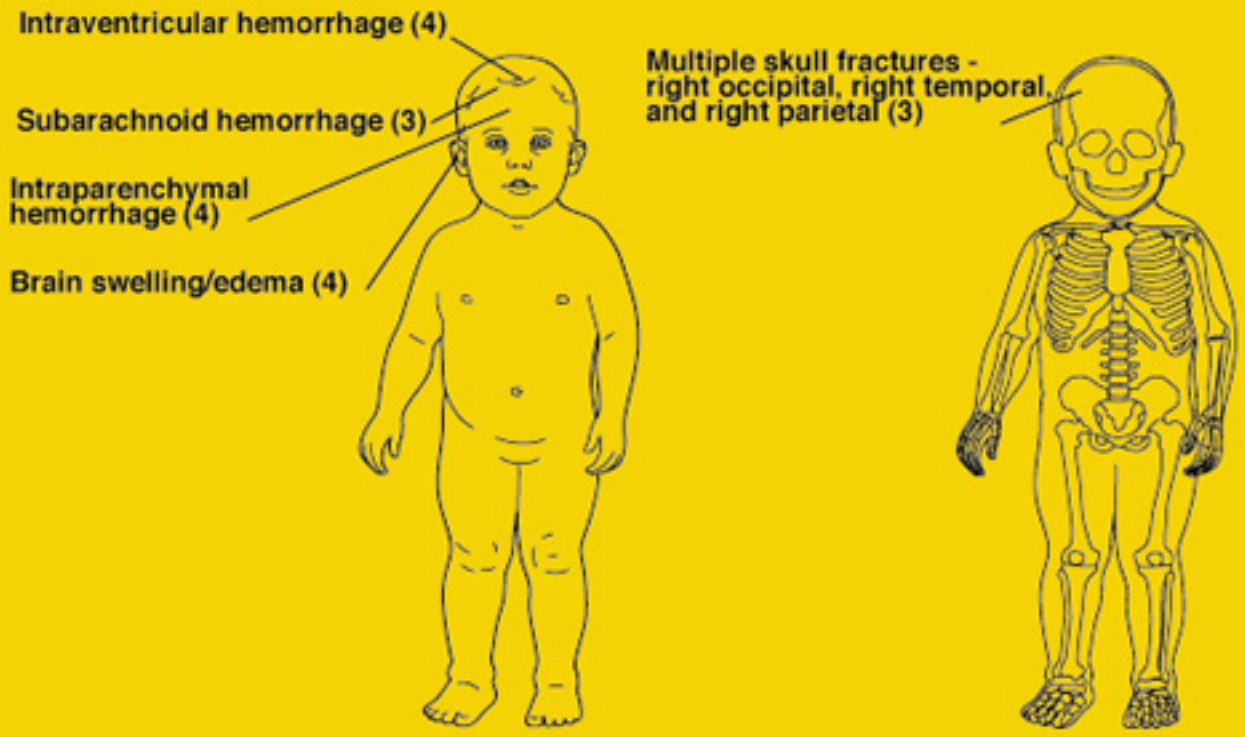
TYPE: **Cherokee Laredo, 4-door SUV**

OCCUPANT: **(Right front) 2-month-old male**

STATURE: **58 cm (23 in)** MASS: **5 kg (11.5 lb)**

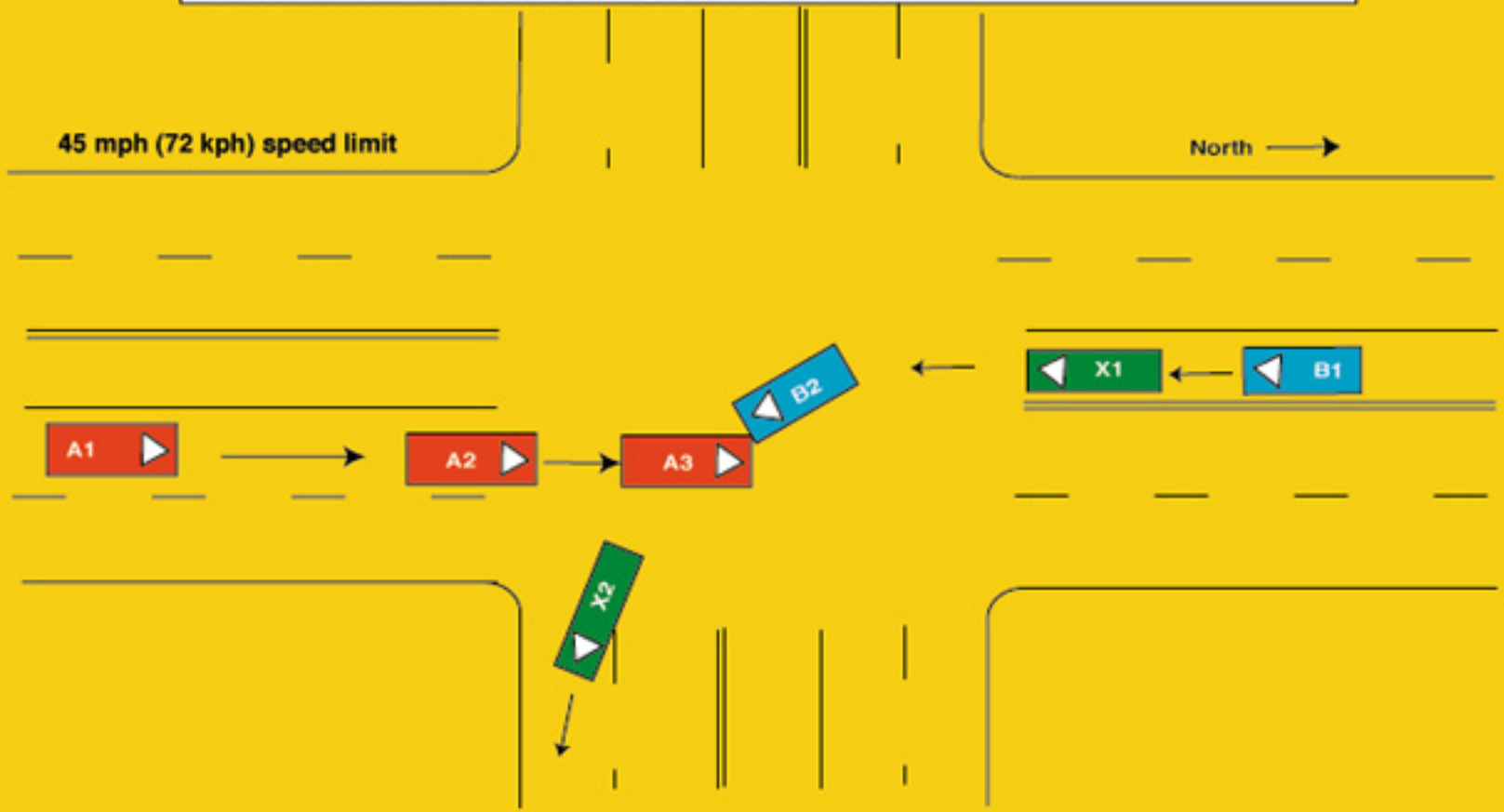
RESTRAINTS: **Rear-facing child safety seat secured by 3-point belt, frontal-impact airbag deployed**

SEVERITY: MAIS- **4** ; ISS- **16**



Case No.: **395**
Case Veh. (A): **1998 Jeep**
Type: **Grand Cherokee Laredo, 4-door SUV**
Driver: **28-year-old female**
Veh. (B): **1999 Oldsmobile Intrigue, 4-door sedan**

Light Conditions: **Daylight**
Weather: **Snow**
Road Surface: **Wet**
Road Construction: **Asphalt**



Vehicle Report

Click on Section Name to jump directly to that Section —

General Conditions

Back to Top

Variable Number and Name	Code Value	Code Description	Other Options
V206 — Urban/Rural Area	1	Urban	more
V207 — Limited Access Highway	0	No	more
V208 — Road Total Lanes	4	4 lanes or more	more
V209 — Intersecting Road Total Lanes	4	4 lanes or more	more
V210 — Road Surface Type	1	Asphalt	more
V211 — Road Defects	0	No	more
V212 — Construction Zone	0	No	more
V213 — Road Alignment Vertical Plane	1	Level	more
V214 — Road Alignment Horizontal Plane	1	Straight	more
V215 — Surface Covering	22	Water - wet	more
V216 — Visibility Limitation	0	None	more
V217 — Visibility Obstruction	0	None	more
V218 — Speed Limit	4	71-79 km/h .. 45 mph	more
V219 — Precipitation Type	2	Snow	more
V220 — Precipitation Rate	9	Unknown	more
V221 — Temperature	9	Unknown	more

V222 — Crosswind	9	Unknown	more
V223 — Light Conditions	1	Daylight	more
V224 — Mechanical Malfunction Mention	0	No	more
V225 — Case Vehicle and Object	0	No	more
V226 — Case Vehicle Rollover	0	No	more
V227 — Case Vehicle Ran Off Roadway	0	No	more
V228 — Moving Case Vehicle/Contacted Moving Vehicle	1	Yes	more
V229 — Case Vehicle/Contacted Stopped Vehicle	0	No	more
V230 — Stopped Case Vehicle/Contactd Vehicle	0	No	more
V231 — Total Vehicles Hit By Case Vehicle	1	1 vehicle	more
V232 — Any Fire in Crash	0	No	more
V233 — Max Police Severity-PAR	3	A - Incapacitating Injury	more
V234 — Driver Alcohol Involvement	0	Had not been drinking	more
V235 — Driver Alcohol BAC	80	Not tested	more
V236 — Driver Impairment Mention	0	No	more
V237 — Driven/Towed From Scene	2	Towed Due to Damage	more

Other Vehicle

Back to Top

Variable Number and Name	Code Value	Code Description	Other Options
V301 — Other Vehicle VIN	1G3WS52K1XF3	—	—
V302 — Other Vehicle Manufacturer/Body Code	11428	—	—
V303 — Other Vehicle Manufacturer	114	Oldsmobile	more
V304 — Other Vehicle Body Code	28	Intermediate 105-109.9 in. wb.	more
V305 — Other Vehicle Make/Model	0629	Intrigue	more
V306 — Other Vehicle Model Year	1999	—	—
V307 — Other Vehicle Mass	001570 kg	—	—
V308 — Other Vehicle Number	0	No separate report	more
V309 — Other Vehicle Number of Occupants	01	—	—
V310 — Other Vehicle Traveling Speed	995	Just starting up	more

V311 — Highest Police Injury Severity	0	0 - No Injury	more
V312 — Other Vehicle Type	28	Intermediate 105-109.9 in. wb.	more
V313 — Other Vehicle Wheelbase (cm)	277 cm	—	—
V314 — Average Track Width	157 cm	—	—
V315 — Overall Length	498 cm	—	—
V316 — Overall Width (OAW)	187 cm	—	—
V317 — Front Overhang (FOH)	107 cm	—	—
V318 — Rear Overhang (ROH)	112 cm	—	—
V319 — Undeformed End Width (UEW)	150 cm	—	—
V320 — Engine Displacement	3.8 *l*	—	—
V321 — Engine: Number of Cylinders	06	—	—
V322 — Direct Damage Length (DDL)	999	Unknown	more
V323 — Front-End Overlap % (FEO)	99	Missing or Not applicable	more
V324 — Vehicle Overlap % (VOL)	99	Missing or Not applicable	more

Case Vehicle General


Click for case vehicle figure

Back to Top

Variable Number and Name	Code Value	Code Description	Other Options
V401 — VIN	1J4GZ58S1WC1	—	—
V402 — Manufacturer/Body Code	15214	—	—
V403 — Vehicle Manufacturer	152	Kaiser/Jeep	more
V404 — Vehicle Body Code	14	—	—
V405 — Make/Model Code	3405	Cherokee	more
V406 — Model Year	1998	—	—
V407 — Vehicle Mass	001724 kg	—	—
V408 — Odometer Reading	888888	—	—
V409 — Number of Occupants	02	—	—
V410 — Traveling Speed	056 kph	—	—
V411 — Body Type	21	Small utility (e.g. Jeep, Scout, Bronco)	more
V412 — Stolen Vehicle	8	Not currently collected	more
V413 — Body Structure	1	Body and frame	more
V414 — Transmission Type	1	Automatic	more

V415 — Transmission Lever Location	2	Console	more
V416 — Steering	1	Power	more
V417 — Brakes	1	Power	more
V418 — Brake Type	9	Unknown	more
V419 — Brake Anti-lock Device	9	Unknown	more
V420 — Air Conditioning in Vehicle	8	Not currently collected	more
V421 — Drive Type	3	Four wheel	more
V422 — Dual Rear Wheels	0	No	more
V423 — Original Restraint System Type	3	Airbag	more
V424 — Equipped With Roll Bar	0	No	more
V425 — Roof Type	1	Solid	more
V426 — Wheelbase	269 cm	—	—
V427 — Anti-lacerative Glass	0	None	more
V428 — Average Track Width	149 cm	—	—
V429 — Overall Length	448 cm	—	—
V430 — Overall Width (OAW)	180 cm	—	—
V431 — Front Overhang	081 cm	—	—
V432 — Rear Overhang	098 cm	—	—
V433 — Undeformed End Width (UEW)	160 cm	—	—
V434 — Engine Displacement	4.0 *l*	—	—
V435 — Engine: Number of Cylinders	06	—	—
V436 — Direct Damage Length (DDL)	040 cm	—	—
V437 — Front End Overlap % (FEO)	25	—	—
V438 — Vehicle Overlap % (VOL)	28	—	—

Case Vehicle Damage Description

Back to Top

Variable Number and Name	Code Value	Code Description	Other Options
V501 — Maximum Crush - Front	020 cm	—	—
V502 — Maximum Crush - Right Side	000 cm	No crush (or less than 1 cm.)	more
	000 cm	No crush (or	

V503 — Maximum Crush - Rear		less than 1 cm.)	more
V504 — Maximum Crush - Left Side	000 cm	No crush (or less than 1 cm.)	more
V505 — Maximum Crush - Roof	000 cm	No crush (or less than 1 cm.)	more
V506 — Maximum Crush - Other	000 cm	No crush (or less than 1 cm.)	more
V507 — Are Events In Chronological Order	1	Yes	more
V508 — Event 1 Impact Location	1	On Roadway	more
V509 — Event 1 Impact Configuration	11	FRONT of case veh - FRONT of contacted Vehicle	more
V510 — Event 1 Object/Vehicle Contacted	28	Intermediate 105-109.9 in. wb.	more
V511 — Event 2 Impact Location	8	No 2nd event	more
V512 — Event 2 Impact Configuration	88	No 2nd event	more
V513 — Event 2 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V514 — Event 3 Impact Location	8	No 3rd event	more
V515 — Event 3 Impact Configuration	88	No 3rd event	more
V516 — Event 3 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V517 — Event 4 Impact Location	8	No 4th event	more
V518 — Event 4 Impact Configuration	88	No 4th event	more
V519 — Event 4 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V520 — Event 5 Impact Location	8	No 5th event	more
V521 — Event 5 Impact Configuration	88	No 5th event	more
V522 — Event 5 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V523 — Event 6 Impact Location	8	No 6th event	more
V524 — Event 6 Impact Configuration	88	No 6th event	more

V525 — Event 6 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V526 — Event 7 Impact On Road	8	No 7th event	more
V527 — Event 7 Impact Configuration	88	No 7th event	more
V528 — Event 7 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V529 — Primary CDC Case Vehicle -event Number	1	Event 1	more
V530 — Primary CDC Case Vehicle - impact speed	999	Unknown	more
V531 — Primary CDC Case Vehicle - Estimated By	1	Investigator	more
V532 — Primary CDC Case Vehicle -crush	020	—	—
V533 — Primary CDC Case Vehicle -clock #1	12	12 o'clock	more
V534 — Primary CDC Case Vehicle letter 1 #1	06	F - Front	more
V535 — Primary CDC Case Vehicle letter 2 #1	12	L - Left (Front or Rear)	more
V536 — Primary CDC Case Vehicle letter 3 #1	05	E - Everything below belt line	more
V537 — Primary CDC Case Vehicle letter 4 #1	05	E - Corner (extends from corner to = or < 16 in [410mm])	more
V538 — Primary CDC Case Vehicle Extent #1	02	Extent 2	more
V539 — Primary CDC Case Vehicle -CDC #1	12FLEE2	—	—
V541 — Primary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V542 — Primary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V543 — Primary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V544 — Primary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	more
	00	Missing	

V545 — Primary CDC Case Vehicle Extent #2		Data/Not applicable	more
V546 — Primary CDC Case Vehicle -CDC #2	9800000	—	—
V547 — Primary CDC Contacted Vehicle - Impact Speed	999	Unknown	more
V548 — Primary CDC Contacted Vehicle - Estimated By	1	Investigator	more
V549 — Primary CDC Contacted Vehicle -crush	999	Unknown	more
V550 — Primary CDC Contacted Vehicle -clock #1	99	Unknown or no damage	more
V551 — Primary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	more
V552 — Primary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	more
V553 — Primary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	more
V554 — Primary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	more
V555 — Primary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	more
V556 — Primary CDC Contacted Vehicle -CDC #1	9900000	—	—
V558 — Primary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V559 — Primary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V560 — Primary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V561 — Primary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V562 — Primary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	more
V563 — Primary CDC Contacted Vehicle -CDC #2	9800000	—	—
V564 — Secondary CDC Case Vehicle - Event No	8	Not applicable	more

V565 — Secondary CDC Case Vehicle - Impact Speed	998	Not Applicable	more
V566 — Secondary CDC Case Vehicle - Estimated By	8	Not applicable (no vehicle/no impact)	more
V567 — Secondary CDC Case Vehicle -crush	998	Not Applicable	more
V568 — Secondary CDC Case Vehicle -clock #1	98	Not Applicable	more
V569 — Secondary CDC Case Vehicle letter 1 #1	00	Missing Data/Not applicable	more
V570 — Secondary CDC Case Vehicle letter 2 #1	00	Missing Data/Not applicable	more
V571 — Secondary CDC Case Vehicle letter 3 #1	00	Missing Data/Not applicable	more
V572 — Secondary CDC Case Vehicle letter 4 #1	00	Missing Data/Not applicable	more
V573 — Secondary CDC Case Vehicle Extent #1	00	Missing Data/Not applicable	more
V574 — Secondary CDC Case Vehicle -CDC #1	9800000	—	—
V576 — Secondary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V577 — Secondary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V578 — Secondary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V579 — Secondary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V580 — Secondary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	more
V581 — Secondary CDC Case Vehicle -CDC #2	9800000	—	—
V582 — Secondary CDC Contacted Vehicle - Impact Speed	998	Not Applicable	more

V583 — Secondary CDC Contacted Vehicle - Estimated By	8	Not applicable (no vehicle/no impact)	more
V584 — Secondary CDC Contacted Vehicle -crush	998	Not Applicable	more
V585 — Secondary CDC Contacted Vehicle -clock #1	98	Not Applicable	more
V586 — Secondary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	more
V587 — Secondary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	more
V588 — Secondary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	more
V589 — Secondary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	more
V590 — Secondary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	more
V591 — Secondary CDC Contacted Vehicle -CDC #1	9800000	—	—
V593 — Secondary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V594 — Secondary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V595 — Secondary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V596 — Secondary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V597 — Secondary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	more
V598 — Secondary CDC Contacted Vehicle -CDC #2	9800000	—	—

Crash Severity

Back to Top

Variable Number and Name	Code Value	Code Description	Other Options
V601 — Case Vehicle Primary Impact Number	1	—	—
V602 — Primary Impact Total Delta-V	014 kph	—	—
V603 — Primary Case Vehicle Reconstructed Longitudinal Delta-V	-014 kph	—	—
V604 — Primary Case Vehicle Reconstructed Lateral Delta-V	0002 kph	—	—
V605 — Primary Case Vehicle Reconstructed Crush Energy	0013 kJ	—	—
V606 — Primary Impact Case Vehicle - reconstuction	22	Reconstructed, moderate confidence level	more
V607 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	more
V608 — Primary Contacted Vehicle Reconstructed Total Delta-V	015 kph	—	—
	-014 kph		

V609 — Primary Contacted Vehicle Reconstructed Longitudinal Delta-V		—	—
V610 — Primary Contacted Vehicle Reconstructed Lateral Delta-V	-005 kph	—	—
V611 — Primary Contacted Vehicle Reconstructed Crush Energy	0016 kJ	—	—
V612 — Case Vehicle Secondary Impact Number	8	—	—
V613 — Secondary Case Vehicle Reconstructed Total Delta-V	888	N/A	more
V614 — Secondary Case Vehicle Reconstructed Longitudinal Delta-V	8888	—	—
V615 — Secondary Case Vehicle Reconstructed Lateral Delta-V	8888	—	—
V616 — Secondary Case Vehicle Reconstructed Crush Energy	8888	—	—
V617 —	88		

Secondary Case Vehicle Reconstruction Note		—	—
V618 — Secondary Case Vehicle Reconstruction Mode	8	Not applicable	more
V619 — Secondary Contacted Vehicle Reconstructed Total Delta-V	888	N/A	more
V620 — Secondary Contacted Vehicle Reconstructed Longitudinal Delta-V	8888	—	—
V621 — Secondary Contacted Vehicle Reconstructed Lateral Delta-V	8888	—	—
V622 — Secondary Contacted Vehicle Reconstructed Crush Energy	8888	—	—
V623 — Case Vehicle Primary Impact Number	1	—	—
V624 — Primary Case Vehicle Reconstructed Total EBS	013 kph	—	—
V625 — Primary Case Vehicle	-013 kph		

Reconstructed Longitudinal EBS		—	—
V626 — Primary Case Vehicle Reconstructed Lateral EBS	0002 kph	—	—
V627 — Primary Case Vehicle Reconstructed Crush Energy	0013 kJ	—	—
V628 — Primary Case Vehicle Reconstruction Note	22	Reconstructed, moderate confidence level	more
V629 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	more
V630 — Primary Contacted Vehicle Reconstruction Total EBS	999	Unknown	more
V631 — Primary Contacted Vehicle Reconstruction Longitudinal EBS	9999	—	—
V632 — Primary Contacted Vehicle Reconstruction Lateral EBS	9999	—	—
V633 — Primary Contacted Vehicle Reconstruction Crush Energy	9999	—	—

V634 — Case Vehicle Secondary Impact Number	8	Not applicable	more
V635 — Secondary Case Vehicle Reconstruction Total EBS	888	N/A	more
V636 — Secondary Case Vehicle Reconstruction Longitudinal EBS	8888	—	—
V637 — Secondary Case Vehicle Reconstruction Lateral EBS	8888	—	—
V638 — Secondary Case Vehicle Reconstruction Crush Energy	8888	—	—
V639 — Secondary Case Vehicle Reconstruction Note	88	—	—
V640 — Secondary Case Vehicle Reconstruction Mode	8	Not applicable	more
V641 — Secondary Contacted Vehicle Reconstruction Total EBS	888	N/A	more
V642 — Secondary Contacted Vehicle Reconstruction Longitudinal	8888	—	—

EBS			
V643 — Secondary Contacted Vehicle Reconstruction Lateral EBS	8888	—	—
V644 — Secondary Contacted Vehicle Reconstruction Crush Energy	8888	—	—
V645 — Case Vehicle Reconstructed Impact Number	1	—	—
V646 — Case Vehicle Impact 1 Plane	1	Bumper	more
V647 — Case Vehicle Impact 1 Direct Damage Length [DDL]	040 cm	—	—
V648 — Case Vehicle Impact 1 Max Crush	020 cm	—	—
V649 — Case Vehicle Impact 1 Field-L	134 cm	—	—
V650 — Case Vehicle Impact 1 C1	020 cm	—	—
V651 — Case Vehicle Impact 1 C2	000 cm	No Crush	more
V652 — Case Vehicle Impact 1 C3	000 cm	No Crush	more
V653 — Case Vehicle Impact 1 C4	000 cm	No Crush	more

V654 — Case Vehicle Impact 1 C5	000 cm	No Crush	more
V655 — Case Vehicle Impact 1 C6	000 cm	No Crush	more
V656 — Case Vehicle Impact 1 +/- D	-060 cm	—	—
V657 — Case Vehicle Reconstructed Impact Number	2	—	—
V658 — Case Vehicle Impact 2 Plane	8	Not applicable	more
V659 — Case Vehicle Impact 2 Direct Damage Length [DDL]	998	Not applicable	more
V660 — Case Vehicle Impact 2 Max Crush	998	Not applicable	more
V661 — Case Vehicle Impact 2 Field-L	998	Not applicable	more
V662 — Case Vehicle Impact 2 C1	998	Not applicable	more
V663 — Case Vehicle Impact 2 C2	998	Not applicable	more
V664 — Case Vehicle Impact 2 C3	998	Not applicable	more
V665 — Case Vehicle Impact 2 C4	998	Not applicable	more
V666 — Case Vehicle Impact 2 C5	998	Not applicable	more

V667 — Case Vehicle Impact 2 C6	998	Not applicable	more
V668 — Case Vehicle Impact 2 +/- D	9998	—	—
V669 — Other Vehicle Reconstructed Impact Number	9	Unknown	more
V670 — Other Vehicle Impact 1 Plane	9	Unknown	more
V671 — Other Vehicle Impact 1 Direct Damage Length [DDL]	999	Unknown	more
V672 — Other Vehicle Impact 1 Max Crush	999	Unknown	more
V673 — Other Vehicle Impact 1 Field-L	999	Unknown	more
V674 — Other Vehicle Impact 1 C1	999	Unknown	more
V675 — Other Vehicle Impact 1 C2	999	Unknown	more
V676 — Other Vehicle Impact 1 C3	999	Unknown	more
V677 — Other Vehicle Impact 1 C4	999	Unknown	more
V678 — Other Vehicle Impact 1 C5	999	Unknown	more
V679 — Other Vehicle Impact 1 C6	999	Unknown	more

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

Case Vehicle Tires & Rims

Back to Top

Variable Number and Name	Code Value	Code Description	Other Options
V701 — Left Front Wheel Damaged	1	Yes	more
V702 — Right Front Wheel Damaged	0	No	more
V703 — Right Rear Wheel Damaged	0	No	more
V704 — Left Rear Wheel Damaged	0	No	more
V705 — Left Front Tire Tread Type	4	All Weather	more
V706 — Right Front Tire Tread Type	4	All Weather	more
V707 — Right Rear Tire Tread Type	4	All Weather	more
V708 — Left Rear Tire Tread Type	4	All Weather	more
V709 — Left Front Carcass Construction	3	Radial	more
V710 — Right Front Carcass Construction	3	Radial	more
V711 — Right Rear Carcass Construction	3	Radial	more
V712 — Left Rear Carcass Construction	3	Radial	more
V717 — Left Front Tire Size	P21575R15	—	—
V718 — Right Front Tire Size	P21575R15	—	—
V719 — Right Rear Tire Size	P21575R15	—	—
V720 — Left Rear Tire Size	P21575R15	—	—

Case Vehicle Fuel, Tank, Fire

Back to Top

Variable Number and Name	Code Value	Code Description	Other Options
V801 — Propulsive Fuel Type	1	Gasoline	more
V802 — Main Tank Location	122	Within frame/centered laterally - within vertically	more
V803 — Main Filler Cap Location	313	Left of frame laterally - above vertically	more

V804 — Main Tank Material	1	Steel	more
V805 — Aux Tank Type	8	Not applicable (not equipped)	more
V806 — Aux Tank Location	888	Not applicable (not equipped)	more
V807 — Aux Filler Cap Location	888	Not applicable (not equipped)	more
V808 — Aux Tank Material	8	Not applicable	more
V901 — Fuel Leakage From Crash	0	No	more
V1001 — Fire In Or On Case Vehicle	0	No	more

Case Vehicle Exterior

Back to Top

Variable Number and Name	Code Value	Code Description	Other Options
V1101 — Hood Latch Released	0	No	more
V1102 — Hood Latch Damaged	0	No	more
V1103 — Hood Latch Jammed	8	Not applicable	more
V1104 — Left Hood Hinge Damaged	0	No	more
V1105 — Left Hood Hinge Separated	8	Not applicable	more
V1106 — Right Hood Hinge Damaged	0	No	more
V1107 — Right Hood Hinge Separated	8	Not applicable	more
V1108 — Hood Remained On Vehicle	1	Yes	more
V1109 — Rear Hood Edge Elevated	0	No	more
V1110 — Edge Contacted Windshield	0	No	more
V1111 — Edge Penetrated Windshield	8	Not applicable	more
V1112 — Hood Latch Location	1	Front of Vehicle	more
V1113 — Eng/Transmissn Mount Separation	0	No	more
V1114 — Steerng Column Flex Coupling	9	Unknown if equipped	more
V1115 — Steerng Column Coupling Damaged	9	Unknown	more
V1116 — Steerng Column Coupling Separated	9	Unknown	more
V1117 — Eng Comp Telescopng Unit	88	Not collected	more
V1118 — Comp Orig/Telescopd Diff	888	Not collected	more
V1119 — Left Side Body Mount Separation	0	No	more
V1120 — Upper Left A-pillar Separation	0	No	more

V1121 — Lower Left A-pillar Separation	0	No	more
V1122 — Upper Left B-pillar Separation	0	No	more
V1123 — Lower Left B-pillar Separation	0	No	more
V1124 — Upper Left C-pillar Separation	0	No	more
V1125 — Lower Left C-pillar Separation	0	No	more
V1126 — Upper Left D-pillar Separation	0	No	more
V1127 — Lower Left D-pillar Separation	0	No	more
V1128 — Left Front Door Opening Cause	0	Door did not open	more
V1129 — Left Rear Door Opening Cause	0	Door did not open	more
V1130 — Left Front Door Jammed Closed	0	No	more
V1131 — Left Rear Door Jammed Closed	0	No	more
V1132 — Rear Door Type	2	One-way tailgate	more
V1133 — Rear Door Opening Cause	0	Door did not open	more
V1134 — Rear Door Jammed Closed	0	No	more
V1135 — Luggage Partition Damagd	8	Not applicable	more
V1136 — Spare Tire Status	8	Not collected	more
V1137 — Trailer Hitch Type	0	No hitch	more
V1138 — Trailer Type	0	No trailer	more
V1139 — Right Side Body Mount Separation	0	No	more
V1140 — Upper Right A-pillar Separation	0	No	more
V1141 — Lower Right A-pillar Separation	0	No	more
V1142 — Upper Right B-pillar Separation	0	No	more
V1143 — Lower Right B-pillar Separation	0	No	more
V1144 — Upper Right C-pillar Separation	0	No	more
V1145 — Lower Right C-pillar	0	No	more

Separation			
V1146 — Upper Right D-pillar Separation	0	No	more
V1147 — Lower Right D-pillar Separation	0	No	more
V1148 — Right Front Door Opening Cause	00	Door did not open	more
V1149 — Right Rear Door Opening Cause	00	Door did not open	more
V1150 — Right Front Door Jammed Closed	0	No	more
V1151 — Right Rear Door Jammed Closed	0	No	more
V1152 — Van Rear Door Type	0	Van, no right-rear door	more
V1153 — Windshield Cracked	 Click for windshield damage figure	No	more
V1154 — Windshield Broken	8	Not applicable	more
V1155 — Windshield Cracked or Broken by Occupant	8	Not applicable	more
V1156 — Bond Separation Extent	0	None	more
V1157 — Windshield Code	 Click for windshield code figure	—	—
V1158 — Did Sun/T Roof Open	8	Not Applicable	more

Case Vehicle Steering Column/Rim

Back to Top

Variable Number and Name	Code Value	Code Description	Other Options
V1201 — Steering Wheel Rim Damage	0	None	more
V1202 — Number of Steering Wheel Spokes	3	3 spokes	more
V1203 — Steering Wheel Spoke Damage	0	None	more

V1204 — Column Tilt Feature	2	Up	more
V1205 — Column Swing-away Feature	0	Not equipped	more
V1206 — Column Telescoping Feature	0	Not equipped	more
V1207 — Wheel Energy Absorb Device	8	Not collected	more
V1208 — Wheel Ea Orig/Damaged Diff	888	Not collected	more
V1209 — Column Energy Absorb Device	88	Not collected	more
V1210 — Column Ea Orig/Comprss Diff	888	Not collected	more
V1211 — Shear Capsule Separation	888	Not collected	more
V1212 — Column Vertical Rotation	0	No apparent rotation	more
V1213 — Column Lateral Rotation	0	No apparent rotation	more
V1214 — Steering Wheel Hub Damage	0	None	more

Case Vehicle Intrusion


Click for intrusion figures

Back to Top

Variable Number and Name	Code Value	Code Description	Other Options
V1301 — Occupant Compartment Intrusion	0	No	more
V1302 — Was Intrusion Catastrophic	8	Not applicable	more
V1303 — Intrusion Number 01	00	No Intrusion, None	more
V1304 — Intrusion 01 Occupant Space Number	00	No Intrusion, None	more
V1305 — Intrusion 01 Intruding Object	00	No Intrusion, None	more
V1306 — Intrusion 01 Assoc Event Number	0	No Intrusion, None	more
V1307 — Intrusion 01 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1308 — Intrusion 01 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1309 — Intrusion 01 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1310 — Intrusion 01 Occupant Number	00	No contact or no intrusion	more

V1311 — Intrusion 01 Injury Number	00	No injury or no intrusion	more
V1312 — Intrusion 01 Occupant Number	00	No contact or no intrusion	more
V1313 — Intrusion 01 Injury Number	99	Contact, injury unknown or data not collected	more
V1314 — Intrusion Number 02	00	No Intrusion, None	more
V1315 — Intrusion 02 Occupant Space Number	00	No Intrusion, None	more
V1316 — Intrusion 02 Intruding Object	00	No Intrusion, None	more
V1317 — Intrusion 02 Assoc Event Number	0	No Intrusion, None	more
V1318 — Intrusion 02 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1319 — Intrusion 02 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1320 — Intrusion 02 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1321 — Intrusion 02 Occupant Number	00	No contact or no intrusion	more
V1322 — Intrusion 02 Injury Number	00	No injury or no intrusion	more
V1323 — Intrusion 02 Occupant Number	00	No contact or no intrusion	more
V1324 — Intrusion 02 Injury Number	99	Contact, injury unknown or data not collected	more
V1325 — Intrusion Number 03	00	No Intrusion, None	more
V1326 — Intrusion 03 Occupant Space Number	00	No Intrusion, None	more
V1327 — Intrusion 03 Intruding Object	00	No Intrusion, None	more
V1328 — Intrusion 03 Assoc Event Number	0	No Intrusion, None	more
V1329 — Intrusion 03 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1330 — Intrusion 03 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1331 — Intrusion 03 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1332 — Intrusion 03 Occupant Number	00	No contact or no intrusion	more
V1333 — Intrusion 03 Injury Number	00	No injury or no intrusion	more
V1334 — Intrusion 03 Occupant Number	00	No contact or no intrusion	more

V1335 — Intrusion 03 Injury Number	99	Contact, injury unknown or data not collected	more
V1336 — Intrusion Number 04	00	No Intrusion, None	more
V1337 — Intrusion 04 Occupant Space Number	00	No Intrusion, None	more
V1338 — Intrusion 04 Intruding Object	00	No Intrusion, None	more
V1339 — Intrusion 04 Assoc Event Number	0	No Intrusion, None	more
V1340 — Intrusion 04 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1341 — Intrusion 04 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1342 — Intrusion 04 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1343 — Intrusion 04 Occupant Number	00	No contact or no intrusion	more
V1344 — Intrusion 04 Injury Number	00	No injury or no intrusion	more
V1345 — Intrusion 04 Occupant Number	00	No contact or no intrusion	more
V1346 — Intrusion 04 Injury Number	99	Contact, injury unknown or data not collected	more
V1347 — Intrusion Number 05	00	No Intrusion, None	more
V1348 — Intrusion 05 Occupant Space Number	00	No Intrusion, None	more
V1349 — Intrusion 05 Intruding Object	00	No Intrusion, None	more
V1350 — Intrusion 05 Assoc Event Number	0	No Intrusion, None	more
V1351 — Intrusion 05 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1352 — Intrusion 05 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1353 — Intrusion 05 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1354 — Intrusion 05 Occupant Number	00	No contact or no intrusion	more
V1355 — Intrusion 05 Injury Number	00	No injury or no intrusion	more
V1356 — Intrusion 05 Occupant Number	00	No contact or no intrusion	more
V1357 — Intrusion 05 Injury Number	99	Contact, injury unknown or data not collected	more
V1358 — Intrusion Number 06	00	No Intrusion, None	more

V1359 — Intrusion 06 Occupant Space Number	00	No Intrusion, None	more
V1360 — Intrusion 06 Intruding Object	00	No Intrusion, None	more
V1361 — Intrusion 06 Assoc Event Number	0	No Intrusion, None	more
V1362 — Intrusion 06 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1363 — Intrusion 06 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1364 — Intrusion 06 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1365 — Intrusion 06 Occupant Number	00	No contact or no intrusion	more
V1366 — Intrusion 06 Injury Number	00	No injury or no intrusion	more
V1367 — Intrusion 06 Occupant Number	00	No contact or no intrusion	more
V1368 — Intrusion 06 Injury Number	99	Contact, injury unknown or data not collected	more
V1369 — Intrusion Number 07	00	No Intrusion, None	more
V1370 — Intrusion 07 Occupant Space Number	00	No Intrusion, None	more
V1371 — Intrusion 07 Intruding Object	00	No Intrusion, None	more
V1372 — Intrusion 07 Assoc Event Number	0	No Intrusion, None	more
V1373 — Intrusion 07 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1374 — Intrusion 07 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1375 — Intrusion 07 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1376 — Intrusion 07 Occupant Number	00	No contact or no intrusion	more
V1377 — Intrusion 07 Injury Number	00	No injury or no intrusion	more
V1378 — Intrusion 07 Occupant Number	00	No contact or no intrusion	more
V1379 — Intrusion 07 Injury Number	99	Contact, injury unknown or data not collected	more
V1380 — Intrusion Number 08	00	No Intrusion, None	more
V1381 — Intrusion 08 Occupant Space Number	00	No Intrusion, None	more
V1382 — Intrusion 08 Intruding	00		

Object		No Intrusion, None	more
V1383 — Intrusion 08 Assoc Event Number	0	No Intrusion, None	more
V1384 — Intrusion 08 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1385 — Intrusion 08 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1386 — Intrusion 08 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1387 — Intrusion 08 Occupant Number	00	No contact or no intrusion	more
V1388 — Intrusion 08 Injury Number	00	No injury or no intrusion	more
V1389 — Intrusion 08 Occupant Number	00	No contact or no intrusion	more
V1390 — Intrusion 08 Injury Number	99	Contact, injury unknown or data not collected	more
V1391 — Intrusion Number 09	00	No Intrusion, None	more
V1392 — Intrusion 09 Occupant Space Number	00	No Intrusion, None	more
V1393 — Intrusion 09 Intruding Object	00	No Intrusion, None	more
V1394 — Intrusion 09 Assoc Event Number	0	No Intrusion, None	more
V1395 — Intrusion 09 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1396 — Intrusion 09 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1397 — Intrusion 09 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1398 — Intrusion 09 Occupant Number	00	No contact or no intrusion	more
V1399 — Intrusion 09 Injury Number	00	No injury or no intrusion	more
V1400 — Intrusion 09 Occupant Number	00	No contact or no intrusion	more
V1401 — Intrusion 09 Injury Number	99	Contact, injury unknown or data not collected	more
V1402 — Intrusion Number 10	00	No Intrusion, None	more
V1403 — Intrusion 10 Occupant Space Number	00	No Intrusion, None	more
V1404 — Intrusion 10 Intruding Object	00	No Intrusion, None	more
V1405 — Intrusion 10 Assoc Event Number	0	No Intrusion, None	more

V1406 — Intrusion 10 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1407 — Intrusion 10 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1408 — Intrusion 10 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1409 — Intrusion 10 Occupant Number	00	No contact or no intrusion	more
V1410 — Intrusion 10 Injury Number	00	No injury or no intrusion	more
V1411 — Intrusion 10 Occupant Number	00	No contact or no intrusion	more
V1412 — Intrusion 10 Injury Number	99	Contact, injury unknown or data not collected	more
V1413 — Door Intrusion Number 01	88	Not Applicable	more
V1414 — Door Intrusion Number 01 Cause	8	Not applicable	more
V1415 — Door Intrusion Number 02	88	Not Applicable	more
V1416 — Door Intrusion Number 02 Cause	8	Not applicable	more
V1417 — Door Intrusion Number 03	88	Not Applicable	more
V1418 — Door Intrusion Number 03 Cause	8	Not applicable	more
V1419 — Door Intrusion 01 Component	88	Not Applicable	more
V1420 — Door Intrusion 01 Component Damaged 1	8	Not Applicable	more
V1421 — Door Intrusion 01 Component Damaged 2	8	Not Applicable	more
V1422 — Door Intrusion 02 Component	88	Not Applicable	more
V1423 — Door Intrusion 02 Component Damaged 1	8	Not Applicable	more
V1424 — Door Intrusion 02 Component Damaged 2	8	Not Applicable	more
V1425 — Door Intrusion 03 Component	88	Not Applicable	more
V1426 — Door Intrusion 03 Component Damaged 1	8	Not Applicable	more
V1427 — Door Intrusion 03 Component Damaged 2	8	Not Applicable	more
V1428 — Door Intrusion 04 Component	88	Not Applicable	more
V1429 — Door Intrusion 04	8		

Component Damaged 1		Not Applicable	more
V1430 — Door Intrusion 04 Component Damaged 2	8	Not Applicable	more

Case Vehicle Airbag(s)


Click for Driver airbag figure


Click for Passenger airbag figure

Back to Top

Variable Number and Name	Code Value	Code Description	Other Options
V1501 — Driver Airbag Equipped	1	Yes	more
V1502 — Driver Airbag Deployed	1	Yes	more
V1503 — Driver Airbag Condition	0	No Damage	more
V1504 — Passenger Airbag Equip	1	Yes	more
V1505 — Passenger Airbag Deployed	1	Yes	more
V1506 — Passenger Airbag Condition	0	No Damage	more
V1507 — Steering Wheel Airbag Tether	1	Yes	more
V1508 — Driver Airbag Marked By Contact	1	Yes	more
V1509 — Passenger Airbag Tether	0	No	more
V1510 — Passenger Airbag Marked By Contact	1	Yes	more

Case Vehicle Interior

Back to Top

Variable Number and Name	Code Value	Code Description	Other Options
V1601 — Left Front Door Damaged	0	No	more
V1602 — Right Front Door Damaged	0	No	more
V1603 — Left Front Hardware Damaged	0	No	more
V1604 — Right Front Hardware Damaged	0	No	more
V1605 — Left Front Armrest Damaged	0	No	more
V1606 — Right Front Armrest Damaged	0	No	more
	0		

V1607 — Left Front Glass Damaged		No	more
V1608 — Right Front Glass Damaged	0	No	more
V1609 — Left Rear Door Area Damaged	0	No	more
V1610 — Right Rear Door Area Damaged	0	No	more
V1611 — Left Rear Hardware Damaged	0	No	more
V1612 — Right Rear Hardware Damaged	0	No	more
V1613 — Left Rear Armrest Damaged	0	No	more
V1614 — Right Rear Armrest Damaged	0	No	more
V1615 — Left Rear Glass Damaged	0	No	more
V1616 — Right Rear Glass Damaged	0	No	more
V1617 — Left Roof Side Rail Damaged	0	No	more
V1618 — Right Roof Side Rail Damaged	0	No	more
V1619 — Left B-pillar Damaged	0	No	more
V1620 — Right B-pillar Damaged	0	No	more
V1621 — Left C-pillar Damaged	0	No	more
V1622 — Right C-pillar Damaged	0	No	more
V1623 — Left D-pillar Damaged	0	No	more
V1624 — Right D-pillar Damaged	0	No	more
V1625 — Left Headlining Damaged	0	No	more
V1626 — Right Headlining Damaged	0	No	more
V1627 — Left Roof Structure Damaged	0	No	more
V1628 — Right Roof Structure Damaged	0	No	more
V1629 — Left T/Sun Roof Damaged	8	Not applicable	more
V1630 — Right T/Sun Roof Damaged	8	Not applicable	more
V1631 — Other Left Side Item Damagd	8	Not applicable	more
V1632 — Other Right Side Item Damagd	8	Not applicable	more
V1633 — Foot Controls Damaged	0	No	more
V1634 — Ignition Key Damaged	0	No	more
V1635 — Rear View Mirror Damaged	0	No	more

V1636 — Sunvisor/Fitting Damaged	0	No	more
V1637 — Windshield Molding Damaged	0	No	more
V1638 — Left A-pillar Damaged	0	No	more
V1639 — Right A-pillar Damaged	0	No	more
V1640 — Center Console Damaged	0	No	more
V1641 — Transmission Lever Damaged	0	No	more
V1642 — Horn/Spoke Shroud Damagd	0	No	more
V1643 — Upper Panel Damaged	0	No	more
V1644 — Mid Panel Damaged	0	No	more
V1645 — Lower Panel Damaged	3	No, occupant contact	more
V1646 — Ashtray Damaged	0	No	more
V1647 — Control Knob/Lever Damaged	0	No	more
V1648 — Glove Compartment Area Damaged	0	No	more
V1649 — Instruments Damaged	0	No	more
V1650 — Park Brake Release Damaged	0	No	more
V1651 — Park Brake Pedal Damaged	0	No	more
V1652 — A/C Or Upper Vent Damaged	0	No	more
V1653 — Heater Or A/C Duct Damaged	0	No	more
V1654 — Radio Damaged	0	No	more
V1655 — Other Item Damaged	8	Not applicable	more
V1656 — Rear Window Damaged	0	No	more
V1657 — Rear Window Header Damaged	0	No	more
V1658 — Vertical Console Damaged	0	No	more
V1659 — Roof Console Damaged	0	No	more

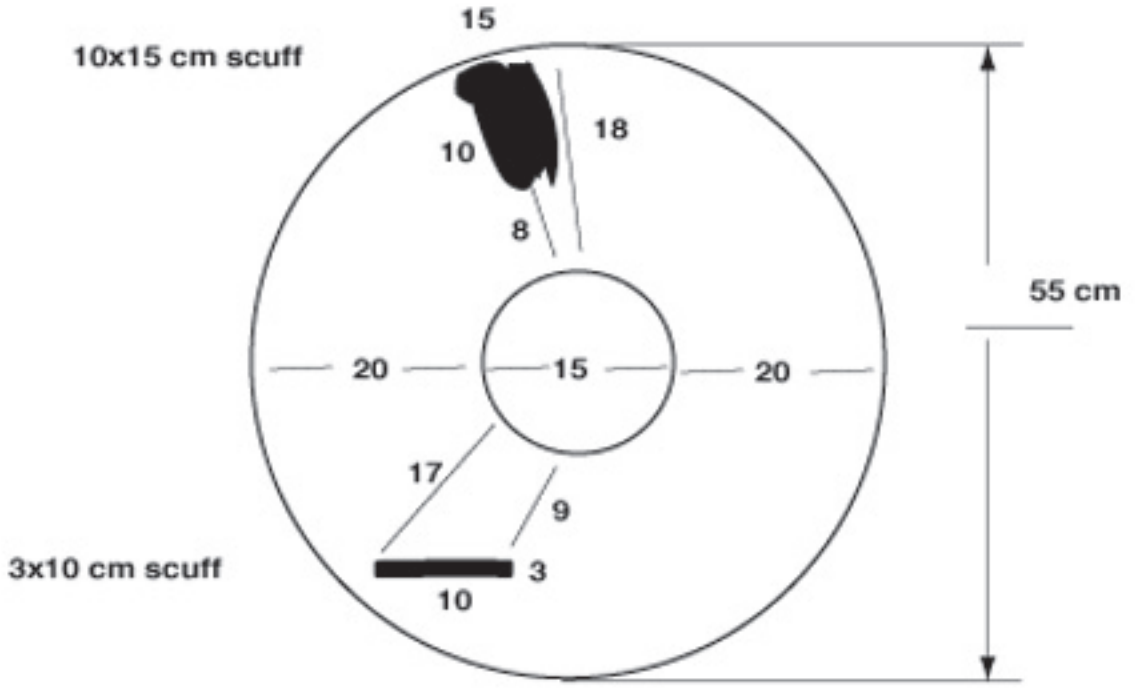
Case Vehicle Seats

Back to Top

Variable Number and Name	Code Value	Code Description	Other Options
V1701 — Driver Front Seat Type	05	Bucket	more
V1702 — Passenger Front Seat Type	05	Bucket	more

V1703 — Driver Seat Mount Type	1	Standard	more
V1704 — Passenger Seat Mount Type	1	Standard	more
V1705 — Driver Swivel Mechanism Equipped	0	No	more
V1706 — Passenger Swivel Mechanism Equipped	0	No	more
V1707 — Driver Seat Original Equipment	1	Yes	more
V1708 — Passenger Seat Original Equipment	1	Yes	more
V1709 — Driver Seat/Rear Occupant Contact	8	Not applicable	more
V1710 — Passenger Seat/Rear Occupant Contact	8	Not applicable	more
V1711 — Driver Seat Damage	0	None	more
V1712 — Passenger Seat Damage	0	None	more
V1713 — Center Front Armrest Damaged	0	No	more
V1714 — Driver Seat Rotation	0	None apparent	more
V1715 — Passenger Seat Rotation	0	None apparent	more
V1716 — Driver Seat-back Type	3	Reclining	more
V1717 — Passenger Seat-back Type	3	Reclining	more
V1718 — Driver Seat-back Lock Type	1	Manual	more
V1719 — Passenger Seat-back Lock Type	1	Manual	more
V1720 — Driver Seat-back Lock Held	1	Yes	more
V1721 — Passenger Seat-back Lock Held	1	Yes	more

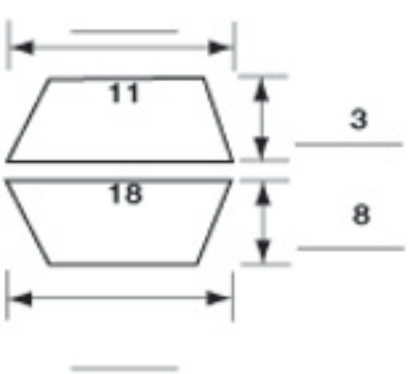
Driver Airbag



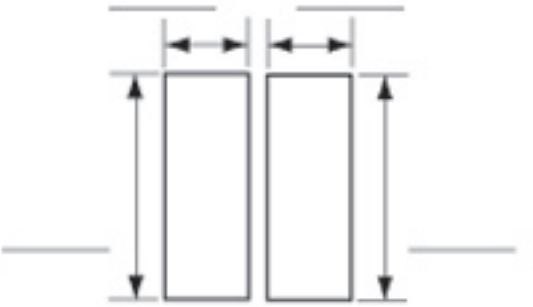
Vents: Y (N)
if yes, how many: _____

Tethers: (Y) N
if yes, how many: 2

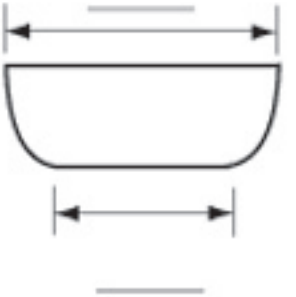
Driver Airbag Doors



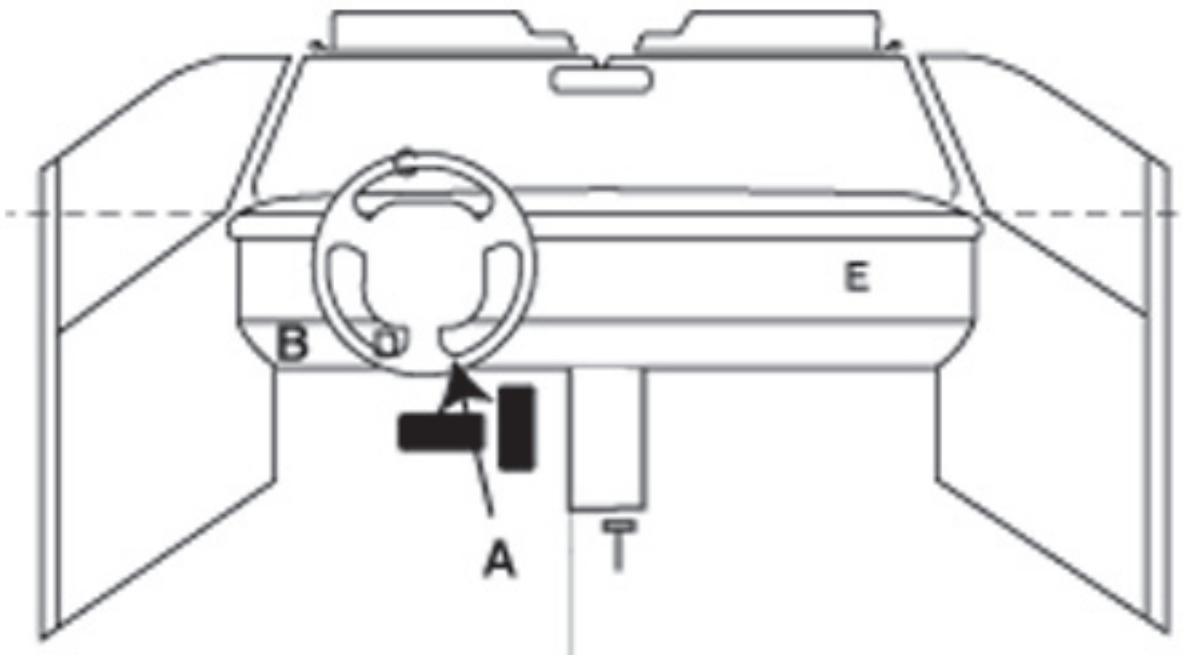
H-Pattern



I-Pattern



Single Door



A = knee bolster below steering column, scuff

B = knee bolster left, scuff

C = top of driver airbag, scuff

D = bottom of driver airbag, scuff

E = center of RF airbag, scuff

1 = Definitely 2 = Probably 3 = Possible

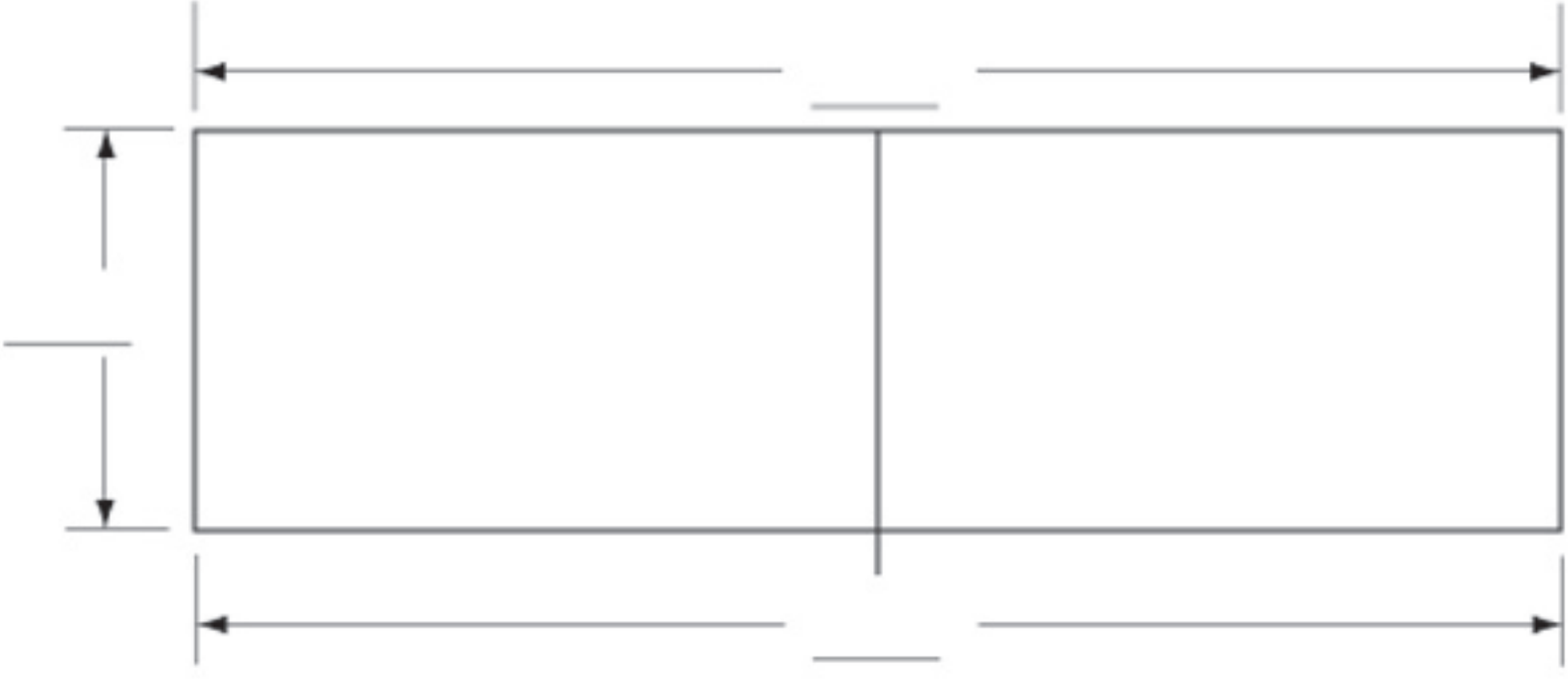
INTRUSION IT-1

Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters) Comparison Value	–	Intruded Value	=	Intrusion	Dominant Crush Direction
			–		=		
	No Intrusions		–		=		
			–		=		
			–		=		
			–		=		
			–		=		
			–		=		
			–		=		
			–		=		
			–		=		
			–		=		
			–		=		
			–		=		

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	R knee	Scuff just below steering column	1
B	Knee bolster	1	L knee	Scuff on left side of knee bolster	1
C	Driver airbag	1	Face	Scuff at 11 o'clock position	1
D	Driver airbag	1	Left arm	Scuff at 6 o'clock position	1
E	RF airbag	2	CSS	Scuff near center of airbag	1
F					
G					
H					
I					
J					
K					
L					
M					

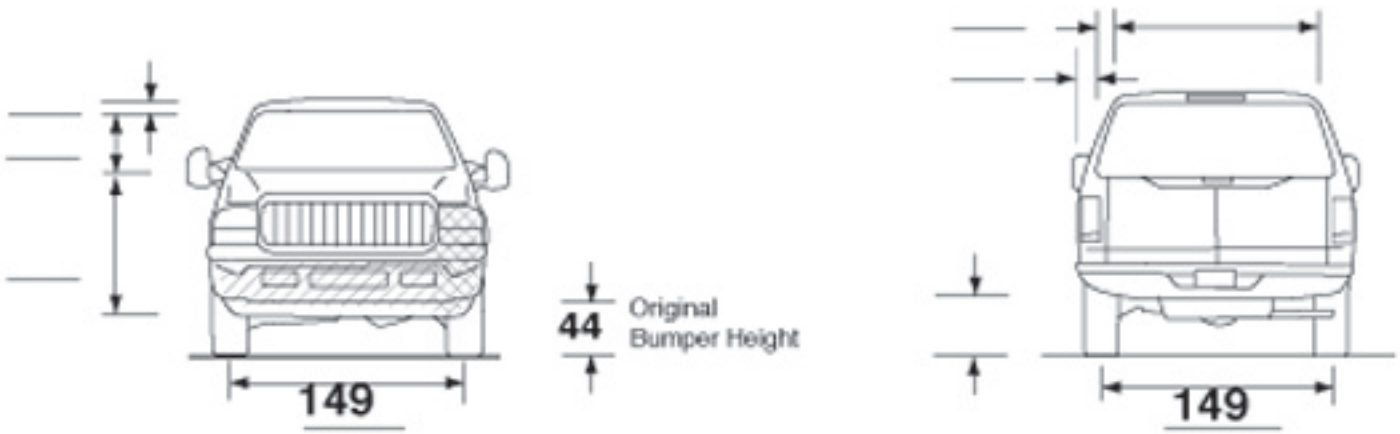
No Damage to Windshield

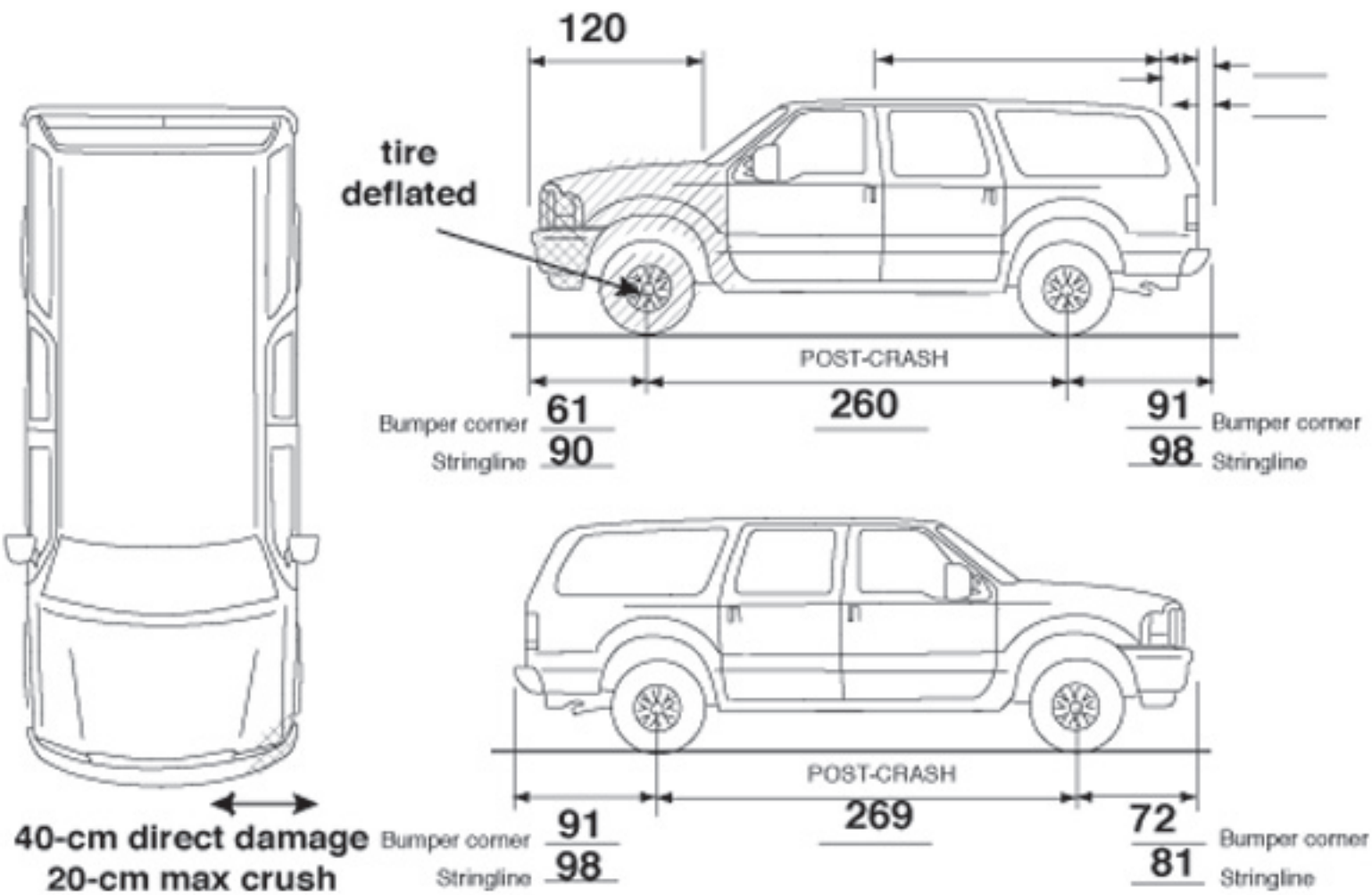


WINDSHIELD MARK ON CASE VEHICLE:

Unknown

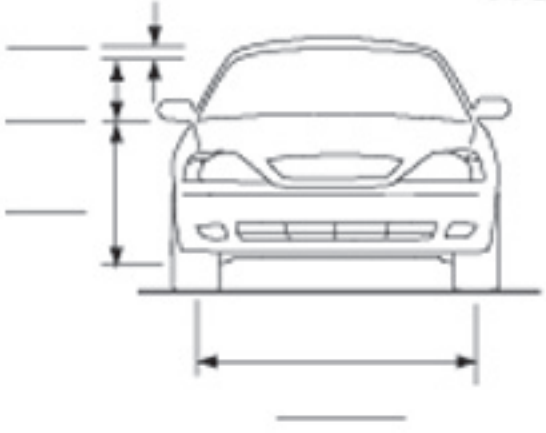
MEASUREMENTS IN CENTIMETERS



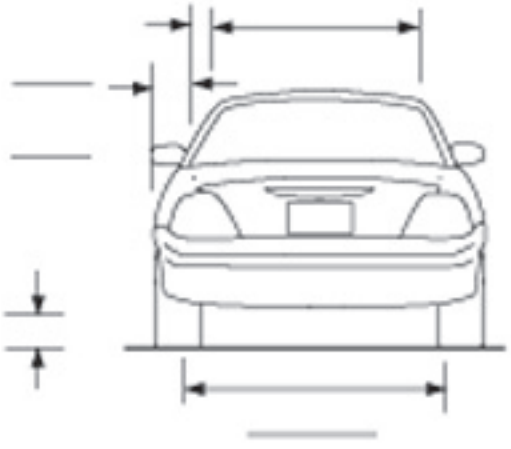


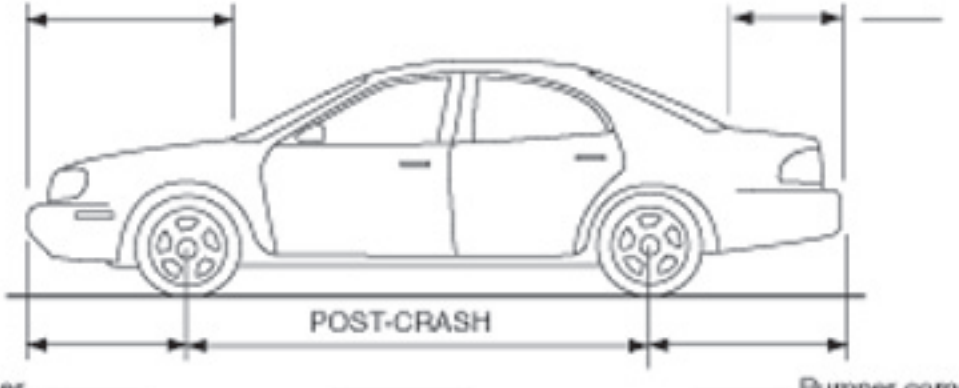
MEASUREMENTS IN CENTIMETERS

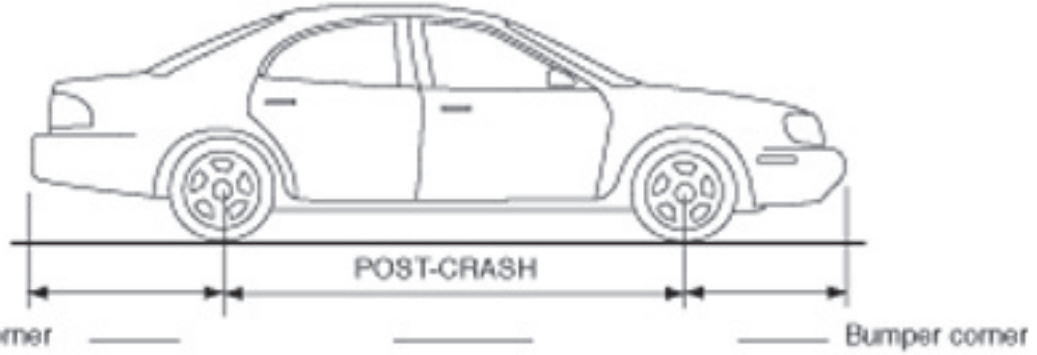
No inspection



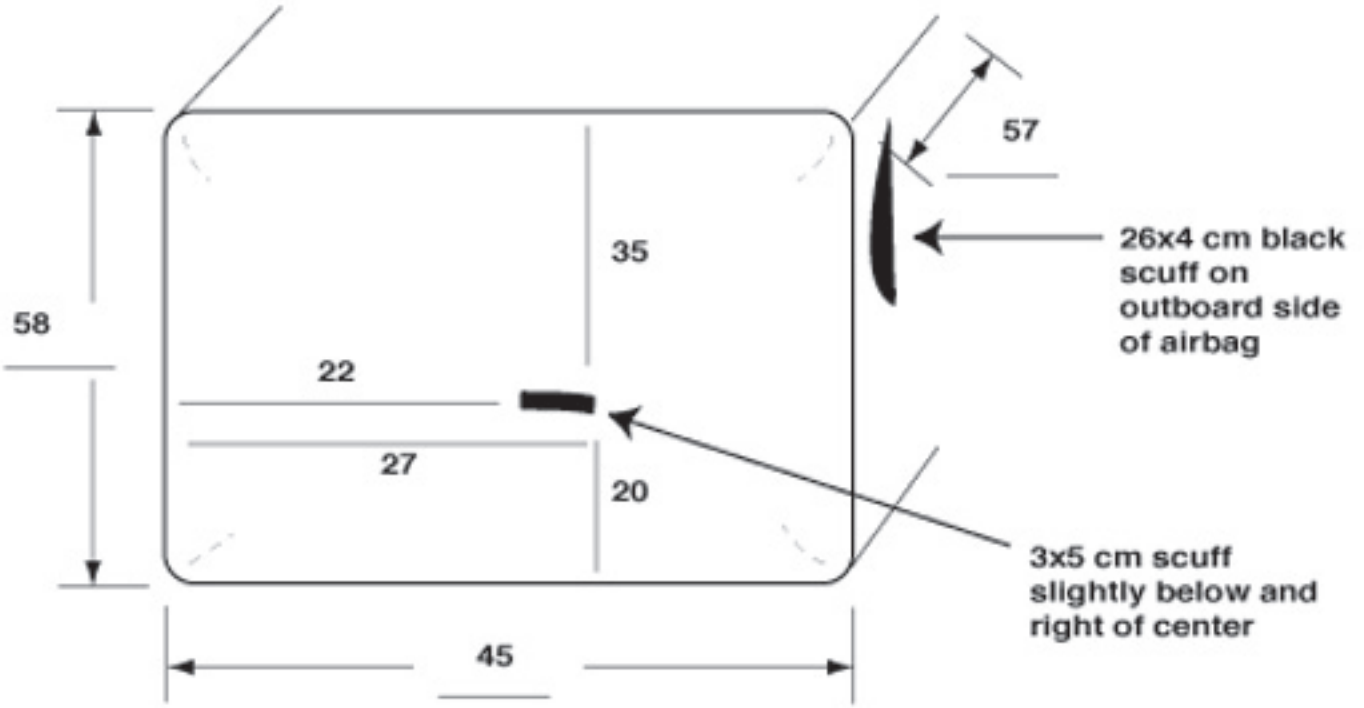
Original
Bumper Height







Passenger Airbag

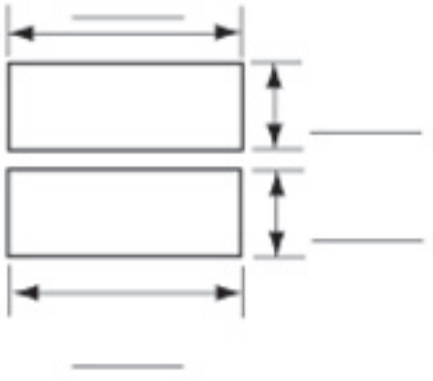


Vents: Y (N)
if yes, how many: _____

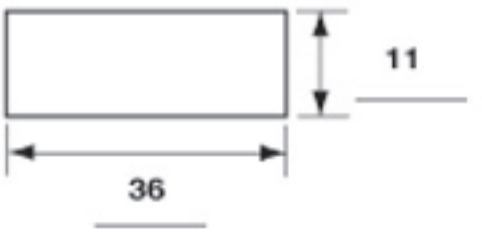
Tethers: Y (N)
if yes, how many: _____

Passenger Airbag Doors

H-Pattern



Single Door



Fisher-Price

Instructions

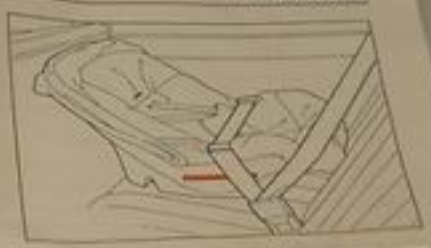
Infant Car Seat Instructions

WARNING: Do not use this *Infant Car Seat* until you have read and understood all instructions and warnings provided. Improper use placing your child at greater risk and could result in a child's or your death.

Meets Federal requirements for use in motor vehicles and aircraft.

Important: Please read these instructions carefully and keep them under your *Infant Car Seat* in the pocket provided.

Table of Contents



1. Important Safety Information

Warning: Failure to follow the following instructions can result in your child striking the vehicle's interior during a sudden stop or crash.

- Secure the *Infant Car Seat* with a vehicle seat belt as specified in this instruction booklet.
- For maximum safety protection, the *Infant Car Seat* should be installed in the rear seat of your vehicle. If the rear seat of your vehicle has three passenger seating areas, the center position is recommended.
- For a snug and comfortable fit, push the shield toward your child and take up the belt slack by pulling each shoulder belt through the belt adjusters (buckles) behind the seat.
- Always place the *Infant Car Seat* in a rear-facing position when using it in a vehicle.
- The Fisher-Price *Infant Car Seat* should be used only in forward-facing vehicle seats with a lap seat belt or lap and shoulder seat belt. The lap section must be of the type that will tightly anchor the *Infant Car Seat* in place at all times.
- When using the *Infant Car Seat* in a vehicle, make sure it is in the rocker position (see section 6).
- Do not use the *Infant Car Seat* in a vehicle seating location equipped with an airbag. The *Infant Car Seat* can be struck by the airbag as it inflates, which could result in serious injury.
- In the event that your Fisher-Price *Infant Car Seat* is involved in an accident, it must be replaced.

The Fisher-Price *Infant Car Seat* is not recommended for:

1. Vehicle seats that face to the side or to the rear.
2. Vehicle seats with backs that can fold forward in a crash or sudden stop. Some seat backs automatically lock in an emergency. Check your owner's manual or with your dealer if you are not sure.
3. Seating positions with belts that automatically surround the passenger as the door is closed (passive restraint systems).
4. Seating positions with emergency locking lap belts or with other lap belts that do not keep the *Infant Car Seat* tightly anchored at all times.

2. General Information About The Fisher-Price Infant Car Seat

Your Fisher-Price *Infant Car Seat* and other car seats are designed to restrain children when they travel and to provide them with a greater level of protection than without a car seat. But, an automobile accident exposes children to injury even when they are properly restrained. No one can predict whether a car seat will prevent injury or death in a particular accident, but proper use has proven to reduce the risk.

The Fisher-Price *Infant Car Seat* is designed to be used as a rear-facing seat for infants who weight up to 20 pounds and whose height is 29 inches or less.

Always securely belt the *Infant Car Seat* in your vehicle, even if it is not occupied. In a crash or sudden stop an unrestrained car seat may injure other occupants.

This instruction booklet applies to the use of the Fisher-Price *Infant Car Seat* in motor vehicles and aircraft and as a portable seat or portable seat fastened to a shopping cart.

3. Aircraft Use

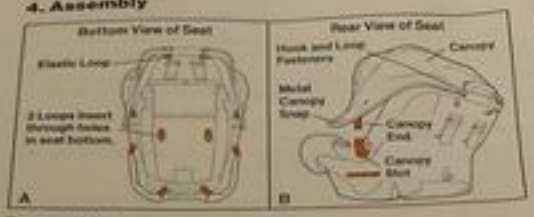
Your Fisher-Price *Infant Car Seat* can be installed in an aircraft seat the same way it is installed in an automobile. Since many airlines may have some restrictions regarding the use of child restraints, notify the airlines of your intent to bring a child restraint on board.

Installing the *Infant Car Seat* and Securing Child

Your Fisher-Price *Infant Car Seat* should be used only in forward facing aircraft seats. Follow the instructions of the flight attendant regarding placement of the child restraint.

See section 5 for specific instructions on installing the seat and securing your child.

4. Assembly



Remove shield:

Press release button and lift at the same time.

Attach pad: (Fig. A)

Line up shoulder belt and buckle opening in pad with shoulder belt slots and buckle tongue on the seat.

Insert two elastic loops through the two holes in the bottom of the seat. Hook the elastic loops onto the pegs on either side of the instruction sheet pocket.

Pull the eight elastic loops around the seat shell and hook them onto the pegs on back of the seat. (This is easier if you place the seat on its side and fasten the elastic loops of one side, and then the other.)

Attach canopy: (Fig. B)

Make sure the two hook and loop fasteners on the canopy are toward the back of the seat.

Insert plastic canopy ends (in position shown) into canopy slots on each side of the seat.

Join the hook and loop fasteners on the back of the canopy to the matching fasteners on the pad (near the top handle of the seat).

Pull canopy all the way forward and fasten the metal snaps on the sides.

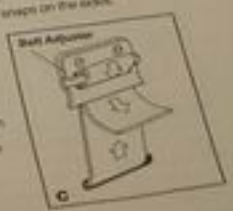
Do not use the canopy as a carrying handle.

Re-attach shield:

Re-attach shield with release button facing outward.

Attach shoulder belts: (Fig. C)

Insert shoulder belts through pad and seat slots and properly secure them to the belt adjusters on the back of the seat. Make sure the belts are not twisted. Take up belt slack by pulling on the free ends of the belts.




Fisher-Price
Infant Car Seat Instructions

NEVER LEAVE CHILD UNATTENDED
ALWAYS USE THE BELTS AND SHIELD
DO NOT USE THE HINGED SUPPORT
IN THE UPRIGHT ADJUSTMENT
POSITION ON THIS CHILD RESTRAINT
IN A MOTOR VEHICLE
FOR USE IN SHOPPING CART
Use only on carts having protrusion
for seating a child
Do not use on any cart where the infant
seat is unstable or does not rest securely
in manufacturer's cart
After securing seat in shopping cart
test to ensure seat does not separate
during use on the cart basket.

THIS LINE MUST B

Fisher-Price
Model 9149

ALWAYS USE THE BELTS AND SHIELD

DO NOT USE THIS HARNESS WITH CHILD
IN THIS CHILD RESTRAINT
POSITION ON THIS SHOPPING CART
OR IN A MOTOR VEHICLE

FOR USE IN SHOPPING CART

RNING! Failure to follow each of the following instructions can result in your child striking vehicle's interior during a sudden stop or crash.

ure this infant restraint with a vehicle belt as specified in the manufacturer's instructions ed in a pocket under the restraint.

this infant restraint in a rear-facing position when using it in the vehicle.

ly adjust the belts provided with this infant restraint around your child.

nfant restraint is designed for use by children who weigh 20 pounds or less and whose t is 26 inches or less.

straint is for use only in forward facing seats equipped with lap belts that will hold the restraint in place.

fant restraint system conforms to all applicable Federal Motor Vehicle Safety Standards.

straint is certified for use in motor vehicles and aircraft.

ONLY IN REAR FACING POSITION

Manufactured by Fisher-Price
East Aurora, New York 14052.

 Made in U.S.A. except Pad and Canopy Assembly in China.

Model 9149.

Fisher-Price

Date of manufacture:

69 6 09 92


ITTENDED.
ALWAYS USE THE BELTS AND SHIELD.
DO NOT USE THE HINGED SUPPORT IN THE UPRIGHT ADJUSTMENT POSITION ON THIS CHILD RESTRAINT IN A MOTOR VEHICLE.
FOR USE IN SHOPPING CART:
Use only on carts having provision for seating a child.
Do not use on any cart where the infant seat is unstable or does not rest securely as intended. Refer to instructions.
After securing seat in shopping cart, test to insure seat hook engagement by lifting up on the seat back.


ATTENDED.
ALWAYS USE THE BELTS AND SHIELD.
DO NOT USE THE HINGED SUPPORT IN THE UPRIGHT ADJUSTMENT POSITION ON THIS CHILD RESTRAINT IN A MOTOR VEHICLE.
FOR USE IN SHOPPING CART:
Use only on carts having provision for seating a child.
Do not use on any cart where the infant seat is unstable or does not rest securely as intended. Refer to instructions.
After securing seat in shopping cart test to insure seat hook engagement by lifting up on the seat back.


Fisher Price


WARNING


P
R
N
D
2
1


AIR BAG WARNING


OFF DELAY ON
OFF
LO

A/C


Jeep


Jeep


Jeep


4X4
Jeep


248657
Jeep


248657
SFG
Jeep


248657
Jeep


ONLY
CHEVROLE


ONLY

5. Infant Car Seat Use

Installing the Infant Car Seat in the Vehicle (Fig. O, E)

1. Be sure that the hinged support (see section 6) is rotated up against the seat bottom in its rocker position.
2. Place the *Infant Car Seat* on the vehicle seat so that the child will be facing the rear of the vehicle.
3. Locate the red line on the side of the *Infant Car Seat*.
4. Position the *Infant Car Seat* so that the red line is horizontal (level).

USE ONLY IN REAR-FACING POSITION.

5. Route the vehicle seat belt through the slots on the armrests of the *Infant Car Seat* as shown. The vehicle seat belt should be in front of the shield.
6. Buckle the vehicle seat belt and tighten it until the sides of the *Infant Car Seat* bend in inward slightly.
7. Test the installation by forcibly lifting the *Infant Car Seat* from side to side. The vehicle seat belt should not loosen.
8. Check to be sure that the red line is still horizontal and adjust if necessary.

The *Infant Car Seat* must be anchored with a vehicle lap seat belt that will remain securely tight at all times.

Securing Your Child in the Infant Car Seat (Fig. F)

NOTE: Your child must be dressed in clothing that will allow the shield buckle to pass between the child's legs. For maximum comfort, your child's buttocks should be as close to the *Infant Car Seat* back as possible.

To secure your child in the Infant Car Seat:

1. Grasp the shield from the front with your thumb pointing down and lift while pressing the button. Place the shield on the *Infant Car Seat* back. (Fig. F)
2. Place your child in the *Infant Car Seat*. Carefully bring the belts onto the child's shoulders. With the release button facing away from the child, lock the shield in position. (You should hear a click.)
3. For a snug and comfortable fit, push the shield toward your child and firmly pull the free end of each shoulder belt through the belt adjusters on the back of the seat so that you can fit only one finger between the child's shoulders and each shoulder belt.

NOTE: *In case of an accident, loose shoulder belts could reduce the effectiveness of this car seat. If you can insert more than one finger between the child's shoulders and the shoulder belts, the shoulder belts need to be tightened.*

Always be sure that the shoulder belts are passing directly over the child's shoulders.

To remove your child:

1. Unfasten the shoulder belts on the back of the seat at the belt adjusters.
2. Press the shield release button and lift the shield over the child's head.

To lengthen the shoulder belts: Feed some of the free length of each belt up through the belt adjusters on the back of the seat. (See Fig. G, Section 4.) Pull the extra length down through the seat back slots and into the seat.

When traveling with the *Infant Car Seat* not occupied, lock the shield in position. It is recommended that the child be secured with the shield and shoulder belts any time the child is in the *Infant Car Seat*, in or out of the vehicle.

Vehicle Seat Belt Types

Continuous Loop Belts: (Fig. G, H, I)

Continuous loop lap-shoulder vehicle seat belts allow the belt to slide freely through the tongue (Fig. G). After it is buckled, the lap belt portion will loosen. This use of a locking clip should prevent this from occurring (Fig. H). A locking clip is located in the plastic pocket, under the *Infant Car Seat* (where you found this instruction booklet).

To secure the locking clip, first tighten the lap seat belt by pulling on the loop portion. Then, while holding the two belts together, install the locking clip around both of them ½" from the seat belt buckle as shown (Fig. I). This will prevent the belt from sliding through the tongue.

Manually Adjustable Belts:

For manually adjustable vehicle seat belts that are not automatically tightened by a retractor, always test your *Infant Car Seat* installation by forcibly lifting it from the side. Make sure that the vehicle lap belt holds the *Infant Car Seat* securely in place. If the belt slips, turn the adjustable end of the belt upside down before buckling it. This procedure defeats the adjustment mechanism and prevents the belt from loosening. Again test to make sure that it is secure.

If the vehicle lap seat belt still loosens, use another seating position in the vehicle. If no position exists with a vehicle lap seat belt that will remain tight, contact an auto dealer to have one installed.

Remember, your *Infant Car Seat* must always be anchored with a vehicle lap seat belt that will remain securely tight at all times.

Canopy Adjustment

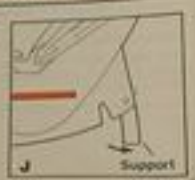
The canopy may be adjusted into any of three positions. Move the front of the canopy forward or backward to the desired position.

DO NOT USE THE CANOPY AS A CARRYING HANDLE.

6. Use As A Portable Infant Seat

When not being used in a vehicle, the *Infant Car Seat* can be used as a portable seat. Use the hinged support on the bottom of the seat to adjust the seat into either of two positions: **Upright** or **Rocker**.

Upright: Pull the support down to its vertical position. This raises the *Infant Car Seat* into a more upright position and keeps it from rocking. Rotate support until it locks into position. (Fig. J)



Rocker: Pull support down to release and rotate it up against the seat bottom. This allows the *Infant Car Seat* to rock on the base. (Fig. K)

- Always use the shoulder belts/shield when the child is in the *Infant Car Seat*.
- Never leave child unattended.
- Refer to Section 5 for instructions on how to secure your child in the *Infant Car Seat*.

7. Infant Car Seat Use In A Shopping Cart (Fig. L, M, N)

CAUTION: Use extra care when using the *Infant Car Seat* in a shopping cart. Irregular surfaces, weather, traffic, etc., present potential hazards.

Attach the *Infant Car Seat* to the cart in the most stable orientation: Rear-Facing or Forward-Facing.

- Always use the shoulder belts/shield when the child is in the *Infant Car Seat*.
- Never leave child unattended.
- Refer to Section 5 for instructions on securing your child in the *Infant Car Seat*.
- The *Infant Car Seat* is designed to fit on most shopping carts. It will not fit on all shopping carts. If the *Infant Car Seat* does not rest securely on a cart as intended, with the safety hook engaged, it should not be used on that cart.
- Use only on carts which can be used to seat a child.

1. Before placing the *Infant Car Seat* on a shopping cart, pull the support down to its vertical position, making sure that the support locks. (See Section 6.)
2. The notches in the *Infant Car Seat* rocker base are designed to fit over the top edge of the shopping cart cross wire, located in the seating area of the shopping cart.
3. Place the *Infant Car Seat* so that it is centered on the cart and so that the hook beneath the *Infant Car Seat* engages the cross wire of the shopping cart, as shown. (Fig. N)
4. Make sure the hook is properly engaged by lifting up on the seat back. You should not be able to remove the *Infant Car Seat* without lifting the handle of the hook.

8. Care Instructions

The *Infant Car Seat* pad is machine washable. The canopy and seat shell may be wiped clean using mild cleaning agents and water.

To remove the pad for washing:

1. Remove the shoulder belts from the belt adjusters on the back of the seat. Unbuckle and remove the shield.
2. Unsnap the canopy from the sides of the seat and separate the hook and loop fasteners. Push canopy to upright position.
3. Turn the seat face down and remove the ten elastic loops from the pegs, noting their position for re-assembly.
4. Machine wash the pad in cold water, gentle cycle, and tumble dry on low heat. Do not use bleach.

If you have any problems with this product, please call Fisher-Price Consumer Affairs, toll free at 1-800-432-4035 (1-800-432-5437) between 8AM and 5PM Eastern time, Monday through Friday, or write to: Fisher-Price, Attn: Consumer Affairs, 636 Girard Avenue, East Aurora, NY 14052.

Printed in U.S.A.
9149 6 627043