



400 Seventh Street, S.W.  
Washington, D.C. 20590

U.S. Department  
of Transportation

**National Highway  
Traffic Safety  
Administration**

Dear Crash Data Researchers/Users:

Thank you for choosing crash data from the National Highway Traffic Safety Administration (NHTSA) for your research or other use. The information contained in this motor vehicle crash report is collected, maintained and distributed in accordance with Public Law 89-564. In accordance with this Public Law, NHTSA is required not to release any case information until completion of quality control procedures. These procedures include a review of the case material to extract all names, licenses and registration numbers, non-coded interview material, non-research related researcher comments in the margins, non-factual data, and the production number portion of the vehicle identification number (VIN).

If you requested NHTSA to query its database files in order to identify a specific crash, then that query was made using non-personal descriptors you provided for use in our search. This motor vehicle crash may have been identified from a data search and matches the general, non-personal descriptors you provided, but we cannot confirm that this is the specific crash report you requested.

If you have any questions with regard to the above procedures, please contact the Field Operations Branch, Crash Investigation Division, National Center for Statistics and Analysis at 202-366-4820. Again, please be advised that we cannot confirm that this is the case that you have specifically requested nor can we certify the information to be correct.

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AUTO SAFETY HOTLINE  
(800) 424-9393  
Wash. D.C. Area 368-0123



### CASE SUMMARY

PSU 45 CASE NO. 053B TYPE OF ACCIDENT LG TRUCK / CAR RIGHT ANGLE

#### A. DESCRIPTION OF THE ACCIDENT SEQUENCE AND ACCIDENT PECULIARITIES

(Provide a summary of the accident sequence as well as any particular event of the accident that is noteworthy. Injury mechanism and vehicle crashworthiness is the focus, not driver culpability. Do not include any personal identifiers.)

SEE  
ATTACHED

#### B. VEHICLE PROFILE(S)

Vehicle No.	Class of Vehicle	Year/Make/Model	Most Severe Damage Based on Vehicle Inspection		Component Failure
			Damage Plane	Severity Description	

**DO NOT SANITIZE THIS FORM**

**C. PERSON PROFILE(S)**

Vehicle No.	Person Role	Seat Position	Restraint Use	Most Severe Injury (TO BE COMPLETED BY ZONE CENTER)			
				Body Region	Injury Type	AIS	Injury Source

**Body Region**

Abdomen  
 Ankle—foot  
 Arm (upper)  
 Back-thoracolumbar spine  
 Brain  
 Chest  
 Ears  
 Eye  
 Elbow  
 Face  
 Forearm  
 Head—skull  
 Heart  
 Kidneys  
 Knee  
 Leg (lower)  
 Liver  
 Lower limbs(s) (whole or unknown part)  
 Mouth  
 Neck—cervical spine  
 Nose

Pelvic—hip  
 Pulmonary—lungs  
 Shoulder  
 Spleen  
 Thigh  
 Thyroid, other endocrine gland  
 Upper limb(s) (whole or unknown part)  
 Vertebrae  
 Whole body  
 Wrist—hand

**Injury Type**

Abrasion  
 Amputation  
 Avulsion  
 Burn  
 Concussion  
 Contusion  
 Crush  
 Detachment, separation  
 Dislocation

Fracture  
 Fracture and dislocation  
 Laceration  
 Other  
 Perforation, puncture  
 Rupture  
 Sprain  
 Strain  
 Total severance, transection  
 Unknown

**Abbreviated Injury Scale**

- (1) Minor injury
- (2) Moderate injury
- (3) Serious injury
- (4) Severe injury
- (5) Critical injury
- (6) Maximum (untreatable)
- (7) Injured, unknown severity

**DO NOT SANITIZE THIS FORM**

PSU45  
CASE 053B

1996 Case Summary Form

TYPE OF ACCIDENT: LARGE TRUCK/CAR RIGHT-ANGLE

A. DESCRIPTION OF THE ACCIDENT SEQUENCE AND ACCIDENT PECULIARITIES

Vehicle #1 (a tractor-trailer with a flat bed trailer) was traveling east on a fourlane roadway with wide inside and outside shoulders. There is a center wall separating the roadway. The roadway is just beyond a major bridge and the wall ends at the end of the non-commercial roadway that is at the end of the access roadway from the bridge. Vehicle #1 was traveling in the outside travel lane. The conditions were dry and daylight. At the end of the separating wall, Vehicle #1 made a U-turn in a driveway access area between the wall and the beginning of a wide grass median strip. The access area serves a residential driveway on the south side of the roadway. Going west the road slopes upward. Vehicle #1 completed half of the U-turn and was traveling across both lanes on the westbound side.

Vehicle #2 was traveling northwest in the inside travel lane of the fourlane roadway with wide shoulders. Upon the approach, Vehicle #2 had a wide center grass median separating the fourlane roadway; the area is commercial. There is a wide shoulder only on the north side of it's travel lane. The approach to the point of impact curves to the left and is downward slope. Vehicle #2 skidded a short distance and struck Vehicle #1's flat bed trailer immediately in front of the rear tandem wheels on the trailer. The vehicle went under the trailer striking the trailer with its windshield and top primarily on the driver's side of the vehicle. Vehicle #1 pulled Vehicle #2 through part of the U-turn. Vehicle #1 came to rest (with the tractor on the shoulder) facing west with it's trailer facing northwest blocking the outside travel lane. Vehicle #2 came to rest facing west under the trailer in the outside travel lane.

01

PSU45

1996 Case Summary Form

CASE 053B

TYPE OF ACCIDENT: LARGE TRUCK/CAR RIGHT-ANGLE

B. VEHICLE PROFILE(S)

V e h. No	Class of Vehicle	Year/Make/ Model	Most Severe Damage Based on Vehicle Inspection		
			Damage Plane	Severity Descr.	Component Failure
1	Tractor-trailer (w/ flat bed trailer)	1994 Freightliner Long Conventional	Right	Unknown	Unknown
2	Intermediate	1990 Chrysler New Yorker	Front	Severe	None

01

PSU45  
CASE 053B  
TYPE OF ACCIDENT: LARGE TRUCK/CAR RIGHT-ANGLE

1996 Case Summary Form

C. PERSON PROFILE(S)

Most Severe Injury  
(TO BE COMPLETED BY ZONE CENTER)

V e h. No	Person Role	Seat Position	Restraint Use	Body Region	Injury Type	A	
						I S	Injury Source
2	Driver	Fr Left	Lap/Shou. Belt -- Non-Deploy. Air Bag	<i>head</i>	<i>blunt trauma</i>	7	<i>"B" pillar</i>
2	Pass	Fr Right	Lap/Shou. Belt		<i>no injury</i>		
2	Pass.	Bk Righth	Lap/Shou. Belt with Child Safety Seat		<i>no injury</i>		

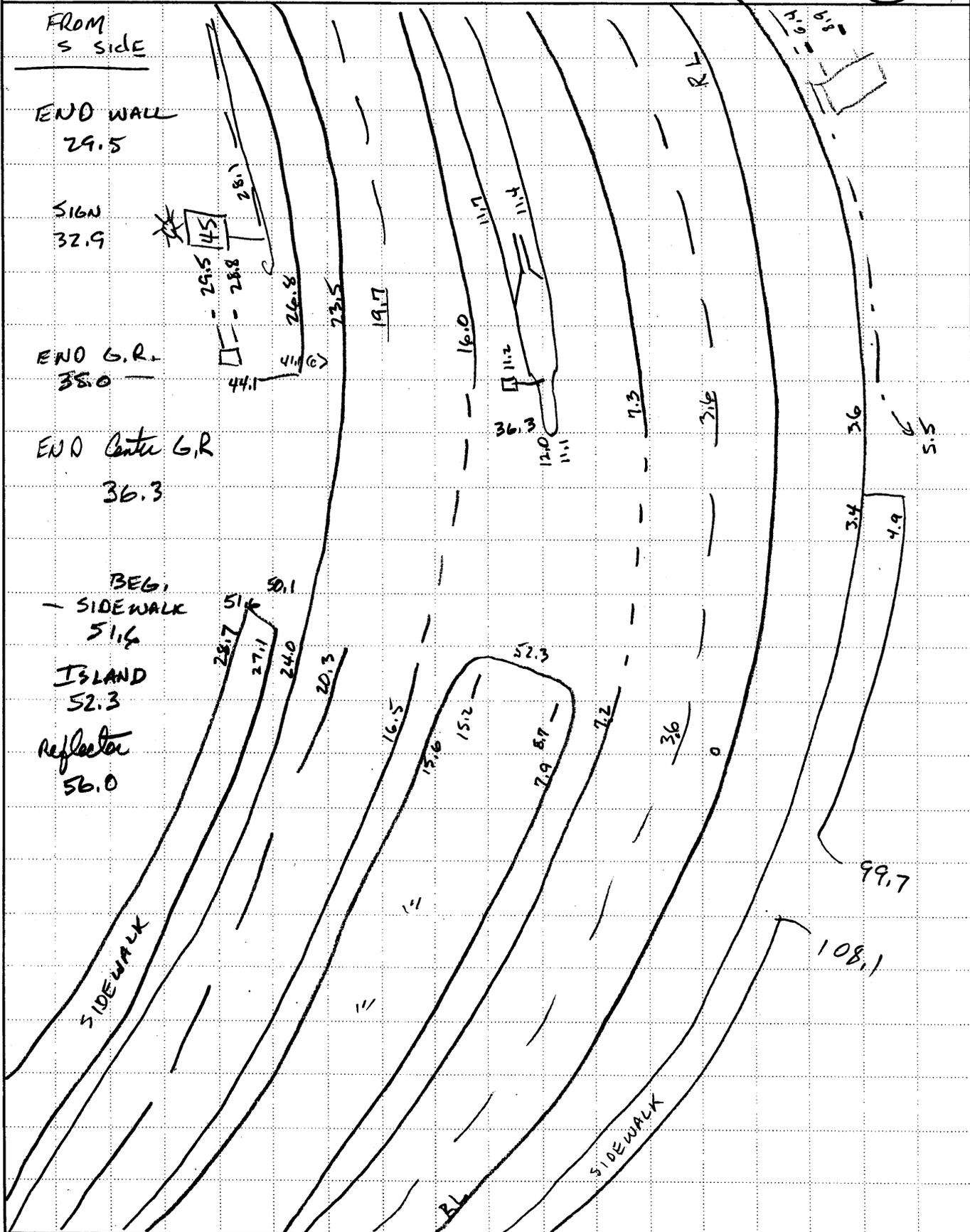


# ACCIDENT COLLISION DIAGRAM

PSU No. 45

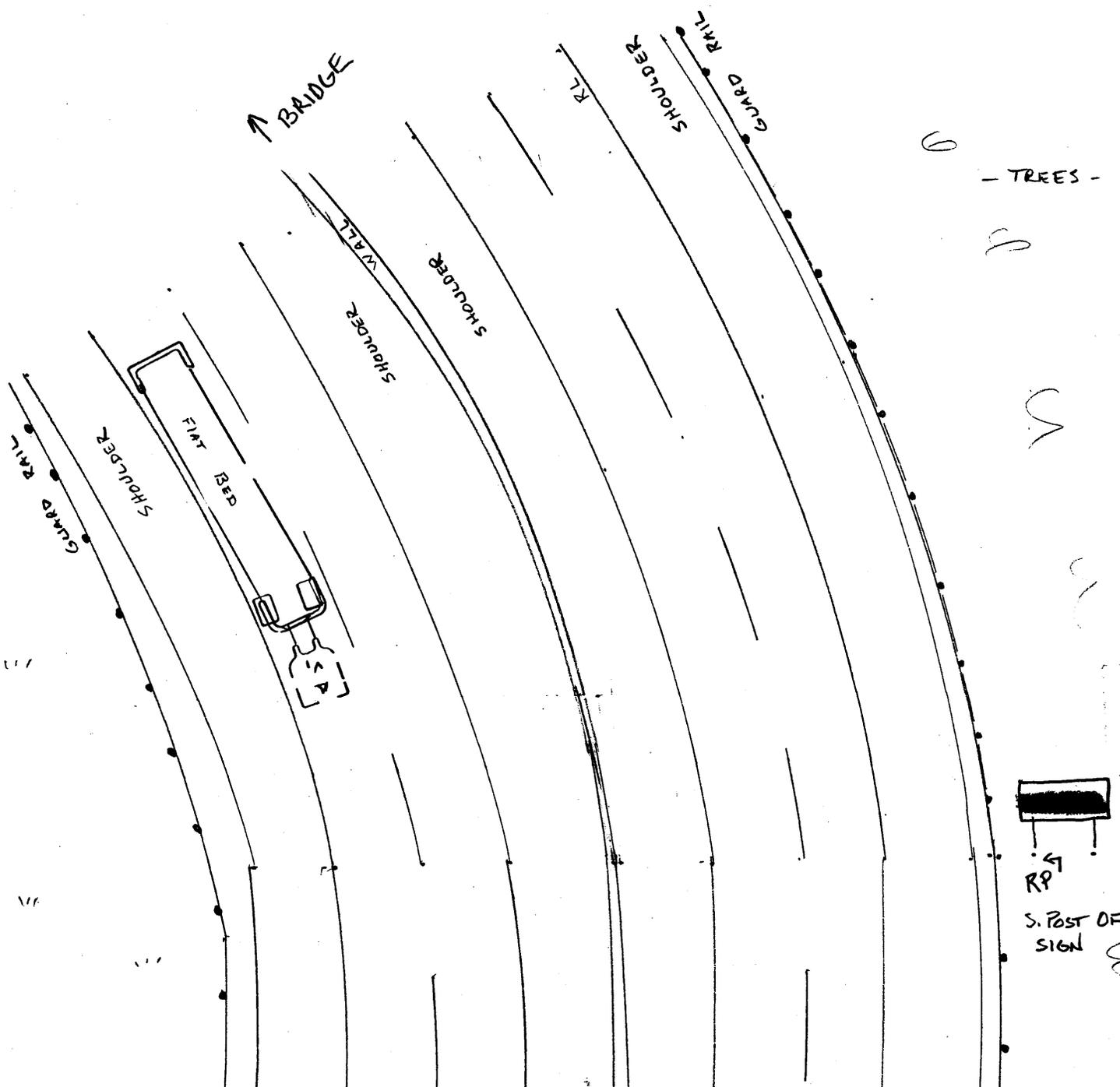
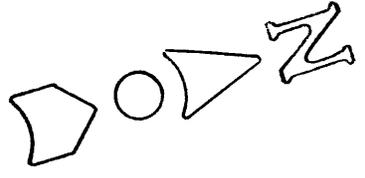
Case Number - Stratum 053 B

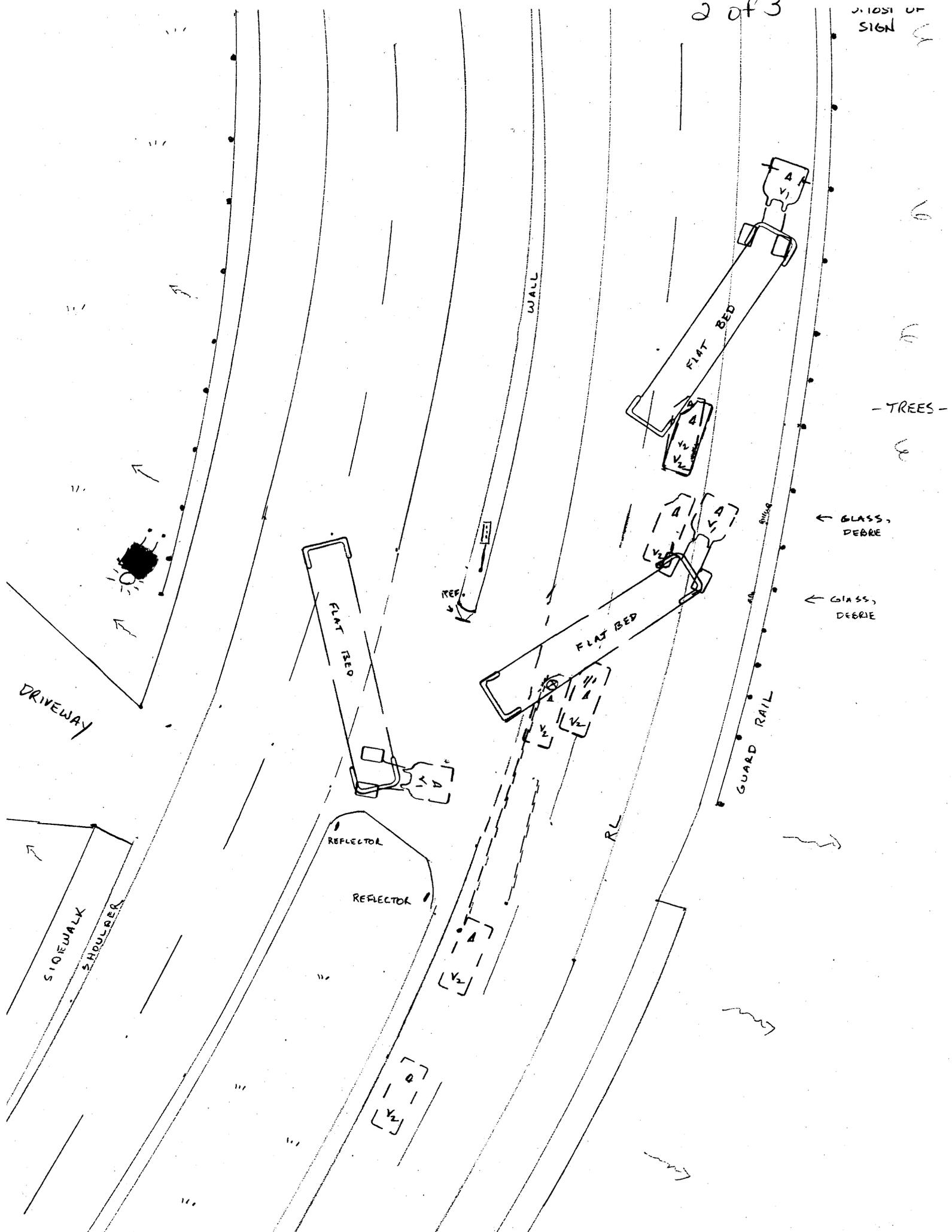
Indicate North 

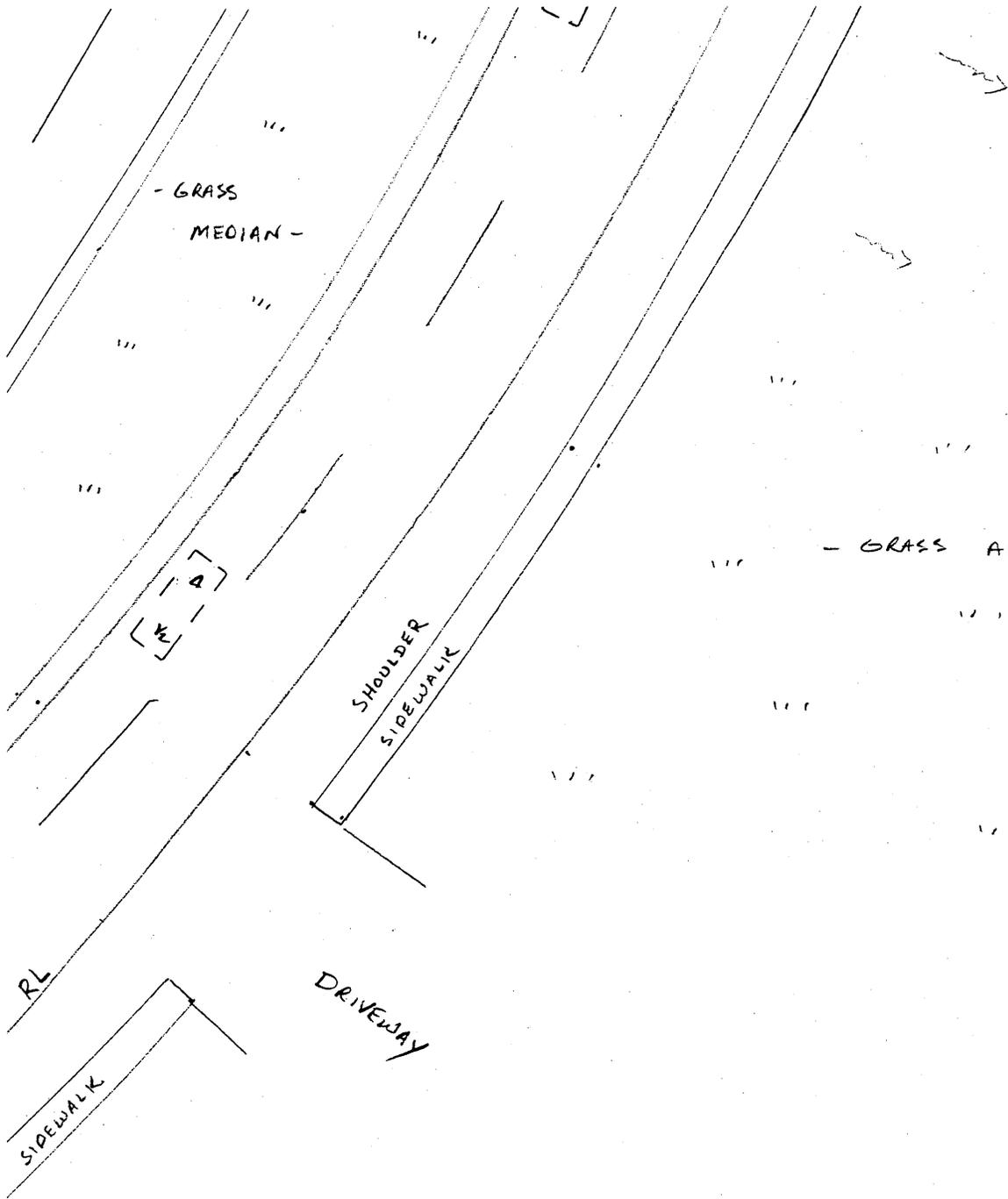


PSU : 45

CASE-STRAATUM  
NUMBER : 053B

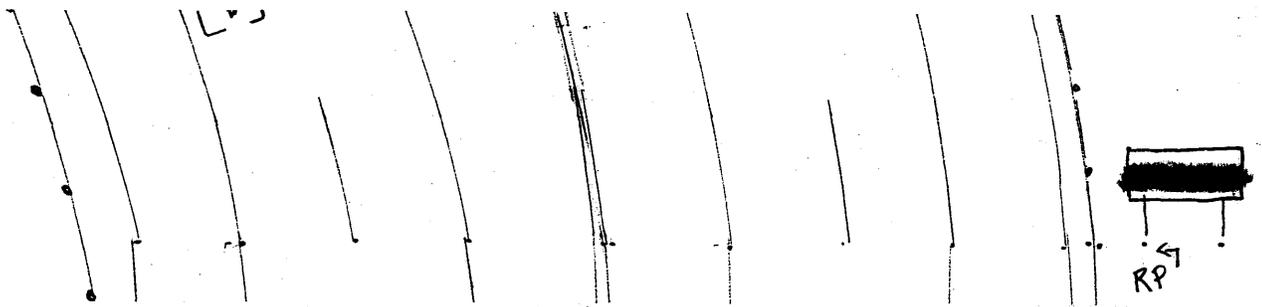






POSTED SPEED LIMIT  
45 MPH

SCALE : 1 CM = 2.5 METERS



# ACCIDENT COLLISION MEASUREMENT TABLE

Primary Sampling Unit Number 45

Case Number—Stratum 053B

ACCIDENT COLLISION DIAGRAM

Document the physical plant:

- all road/roadway delineation (e.g., curbs/edge lines, lane markings, median markings, pavement markings, parked vehicles, poles, signs, etc.)
- all traffic controls (e.g., signs/signals, etc.)
- north arrow placed on diagram
- roadway surface type and condition of applicable roadways
- grade measurements for all applicable roadways and at location of rollover initiation
- roadway curvature (include measurement of precrash superelevation for each vehicle if applicable)

Document vehicle dynamics including:

- reference point and reference line relative to physical features present at the scene
- scaled documentation of all accident induced physical evidence
- scaled documentation of all roadside objects contacted
- scaled representations of the vehicle(s) at pre-impact, impact, and final rest based upon either:
  - a) physical evidence, or
  - b) reconstructed accident dynamics

CRASH DATA

	VEH. #1	VEH. #2	VEH. #3
Heading Angle	_____	_____	_____
Surface Type	<u>ASPHALT</u>		
Surface Condition	<u>DRY</u>		
Coefficient of Friction	<u>.75</u>		
Grade (v/h) Measurement (between impact and final rest)	<u>+2.2° +2.2°</u>		
Grade (v/h) Measurement (at location of rollover initiation)	<u>NA</u>		
Grade (v/h) Measurement (at pre-crash location)	<u>-2.2°</u>	<u>-1.5°</u>	_____

Reference Point: <sup>(S. Post)</sup> 170 EAST - [REDACTED]  
ROAD - EXIT 1/4 MILE - SIGN

Reference line: N. (Painted)  
Lane Line

Item	Distance and Direction from Reference Point	Distance and Direction from Reference Line
<u>Reference Point</u>	<u>0</u>	<u>6.4 N</u> ✓
<u>LF FR - V1</u>	<u>11.5 E</u>	<u>1.3 N</u> ✓
<u>RF FR -</u>	<u>12.2 "</u>	<u>3.5 N</u> ✓
<u>Tire Scuff - V2</u>	<u>27.9 - 28.4 "</u>	<u>1.0 - 1.2 S</u> ✓
<u>Glass - Debris - V2</u>	<u>30.7 - 31.3 "</u>	<u>3.8 - 4.2 N</u> ✓
<u>Scuff - V2</u>	<u>32.2 - 32.6 "</u>	<u>1.2 - 1.3 S</u> ✓
<u>Glass - Debris - V2</u>	<u>35.0 - 35.3 "</u>	<u>3.8 - 4.1 N</u> ✓
<u>Scapes</u>	<u>40.4 - 40.6 "</u>	<u>4.2 - 4.3 S</u> ✓
<u>"</u>	<u>40.1 - 40.8 "</u>	<u>4.2 - 4.5 "</u> ✓
<u>"</u>	<u>40.1 - 40.3 "</u>	<u>4.4 - 4.5 "</u> ✓
<u>END LF SKID - V2</u>	<u>43.1 "</u>	<u>6.2 "</u> ✓
<u>P.O.I. (scuff in center)</u>	<u>43.5 "</u>	<u>5.9 "</u> ✓
<u>END RF SKID - V2</u>	<u>47.8 "</u>	<u>5.0 "</u> ✓

BEL RF SKID - " 55.2 " 4.5 " ✓  
" LF " - " 58.1 " 6.8 " ✓





# ACCIDENT FORM

1. Primary Sampling Unit Number 45  
2. Case Number - Stratum 053B

## IDENTIFICATION

3. Number of General Vehicle Forms Submitted 02  
4. Date of Accident (Month, Day, Year)            /            / 9 6  
5. Time of Accident 0700  
Code reported military time of accident.  
NOTE: Midnight = 2400  
Unknown = 9999

## SPECIAL STUDIES - INDICATORS

Check (✓) each special study (SS15-SS18 below) that has been completed; code 1 for the checked special studies and 0 for the special studies not checked.

6.  SS15 Administrative Use 0  
7.  SS16 Pedestrian Crash Data Study 0  
*(Data for this special study available in a separate file.)*  
8.  SS17 Impact Fires 0  
9.  SS18 Unsafe Driver Actions 0  
10.  SS19 Run Off Road 0

## NUMBER OF EVENTS

11. Number of Recorded Events in This Accident 01  
Code the number of events which occurred in this accident.

## ACCIDENT EVENTS

For each event that occurred in the accident, code the lowest numbered vehicle in the left columns and the other involved vehicle or object in the right columns.

Accident Event Sequence Number	Vehicle Number	Class Of Vehicle	General Area of Damage	Vehicle Number or Object Contacted	Class Of Vehicle	General Area of Damage
12. <u>0 1</u>	13. <u>01</u>	14. <u>68</u>	15. <u>R</u>	16. <u>02</u>	<sup>WB=</sup> <u>03</u>	18. <u>F</u>
19. <u>0 2</u>	20. _____	21. _____	22. _____	23. _____	24. _____	25. _____
26. <u>0 3</u>	27. _____	28. _____	29. _____	30. _____	31. _____	32. _____
33. <u>0 4</u>	34. _____	35. _____	36. _____	37. _____	38. _____	39. _____
40. <u>0 5</u>	41. _____	42. _____	43. _____	44. _____	45. _____	46. _____

IF GREATER THAN FIVE EVENTS, CONTINUE CODING ON THE ACCIDENT EVENT SUPPLEMENT

### CODES FOR CLASS OF VEHICLE

- |  |   |
|--|---|
| (00) Not a motor vehicle<br>(01) Subcompact/mini (wheelbase < 254 cm)<br>(02) Compact (wheelbase ≥ 254 but < 265 cm)<br>(03) Intermediate (wheelbase ≥ 265 but < 278 cm)<br>(04) Full size (wheelbase ≥ 278 but < 291 cm)<br>(05) Largest (wheelbase ≥ 291 cm)<br>(09) Unknown passenger car size<br>(14) Compact utility vehicle<br>(15) Large utility vehicle (≤ 4,536 kgs GVWR)<br>(16) Utility station wagon (≤ 4,536 kgs GVWR)<br>(19) Unknown utility type<br>(20) Minivan (≤ 4,536 kgs GVWR)<br>(21) Large van (≤ 4,536 kgs GVWR)<br>(24) Van Based school bus (≤ 4,536 kgs GVWR)<br>(28) Other van type (≤ 4,536 kgs GVWR)<br>(29) Unknown van type (≤ 4,536 kgs GVWR)<br>(30) Compact pickup truck (≤ 4,536 kgs GVWR) | (31) Large pickup truck (≤ 4,536 kgs GVWR)<br>(38) Other pickup truck (≤ 4,536 kgs GVWR)<br>(39) Unknown pickup truck type (≤ 4,536 kgs GVWR)<br>(45) Other light truck (≤ 4,536 kgs GVWR)<br>(48) Unknown light truck type (≤ 4,536 kgs GVWR)<br>(49) Unknown light vehicle type<br>(50) School bus (excludes van based)(> 4,536 kgs GVWR)<br>(58) Other bus (> 4,536 kgs GVWR)<br>(59) Unknown bus type<br>(60) Truck (> 4,536 kgs GVWR)<br>(67) Tractor without trailer<br>(68) Tractor-trailer(s)<br>(78) Unknown medium/heavy truck type<br>(79) Unknown light/medium/heavy truck type<br>(80) Motored cycle<br>(90) Other vehicle<br>(99) Unknown |
|--|---|

### CODES FOR GENERAL AREA OF DAMAGE (GAD)

- |   |  |  |   |
|---|--|--|---|
| CDS APPLICABLE<br>AND OTHER<br>VEHICLES | (O) Not a motor vehicle<br>(N) Noncollision<br>(F) Front                   | (R) Right side<br>(L) Left side<br>(B) Back  | (T) Top<br>(U) Undercarriage<br>(9) Unknown   |
| TDC<br>APPLICABLE<br>VEHICLES           | (O) Not a motor vehicle<br>(N) Noncollision<br>(F) Front<br>(R) Right side | (L) Left side<br>(B) Back of unit with cargo area<br>(rear of trailer or straight truck)<br>(D) Back (rear of tractor) | (C) Rear of cab<br>(V) Front of cargo area<br>(T) Top<br>(U) Undercarriage<br>(9) Unknown |

### CODES FOR VEHICLE NUMBER OR OBJECT CONTACTED

- |   |  |
|---|--|
| (01-30) — Vehicle Number<br><br>Noncollision<br>(31) Overturn — rollover (excludes end-over-end)<br>(32) Rollover — end-over-end<br>(33) Fire or explosion<br>(34) Jackknife<br>(35) Other intraunit damage (specify): _____<br><br>(36) Noncollision injury<br>(38) Other noncollision (specify): _____<br><br>(39) Noncollision — details unknown<br><br>Collision With Fixed Object<br>(41) Tree (≤ 10 cm in diameter)<br>(42) Tree (> 10 cm in diameter)<br>(43) Shrubbery or bush<br>(44) Embankment<br>(45) Breakaway pole or post (any diameter)<br><br>Nonbreakaway Pole or Post<br>(50) Pole or post (≤ 10 cm in diameter)<br>(51) Pole or post (> 10 cm but ≤ 30 cm in diameter)<br>(52) Pole or post (> 30 cm in diameter)<br>(53) Pole or post (diameter unknown)<br><br>(54) Concrete traffic barrier<br>(55) Impact attenuator<br>(56) Other traffic barrier (includes guardrail)<br>(specify): _____ | (57) Fence<br>(58) Wall<br>(59) Building<br>(60) Ditch or culvert<br>(61) Ground<br>(62) Fire hydrant<br>(63) Curb<br>(64) Bridge<br>(68) Other fixed object (specify): _____<br><br>(69) Unknown fixed object<br><br>Collision with Nonfixed Object<br>(70) Passenger car, light truck, van, or other vehicle<br>not in-transport<br>(71) Medium/heavy truck or bus not in-transport<br>(72) Pedestrian<br>(73) Cyclist or cycle<br>(74) Other nonmotorist or conveyance<br><br>(75) Vehicle occupant<br>(76) Animal<br>(77) Train<br>(78) Trailer, disconnected in transport<br>(79) Object fell from vehicle in-transport<br>(88) Other nonfixed object (specify): _____<br><br>(89) Unknown nonfixed object<br>(98) Other event (specify): _____<br>(99) Unknown event or object |
|---|--|



# GENERAL VEHICLE FORM

- 1. Primary Sampling Unit Number 45
- 2. Case Number - Stratum 053 B
- 3. Vehicle Number 01

- 12. Speed Limit 072  
(000) No statutory limit  
Code posted or statutory speed limit in kmph  
(999) Unknown  
45 mph X 1.6093 = 072 kmph

## VEHICLE IDENTIFICATION

- 4. Vehicle Model Year 94  
Code the last two digits of the model year  
(99) Unknown
- 5. Vehicle Make (specify): 82  
FREIGHTLINER  
Applicable codes are found in your  
NASS Data Collection, Coding and  
Editing Manual.  
(99) Unknown
- 6. Vehicle Model (specify): 881  
LONG CONVENTIONAL  
Applicable codes are found in your  
NASS Data Collection, Coding and  
Editing Manual.  
(999) Unknown  
FLAT BED TRAILER

- 13. Police Reported Alcohol Presence For Driver 0  
(0) No alcohol present  
(1) Yes alcohol present  
(7) Not reported  
(8) No driver present  
(9) Unknown

- 14. Alcohol Test Result For Driver 97  
Code actual value (decimal implied  
before first digit—0.xx)  
(95) Test refused  
(96) None given  
(97) AC test performed, results unknown  
(98) No driver present  
(99) Unknown  
Source: PAR

- 7. Body Type 68  
Note: Applicable codes may be found on  
the back of this page.

- 15. Police Reported Other Drug Presence For Driver 0  
(0) No other drug(s) present  
(1) Yes other drug(s) present  
(7) Not reported  
(8) No driver present  
(9) Unknown

- 8. Vehicle Identification Number UCYDXYBIRH  
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17  
Left justify; Slash zeros and letter Z (0 and Z)  
No VIN—Code all zeros  
Unknown—Code all nines

- 16. Other Drug Specimen Test Result For Driver 0  
(0) No specimen test given  
(1) Drug(s) not found in specimen  
(2) Drug(s) found in specimen, (specify):  
  
(3) Specimen test given, results unknown or not  
obtained  
(8) No driver present  
(9) Unknown if specimen test given

- 9. Vehicle Special Use (This Trip) 0  
(0) No special use  
(1) Taxi  
(2) Vehicle used as school bus  
(3) Vehicle used as other bus  
(4) Military  
(5) Police  
(6) Ambulance  
(7) Fire truck or car  
(8) Other (specify): \_\_\_\_\_  
(9) Unknown

- 17. Driver's Zip Code [REDACTED]  
(00001) Driver not a resident of U.S. or territories  
Code actual 5-digit zip code  
(99998) No driver present  
(99999) Unknown

## OFFICIAL RECORDS

- 10. Police Reported Vehicle Disposition 0  
(0) Not towed due to vehicle damage  
(1) Towed due to vehicle damage  
(9) Unknown
- 11. Police Reported Travel Speed 999  
Code to the nearest kmph (NOTE: 000 means  
less than 0.5 kmph)  
(160) 159.5 kmph and above  
(999) Unknown

- 18. Driver's Race/Ethnic Origin 9  
(1) White (non-Hispanic)  
(2) Black (non-Hispanic)  
(3) White (Hispanic)  
(4) Black (Hispanic)  
(5) American Indian, Eskimo or Aleut  
(6) Asian or Pacific Islander  
(7) Other (specify): PAR SAYS WHITE  
(8) No driver present  
(9) Unknown

\_\_\_ mph X 1.6093 = \_\_\_ kmph

# CODES FOR BODY TYPE

## CDS APPLICABLE VEHICLES

### Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify): \_\_\_\_\_

- (09) Unknown automobile type

### Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine - more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

### Utility Vehicles ( $\leq 4,536$ kgs GVWR)

- (14) Compact utility (Jeep CJ-2 - CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

### Van Based Light Trucks ( $\leq 4,536$ kgs GVWR)

- (20) Minivan (Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van ( $\leq 4,536$  kgs GVWR)
- (23) Van based motorhome ( $\leq 4,536$  kgs GVWR)
- (24) Van based school bus ( $\leq 4,536$  kgs GVWR)
- (25) Van based other bus ( $\leq 4,536$  kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify): \_\_\_\_\_

- (29) Unknown van type

### Light Conventional Trucks (Pickup style cab, $\leq 4,536$ kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)
- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

### Other Light Trucks ( $\leq 4,536$ kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

## OTHER VEHICLES

### Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify): \_\_\_\_\_
- (59) Unknown bus type

### Medium/Heavy Trucks ( $> 4,536$ kgs GVWR)

- (60) Step van ( $> 4,536$  kgs GVWR)
- (61) Single unit straight truck ( $4,536$  kgs  $<$  GVWR  $\leq 8,845$  kgs)
- (62) Single unit straight truck ( $8,845$  kgs  $<$  GVWR  $\leq 11,793$  kgs)
- (63) Single unit straight truck ( $> 11,793$  kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

### Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify): \_\_\_\_\_
- (89) Unknown motored cycle type

### Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

**PRECRASH ENVIRONMENTAL DATA**

19. Relation To Interchange Or Junction 4  
 (0) Non-interchange area and non-junction  
 (1) Interchange area related

*Non-Interchange junctions*

(2) Intersection related  
 (3) Driveway, alley access related  
 (4) Other junction (specify)

→ MEDIAN CROSSOVER FROM DRIVEWAY

(5) Unknown type of junction  
 (9) Unknown

NASS CODING CHANGE  
 1st Review: 1F  
 2nd Review: \_\_\_\_\_

20. Trafficway Flow 2  
 (0) Not physically divided (two way traffic)  
 (1) Divided trafficway-median strip without positive barrier  
 (2) Divided trafficway-median strip with positive barrier  
 (3) One way traffic  
 (9) Unknown

21. Number Of Travel Lanes 2  
 (1) One  
 (2) Two  
 (3) Three  
 (4) Four  
 (5) Five  
 (6) Six  
 (7) Seven or more  
 (9) Unknown

22. Roadway Alignment 3  
 (1) Straight  
 (2) Curve right  
 (3) Curve left  
 (9) Unknown

23. Roadway Profile 4  
 (1) Level  
 (2) Uphill grade (> 2%)  
 (3) Hill crest  
 (4) Downhill grade (> 2%)  
 (5) Sag  
 (9) Unknown

24. Roadway Surface Type 2  
 (1) Concrete  
 (2) Bituminous (asphalt)  
 (3) Brick or block  
 (4) Slag, gravel, or stone  
 (5) Dirt  
 (8) Other (specify): \_\_\_\_\_  
 (9) Unknown

25. Roadway Surface Condition 1  
 (1) Dry  
 (2) Wet  
 (3) Snow or slush  
 (4) Ice  
 (5) Sand, dirt, or oil  
 (8) Other (specify): \_\_\_\_\_  
 (9) Unknown

26. Light Conditions 1  
 (1) Daylight  
 (2) Dark  
 (3) Dark, but lighted  
 (4) Dawn  
 (5) Dusk  
 (9) Unknown

27. Atmospheric Conditions 0  
 (0) No adverse atmospheric-related driving conditions  
 (1) Rain  
 (2) Sleet/hail  
 (3) Snow  
 (4) Fog  
 (5) Rain and fog  
 (6) Sleet and fog  
 (7) Other (e.g., smog, smoke, blowing sand or dust, etc.) (specify): \_\_\_\_\_  
 (9) Unknown

28. Traffic Control Device 0  
 (0) No traffic control(s)  
 (1) Traffic control signal (not RR crossing)  
*Regulatory*  
 (2) Stop sign  
 (3) Yield sign  
 (4) School zone sign  
 (5) Other regulatory sign (specify): \_\_\_\_\_  
 (6) Warning sign (not RR crossing)  
 (7) Unknown sign  
 (8) Miscellaneous/other controls including RR controls (specify): \_\_\_\_\_  
 (9) Unknown

29. Traffic Control Device Functioning 0  
 (0) No traffic control device  
 (1) Traffic control device not functioning (specify): \_\_\_\_\_  
 (2) Traffic control device functioning properly  
 (9) Unknown

*Ramp is 1/4 mile - he missed his exit and was turning around to go through*

**PRECRASH DRIVER RELATED DATA**

30. Driver's Distraction/Inattention To Driving (Prior To Recognition Of Critical Event) 99
- (00) No driver present
  - (01) Attentive or not distracted
  - (02) Looked but did not see
- Distractions*
- (03) By other occupant(s), (specify): \_\_\_\_\_
  - (04) By moving object in vehicle (specify): \_\_\_\_\_
  - (05) While talking or listening to cellular phone (specify location and type of phone): \_\_\_\_\_
  - (06) While dialing cellular phone (specify location and type of phone): \_\_\_\_\_
  - (07) While adjusting climate controls
  - (08) While adjusting radio, cassette, CD (specify): \_\_\_\_\_
  - (09) While using other device/controls integral to vehicle (specify): \_\_\_\_\_
  - (10) While using or reaching for device/object brought into vehicle (specify): \_\_\_\_\_
  - (11) Sleepy or fell asleep
  - (12) Distracted by outside person, object, or event (specify): \_\_\_\_\_
  - (13) Eating or drinking
  - (14) Smoking related
  - (97) Distracted/inattentive, details unknown
  - (98) Other, distraction (specify): \_\_\_\_\_
  - (99) Unknown

31. Pre-Event Movement (Prior to Recognition of Critical Event) 12
- (00) No driver present
  - (01) Going straight
  - (02) Decelerating in traffic lane
  - (03) Accelerating in traffic lane
  - (04) Starting in traffic lane
  - (05) Stopped in traffic lane
  - (06) Passing or overtaking another vehicle
  - (07) Disabled or parked in travel lane
  - (08) Leaving a parking position
  - (09) Entering a parking position
  - (10) Turning right
  - (11) Turning left
  - (12) Making a U-turn
  - (13) Backing up (other than for parking position)
  - (14) Negotiating a curve
  - (15) Changing lanes
  - (16) Merging
  - (17) Successful avoidance maneuver to a previous critical event
  - (97) Other (specify): \_\_\_\_\_
  - (99) Unknown

32. Critical Precrash Event 15
- THIS VEHICLE LOSS OF CONTROL DUE TO:**
- (01) Blow out or flat tire
  - (02) Stalled engine
  - (03) Disabling vehicle failure (e.g., wheel fell off) (specify): \_\_\_\_\_
  - (04) Non-disabling vehicle problem (e.g., hood flew up) (specify): \_\_\_\_\_
  - (05) Poor road conditions (puddle, pot hole, ice, etc.) (specify): \_\_\_\_\_
  - (06) Traveling too fast for conditions
  - (08) Other cause of control loss (specify): \_\_\_\_\_
  - (09) Unknown cause of control loss

**THIS VEHICLE TRAVELLING**

- (10) Over the lane line on left side of travel lane
- (11) Over the lane line on right side of travel lane
- (12) Off the edge of the road on the left side
- (13) Off the edge of the road on the right side
- (14) End departure
- (15) Turning left at intersection
- (16) Turning right at intersection
- (17) Crossing over (passing through) intersection
- (18) This vehicle decelerating
- (19) Unknown travel direction

**OTHER MOTOR VEHICLE IN LANE**

- (50) Other vehicle stopped
- (51) Traveling in same direction with lower steady speed
- (52) Traveling in same direction while decelerating
- (53) Traveling in same direction with higher speed
- (54) Traveling in opposite direction
- (55) In crossover
- (56) Backing
- (59) Unknown travel direction of other motor vehicle in lane

**OTHER MOTOR VEHICLE ENCROACHING INTO LANE**

- (60) From adjacent lane (same direction)—over left lane line
- (61) From adjacent lane (same direction)—over right lane line
- (62) From opposite direction—over left lane line
- (63) From opposite direction—over right lane line
- (64) From parking lane
- (65) From crossing street, turning into same direction
- (66) From crossing street, across path
- (67) From crossing street, turning into opposite direction
- (68) From crossing street, intended path not known
- (70) From driveway, turning into same direction
- (71) From driveway, across path
- (72) From driveway, turning into opposite direction
- (73) From driveway, intended path not known
- (74) From entrance to limited access highway
- (78) Encroachment by other vehicle—details unknown

**PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST**

- (80) Pedestrian in roadway
- (81) Pedestrian approaching roadway
- (82) Pedestrian—unknown location
- (83) Pedalcyclist or other nonmotorist in roadway (specify): \_\_\_\_\_
- (84) Pedalcyclist or other nonmotorist approaching roadway, (specify): \_\_\_\_\_
- (85) Pedalcyclist or other nonmotorist—unknown location (specify): \_\_\_\_\_

**OBJECT OR ANIMAL**

- (87) Animal in roadway
- (88) Animal approaching roadway
- (89) Animal—unknown location
- (90) Object in roadway
- (91) Object approaching roadway
- (92) Object—unknown location
- (98) Other critical precrash event (specify): Doing a U turn in a crossover
- (99) Unknown

33. Attempted Avoidance Maneuver 01  
99
- (00) No driver present
  - (01) No avoidance maneuver
  - (02) Braking (no lockup)
  - (03) Braking (lockup)
  - (04) Braking (lockup unknown)
  - (05) Releasing brakes
  - (06) Steering left
  - (07) Steering right
  - (08) Braking and steering left
  - (09) Braking and steering right
  - (10) Accelerating
  - (11) Accelerating and steering left
  - (12) Accelerating and steering right
  - (98) Other action (specify): \_\_\_\_\_
  - (99) Unknown

NASS CODING CHANGE  
1st Review: 1F  
2nd Review: \_\_\_\_\_

34. Pre-Impact Stability 1
- (0) No driver present
  - (1) Tracking
  - (2) Skidding longitudinally—rotation less than 30 degrees
  - (3) Skidding laterally—clockwise rotation
  - (4) Skidding laterally—counterclockwise rotation
  - (7) Other vehicle loss-of-control (specify): \_\_\_\_\_
  - (9) Precrash stability unknown

35. Pre-Impact Location 2
- (0) No driver present
  - (1) Stayed in original travel lane
  - (2) Stayed on roadway but left original travel lane
  - (3) Stayed on roadway, not known if left original travel lane
  - (4) Departed roadway
  - (5) Remained off roadway
  - (6) Returned to roadway
  - (7) Entered roadway
  - (9) Unknown

36. Accident Type 68  
(Note: Applicable codes on back of this page)
- (00) No impact  
Code the number of the diagram that best describes the accident circumstance
  - (98) Other accident type (specify): \_\_\_\_\_
  - (99) Unknown

**STOP HERE IF GV07 DOES NOT EQUAL 01 - 49**

Category	Configuration	ACCIDENT TYPES (Includes Intent)									
I. Single Driver	A. Right Roadside Departure	01 DRIVE OFF ROAD	02 CONTROL/ TRACTION LOSS	03 AVOID COLLISION WITH VEH., PED., ANIM.	04 SPECIFICS OTHER	05 SPECIFICS UNKNOWN					
	B. Left Roadside Departure	06 DRIVE OFF ROAD	07 CONTROL/ TRACTION LOSS	08 AVOID COLLISION WITH VEH., PED., ANIM.	09 SPECIFICS OTHER	10 SPECIFICS UNKNOWN					
	C. Forward Impact	11 PARKED VEH.	12 STA. OBJECT	13 PEDESTRIAN/ ANIMAL	14 END DEPARTURE	15 SPECIFICS OTHER	16 SPECIFICS UNKNOWN				
II Same Trafficway Same Direction	D. Rear-End	20 STOPPED 21, 22, 23	22 SLOWER 26, 28, 27	24 DECEL. 29, 30, 31	26 AVOID COLLISION WITH VEH.	28 AVOID COLLISION WITH VEH.	30 AVOID COLLISION WITH VEH.	(EACH • 32) SPECIFICS OTHER	(EACH • 33) SPECIFICS UNKNOWN		
	E. Forward Impact	34 CONTROL/ TRACTION LOSS	36 CONTROL/ TRACTION LOSS	38 AVOID COLLISION WITH VEH.	40 AVOID COLLISION WITH OBJECT	35	37	39	41	(EACH • 42) SPECIFICS OTHER	(EACH • 43) SPECIFICS UNKNOWN
	F. Sideswipe Angle	44	45	46	47	(EACH • 48) SPECIFICS OTHER	(EACH • 49) SPECIFICS UNKNOWN				
III Same Trafficway Opposite Direction	G. Head-On	50 LATERAL MOVE	51 LATERAL MOVE	(EACH • 52) SPECIFICS OTHER	(EACH • 53) SPECIFICS UNKNOWN						
	H. Forward Impact	54 CONTROL/ TRACTION LOSS	56 CONTROL/ TRACTION LOSS	58 AVOID COLLISION WITH VEH.	60 AVOID COLLISION WITH OBJECT	55	57	59	61	(EACH • 62) SPECIFICS OTHER	(EACH • 63) SPECIFICS UNKNOWN
	I. Sideswipe Angle	64 LATERAL MOVE	65 LATERAL MOVE	(EACH • 66) SPECIFICS OTHER	(EACH • 67) SPECIFICS UNKNOWN						
IV Change Trafficway Vehicle Turning	J. Turn Across Path	68 INITIAL OPPOSITE DIRECTIONS	69 INITIAL OPPOSITE DIRECTIONS	71 INITIAL SAME DIRECTIONS	73 INITIAL SAME DIRECTIONS	70	72	(EACH • 74) SPECIFICS OTHER	(EACH • 75) SPECIFICS UNKNOWN		
	K. Turn Into Path	76 TURN INTO SAME DIRECTION	77 TURN INTO SAME DIRECTION	78 TURN INTO SAME DIRECTION	79 TURN INTO SAME DIRECTION	80 TURN INTO OPPOSITE DIRECTIONS	81 TURN INTO OPPOSITE DIRECTIONS	82 TURN INTO OPPOSITE DIRECTIONS	83 TURN INTO OPPOSITE DIRECTIONS	(EACH • 84) SPECIFICS OTHER	(EACH • 85) SPECIFICS UNKNOWN
V Intersecting Paths (Vehicle Damage)	L. Straight Paths	86	87	88	89	(EACH • 90) SPECIFICS OTHER	(EACH • 91) SPECIFICS UNKNOWN				
VI Miscellaneous	M. Backing Etc.	92 BACKING VEH.	93 OTHER VEH. OR OBJECT	98 Other Accident Type 99 Unknown Accident Type 00 No Impact							

**OCCUPANT RELATED**

37. Driver Presence in Vehicle \_\_\_\_\_  
 (0) Driver not present  
 (1) Driver present  
 (9) Unknown
38. Number of Occupants This Vehicle \_\_\_\_\_  
 (00-96) Code actual number of occupants for this vehicle  
 (97) 97 or more  
 (99) Unknown
39. Number of Occupant Forms Submitted \_\_\_\_\_

**AIR BAG RELATED**

40. Is this an AOPS Vehicle? \_\_\_\_\_  
 (0) No (includes unknown)  
 (1) Yes - researcher determined  
 (2) VIN determined air bag system  
 (3) VIN determined automatic (passive) belts  
 (4) VIN determined air bag and automatic (passive) belts
41. Air Bag(s) Deployment, First Seat Frontal \_\_\_\_\_  
 (0) Not equipped or not available  
 (1) No air bags deployed  
*Single Air Bag Vehicle*  
 (2) Driver air bag deployed  
 (3) Driver air bag, unknown if deployed  
*Multiple Air Bag Vehicle*  
 (4) Driver side only deployed  
 (5) Passenger side only deployed  
 (6) Driver and passenger side deployed  
 (7) Driver and passenger side unknown if deployed  
 (8) Air bag(s) deployed, details unknown  
 (9) Unknown
42. Air Bag(s) Deployment, Other Than First Seat Frontal \_\_\_\_\_  
 (0) Not equipped with an "other" air bag  
 (1) Deployed during accident (as a result of impact)  
 (2) Deployed inadvertently just prior to accident  
 (3) Deployed, details unknown  
 (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)  
 (5) Unknown if deployed  
 (7) Nondeployed  
 (9) Unknown

Specify type of "other" air bag present: \_\_\_\_\_

**VEHICLE WEIGHT ITEMS**

43. Vehicle Curb Weight \_\_\_\_\_ 0  
 \_\_\_\_\_ Code weight to nearest 10 kilograms.  
 (045) Less than 454 kilograms  
 (612) 6,124 kilograms or more  
 (999) Unknown  
 \_\_\_\_\_ lbs X .4536 = \_\_\_\_\_ kgs  
 Source: \_\_\_\_\_

44. Vehicle Cargo Weight \_\_\_\_\_, \_\_\_\_\_ 0  
 \_\_\_\_\_ Code weight to nearest 10 kilograms.  
 (000) Less than 5 kilograms  
 (454) 4,536 kilograms or more  
 (999) Unknown  
 \_\_\_\_\_ lbs X .4536 = \_\_\_\_\_ kgs  
 Source: \_\_\_\_\_

**ROLLOVER DATA**

45. Rollover \_\_\_\_\_  
 (00) No rollover (no overturning)  
*Rollover (primarily about the longitudinal axis)*  
 (01-16) Code the number of quarter turns  
 (17) Rollover; 17 or more quarter turns (specify): \_\_\_\_\_  
 (98) Rollover--end-over-end (i.e., primarily about the lateral axis)  
 (99) Rollover (overturn), details unknown
46. Rollover Initiation Type \_\_\_\_\_  
 (00) No rollover  
 (01) Trip-over  
 (02) Flip-over  
 (03) Turn-over  
 (04) Climb-over  
 (05) Fall-over  
 (06) Bounce-over  
 (07) Collision with another vehicle  
 (08) Other rollover initiation type specify): \_\_\_\_\_  
 (98) Rollover--end-over-end  
 (99) Unknown rollover initiation type
47. Location of Rollover Initiation \_\_\_\_\_  
 (0) No rollover  
 (1) On roadway  
 (2) On shoulder—paved  
 (3) On shoulder—unpaved  
 (4) On roadside or divided trafficway median  
 (8) Rollover--end-over-end  
 (9) Unknown
48. Rollover Initiation Object Contacted \_\_\_\_\_  
 (Note: Applicable codes on back of page)
49. Location on Vehicle Where Initial Principal Tripping Force Is Applied \_\_\_\_\_  
 (0) No rollover  
 (1) Wheels/tires  
 (2) Side plane  
 (3) End plane  
 (4) Undercarriage  
 (5) Other location on vehicle (specify): \_\_\_\_\_  
 (6) Non-contact rollover forces (specify): \_\_\_\_\_  
 (8) Rollover--end-over-end  
 (9) Unknown
50. Direction of Initial Roll \_\_\_\_\_  
 (0) No rollover  
 (1) Roll right - primarily about the longitudinal axis  
 (2) Roll left - primarily about the longitudinal axis  
 (8) Rollover--end-over-end  
 (9) Unknown roll direction

## CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

- (00) No rollover
- (01-30) — Vehicle Number

### Noncollision

- (31) Turn-over — fall-over
- (32) No rollover impact initiation (end-over-end)
- (34) Jackknife

### Collision With Fixed Object

- (41) Tree ( $\leq 10$  cm in diameter)
- (42) Tree ( $> 10$  cm in diameter)
- (43) Shrubbery or bush
- (44) Embankment

- (45) Breakaway pole or post (any diameter)

### Nonbreakaway Pole or Post

- (50) Pole or post ( $\leq 10$  cm in diameter)
- (51) Pole or post ( $> 10$  cm but  $\leq 30$  cm in diameter)
- (52) Pole or post ( $> 30$  cm in diameter)
- (53) Pole or post (diameter unknown)

- (54) Concrete traffic barrier
- (55) Impact attenuator
- (56) Other traffic barrier (includes guardrail)  
(specify): \_\_\_\_\_

- (57) Fence
- (58) Wall
- (59) Building
- (60) Ditch or culvert
- (61) Ground
- (62) Fire hydrant
- (63) Curb
- (64) Bridge
- (68) Other fixed object (specify): \_\_\_\_\_

- (69) Unknown fixed object \_\_\_\_\_

### Collision with Nonfixed Object

- (70) Passenger car, light truck, van, or other vehicle not in-transport
- (71) Medium/heavy truck or bus not in-transport
- (76) Animal
- (77) Train
- (78) Trailer, disconnected in transport
- (79) Object fell from vehicle in-transport
- (88) Other nonfixed object (specify): \_\_\_\_\_

- (89) Unknown nonfixed object \_\_\_\_\_

- (98) Other event (specify): \_\_\_\_\_

- (99) Unknown event or object \_\_\_\_\_

OVERRIDE/UNDERRIDE (THIS VEHICLE)	ACCIDENT RECONSTRUCTION PROGRAMS HIGHEST DELTA V
<p>51. Front Override/Underride (this Vehicle) _____</p> <p>52. Rear Override/Underride (this Vehicle) _____</p> <p style="margin-left: 20px;">(0) No override/underride, or not an end-to-end impact between two CDS applicable vehicles, and no medium/heavy truck or bus underride</p> <p style="margin-left: 20px;"><i>Override (see specific CDC)</i> <i>[Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49)]</i></p> <p style="margin-left: 20px;">(1) 1st CDC</p> <p style="margin-left: 20px;">(2) 2nd CDC</p> <p style="margin-left: 20px;">(3) Other not automated CDC (specify): _____</p> <p style="margin-left: 20px;">_____</p> <p style="margin-left: 20px;"><i>Underride (see specific CDC)</i> <i>[Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49)]</i></p> <p style="margin-left: 20px;">(4) 1st CDC</p> <p style="margin-left: 20px;">(5) 2nd CDC</p> <p style="margin-left: 20px;">(6) Other not automated CDC (specify): _____</p> <p style="margin-left: 20px;">_____</p> <p style="margin-left: 20px;">(7) Medium/heavy truck or bus override (of any configuration)</p> <p style="margin-left: 20px;">(9) Unknown</p>	<p>58. Basis for Total (Resultant) Delta V _____</p> <p style="margin-left: 20px;">(highest)</p> <p style="margin-left: 20px;">(00) No vehicle inspection</p> <p style="margin-left: 20px;"><i>Delta V Calculated</i></p> <p style="margin-left: 20px;">(01) Reconstruction program-damage only routine</p> <p style="margin-left: 20px;">(02) Reconstruction program-damage and trajectory routine</p> <p style="margin-left: 20px;">(03) Missing vehicle algorithm</p> <p style="margin-left: 20px;"><i>Delta V Not Calculated</i></p> <p style="margin-left: 20px;">(04) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.</p> <p style="margin-left: 20px;"><i>All vehicles within scope (CDC applicable) of reconstruction program but one of the collision conditions is beyond the scope of the reconstruction program or other acceptable reconstruction technique, regardless of adequacy of damage data.</i></p> <p style="margin-left: 20px;">(05) Rollover</p> <p style="margin-left: 20px;">(06) Other non-horizontal forces</p> <p style="margin-left: 20px;">(07) Sideswipe type damage</p> <p style="margin-left: 20px;">(08) Severe override</p> <p style="margin-left: 20px;">(09) Yielding object</p> <p style="margin-left: 20px;">(10) Overlapping damage</p> <p style="margin-left: 20px;">(11) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available, (specify):</p> <p style="margin-left: 20px;">_____</p> <p style="margin-left: 20px;">_____</p> <p style="margin-left: 20px;">(98) Other, (specify): _____</p> <p style="margin-left: 20px;">_____</p>
HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V	
<p>Values: (000)-(359) Code actual value</p> <p style="margin-left: 20px;">(996) Non-horizontal impact</p> <p style="margin-left: 20px;">(997) Noncollision</p> <p style="margin-left: 20px;">(998) Impact with object</p> <p style="margin-left: 20px;">(999) Unknown</p> <p>53. Heading Angle For This Vehicle _____</p> <p>54. Heading Angle For Other Vehicle _____</p>	
RECONSTRUCTION DATA	
<p>55. Towed Trailing Unit _____</p> <p style="margin-left: 20px;">(0) No towed unit</p> <p style="margin-left: 20px;">(1) Yes—towed trailing unit</p> <p style="margin-left: 20px;">(9) Unknown</p> <p>56. Documentation of Trajectory Data for This Vehicle _____</p> <p style="margin-left: 20px;">(0) No</p> <p style="margin-left: 20px;">(1) Yes</p> <p>57. Post Collision Condition of Tree or Pole (For Highest Delta V) _____</p> <p style="margin-left: 20px;">(0) Not collision (for highest delta V) with tree or pole</p> <p style="margin-left: 20px;">(1) Not damaged</p> <p style="margin-left: 20px;">(2) Cracked/sheared</p> <p style="margin-left: 20px;">(3) Tilted &lt;45 degrees</p> <p style="margin-left: 20px;">(4) Tilted ≥45 degrees</p> <p style="margin-left: 20px;">(5) Uprooted tree</p> <p style="margin-left: 20px;">(6) Separated pole from base</p> <p style="margin-left: 20px;">(7) Pole replaced</p> <p style="margin-left: 20px;">(8) Other (specify): _____</p> <p style="margin-left: 20px;">_____</p> <p style="margin-left: 20px;">(9) Unknown</p>	

**COMPUTER GENERATED CRASH SEVERITY**

59. Total Delta V \_\_\_\_\_ Highest

\_\_\_\_\_ Nearest kmph (highest)  
 \_\_\_\_\_ Nearest kmph (secondary)

(NOTE: 000 means less than 0.5 kmph)  
 (160) 159.5 kmph and above  
 (999) Unknown

60. Longitudinal Component of Delta V \_\_\_\_\_ Highest  
 + \_\_\_\_\_  
 - \_\_\_\_\_

\_\_\_\_\_ Nearest kmph (highest)  
 \_\_\_\_\_ Nearest kmph (secondary)

(NOTE: \_\_000 means greater than -0.5 kmph and less than +0.5 kmph)  
 (±160) ±159.5 kmph and above  
 (\_999) Unknown

61. Lateral Component of Delta V \_\_\_\_\_ Highest  
 + \_\_\_\_\_  
 - \_\_\_\_\_

\_\_\_\_\_ Nearest kmph (highest)  
 \_\_\_\_\_ Nearest kmph (secondary)

(NOTE: \_\_000 means greater than -0.5 kmph and less than +0.5 kmph)  
 (±160) ±159.5 kmph and above  
 (\_999) Unknown

62. Energy Absorption \_\_\_\_\_ Highest  
 \_\_\_\_\_ 0 0

\_\_\_\_\_ Nearest 100 joules (highest)  
 \_\_\_\_\_ Nearest 100 joules (secondary)

(NOTE: 0000 means less than 50 joules)  
 (9997) 999,650 joules or more  
 (9999) Unknown

63. Impact Speed \_\_\_\_\_ Highest

\_\_\_\_\_ Nearest kmph (highest)  
 \_\_\_\_\_ Nearest kmph (secondary)

(NOTE: 000 means less than 0.5 kmph)  
 (160) 159.5 kmph and above  
 (998) Trajectory algorithm not run  
 (999) Unknown

**DELTA V CONFIDENCE LEVEL**

64. Confidence In Reconstruction Program Results (For Highest Delta V) \_\_\_\_\_

- (0) No reconstruction
- (1) Collision fits model — results appear reasonable
- (2) Collision fits model — results appear high
- (3) Collision fits model — results appear low
- (4) Borderline reconstruction — results appear reasonable

**OTHER SPEED ESTIMATE**

65. Barrier Equivalent Speed \_\_\_\_\_ Highest

\_\_\_\_\_ Nearest kmph (highest)  
 \_\_\_\_\_ Nearest kmph (secondary)

(NOTE: 000 means less than 0.5 kmph)  
 (160) 159.5 kmph and above  
 (999) Unknown

ESTIMATED DELTA V	INSPECTION TYPE
<p>66. Estimated Highest Delta V (Researcher Determined) _____</p> <p>(0) Reconstruction Delta V coded</p> <p><i>Estimated Delta V</i></p> <p>(1) Less than 10 kmph</p> <p>(2) ≥ 10 kmph but &lt; 25 kmph</p> <p>(3) ≥ 25 kmph but &lt; 40 kmph</p> <p>(4) ≥ 40 kmph but &lt; 55 kmph</p> <p>(5) ≥ 55 kmph</p> <p><i>Other estimates of damage severity</i></p> <p>(6) Minor</p> <p>(7) Moderate</p> <p>(8) Severe</p> <p>(9) Unknown</p>	<p>67. Type of Vehicle Inspection _____</p> <p>(0) No inspection</p> <p>(1) Vehicle fully repaired-no damage evident</p> <p>(2) Partial inspection (specify): _____</p> <p>(3) Complete inspection _____</p> <hr/> <p style="text-align: center;"><b>DELTA V EVENT NUMBER</b></p> <p>68. Delta V Event Number _____</p> <p>_____ Code the accident event sequence number that resulted in the Delta V that has been coded above for this vehicle</p> <p>(99) Unknown</p>

**\*\*\* IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV67 = 0), \*\*\***

**DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS**

**\*\*\* IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE \*\*\***

**THE EXTERIOR VEHICLE, INTERIOR VEHICLE,  
OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.**

PSU NUMBER	<u>45</u>
CASE NUMBER	<u>0538</u>
VEHICLE NUMBER	<u>01</u>

# EXTERIOR VEHICLE FORM

*THE FOLLOWING DATA IS NOT INCLUDED IN THIS CASE:*

- ENTIRE FORM
- PAGE NUMBER (S) \_\_\_\_\_

PSU NUMBER	<u>45</u>
CASE NUMBER	<u>053B</u>
VEHICLE NUMBER	<u>01</u>

# INTERIOR VEHICLE FORM

*THE FOLLOWING DATA IS NOT INCLUDED IN THIS CASE:*

- ENTIRE FORM
- PAGE NUMBER (S) \_\_\_\_\_

PSU NUMBER	<u>45</u>
CASE NUMBER	<u>053B</u>
VEHICLE NUMBER	<u>01</u>
OCCUPANT NUMBER	<u>01</u>

# OCCUPANT ASSESSMENT FORM

*THE FOLLOWING DATA IS NOT INCLUDED IN THIS CASE:*

ENTIRE FORM

PAGE NUMBER (S) \_\_\_\_\_

PSU NUMBER	<u>45</u>
CASE NUMBER	<u>053B</u>
VEHICLE NUMBER	<u>01</u>
OCCUPANT NUMBER	<u>01</u>

# OCCUPANT INJURY FORM

*THE FOLLOWING DATA IS NOT INCLUDED IN THIS CASE:*

- ENTIRE FORM
- PAGE NUMBER (S) \_\_\_\_\_



# GENERAL VEHICLE FORM

1. Primary Sampling Unit Number 45  
 2. Case Number - Stratum 053B  
 3. Vehicle Number 02

12. Speed Limit 072  
 (000) No statutory limit  
 Code posted or statutory speed limit in kmph  
 (999) Unknown  
45 mph X 1.6093 = 072 kmph

## VEHICLE IDENTIFICATION

4. Vehicle Model Year 90  
 Code the last two digits of the model year  
 (99) Unknown

13. Police Reported Alcohol Presence For Driver 0  
 (0) No alcohol present  
 (1) Yes alcohol present  
 (7) Not reported  
 (8) No driver present  
 (9) Unknown

5. Vehicle Make (specify): 06  
CHRYSLER  
 Applicable codes are found in your  
 NASS Data Collection, Coding and  
 Editing Manual.  
 (99) Unknown

14. Alcohol Test Result For Driver 97  
 Code actual value (decimal implied  
 before first digit—0.xx)  
 (95) Test refused  
 (96) None given  
 (97) AC test performed, results unknown  
 (98) No driver present  
 (99) Unknown

6. Vehicle Model (specify): 014  
NEW YORKER  
 Applicable codes are found in your  
 NASS Data Collection, Coding and  
 Editing Manual.  
 (999) Unknown

Source: PAR

7. Body Type 04  
 Note: Applicable codes may be found on  
 the back of this page.

15. Police Reported Other Drug Presence For Driver 0  
 (0) No other drug(s) present  
 (1) Yes other drug(s) present  
 (7) Not reported  
 (8) No driver present  
 (9) Unknown

8. Vehicle Identification Number 1C3XY66R6LD  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17  
 Left justify; Slash zeros and letter Z (0 and Z)  
 No VIN—Code all zeros  
 Unknown—Code all nines

16. Other Drug Specimen Test Result For Driver 3  
 (0) No specimen test given  
 (1) Drug(s) not found in specimen  
 (2) Drug(s) found in specimen, (specify):  
 (3) Specimen test given, results unknown or not  
 obtained  
 (8) No driver present  
 (9) Unknown if specimen test given

9. Vehicle Special Use (This Trip) 0  
 (0) No special use  
 (1) Taxi  
 (2) Vehicle used as school bus  
 (3) Vehicle used as other bus  
 (4) Military  
 (5) Police  
 (6) Ambulance  
 (7) Fire truck or car  
 (8) Other (specify):  
 (9) Unknown

17. Driver's Zip Code [REDACTED]  
 (00001) Driver not a resident of U.S. or territories  
 Code actual 5-digit zip code  
 (99998) No driver present  
 (99999) Unknown

## OFFICIAL RECORDS

10. Police Reported Vehicle Disposition 1  
 (0) Not towed due to vehicle damage  
 (1) Towed due to vehicle damage  
 (9) Unknown

18. Driver's Race/Ethnic Origin 1  
 (1) White (non-Hispanic)  
 (2) Black (non-Hispanic)  
 (3) White (Hispanic)  
 (4) Black (Hispanic)  
 (5) American Indian, Eskimo or Aleut  
 (6) Asian or Pacific Islander  
 (7) Other (specify):  
 (8) No driver present  
 (9) Unknown

11. Police Reported Travel Speed 999  
 Code to the nearest kmph (NOTE: 000 means  
 less than 0.5 kmph)  
 (160) 159.5 kmph and above  
 (999) Unknown  
 \_\_\_ mph X 1.6093 = \_\_\_ kmph

ATTY. FOR  
DRIVER'S  
BRO-IN-LAW

# CODES FOR BODY TYPE

## CDS APPLICABLE VEHICLES

### Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify): \_\_\_\_\_
- (09) Unknown automobile type

### Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine - more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

### Utility Vehicles ( $\leq 4,536$ kgs GVWR)

- (14) Compact utility (Jeep CJ-2 - CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

### Van Based Light Trucks ( $\leq 4,536$ kgs GVWR)

- (20) Minivan (Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van ( $\leq 4,536$  kgs GVWR)
- (23) Van based motorhome ( $\leq 4,536$  kgs GVWR)
- (24) Van based school bus ( $\leq 4,536$  kgs GVWR)
- (25) Van based other bus ( $\leq 4,536$  kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify): \_\_\_\_\_
- (29) Unknown van type

### Light Conventional Trucks (Pickup style cab, $\leq 4,536$ kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)
- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

### Other Light Trucks ( $\leq 4,536$ kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

## OTHER VEHICLES

### Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify): \_\_\_\_\_
- (59) Unknown bus type

### Medium/Heavy Trucks ( $> 4,536$ kgs GVWR)

- (60) Step van ( $> 4,536$  kgs GVWR)
- (61) Single unit straight truck ( $4,536$  kgs  $<$  GVWR  $\leq 8,845$  kgs)
- (62) Single unit straight truck ( $8,845$  kgs  $<$  GVWR  $\leq 11,793$  kgs)
- (63) Single unit straight truck ( $> 11,793$  kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy-truck type
- (79) Unknown truck type (light/medium/heavy)

### Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify): \_\_\_\_\_
- (89) Unknown motored cycle type

### Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

**PRECRASH ENVIRONMENTAL DATA**

19. Relation To Interchange Or Junction 4/5  
 (0) Non-interchange area and non-junction  
 (1) Interchange area related

*Non-Interchange junctions*

- (2) Intersection related  
 (3) Driveway, alley access related  
 (4) Other junction (specify)

- (5) Unknown type of junction  
 MEDIAN CROSSOVER FROM  
 (9) Unknown DRIVEWAY

NASS CODING CHANGE  
 1st Review: IF  
 2nd Review: \_\_\_\_\_

20. Trafficway Flow 1  
 (0) Not physically divided (two way traffic)  
 (1) Divided trafficway-median strip without positive barrier  
 (2) Divided trafficway-median strip with positive barrier  
 (3) One way traffic  
 (9) Unknown

*Gassy median*

21. Number Of Travel Lanes 23  
 (1) One  
 (2) Two  
 (3) Three  
 (4) Four  
 (5) Five  
 (6) Six  
 (7) Seven or more  
 (9) Unknown

22. Roadway Alignment 3  
 (1) Straight  
 (2) Curve right  
 (3) Curve left  
 (9) Unknown

23. Roadway Profile 4  
 (1) Level  
 (2) Uphill grade (>2%)  
 (3) Hill crest  
 (4) Downhill grade (>2%)  
 (5) Sag  
 (9) Unknown

24. Roadway Surface Type 2  
 (1) Concrete  
 (2) Bituminous (asphalt)  
 (3) Brick or block  
 (4) Slag, gravel, or stone  
 (5) Dirt  
 (8) Other (specify): \_\_\_\_\_  
 (9) Unknown

25. Roadway Surface Condition 1  
 (1) Dry  
 (2) Wet  
 (3) Snow or slush  
 (4) Ice  
 (5) Sand, dirt, or oil  
 (8) Other (specify): \_\_\_\_\_  
 (9) Unknown

26. Light Conditions 1  
 (1) Daylight  
 (2) Dark  
 (3) Dark, but lighted  
 (4) Dawn  
 (5) Dusk  
 (9) Unknown

27. Atmospheric Conditions 0  
 (0) No adverse atmospheric-related driving conditions  
 (1) Rain  
 (2) Sleet/hail  
 (3) Snow  
 (4) Fog  
 (5) Rain and fog  
 (6) Sleet and fog  
 (7) Other (e.g., smog, smoke, blowing sand or dust, etc.) (specify): \_\_\_\_\_  
 (9) Unknown

28. Traffic Control Device 0  
 (0) No traffic control(s)  
 (1) Traffic control signal (not RR crossing)
- Regulatory*
- (2) Stop sign  
 (3) Yield sign  
 (4) School zone sign  
 (5) Other regulatory sign (specify): \_\_\_\_\_
- (6) Warning sign (not RR crossing)  
 (7) Unknown sign  
 (8) Miscellaneous/other controls including RR controls (specify): \_\_\_\_\_  
 (9) Unknown

29. Traffic Control Device Functioning 0  
 (0) No traffic control device  
 (1) Traffic control device not functioning (specify): \_\_\_\_\_  
 (2) Traffic control device functioning properly  
 (9) Unknown

**PRECRASH DRIVER RELATED DATA**

30. Driver's Distraction/Inattention To Driving 9 9  
 (Prior To Recognition Of Critical Event)  
 (00) No driver present  
 (01) Attentive or not distracted  
 (02) Looked but did not see  
*Distractions*  
 (03) By other occupant(s), (specify): \_\_\_\_\_  
 (04) By moving object in vehicle (specify): \_\_\_\_\_  
 (05) While talking or listening to cellular phone (specify location and type of phone): \_\_\_\_\_  
 (06) While dialing cellular phone (specify location and type of phone): \_\_\_\_\_  
 (07) While adjusting climate controls  
 (08) While adjusting radio, cassette, CD (specify): \_\_\_\_\_  
 (09) While using other device/controls integral to vehicle (specify): \_\_\_\_\_  
 (10) While using or reaching for device/object brought into vehicle (specify): \_\_\_\_\_  
 (11) Sleepy or fell asleep  
 (12) Distracted by outside person, object, or event (specify): \_\_\_\_\_  
 (13) Eating or drinking  
 (14) Smoking related  
 (97) Distracted/inattentive, details unknown  
 (98) Other, distraction (specify): \_\_\_\_\_  
 (99) Unknown

31. Pre-Event Movement (Prior to Recognition of Critical Event) 1 4  
 (00) No driver present  
 (01) Going straight  
 (02) Decelerating in traffic lane  
 (03) Accelerating in traffic lane  
 (04) Starting in traffic lane  
 (05) Stopped in traffic lane  
 (06) Passing or overtaking another vehicle  
 (07) Disabled or parked in travel lane  
 (08) Leaving a parking position  
 (09) Entering a parking position  
 (10) Turning right  
 (11) Turning left  
 (12) Making a U-turn  
 (13) Backing up (other than for parking position)  
 (14) Negotiating a curve  
 (15) Changing lanes  
 (16) Merging  
 (17) Successful avoidance maneuver to a previous critical event *NASS CODING CHANGE*  
 (97) Other (specify): *1st Review: 65*  
 (99) Unknown *2nd Review: 65*

32. Critical Precrash Event  
**THIS VEHICLE LOSS OF CONTROL DUE TO:**  
 (01) Blow out or flat tire  
 (02) Stalled engine  
 (03) Disabling vehicle failure (e.g., wheel fell off) (specify): \_\_\_\_\_  
 (04) Non-disabling vehicle problem (e.g., hood flew up) (specify): \_\_\_\_\_  
 (05) Poor road conditions (puddle, pot hole, ice, etc.) (specify): \_\_\_\_\_  
 (06) Traveling too fast for conditions  
 (08) Other cause of control loss (specify): \_\_\_\_\_  
 (09) Unknown cause of control loss

**THIS VEHICLE TRAVELLING**

- (10) Over the lane line on left side of travel lane  
 (11) Over the lane line on right side of travel lane  
 (12) Off the edge of the road on the left side  
 (13) Off the edge of the road on the right side  
 (14) End departure  
 (15) Turning left at intersection  
 (16) Turning right at intersection  
 (17) Crossing over (passing through) intersection  
 (18) This vehicle decelerating  
 (19) Unknown travel direction

**OTHER MOTOR VEHICLE IN LANE**

- (50) Other vehicle stopped  
 (51) Traveling in same direction with lower steady speed  
 (52) Traveling in same direction while decelerating  
 (53) Traveling in same direction with higher speed  
 (54) Traveling in opposite direction  
 (55) In crossover  
 (56) Backing  
 (59) Unknown travel direction of other motor vehicle in lane

**OTHER MOTOR VEHICLE ENCROACHING INTO LANE**

- (60) From adjacent lane (same direction)—over left lane line  
 (61) From adjacent lane (same direction)—over right lane line  
 (62) From opposite direction—over left lane line  
 (63) From opposite direction—over right lane line  
 (64) From parking lane  
 (65) From crossing street, turning into same direction  
 (66) From crossing street, across path  
 (67) From crossing street, turning into opposite direction  
 (68) From crossing street, intended path not known  
 (70) From driveway, turning into same direction  
 (71) From driveway, across path  
 (72) From driveway, turning into opposite direction  
 (73) From driveway, intended path not known  
 (74) From entrance to limited access highway  
 (78) Encroachment by other vehicle—details unknown

**PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST**

- (80) Pedestrian in roadway  
 (81) Pedestrian approaching roadway  
 (82) Pedestrian—unknown location  
 (83) Pedalcyclist or other nonmotorist in roadway (specify): \_\_\_\_\_  
 (84) Pedalcyclist or other nonmotorist approaching roadway, (specify): \_\_\_\_\_  
 (85) Pedalcyclist or other nonmotorist—unknown location (specify): \_\_\_\_\_

**OBJECT OR ANIMAL**

- (87) Animal in roadway  
 (88) Animal approaching roadway  
 (89) Animal—unknown location  
 (90) Object in roadway  
 (91) Object approaching roadway  
 (92) Object—unknown location  
 (98) Other critical precrash event (specify): \_\_\_\_\_  
 (99) Unknown

33. Attempted Avoidance Maneuver 03

- (00) No driver present
- (01) No avoidance maneuver
- (02) Braking (no lockup)
- (03) Braking (lockup)
- (04) Braking (lockup unknown)
- (05) Releasing brakes
- (06) Steering left
- (07) Steering right
- (08) Braking and steering left
- (09) Braking and steering right
- (10) Accelerating
- (11) Accelerating and steering left
- (12) Accelerating and steering right
- (98) Other action (specify):  
\_\_\_\_\_

(99) Unknown

34. Pre-Impact Stability 2

- (0) No driver present
- (1) Tracking
- (2) Skidding longitudinally—rotation less than 30 degrees
- (3) Skidding laterally—clockwise rotation
- (4) Skidding laterally—counterclockwise rotation
- (7) Other vehicle loss-of-control (specify):  
\_\_\_\_\_

(9) Precrash stability unknown

35. Pre-Impact Location 1

- (0) No driver present
- (1) Stayed in original travel lane
- (2) Stayed on roadway but left original travel lane
- (3) Stayed on roadway, not known if left original travel lane
- (4) Departed roadway
- (5) Remained off roadway
- (6) Returned to roadway
- (7) Entered roadway
- (9) Unknown

36. Accident Type 69

(Note: Applicable codes on back of this page)

- (00) No impact  
Code the number of the diagram that best describes the accident circumstance
- (98) Other accident type (specify):  
\_\_\_\_\_

(99) Unknown

**STOP HERE IF GV07 DOES NOT EQUAL 01 - 49**

Category	Configuration	ACCIDENT TYPES (Includes Intent)									
I. Single Driver	A. Right Roadside Departure	01 DRIVE OFF ROAD	02 CONTROL/ TRACTION LOSS	03 AVOID COLLISION WITH VEH., PED., ANIM.	04 SPECIFICS OTHER	05 SPECIFICS UNKNOWN					
	B. Left Roadside Departure	06 DRIVE OFF ROAD	07 CONTROL/ TRACTION LOSS	08 AVOID COLLISION WITH VEH., PED., ANIM.	09 SPECIFICS OTHER	10 SPECIFICS UNKNOWN					
	C. Forward Impact	11 PARKED VEH.	12 STA. OBJECT	13 PEDESTRIAN/ ANIMAL	14 END DEPARTURE	15 SPECIFICS OTHER	16 SPECIFICS UNKNOWN				
II Same Trafficway Same Direction	D. Rear-End	20 STOPPED 21, 22, 23	22 SLOWER 25, 26, 27	24 DECEL. 29, 30, 31	26 AVOID COLLISION WITH VEH.	28 AVOID COLLISION WITH OBJECT	30 SPECIFICS OTHER	31 SPECIFICS UNKNOWN	(EACH • 32)	(EACH • 33)	
	E. Forward Impact	34 CONTROL/ TRACTION LOSS	36 CONTROL/ TRACTION LOSS	38 AVOID COLLISION WITH VEH.	40 AVOID COLLISION WITH OBJECT	35 SPECIFICS OTHER	37 SPECIFICS UNKNOWN	39 SPECIFICS OTHER	41 SPECIFICS UNKNOWN	(EACH • 42)	(EACH • 43)
	F. Sideswipe Angle	44 LATERAL MOVE	45 LATERAL MOVE	46 LATERAL MOVE	47 LATERAL MOVE	(EACH • 48) SPECIFICS OTHER	(EACH • 49) SPECIFICS UNKNOWN				
III Same Trafficway Opposite Direction	G. Head-On	50 LATERAL MOVE	51 LATERAL MOVE	(EACH • 52) SPECIFICS OTHER	(EACH • 53) SPECIFICS UNKNOWN						
	H. Forward Impact	54 CONTROL/ TRACTION LOSS	56 CONTROL/ TRACTION LOSS	58 AVOID COLLISION WITH VEH.	60 AVOID COLLISION WITH OBJECT	55 SPECIFICS OTHER	57 SPECIFICS UNKNOWN	59 SPECIFICS OTHER	61 SPECIFICS UNKNOWN	(EACH • 62)	(EACH • 63)
	I. Sideswipe Angle	64 LATERAL MOVE	65 LATERAL MOVE	(EACH • 66) SPECIFICS OTHER	(EACH • 67) SPECIFICS UNKNOWN						
IV. Change Trafficway Vehicle Turning	J. Turn Across Path	68 INITIAL OPPOSITE DIRECTIONS	69 INITIAL SAME DIRECTIONS	70 INITIAL SAME DIRECTIONS	71 INITIAL SAME DIRECTIONS	72 INITIAL SAME DIRECTIONS	73 INITIAL SAME DIRECTIONS	(EACH • 74)	(EACH • 75)		
	K. Turn Into Path	76 TURN INTO SAME DIRECTION	77 TURN INTO SAME DIRECTION	78 TURN INTO SAME DIRECTION	79 TURN INTO SAME DIRECTION	80 TURN INTO OPPOSITE DIRECTIONS	81 TURN INTO OPPOSITE DIRECTIONS	82 TURN INTO OPPOSITE DIRECTIONS	83 TURN INTO OPPOSITE DIRECTIONS	(EACH • 84)	(EACH • 85)
V. Intersecting Paths (Vehicle Damage)	L. Straight Paths	86 STRAIGHT PATHS	87 STRAIGHT PATHS	88 STRAIGHT PATHS	89 STRAIGHT PATHS	(EACH • 90) SPECIFICS OTHER	(EACH • 91) SPECIFICS UNKNOWN				
VI. Miscellaneous	M. Backing Etc.	92 BACKING VEH.	93 OTHER VEH. OR OBJECT	98 Other Accident Type 99 Unknown Accident Type 00 No Impact							

**OCCUPANT RELATED**

- 37. Driver Presence in Vehicle 1  
 (0) Driver not present  
 (1) Driver present  
 (9) Unknown
- 38. Number of Occupants This Vehicle 03  
 (00-96) Code actual number of occupants for this vehicle  
 (97) 97 or more  
 (99) Unknown
- 39. Number of Occupant Forms Submitted 03

**AIR BAG RELATED**

- 40. Is this an AOPS Vehicle? 1  
 (0) No (includes unknown)  
 (1) Yes - researcher determined  
 (2) VIN determined air bag system  
 (3) VIN determined automatic (passive) belts  
 (4) VIN determined air bag and automatic (passive) belts
- 41. Air Bag(s) Deployment, First Seat Frontal 1  
 (0) Not equipped or not available  
 (1) No air bags deployed  
*Single Air Bag Vehicle*  
 (2) Driver air bag deployed  
 (3) Driver air bag, unknown if deployed  
*Multiple Air Bag Vehicle*  
 (4) Driver side only deployed  
 (5) Passenger side only deployed  
 (6) Driver and passenger side deployed  
 (7) Driver and passenger side unknown if deployed  
 (8) Air bag(s) deployed, details unknown  
 (9) Unknown
- 42. Air Bag(s) Deployment, Other Than First Seat Frontal 0  
 (0) Not equipped with an "other" air bag  
 (1) Deployed during accident (as a result of impact)  
 (2) Deployed inadvertently just prior to accident  
 (3) Deployed, details unknown  
 (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)  
 (5) Unknown if deployed  
 (7) Nondeployed  
 (9) Unknown  
 Specify type of "other" air bag present: \_\_\_\_\_

**VEHICLE WEIGHT ITEMS**

- 43. Vehicle Curb Weight 1,570  
 Code weight to nearest 10 kilograms.  
 (045) Less than 454 kilograms  
 (612) 6,124 kilograms or more  
 (999) Unknown  
3,452 lbs X .4536 = 1,566 kgs  
 Source: \_\_\_\_\_

- 44. Vehicle Cargo Weight 0,010  
 Code weight to nearest 10 kilograms.  
 (000) Less than 5 kilograms  
 (454) 4,536 kilograms or more  
 (999) Unknown  
20 lbs X .4536 = 9 kgs  
 Source: \_\_\_\_\_

**ROLLOVER DATA**

- 45. Rollover 00  
 (00) No rollover (no overturning)  
*Rollover (primarily about the longitudinal axis)*  
 (01-16) Code the number of quarter turns  
 (17) Rollover, 17 or more quarter turns (specify): \_\_\_\_\_  
 (98) Rollover--end-over-end (i.e., primarily about the lateral axis)  
 (99) Rollover (overturn), details unknown
- 46. Rollover Initiation Type 00  
 (00) No rollover  
 (01) Trip-over  
 (02) Flip-over  
 (03) Turn-over  
 (04) Climb-over  
 (05) Fall-over  
 (06) Bounce-over  
 (07) Collision with another vehicle  
 (08) Other rollover initiation type specify): \_\_\_\_\_  
 (98) Rollover--end-over-end  
 (99) Unknown rollover initiation type
- 47. Location of Rollover Initiation 0  
 (0) No rollover  
 (1) On roadway  
 (2) On shoulder—paved  
 (3) On shoulder—unpaved  
 (4) On roadside or divided trafficway median  
 (8) Rollover--end-over-end  
 (9) Unknown
- 48. Rollover Initiation Object Contacted 00  
 (Note: Applicable codes on back of page)
- 49. Location on Vehicle Where Initial Principal Tripping Force Is Applied 0  
 (0) No rollover  
 (1) Wheels/tires  
 (2) Side plane  
 (3) End plane  
 (4) Undercarriage  
 (5) Other location on vehicle (specify): \_\_\_\_\_  
 (6) Non-contact rollover forces (specify): \_\_\_\_\_  
 (8) Rollover--end-over-end  
 (9) Unknown
- 50. Direction of Initial Roll 0  
 (0) No rollover  
 (1) Roll right - primarily about the longitudinal axis  
 (2) Roll left - primarily about the longitudinal axis  
 (8) Rollover--end-over-end  
 (9) Unknown roll direction

## CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover  
(01-30) — Vehicle Number

### Noncollision

(31) Turn-over — fall-over  
(32) No rollover impact initiation (end-over-end)  
(34) Jackknife

### Collision With Fixed Object

(41) Tree ( $\leq$  10 cm in diameter)  
(42) Tree ( $>$  10 cm in diameter)  
(43) Shrubbery or bush  
(44) Embankment

(45) Breakaway pole or post (any diameter)

### Nonbreakaway Pole or Post

(50) Pole or post ( $\leq$  10 cm in diameter)  
(51) Pole or post ( $>$  10 cm but  $\leq$  30 cm in diameter)  
(52) Pole or post ( $>$  30 cm in diameter)  
(53) Pole or post (diameter unknown)

(54) Concrete traffic barrier  
(55) Impact attenuator  
(56) Other traffic barrier (includes guardrail)  
(specify): \_\_\_\_\_

(57) Fence  
(58) Wall  
(59) Building  
(60) Ditch or culvert  
(61) Ground  
(62) Fire hydrant  
(63) Curb  
(64) Bridge  
(68) Other fixed object (specify):

(69) \_\_\_\_\_  
Unknown fixed object

### Collision with Nonfixed Object

(70) Passenger car, light truck, van, or other vehicle not in-transport  
(71) Medium/heavy truck or bus not in-transport  
(76) Animal  
(77) Train  
(78) Trailer, disconnected in transport  
(79) Object fell from vehicle in-transport  
(88) Other nonfixed object (specify):

(89) \_\_\_\_\_  
Unknown nonfixed object

(98) Other event (specify):

(99) \_\_\_\_\_  
Unknown event or object

**VERRIDE/UNDERRIDE (THIS VEHICLE)**

**ACCIDENT RECONSTRUCTION PROGRAMS  
HIGHEST DELTA V**

51. Front Override/Underride (this Vehicle)   7
52. Rear Override/Underride (this Vehicle)   0
- (0) No override/underride, or not an end-to-end impact between two CDS applicable vehicles, and no medium/heavy truck or bus underride
- Override (see specific CDC)*  
*[Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49)]*
- (1) 1st CDC  
 (2) 2nd CDC  
 (3) Other not automated CDC (specify):  
 \_\_\_\_\_
- Underride (see specific CDC)*  
*[Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49)]*
- (4) 1st CDC  
 (5) 2nd CDC  
 (6) Other not automated CDC (specify):  
 \_\_\_\_\_
- (7) Medium/heavy truck or bus override (of any configuration)  
 (9) Unknown

58. Basis for Total (Resultant) Delta V (highest)   04
- (00) No vehicle inspection
- Delta V Calculated*
- (01) Reconstruction program-damage only routine  
 (02) Reconstruction program-damage and trajectory routine  
 (03) Missing vehicle algorithm
- Delta V Not Calculated*
- (04) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.

*All vehicles within scope (CDC applicable) of reconstruction program but one of the collision conditions is beyond the scope of the reconstruction program or other acceptable reconstruction technique, regardless of adequacy of damage data.*

- (05) Rollover  
 (06) Other non-horizontal forces  
 (07) Sideswipe type damage  
 (08) Severe override  
 (09) Yielding object  
 (10) Overlapping damage  
 (11) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available, (specify):  
 \_\_\_\_\_  
 \_\_\_\_\_

(98) Other, (specify): \_\_\_\_\_  
 \_\_\_\_\_

**HEADING ANGLE AT IMPACT FOR  
HIGHEST DELTA V**

Values: (000)-(359) Code actual value  
 (996) Non-horizontal impact  
 (997) Noncollision  
 (998) Impact with object  
 (999) Unknown

53. Heading Angle For This Vehicle   305
54. Heading Angle For Other Vehicle   345

**RECONSTRUCTION DATA**

55. Towed Trailing Unit   0
- (0) No towed unit  
 (1) Yes—towed trailing unit  
 (9) Unknown
56. Documentation of Trajectory Data for This Vehicle   1
- (0) No  
 (1) Yes
57. Post Collision Condition of Tree or Pole (For Highest Delta V)   0
- (0) Not collision (for highest delta V) with tree or pole  
 (1) Not damaged  
 (2) Cracked/sheared  
 (3) Tilted < 45 degrees  
 (4) Tilted > 45 degrees  
 (5) Uprooted tree  
 (6) Separated pole from base  
 (7) Pole replaced  
 (8) Other (specify):  
 \_\_\_\_\_
- (9) Unknown

**COMPUTER GENERATED CRASH SEVERITY**

59. Total Delta V Highest  
999

\_\_\_\_\_ Nearest kmph (highest)  
 \_\_\_\_\_ Nearest kmph (secondary)

(NOTE: 000 means less than 0.5 kmph)  
 (160) 159.5 kmph and above  
 (999) Unknown

60. Longitudinal Component of Delta V Highest  
 + 999  
 -

\_\_\_\_\_ Nearest kmph (highest)  
 \_\_\_\_\_ Nearest kmph (secondary)

(NOTE: \_\_000 means greater than -0.5 kmph and less than +0.5 kmph)  
 (±160) ±159.5 kmph and above  
 (\_\_999) Unknown

61. Lateral Component of Delta V Highest  
 + 999  
 -

\_\_\_\_\_ Nearest kmph (highest)  
 \_\_\_\_\_ Nearest kmph (secondary)

(NOTE: \_\_000 means greater than -0.5 kmph and less than +0.5 kmph)  
 (±160) ±159.5 kmph and above  
 (\_\_999) Unknown

62. Energy Absorption Highest  
999.9 00

\_\_\_\_\_ Nearest 100 joules (highest)  
 \_\_\_\_\_ Nearest 100 joules (secondary)

(NOTE: 0000 means less than 50 joules)  
 (9997) 999,650 joules or more  
 (9999) Unknown

63. Impact Speed Highest  
999

\_\_\_\_\_ Nearest kmph (highest)  
 \_\_\_\_\_ Nearest kmph (secondary)

(NOTE: 000 means less than 0.5 kmph)  
 (160) 159.5 kmph and above  
 (998) Trajectory algorithm not run  
 (999) Unknown

**DELTA V CONFIDENCE LEVEL**

64. Confidence In Reconstruction Program Results (For Highest Delta V) 0  
 (0) No reconstruction  
 (1) Collision fits model — results appear reasonable  
 (2) Collision fits model — results appear high  
 (3) Collision fits model — results appear low  
 (4) Borderline reconstruction — results appear reasonable

**OTHER SPEED ESTIMATE**

65. Barrier Equivalent Speed Highest  
999

\_\_\_\_\_ Nearest kmph (highest)  
 \_\_\_\_\_ Nearest kmph (secondary)

(NOTE: 000 means less than 0.5 kmph)  
 (160) 159.5 kmph and above  
 (999) Unknown

ESTIMATED DELTA V	INSPECTION TYPE
<p>66. Estimated Highest Delta V (Researcher Determined) <u>8</u></p> <p>(0) Reconstruction Delta V coded</p> <p><i>Estimated Delta V</i></p> <p>(1) Less than 10 kmph  (2) ≥ 10 kmph but &lt; 25 kmph  (3) ≥ 25 kmph but &lt; 40 kmph  (4) ≥ 40 kmph but &lt; 55 kmph  (5) ≥ 55 kmph</p> <p><i>Other estimates of damage severity</i></p> <p>(6) Minor  (7) Moderate  (8) Severe</p> <p>(9) Unknown</p>	<p>67. Type of Vehicle Inspection <u>3</u></p> <p>(0) No inspection  (1) Vehicle fully repaired-no damage evident  (2) Partial inspection (specify): _____  (3) Complete inspection</p> <p><b>DELTA V EVENT NUMBER</b></p> <p>68. Delta V Event Number <u>01</u></p> <p>_____ Code the accident event sequence number that resulted in the Delta V that has been coded above for this vehicle</p> <p>(99) Unknown</p>

\*\*\* IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV67 = 0), \*\*\*

**DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS**

\*\*\* IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE \*\*\*

**THE EXTERIOR VEHICLE, INTERIOR VEHICLE,  
OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.**



# EXTERIOR VEHICLE FORM

1. Primary Sampling Unit Number <u>45</u>	3. Vehicle Number <u>02</u>
2. Case Number - Stratum <u>053B</u>	

## VEHICLE IDENTIFICATION

VIN 1C3XY66R6LD XXXXXXXXXX Model Year 90

Vehicle Make (specify): CHRYSLER Vehicle Model (specify): NEW YORKER/5TH AVE

## LOCATOR

Locate the end of the damage with respect to the vehicle's damaged center point or bumper corner for end impacts or an undamaged axle for side impacts.

Specific Impact No.	Location of Direct Damage	Location of Field L	Location of Max Crush
	"UPPER Body Damage ONLY"		
	86 F OF LR AXEL - 3/4 FORWARD (EXTENT ZONE)		
01	1cm L of Center - left	LF Hood Top - RF Hood Top	SAME

## CRUSH PROFILE IN CENTIMETERS

NOTES: Identify the plane at which the C-measurements are taken (e.g., at bumper, above bumper, at sill, above sill, etc.) and label adjustments (e.g., free space).

Measure C1 to C6 from driver to passenger side in front or rear impacts and rear to front in side impacts.

Free space value is defined as the distance between the baseline and the original body contour taken at the individual C locations. This may include the following: bumper lead, bumper taper, side protrusion, side taper, etc. Record the value for each C-measurement and maximum crush.

Use as many lines/columns as necessary to describe each damage profile.

Specific Impact Number	Plane of Impact C-Measurements	Direct Damage		Field L	C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	C <sub>6</sub>	±D
		Width (CDC)	Max Crush								
01	Damage starts 13 cm beyond front bumper at hood level										
RIGHT SIDE	0-13	Bumper (BUMPER TO HOOD)									-40
	14-278	Damage (EXTENT ZONE)									—
	279-492	No Damage									-40

779  
112  
264

# ORIGINAL SPECIFICATIONS WORK SHEET

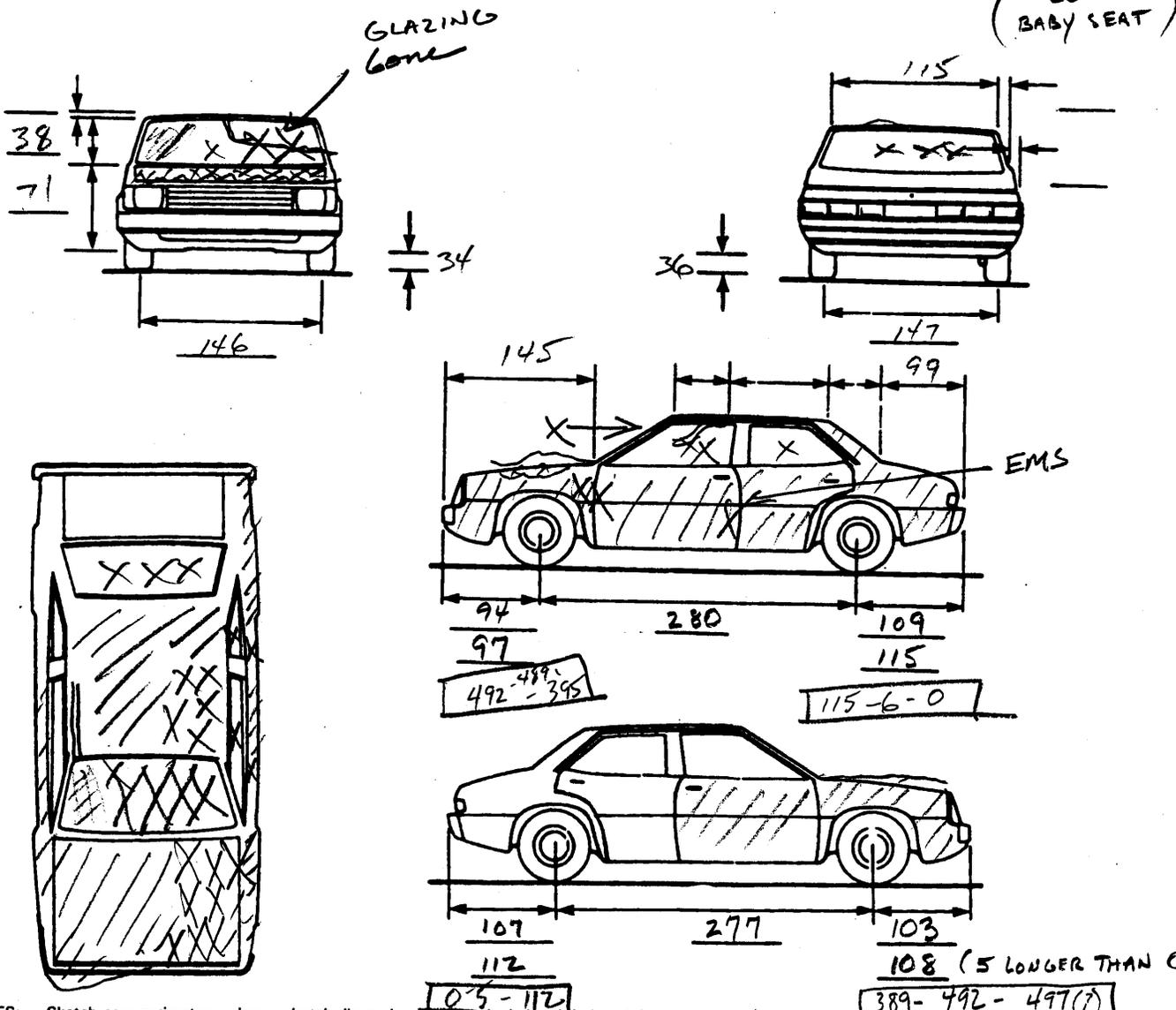
Wheelbase	<u>104.3</u>	inches	x 2.54	=	(264.922) <u>265</u> cm
Overall Length	<u>193.6</u>	inches	x 2.54	=	<u>492</u> cm
Maximum Width	<u>68.5</u>	inches	x 2.54	=	<u>174</u> cm
Curb Weight	<u>3,452</u>	pounds	x .4536	=	<u>1,566</u> kg
Average Track	<u>57.6</u>	inches	x 2.54	=	<u>146</u> cm
Front Overhang	_____	inches	x 2.54	=	_____ cm
Rear Overhang	_____	inches	x 2.54	=	_____ cm
Undeformed End Width	_____	inches	x 2.54	=	_____ cm
Engine Size: cyl./displ.	_____	cc	x .001	=	_____ L
	_____	CID	x .0164	=	<u>8.0</u> L

sig 3  
 step 9

**VEHICLE DAMAGE SKETCH**

<b>TIRE—WHEEL DAMAGE</b> a. Rotation physically restricted RF <u>2</u> LF <u>1</u> RR <u>2</u> LR <u>2</u> (1) Yes (2) No (8) NA (9) Unk.		b. Tire deflated RF <u>2</u> LF <u>2</u> RR <u>2</u> LR <u>2</u>		<b>ORIGINAL SPECIFICATIONS</b> Wheelbase <u>265</u> cm Overall Length <u>492</u> cm Maximum Width <u>174</u> cm Curb Weight <u>1560</u> kg Average Track <u>146</u> cm Front Overhang <u>111</u> cm Rear Overhang <u>111</u> cm Undeformed End Width <u>162</u> cm Engine Size: cyl./displ. <u>4cyl 2.0</u> L		<b>WHEEL STEER ANGLES</b> (For locked front wheels or displaced rear axles only) RF ± <u>00</u> ° LF ± <u>05</u> ° RR ± <u>00</u> ° LR ± <u>00</u> ° Within ± 5 degrees	
<b>TYPE OF TRANSMISSION</b> <input type="checkbox"/> Manual <input checked="" type="checkbox"/> Automatic END SHIFT ≥ 10 CM <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				<b>DRIVE WHEELS</b> <input checked="" type="checkbox"/> FWD <input type="checkbox"/> RWD <input type="checkbox"/> 4WD		Approximate Cargo Weight <u>9</u> kg	

**MEASUREMENTS IN CENTIMETERS**



NOTES: Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewalls, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page.

Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

CAR LONGER AFTER ACCIDENT

ON RIGHT SIDE

21  
15/8



**COLLISION DEFORMATION CLASSIFICATION**

HIGHEST DELTA "V"

Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
4. <u>01</u>	5. <u>01</u>	6. <u>11</u>	7. <u>F</u>	8. <u>Y</u>	9. <u>H</u>	10. <u>W</u>	11. <u>09</u>

Second Highest Delta "V"

12. _____	13. _____	14. _____	15. _____	16. _____	17. _____	18. _____	19. _____
-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

**CRUSH PROFILE IN CENTIMETERS**

The crush profile for the damage described in the CDC(s) above should be documented in the appropriate space below. (ALL MEASUREMENTS ARE IN CENTIMETERS.)

HIGHEST DELTA "V"

20. <u>L</u>	21. <u>C<sub>1</sub></u>	<u>C<sub>2</sub></u>	<u>C<sub>3</sub></u>	<u>C<sub>4</sub></u>	<u>C<sub>5</sub></u>	<u>C<sub>6</sub></u>	22. <u>±D</u>
-----	-----	-----	-----	-----	-----	-----	+ -----

Second Highest Delta "V"

23. <u>L</u>	24. <u>C<sub>1</sub></u>	<u>C<sub>2</sub></u>	<u>C<sub>3</sub></u>	<u>C<sub>4</sub></u>	<u>C<sub>5</sub></u>	<u>C<sub>6</sub></u>	25. <u>±D</u>
-----	-----	-----	-----	-----	-----	-----	+ -----

26. Undeformed End Width  
(Coded when highest severity impact is an end plane impact.) 162  
 \_\_\_\_\_ Code to the nearest centimeter  
 (250) 250 centimeters or more  
 (998) No highest severity end plane impact  
 (999) Unknown

27. Direct Damage Width  
(For highest severity impact) 080  
 \_\_\_\_\_ Code to the nearest centimeter  
 (250) 250 centimeters or more  
 (999) Unknown

28. Original Wheelbase  
 \_\_\_\_\_ Code to the nearest centimeter 265  
 (650) 650 centimeters or more  
 (999) Unknown  
104.3 inches X 2.54 = 264.9 centimeters

29. Original Average Track Width  
 \_\_\_\_\_ Code to the nearest centimeter 146  
 (185) 185 centimeters or more  
 (999) Unknown  
57.6 inches X 2.54 = 146.3 centimeters

## FUEL SYSTEM

30. Are CDCs Documented  
but Not Coded on The  
Automated File? 0  
(0) No  
(1) Yes

31. Researcher's Assessment of Vehicle  
Disposition 1  
(0) Not towed due to vehicle damage  
(1) Towed due to vehicle damage  
(9) Unknown

32. Is This A Multi-Stage Manufactured Vehicle  
And/Or A Certified Altered Vehicle? 0  
(0) No post manufacturer modifications  
(1) Yes - post manufacturer modifications  
(specify): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
(Include photograph of CERTIFICATION  
PLACARD in case report)

(9) Unknown if vehicle is modified

## FIRE OCCURRENCE

33. Fire Occurrence 0  
(0) No fire  
  
Yes, fire occurred  
(1) Minor  
(2) Major  
(9) Unknown

34. Origin of Fire 0  
(0) No fire  
(1) Vehicle exterior (front, side, back, top)  
(2) Exhaust system  
(3) Fuel tank (and other fuel retention  
system parts)  
(4) Engine compartment  
(5) Cargo/trunk compartment  
(6) Instrument panel  
(7) Passenger compartment area  
(8) Other location (specify): \_\_\_\_\_  
(9) Unknown

35. Location of Fuel Tank-1 Filler Cap 3

36. Location of Fuel Tank-2 Filler Cap 0  
(0) No fuel tank  
(1) On back plane  
(2) Aft of center of the rear wheels (rear axle)  
on left side plane  
(3) Aft of center of the rear wheels (rear axle)  
on right side plane  
(4) Forward of center of the rear wheels (rear  
axle) on left side plane  
(5) Forward of center of the rear wheels (rear  
axle) on right side plane  
(6) Over the center of the rear wheels (rear  
axle) on left side plane  
(7) Over the center of the rear wheels (rear  
axle) on right side plane  
(8) Other (specify): \_\_\_\_\_  
(9) Unknown

37. Type of Fuel Tank-1 1

38. Type of Fuel Tank-2 0  
(0) No fuel tank (electrical vehicle)  
(1) Metallic  
(2) Non-metallic  
(9) Unknown

39. Location of Fuel Tank-1 4

40. Location of Fuel Tank-2 0  
(0) No fuel tank  
(1) Aft of center of the rear wheels (rear axle)  
centered  
(2) Aft of center of the rear wheels (rear axle)  
left side  
(3) Aft of center of the rear wheels (rear axle)  
right side  
(4) Forward of center of the rear wheels (rear  
axle) centered  
(5) Forward of center of the rear wheels (rear  
axle) left side  
(6) Forward of center of the rear wheels (rear  
axle) right side  
(7) Over center of the rear wheels (rear axle)  
(8) Other (specify): \_\_\_\_\_  
(9) Unknown

41. Damage to Fuel Tank-1 1

42. Damage to Fuel Tank-2 0  
(0) No fuel tank  
(1) No damage to fuel tank  
(2) Deformed, no seam failure  
(3) Deformed, with a seam failure  
(4) Punctured  
(5) Lacerated (ripped)  
(6) Abraded (scraped)  
(7) Filler neck separation from the fuel tank  
(8) Other damage (specify): \_\_\_\_\_  
(9) Unknown

43. Leakage Location of Fuel System-1 1

44. Leakage Location of Fuel System-2 0

(0) No fuel tank  
(1) No fuel leakage

*Primary Area Of Leakage*

(2) Tank  
(3) Filler neck  
(4) Cap  
(5) Lines/pump/filter  
(6) Vent/emission recovery  
(8) Other (specify): \_\_\_\_\_  
(9) Unknown

45. Fuel Type-1 01

46. Fuel Type-2 00

*Single Fuel Type*

(00) No fuel tank  
(01) Gasoline  
(02) Diesel  
(03) CNG (Compressed Natural Gas)  
(04) LPG (Liquid Petroleum Gas) also known as Propane  
(05) LNG (Liquid Natural Gas)  
(06) Methanol (M100 or M85)  
(07) Ethanol (E100 or E85)  
(08) Other (Hydrogen or others) (specify): \_\_\_\_\_

*Electric Powered or Electric/Solar Powered Vehicles*

(10) Lead Acid Battery  
(11) Nickel-Iron Battery  
(12) Nickel-Cadmium Battery  
(13) Sodium Metal Chloride Battery  
(14) Sodium Sulfur Battery  
(18) Other (Specify): \_\_\_\_\_

(98) Other Hybrid (specify): \_\_\_\_\_

(99) Unknown fuel type

47. Is This Vehicle Equipped With More Than Two Fuel Tanks? 0

(0) No (one or two tanks only)

*Yes - More Than Two Tanks*

(1) Yes -- no damage to any tank or filler cap and no fuel system leakage

(2) Yes -- no damage to any tank or filler cap but there is fuel system leakage (specify leakage location): \_\_\_\_\_

(3) Yes -- damage to an additional tank or filler cap and there is fuel system leakage (specify the following):  
 Type of tank \_\_\_\_\_  
 Tank location \_\_\_\_\_  
 Filler cap location \_\_\_\_\_  
 Tank damage \_\_\_\_\_  
 Location of leakage \_\_\_\_\_  
 Type of fuel \_\_\_\_\_

(9) Unknown if more than two tanks

**COMMENTS**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\*\*\* STOP: IF THE CDS APPLICABLE VEHICLE WAS NOT TOWED \*\*\*

(GV10=0)

DO NOT COMPLETE THE INTERIOR VEHICLE FORM.



# INTERIOR VEHICLE FORM

## GLAZING

1. Primary Sampling Unit Number 45  
 2. Case Number - Stratum 053B  
 3. Vehicle Number 02

Type of Window/Windshield Glazing  
 15. WS 1 16. LF 2 17. RF 2 18. LR 2 19. RR 2  
 20. BL 2 21. Roof 0 22. Other 2

## INTEGRITY

4. Passenger Compartment Integrity 98  
 (00) No integrity loss

Yes, Integrity Was Lost Through  
 (01) Windshield  
 (02) Door (side)  
 (03) Door/hatch (back door)  
 (04) Roof  
 (05) Roof glass  
 (06) Side window  
 (07) Rear window (backlight)  
 (08) Roof and roof glass  
 (09) Windshield and door (side)  
 (10) Windshield and roof  
 (11) Side and rear window (side window and backlight)  
 (12) Windshield and side window  
 (13) Door and side window  
 (98) Other combination of above (specify):  
11, 12  
 (99) Unknown

- (0) No glazing
- (1) AS-1 - Laminated
- (2) AS-2 - Tempered
- (3) AS-3 - Tempered-tinted (original)
- (4) AS-2 - Tempered-with after market tint
- (5) AS-3 - Tempered-tinted (with additional after market tint)
- (6) AS-14 - Glass/Plastic
- (7) Glazing removed prior to accident
- (8) Other (specify):  
\_\_\_\_\_
- (9) Unknown

## Window Precrash Glazing Status

23. WS 1 24. LF 2 25. RF 2 26. LR 2 27. RR 2  
 28. BL 1 29. Roof 0 30. Other 1

- (0) No glazing
- (1) Fixed
- (2) Closed
- (3) Partially opened
- (4) Fully opened
- (7) Glazing removed prior to accident
- (9) Unknown

## Door, Tailgate or Hatch Opening

5. LF 3 6. RF 1 7. LR 3 8. RR 1 9. TG/H 0

- (0) No door/gate/hatch
- (1) Door/gate/hatch remained closed and operational
- (2) Door/gate/hatch came open during collision
- (3) Door/gate/hatch jammed shut
- (8) Other (specify):  
\_\_\_\_\_
- (9) Unknown

## Glazing Damage from Impact Forces

31. WS 3 32. LF 6 33. RF 1 34. LR 6 35. RR 1  
 36. BL 6 37. Roof 0 38. Other 1

- (0) No glazing
- (1) No glazing damage from impact forces
- (2) Glazing in place and cracked from impact forces
- (3) Glazing in place and holed from impact forces
- (4) Glazing out-of-place (cracked or not) and not holed from impact forces
- (5) Glazing out-of-place and holed from impact forces
- (6) Glazing disintegrated from impact forces
- (7) Glazing removed prior to accident
- (9) Unknown if damaged

## Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø

10. LF 0 11. RF 0 12. LR 0 13. RR 0 14. TG/H 0

- (0) No door/gate/hatch or door not opened

Door, Tailgate or Hatch Came Open During Collision

- (1) Door operational (no damage)
- (2) Latch/striker failure due to damage
- (3) Hinge failure due to damage
- (4) Door structure failure due to damage
- (5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage
- (6) Latch/striker and hinge failure due to damage
- (8) Other failure (specify):  
\_\_\_\_\_
- (9) Unknown

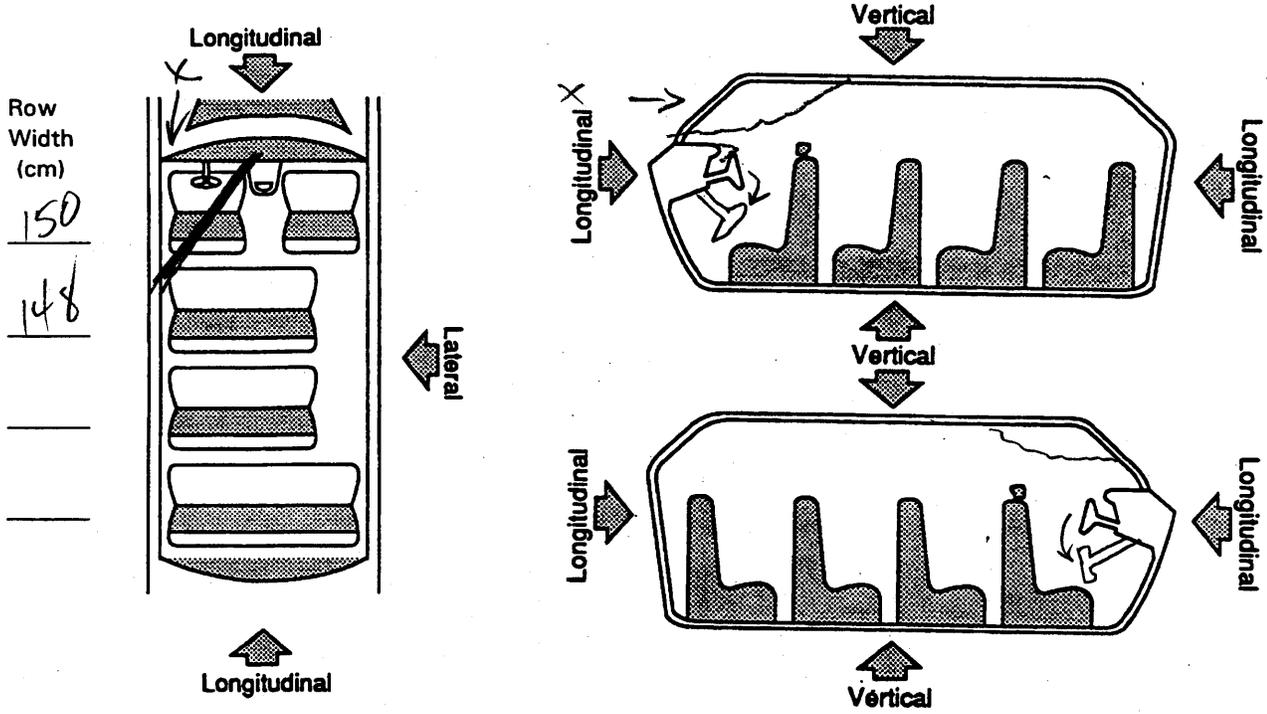
## Glazing Damage from Occupant Contact

39. WS X<sup>9</sup> 40. LF 1 41. RF 1 42. LR 1 43. RR 1  
 44. BL 1 45. Roof 0 46. Other 1

- (0) No glazing
- (1) No occupant contact to glazing
- (2) Glazing contacted by occupant but no glazing damage
- (3) Glazing in place and cracked by occupant contact
- (4) Glazing in place and holed by occupant contact
- (5) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact
- (6) Glazing out-of-place by occupant contact and holed by occupant contact
- (7) Glazing removed prior to accident
- (8) Glazing disintegrated by occupant contact
- (9) Unknown if contacted by occupant

# INTRUSION WORKSHEET

**NOTE: SKETCH INTRUDED AREAS**



LOCATION OF INTRUSION	INTRUDED COMPONENT	(All Measurements Are In Centimeters)			DOMINANT CRUSH DIRECTION	
		COMPARISON VALUE	INTRUDED VALUE	INTRUSION		
11	Inst Pan	-	=	8	Long	
11	Wind Header	-	=	84	"	
11	Roof	38	- 06 =	32	Vert	
11	SW Column	Touching Seat =			14	"
11	A Pilar	-	=	42	Long	
21	B Pilar	-	=	06	"	
13	Inst Panel	-	=	10	"	
12	Roof	-	=	30	Vert	
13	Roof	-	=	12	"	
		-	=			
		-	=			
		-	=			
		-	=			
		-	=			
		-	=			

8  
1  
3  
5  
2  
9  
7  
4  
6

**OCCUPANT AREA INTRUSION**

Note: If no intrusions, leave variables IV47-IV86 blank.

**INTRUDING COMPONENT**

*Interior Components*

- (01) Steering assembly
- (02) Instrument panel left
- (03) Instrument panel center
- (04) Instrument panel right
- (05) Toe pan
- (06) A (A1/A2)-pillar
- (07) B-pillar
- (08) C-pillar
- (09) D-pillar
- (10) Side panel - forward of the A1/A2-pillar
- (11) Door panel (side)
- (12) Side panel - rear of the B-pillar
- (13) Roof (or convertible top)
- (14) Roof side rail
- (15) Windshield
- (16) Windshield header
- (17) Window frame
- (18) Floor pan (includes sill)
- (19) Backlight header
- (20) Front seat back
- (21) Second seat back
- (22) Third seat back
- (23) Fourth seat back
- (24) Fifth seat back
- (25) Seat cushion
- (26) Back door/panel (e.g., tailgate)
- (27) Other interior component (specify):

*Exterior Components*

- (30) Hood
- (31) Outside surface of this vehicle (specify):
- (32) Other exterior object in the environment (specify):
- (33) Unknown exterior object
- (97) Catastrophic
- (98) Intrusion of unlisted component(s) (specify):
- (99) Unknown

	Location of Intrusion	Intruding Component	Magnitude of Intrusion	Dominant Crush Direction
1st	47. <u>1 1</u>	48. <u>16</u>	49. <u>6</u>	50. <u>2</u>
		<u>13</u>	<u>4</u>	<u>2</u>
2nd	51. <u>11</u>	52. <del>06</del>	53. <u>4</u>	54. <u>2</u>
	<u>12</u>			
3rd	55. <del>11</del>	56. <u>13</u>	57. <u>4</u>	58. <u>1</u>
	<u>11</u>	<u>01</u>	<u>2</u>	
4th	59. <del>12</del>	60. <del>13</del>	61. <u>4</u>	62. <u>1</u>
	<u>13</u>	<u>13</u>		
5th	63. <del>11</del>	64. <del>01</del>	65. <u>2</u>	66. <u>1</u>
		<u>04</u>		<u>2</u>
6th	67. <u>13</u>	68. <del>13</del>	69. <u>2</u>	70. <u>1</u>
	<u>11</u>	<u>02</u>		
7th	71. <del>13</del>	72. <del>04</del>	73. <u>2</u>	74. <u>2</u>
	<u>99</u>	<u>99</u>	<u>9</u>	<u>9</u>
8th	75. <del>11</del>	76. <del>02</del>	77. <u>2</u>	78. <u>2</u>
9th	79. _____	80. _____	81. _____	82. _____
10th	83. _____	84. _____	85. _____	86. _____

NAACS CODING CHANGES  
1st Review: IF  
2nd Review:

*Speller moved laterally as well.  
Amount of movement unknown*

**LOCATION OF INTRUSION**

- Front Seat
  - (11) Left
  - (12) Middle
  - (13) Right
- Second Seat
  - (21) Left
  - (22) Middle
  - (23) Right
- Third Seat
  - (31) Left
  - (32) Middle
  - (33) Right
- Fourth Seat
  - (41) Left
  - (42) Middle
  - (43) Right
- (97) Catastrophic
- (98) Other enclosed area (specify)
- (99) Unknown

**MAGNITUDE OF INTRUSION**

- (1) ≥ 3 centimeters but < 8 centimeters
- (2) ≥ 8 centimeters but < 15 centimeters
- (3) ≥ 15 centimeters but < 30 centimeters
- (4) ≥ 30 centimeters but < 46 centimeters
- (5) ≥ 46 centimeters but < 61 centimeters
- (6) ≥ 61 centimeters
- (7) Catastrophic
- (9) Unknown

**DOMINANT CRUSH DIRECTION**

- (1) Vertical
- (2) Longitudinal
- (3) Lateral
- (7) Catastrophic
- (9) Unknown

# STEERING RIM/SPOKE DEFORMATION

(All Measurements Are in Centimeters)

COMPARISON VALUE    —    DAMAGE VALUE    =    DEFORMATION

—    —    =

—    —    =

—    —    =

—    —    =

**STEERING COLUMN**

**INSTRUMENT PANEL**

87. Steering Column Type 2  
 (1) Fixed column  
 (2) Tilt column  
 (3) Telescoping column  
 (4) Tilt and telescoping column  
 (8) Other column type (specify): \_\_\_\_\_  
 (9) Unknown

88. Tilt Steering Column Adjustment 3  
 (0) No tilt steering column  
 (1) Full up  
 (2) Between full up and center  
 (3) Center  
 (4) Between center and full down  
 (5) Full down  
 (9) Unknown

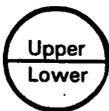
89. Telescoping Steering Column Adjustment 0  
 (0) No telescoping steering column  
 (1) Full back  
 (2) Between full back and midpoint  
 (3) Midpoint  
 (4) Between midpoint and full forward  
 (5) Full forward  
 (9) Unknown

90. Steering Rim/Spoke Deformation 00  
 Code actual measured  
 deformation to the nearest centimeter  
 (00) No steering rim deformation  
 (01-14) Actual measured value in centimeters  
 (15) 15 centimeters or more  
 (98) Observed deformation cannot be measured  
 (99) Unknown

91. Location of Steering Rim/Spoke Deformation 00  
 (00) No steering rim deformation

*Quarter Sections*

- (01) Section A
- (02) Section B
- (03) Section C
- (04) Section D



*Half Sections*

- (05) Upper half of rim/spoke
- (06) Lower half of rim/spoke
- (07) Left half of rim/spoke
- (08) Right half of rim/spoke



- (09) Complete steering wheel collapse
- (10) Undetermined location
- (99) Unknown

92. Odometer Reading 172,000  
 kilometers  
 Code to the nearest 1,000 kilometers  
 (000) No odometer  
 (001) Less than 1,500 kilometers  
 (500) 499,500 kilometers or more  
 (999) Unknown  
106.951 miles X 1.6093 = 172,116 kilometers

Source: odometer at salvage yard

93. Instrument Panel Damage from Occupant Contact? 1  
 (0) No  
 (1) Yes  
 (9) Unknown

94. Type of Knee Bolster Covering 2  
 (0) No knee bolster  
 (1) Padded  
 (2) Rigid plastic  
 (8) Other (specify): \_\_\_\_\_  
 (9) Unknown

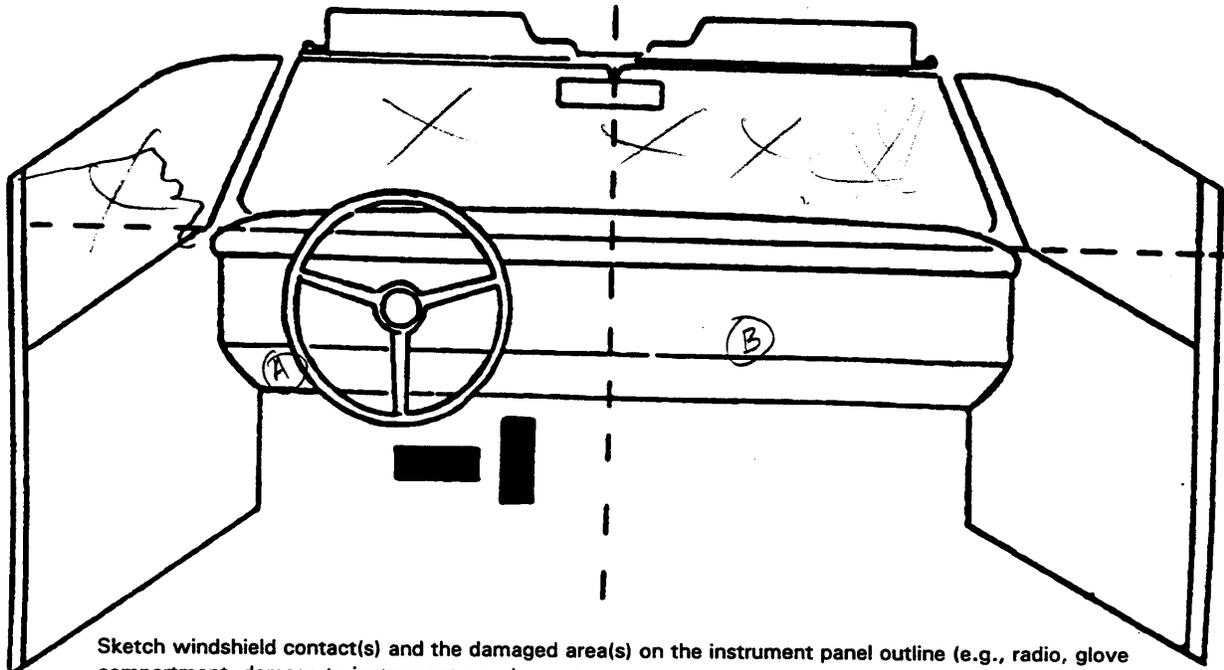
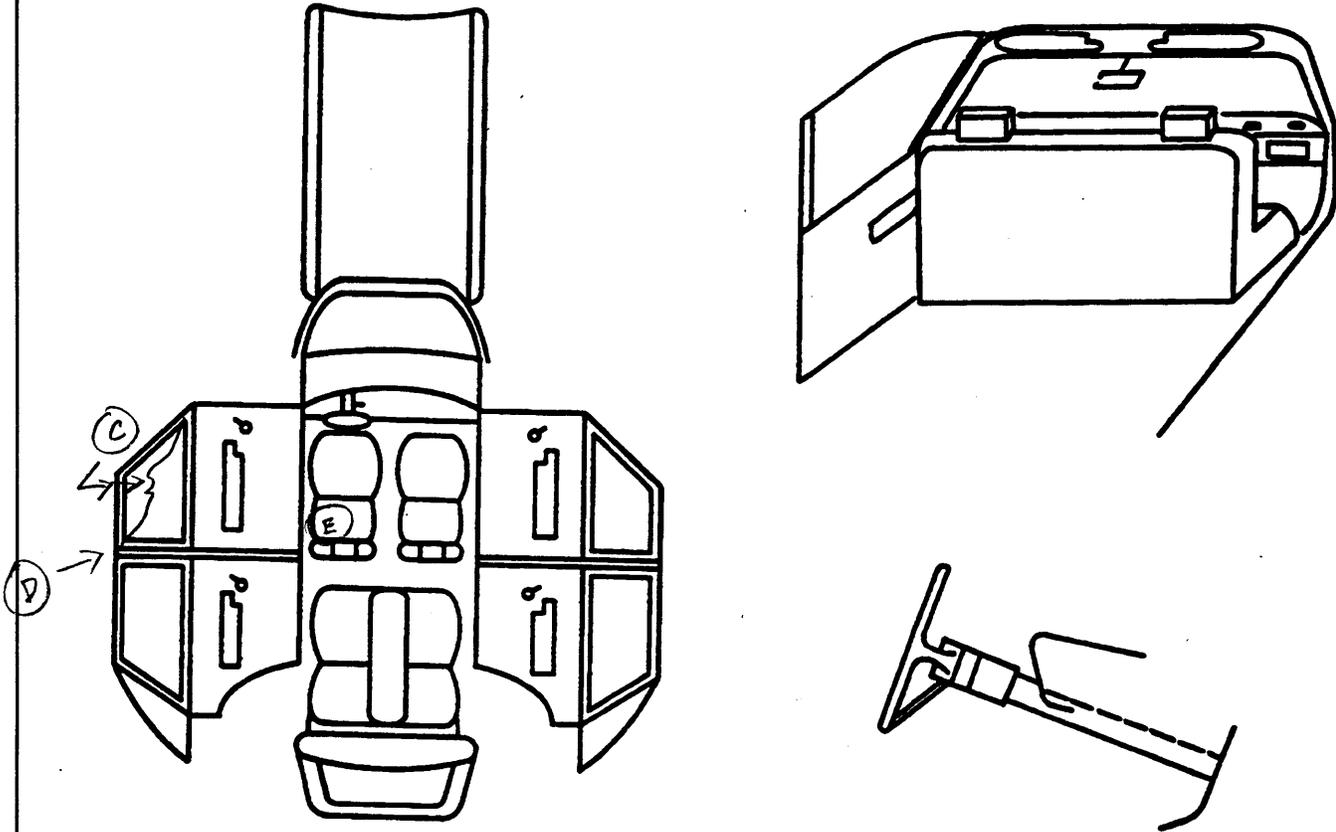
95. Knee Bolsters Deformed from Occupant Contact? 2  
 (0) No knee bolster  
 (1) No deformation  
 (2) Yes - deformation  
 (9) Unknown

96. Did Glove Compartment Door Open During Collision(s)? 2  
 (0) No glove compartment door  
 (1) No - door did not open  
 (2) Yes - door opened  
 (9) Unknown

97. Adaptive (Assistive) Driving Equipment 0  
 (0) No adaptive driving equipment  
 (1) Adaptive driving equipment installed (Check all that apply.)  
 Hand controls for braking/acceleration  
 Steering control devices (attached to OEM steering wheel)  
 Steering knob attached to steering wheel  
 Low effort power steering (unit or device)  
 Replacement steering wheel (i.e., reduced diameter)  
 Joy-stick steering controls  
 Wheelchair tie-downs  
 Modification to seat belts (specify): \_\_\_\_\_  
 Additional or relocated switches (specify): \_\_\_\_\_  
 Raised roof  
 Wall-mounted head rest (used behind wheelchair)  
 Other adaptive device (specify): \_\_\_\_\_  
 (9) Unknown

### VEHICLE INTERIOR SKETCHES

Note area of ejection/entrapment



Sketch windshield contact(s) and the damaged area(s) on the instrument panel outline (e.g., radio, glove compartment, damage to instrument panel structure.

Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.

Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

## POINTS OF OCCUPANT CONTACT

Contact	Interior Component Contacted	Occupant No. If Known	Body Region If Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	010	11	L Knee	Scratch, Deformation	1
B	012	13	UNK	Scrub	2
C	057	11	HEAD	Blood, HAIR, SCUFFS	1
D	054	11	"	" " *	1
E	151	11	UNK	Blood on seat	1
F					
G					
H					
I				* IMPRINT OF HEAD	
J				(SOME SKULL FRAGMENTS)	
K					
L					
M					
N					

## FRONT

- (001) Windshield  
 (002) Mirror  
 (003) Sunvisor  
 (004) Steering wheel rim  
 (005) Steering wheel hub/spoke  
 (006) Steering wheel (combination of codes 004 and 005)  
 (007) Steering column, transmission selector lever, other attachment  
 (008) Cellular telephone or CB radio  
 (009) Add on equipment (e.g., tapedeck, air conditioner)  
 (010) Left instrument panel and below  
 (011) Center instrument panel and below  
 (012) Right instrument panel and below  
 (013) Glove compartment door  
 (014) Knee bolster  
 (015) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, mirror, or steering assembly (driver side only)  
 (016) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, or mirror (passenger side only)  
 (017) Windshield reinforced by exterior object, (specify):  
 (019) Other front object (specify):

## CODES FOR INTERIOR COMPONENTS

## LEFT SIDE

- (051) Left side interior surface, excluding hardware or armrests  
 (052) Left side hardware or armrest  
 (053) Left A (A1/A2)-pillar  
 (054) Left B-pillar  
 (055) Other left pillar (specify):  
 (056) Left side window glass  
 (057) Left side window frame  
 (058) Left side window sill  
 (059) Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.  
 (060) Other left side object (specify):

## RIGHT SIDE

- (101) Right side interior surface, excluding hardware or armrests  
 (102) Right side hardware or armrest  
 (103) Right A (A1/A2)-pillar  
 (104) Right B-pillar  
 (105) Other right pillar (specify):  
 (106) Right side window glass  
 (107) Right side window frame  
 (108) Right side window sill  
 (109) Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.  
 (110) Other right side object (specify):

## INTERIOR

- (151) Seat, back support  
 (152) Belt restraint webbing/buckle  
 (153) Belt restraint B-pillar or door frame attachment point  
 (154) Other restraint system component (specify):  
 (155) Head restraint system  
 (160) Other occupants (specify):  
 (161) Interior loose objects  
 (162) Child safety seat (specify):  
 (163) Other interior object (specify):

## AIR BAG

- (170) Air bag-driver side  
 (175) Air bag compartment cover-driver side  
 (180) Air bag-passenger side  
 (185) Air bag compartment cover-passenger side  
 (190) Other air bag (specify)  
 (195) Other air bag compartment cover (specify)

## ROOF

- (201) Front header  
 (202) Rear header  
 (203) Roof left side rail  
 (204) Roof right side rail  
 (205) Roof or convertible top

## FLOOR

- (251) Floor (including toe pan)  
 (252) Floor or console mounted transmission lever, including console  
 (253) Parking brake handle  
 (254) Foot controls including parking brake

## REAR

- (301) Backlight (rear window)  
 (302) Backlight storage rack, door, etc.  
 (303) Other rear object (specify):

## ADAPTIVE (ASSISTIVE) DRIVING EQUIPMENT

- (401) Hand controls for braking/acceleration  
 (402) Steering control devices (attached to OEM steering wheel)  
 (403) Steering knob attached to steering wheel  
 (405) Replacement steering wheel (i.e., reduced diameter)  
 (406) Joy stick steering controls  
 (407) Wheelchair tie-downs  
 (408) Modification to seat belts, (specify):  
 (409) Additional or relocated switches, (specify):  
 (410) Raised roof  
 (411) Wall mounted head rest (used behind wheel chair)  
 (412) Other adaptive device (specify):

## CONFIDENCE LEVEL OF CONTACT POINT

- (1) Certain  
 (2) Probable  
 (3) Possible  
 (9) Unknown

# MANUAL RESTRAINTS

**NOTES:** Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

If a child safety seat is present, encode the data on the back of this page 11.

If the vehicle has automatic restraints available, encode the appropriate data on page 6.

		Left	Center	Right
<b>F I R S T</b>	A-Availability	4	3	4
	B-Evidence of usage	04	0	04
	C-Used in this crash?	1	0	1
	D-Proper Use	1	0	1
	E-Failure Modes	1	0	1
	F-Anchorage Adjustment	1	0	1
<b>S E C O N D</b>	A-Availability	4	3	4
	B-Evidence of usage	04	0	14
	C-Used in this crash?	0	0	2
	D-Proper Use	0	0	2
	E-Failure Modes	0	0	1
	F-Anchorage Adjustment	0	0	1
<b>O T H E R</b>	A-Availability			
	B-Evidence of usage	<del>4</del>	<del>3</del>	<del>4</del>
	C-Used in this crash?			
	D-Proper Use			
	E-Failure Modes			
	F-Anchorage Adjustment			

**A-Manual (Active) Belt System Availability**

- (0) None available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available - type unknown

*Integral Belt Partially Destroyed*

- (6) Shoulder belt (lap belt destroyed/removed)
- (7) Lap belt (shoulder belt destroyed/removed)
- (8) Other belt (specify): \_\_\_\_\_

- (9) Unknown

**B/C-Manual (Active) Belt System Use**

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperable (specify): \_\_\_\_\_

- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used - type unknown
- (08) Other belt used (specify): \_\_\_\_\_
- (12) Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat - type unknown
- (18) Other belt used with child safety seat (specify): \_\_\_\_\_
- (99) Unknown if belt used

**D-Proper Use of Manual (Active) Belts**

- (0) None used or not available
- (1) Belt used properly
- (2) Belt used properly with child safety seat

*Belt Used Improperly*

- (3) Shoulder belt worn under arm
- (4) Shoulder belt worn behind back or seat
- (5) Belt worn around more than one person
- (6) Lap belt worn on abdomen
- (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): \_\_\_\_\_
- (8) Other improper use of manual belt system (specify): \_\_\_\_\_
- (9) Unknown

**E-Manual (Active) Belt Failure Modes During Accident**

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify): \_\_\_\_\_
- (6) Broken retractor
- (7) Combination of above (specify): \_\_\_\_\_
- (8) Other manual belt failure (specify): \_\_\_\_\_
- (9) Unknown

**F-Shoulder Belt Upper Anchorage Adjustment**

- (0) No shoulder belt
- (1) No upper anchorage adjustment for shoulder belt

*Adjustable shoulder Belt Upper Anchorage*

- (2) In full up position
- (3) In mid position
- (4) In full down position
- (5) Position unknown
- (9) Unknown if position has adjustable upper anchorage adjustment

### AUTOMATIC RESTRAINTS

NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

#### AIR BAGS

		Frontal Air Bags--Left Front	Frontal Air Bags-Right Front	Other Air Bag
F I R S T	Availability/Function	1	0	0
	Deployment	7	0	0
	Failure	1	0	0

**Air Bag System Availability/Function**

- (0) Not equipped/not available
- (1) Air bag
- Non-functional*
- (2) Air bag disconnected (specify): \_\_\_\_\_
- (3) Air bag not reinstalled \_\_\_\_\_
- (9) Unknown

**Air Bag System Deployment (This Occupant Position)**

- (0) Not equipped/not available
- (1) Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, accident sequence undetermined
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- (9) Unknown

**Are There Indications of Air Bag System Failure? (This Occupant Position)**

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify): \_\_\_\_\_
- (9) Unknown

#### AUTOMATIC BELTS

		Left	Right
F I R S T	A-Availability/Function	0	0
	B-Use		
	C-Type	↓	↓
	D-Proper Use	↓	↓
	E-Failure Modes		

**A-Automatic (Passive) Belt System Availability/Function**

- (0) Not equipped/not available
- (1) 2 point automatic belts
- (2) 3 point automatic belts
- (3) Automatic belts - type unknown
- Non-functional*
- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

**B-Automatic (Passive) Belt System Use**

- (0) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown
- (9) Unknown

**C-Automatic (Passive) Belt System Type**

- (0) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system
- (9) Unknown

**D-Proper Use of Automatic (Passive) Belt System**

- (0) Not equipped/not available/not used
- (1) Automatic belt used properly
- (2) Automatic belt used properly with child safety seat

*Automatic Belt Used Improperly*

- (3) Automatic shoulder belt worn under arm
- (4) Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or

automatic shoulder belt used improperly with child safety seat (specify): \_\_\_\_\_

- (8) Other improper use of automatic belt system (specify): \_\_\_\_\_
- (9) Unknown

**E-Automatic (Passive) Belt Failure Modes During Accident**

- (0) Not equipped/not available/not in use
- (1) No automatic belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify): \_\_\_\_\_
- (6) Broken retractor
- (7) Combination of above (specify): \_\_\_\_\_
- (8) Other automatic belt failure (specify): \_\_\_\_\_
- (9) Unknown

## FIRST SEAT FRONTAL AIR BAGS

**NOTES:** Encode the applicable data *for the driver and first seat passenger* in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

	Driver	Passenger
A-Type of air bag?	1	0
B-Flaps open at tear points?	7	
C-Flaps damaged?	7	
D-Air bag damaged?	97	
E-Source of air bag damage	97	
F-Air bag tethered?	7	
G-Air bag have vent ports?	7	
H-Other occupant contact air bag?	7	
I-Occupant wearing eyewear?	7	

**A-Type of Air Bag**

- (0) Not equipped/not available
- (1) Original manufacturer installed system
- (2) Retrofitted air bag
- (3) Replacement air bag
- (8) Unknown type of air bag
- (9) Unknown

**B-Did Air Bag Module Cover Flap(s) Open At Designated Tear Points?**

- (0) Not equipped/not available
- (1) No
- (2) Yes
- (3) Deployed, unknown if flap(s) opened at designated tear points
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

**C-Were Air Bag Module Cover Flap(s) Damaged?**

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify): \_\_\_\_\_
- (3) Deployed, unknown if air bag module cover flap(s) damaged
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

**D-Was There Damage To The Air Bag?**

- (00) Not equipped/not available
- (01) Not damaged

*Yes - Air Bag Damage*

- (02) Ruptured
- (03) Cut
- (04) Torn
- (05) Holed
- (06) Burned
- (07) Abraded
- (88) Other damage (specify): \_\_\_\_\_

**E-Source of Air Bag Damage**

- (00) Not equipped/not available
- (01) Not damaged
- (02) Object worn by occupant, (specify): \_\_\_\_\_
- (03) Object carried by occupant, (specify): \_\_\_\_\_
- (04) Adaptive/assistive controls, (specify): \_\_\_\_\_
- (05) Fire in vehicle
- (06) Thermal burns
- (07) Rescue or emergency efforts
- (88) Other damage source (specify): \_\_\_\_\_
- (95) Damaged, unknown source
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

**F-Was The Air Bag Tethered?**

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of tether straps): \_\_\_\_\_
- (3) Deployed, unknown if tethered
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

**G-Did The Air Bag Have Vent Ports?**

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of vent ports): \_\_\_\_\_
- (3) Deployed, unknown if vent ports present
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

**H-Was the Air Bag in this Occupant's Position Contacted by Another Occupant?**

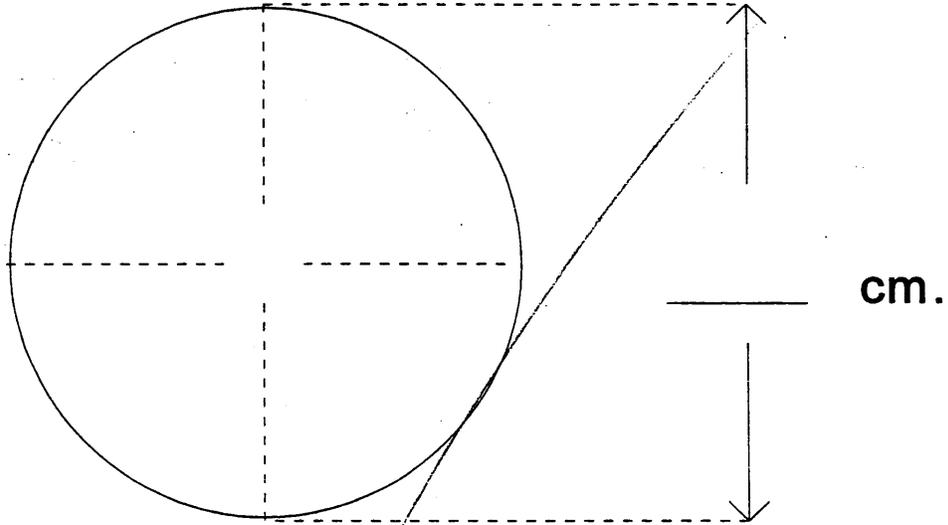
- (0) Not equipped/not available
- (1) No
- (2) Yes (specify): \_\_\_\_\_
- (3) Deployed, unknown if other occupant contact to air bag
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

**I-Was This Occupant Wearing Eye-wear?**

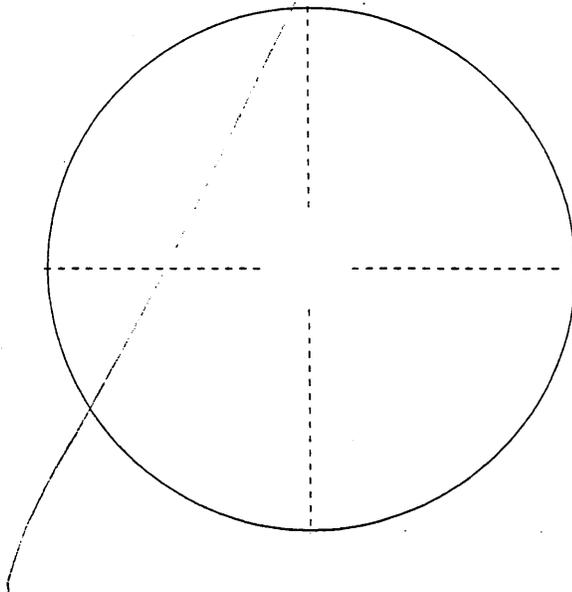
- (0) Not equipped/not available
- (1) No
- (2) Eyeglasses/sunglasses
- (3) Contact lenses
- (4) Deployed, unknown if eyewear worn
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

**DRIVER AIR BAG DAMAGE AND CONTACT SKETCHES**

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Front)



2. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Back)

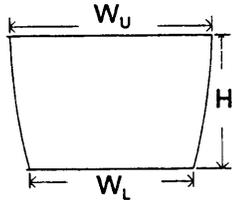


**DRIVER AIR BAG SKETCHES (Cont'd)**

3. DRIVER AIR BAG MODULE COVER FLAP SIZE (SINGLE)

width ( $W_U$ ) \_\_\_\_\_ width ( $W_L$ ) \_\_\_\_\_

height (H) \_\_\_\_\_

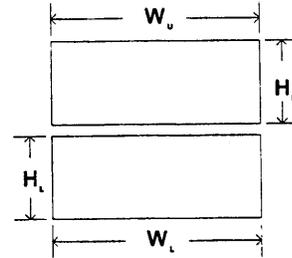


4. DRIVER AIR BAG MODULE COVER FLAP SIZE (DOUBLE)

a. Upper Flap                      b. Lower Flap

width ( $W_U$ ) \_\_\_\_\_ width ( $W_L$ ) \_\_\_\_\_

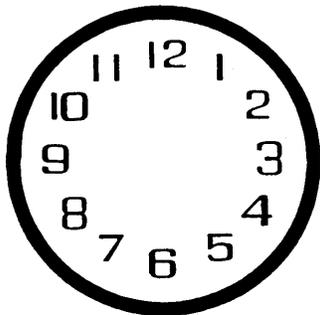
height ( $H_U$ ) \_\_\_\_\_ height ( $H_L$ ) \_\_\_\_\_



5. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP AND SIZE

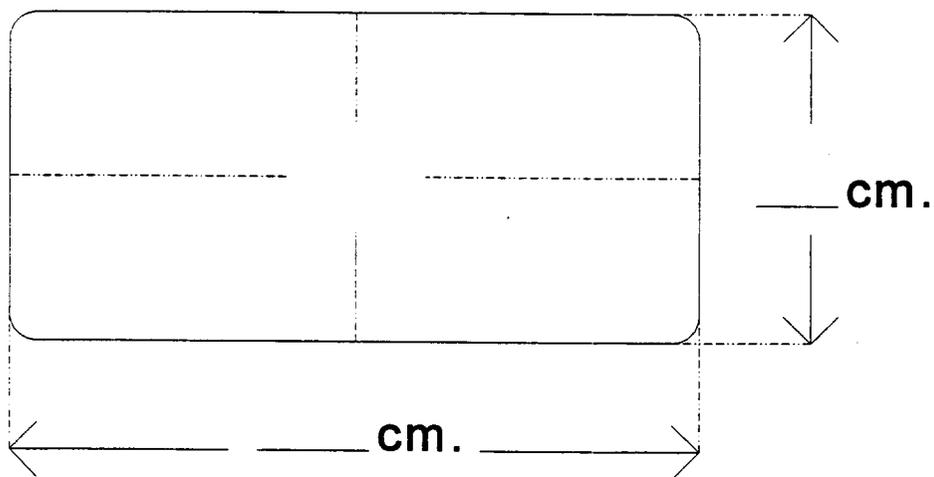
6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS

7. SKETCH LOCATION OF CIRCULAR AIR BAG VENT PORTS

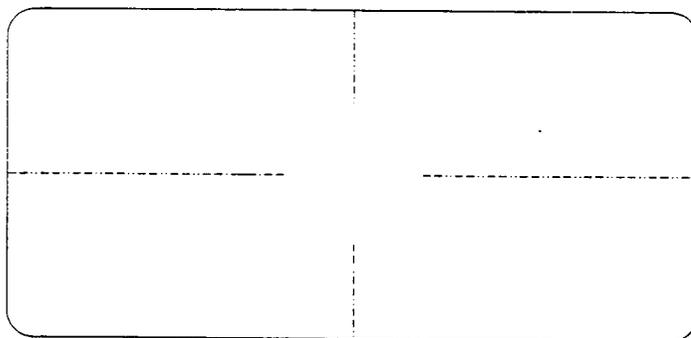


**PASSENGER AIR BAG DAMAGE AND CONTACT SKETCHES**

**1. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Front)**



**2. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Back)**

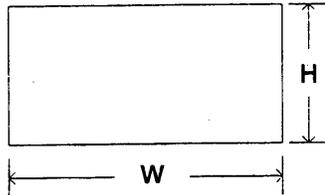


**PASSENGER AIR BAG SKETCHES (Cont'd)**

**3. PASSENGER AIR BAG MODULE COVER FLAP SIZE (SINGLE)**

width (W) \_\_\_\_\_

height (H) \_\_\_\_\_



**4. PASSENGER AIR BAG MODULE COVER FLAP SIZE (DOUBLE)**

a. Upper Flap

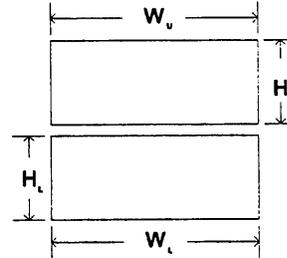
b. Lower Flap

width ( $W_U$ ) \_\_\_\_\_

width ( $W_L$ ) \_\_\_\_\_

height ( $H_U$ ) \_\_\_\_\_

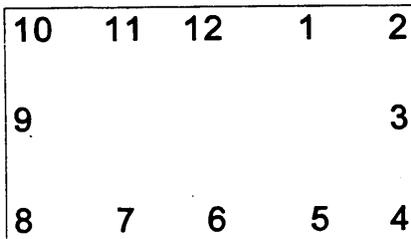
height ( $H_L$ ) \_\_\_\_\_



**5. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP AND SIZE**

**6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS**

**7. SKETCH LOCATION OF RECTANGULAR AIR BAG VENT PORTS**



**"OTHER" AIR BAG DAMAGE AND CONTACT SKETCHES**

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Front)

2. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Back)

**"OTHER" AIR BAG SKETCHES (Cont'd)**

3. SKETCH AIR BAG MODULE FLAP AND SIZE OR OPENING FOR AIRBAG

4. SKETCH AIR BAG VENT PORTS

**HEAD RESTRAINTS/SEAT EVALUATION**

**NOTES:** Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
<b>F I R S T</b>	A-Head Restraint Type/Damage	3	0	3
	B-Seat Type	04	04	04
	C-Seat Orientation	1	1	1
	D-Seat Track Position	5	5	5
	E-Seat Back Incline Pre/Post Impact	23	0	22 (Post-Crash)
	F-Seat Performance	1	1	1
<b>S E C O N D</b>	A-Head Restraint Type/Damage	0	0	0
	B-Seat Type	04	04	04
	C-Seat Orientation	0	0	1
	D-Seat Track Position	0	0	1
	E-Seat Back Incline Pre/Post Impact	0	0	01
	F-Seat Performance	0	0	1
<b>T H I R D</b>	A-Head Restraint Type/Damage			
	B-Seat Type			
	C-Seat Orientation			
	D-Seat Track Position			
	E-Seat Back Incline Pre/Post Impact			
	F-Seat Performance			
<b>O T H E R</b>	A-Head Restraint Type/Damage			
	B-Seat Type			
	C-Seat Orientation			
	D-Seat Track Position			
	E-Seat Back Incline Pre/Post Impact			
	F-Seat Performance			

**DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE  
(I.E., UNUSUAL OCCUPANT CONTACT PATTERN)**

**HEAD RESTRAINTS/SEAT EVALUATION**

**A-Head Restraint Type/Damage by Occupant at This Occupant Position**

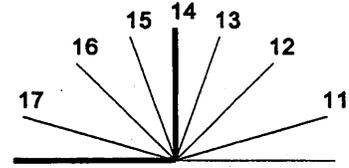
- (0) No head restraints
  - (1) Integral — no damage
  - (2) Integral — damaged during accident
  - (3) Adjustable — no damage
  - (4) Adjustable — damaged during accident
  - (5) Add-on — no damage
  - (6) Add-on — damaged during accident
  - (8) Other
  - (9) Unknown
- Specify: \_\_\_\_\_

**E-Seat Back Incline Prior and Post Impact**

- (00) Occupant not seated or no seat
- (01) Not adjustable

*Upright prior to impact*

- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

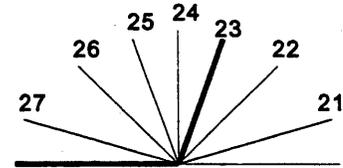


**B-Seat Type (this Occupant Position)**

- (00) Occupant not seated or no seat
- (01) Bucket
- (02) Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions
- (05) Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., column supported)
- (09) Box mounted seat (i.e., van type)
- (10) Other seat type (specify): \_\_\_\_\_
- (99) Unknown

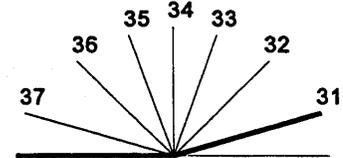
*Slightly reclined prior to impact*

- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position



*Completely reclined prior to impact*

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position



**C-Seat Orientation (this Occupant Position)**

- (0) Occupant not seated or no seat
- (1) Forward facing seat
- (2) Rear facing seat
- (3) Side facing seat (inward)
- (4) Side facing seat (outward)
- (8) Other (specify): \_\_\_\_\_
- (9) Unknown

- (99) Unknown

**D-Seat Track Adjusted Position Prior To Impact**

- (0) Occupant not seated or no seat
- (1) Non-adjustable seat track

*Adjustable Seat Track*

- (2) Seat at forward most track position
- (3) Seat between forward most and middle track positions
- (4) Seat at middle track position
- (5) Seat between middle and rear most track positions
- (6) Seat at rear most track position
- (9) Unknown

**F-Seat Performance (this Occupant Position)**

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed (specify): \_\_\_\_\_
- (4) Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify): \_\_\_\_\_
- (7) Combination of above (specify): \_\_\_\_\_
- (8) Other (specify): \_\_\_\_\_
- (9) Unknown

Coding diagrams for *Seat Back Incline Position Prior and Post Impact*

## CHILD SAFETY SEAT FIELD ASSESSMENT

When a child safety seat is present enter the occupant's number in the first row and complete the column below the occupant's number using the codes listed below. Complete a column for each child safety seat present.

Occupant Number						
1. Type of Child Safety Seat						
2. Child Safety Seat Orientation						
3. Child Safety Seat Harness Usage						
4. Child Safety Seat Shield Usage						
5. Child Safety Seat Tether Usage						
6. Child Safety Seat Make/Model	Specify Below for Each Child Safety Seat					

**1. Type of Child Safety Seat**

- (0) No child safety seat
- (1) Infant seat
- (2) Toddler seat
- (3) Convertible seat
- (4) Booster seat
- (7) Other type child safety seat (specify): \_\_\_\_\_
- (8) Unknown child safety seat type
- (9) Unknown if child safety seat used

**2. Child Safety Seat Orientation**

- (00) No child safety seat
- Designed for Rear Facing for This Age/Weight
- (01) Rear facing
- (02) Forward facing
- (08) Other orientation (specify): \_\_\_\_\_
- (09) Unknown orientation

- Designed for Forward Facing for This Age/Weight
- (11) Rear facing
- (12) Forward facing
- (18) Other orientation (specify): \_\_\_\_\_
- (19) Unknown orientation

- Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight
- (21) Rear facing
- (22) Forward facing
- (28) Other orientation (specify): \_\_\_\_\_
- (29) Unknown orientation
- (99) Unknown if child safety seat used

**3. Child Safety Seat Harness Usage**

**4. Child Safety Seat Shield Usage**

**5. Child Safety Seat Tether Usage**  
 Note: Options Below Are Used for Variables 3-5.  
 (00) No child safety seat

- Not Designed with Harness/Shield/Tether
- (01) After market harness/shield/tether added, not used
- (02) After market harness/shield/tether used
- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used

- Designed With Harness/Shield/Tether
- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

- Unknown If Designed With Harness/Shield/Tether
- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used

- (99) Unknown if child safety seat used

**6. Child Safety Seat Make/Model**  
 (Specify make/model and occupant number)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**EJECTION/ENTRAPMENT DATA**

Complete the following if the researcher has any indication that an occupant was either ejected from or entrapped in the vehicle. Code the appropriate data on the Occupant Assessment Form.

**EJECTION** No [  ] Yes [  ]

Describe indications of ejection and body parts involved in partial ejection(s):

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Occupant Number						
Ejection						
(Note on Vehicle Interior Sketch) Ejection Area						
Ejection Medium						
Medium Status						

**Ejection**

- (1) Complete ejection
- (2) Partial ejection
- (3) Ejection, Unknown degree
- (9) Unknown

**Ejection Area**

- (1) Windshield
- (2) Left front
- (3) Right front
- (4) Left rear
- (5) Right rear
- (6) Rear

(7) Roof

(8) Other area (e.g., back of pickup, etc.) (specify):

(9) Unknown

**Ejection Medium**

- (1) Door/hatch/tailgate
- (2) Nonfixed roof structure
- (3) Fixed glazing
- (4) Nonfixed glazing (specify):

(5) Integral structure

(8) Other medium (specify):

(9) Unknown

**Medium Status (Immediately Prior to Impact)**

- (1) Open
- (2) Closed
- (3) Integral structure
- (9) Unknown

**ENTRAPMENT** No [  ] Yes [  ]

Describe entrapment mechanism: HEAD CAUGHT BETWEEN DOWNWARD  
ROOF - INWARD WINDSHIELD FRAME & INWARD LEFT  
DOOR WINDOW FRAME -  
CAR WENT UNDER A FLATBED TRAILER FROM THE  
SIDE.

Component(s): ROOF, WINDSHIELD HEADER, LEFT DOOR  
WINDOW FRAME

(Note on vehicle interior sketch)

# OCCUPANT ASSESSMENT FORM

NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

- 1. Primary Sampling Unit Number 45
- 2. Case Number - Stratum 053B
- 3. Vehicle Number 02
- 4. Occupant Number 01

## OCCUPANT'S CHARACTERISTICS

- 5. Occupant's Age 37  
Code actual age at time of accident.  
(00) Less than one year old (specify by month):  
  
(97) 97 years and older  
(99) Unknown

- 6. Occupant's Sex 2
  - (1) Male
  - (2) Female-not reported pregnant
  - (3) Female-pregnant-1st trimester(1st-3rd month)
  - (4) Female-pregnant-2nd trimester(4th-6th month)
  - (5) Female-pregnant-3rd trimester(7th-9th month)
  - (6) Female-pregnant-term unknown
  - (9) Unknown

- 7. Occupant's Height 173  
Code actual height to the nearest centimeter.  
(999) Unknown  
  
68 inches X 2.54 = 173 centimeters

- 8. Occupant's Weight 066  
Code actual weight to the nearest kilogram.  
(999) Unknown  
  
125 pounds X .4536 = 066 kilograms

- 9. Occupant's Role 1
  - (1) Driver
  - (2) Passenger
  - (9) Unknown

## OCCUPANT'S SEATING

- 10. Occupant's Seat Position 11  
*Front Seat*
  - (11) Left side
  - (12) Middle
  - (13) Right side
  - (14) Other (specify): \_\_\_\_\_
  - (15) On or in the lap of another occupant

- Second Seat*
  - (21) Left side
  - (22) Middle
  - (23) Right side
  - (24) Other (specify): \_\_\_\_\_
  - (25) On or in the lap of another occupant

- Third Seat*
  - (31) Left side
  - (32) Middle
  - (33) Right side
  - (34) Other (specify): \_\_\_\_\_
  - (35) On or in the lap of another occupant

- Fourth Seat*
  - (41) Left side
  - (42) Middle
  - (43) Right side
  - (44) Other (specify): \_\_\_\_\_
  - (45) On or in the lap of another occupant

- (97) In or on unenclosed area
- (98) Other seat (specify): \_\_\_\_\_
- (99) Unknown

- 11. Occupant's Posture 9
  - (0) Normal posture
  - Abnormal posture*
    - (1) Kneeling or standing on seat
    - (2) Lying on or across seat
    - (3) Kneeling, standing or sitting in front of seat
    - (4) Sitting sideways or turned to talk with another occupant or to look out a rear window
    - (5) Sitting on a console
    - (6) Lying back in a reclined seat position
    - (7) Bracing with feet or hands on a surface in front of seat
    - (8) Other abnormal posture (specify): \_\_\_\_\_
    - (9) Unknown

## EJECTION/ENTRAPMENT

12. Ejection 0

- (0) No ejection
- (1) Complete ejection
- (2) Partial ejection
- (3) Ejection, unknown degree
- (9) Unknown

13. Ejection Area 0

- (0) No ejection
- (1) Windshield
- (2) Left front
- (3) Right front
- (4) Left rear
- (5) Right rear
- (6) Rear
- (7) Roof
- (8) Other area (e.g., back of pickup, etc.)  
(specify): \_\_\_\_\_
- (9) Unknown

14. Ejection Medium 0

- (0) No ejection
- (1) Door/hatch/tailgate
- (2) Nonfixed roof structure
- (3) Fixed glazing
- (4) Nonfixed glazing (specify):  
\_\_\_\_\_
- (5) Integral structure
- (8) Other medium (specify):  
\_\_\_\_\_
- (9) Unknown

15. Medium Status (Immediately Prior To Impact) 0

- (0) No ejection
- (1) Open
- (2) Closed
- (3) Integral structure
- (9) Unknown

16. Entrapment 1

- (0) Not entrapped/exit not inhibited
- (1) Entrapped/pinned - mechanically restrained
- (2) Could not exit vehicle due to jammed doors,  
fire, etc.  
(specify): \_\_\_\_\_
- (9) Unknown

17. Occupant Mobility 0

- (0) Occupant fatal before removed from  
vehicle
- (1) Removed from vehicle while unconscious or  
not oriented to time or place
- (2) Removed from vehicle due to perceived  
serious injuries
- (3) Exited vehicle with some assistance
- (4) Exited vehicle under own power
- (5) Occupant fully ejected
- (8) Removed from vehicle for other reasons  
(specify): \_\_\_\_\_
- (9) Unknown

## BELT SYSTEM FUNCTION

18. Manual (Active) Belt System Availability 4

- (0) None available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available—type unknown

*Integral Belt Partially Destroyed*

- (6) Shoulder belt (lap belt destroyed/removed)
- (7) Lap belt (shoulder belt destroyed/removed)
- (8) Other belt (specify):

(9) Unknown19. Manual (Active) Belt System Use 04

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperative (specify):

- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used—type unknown
- (08) Other belt used (specify):

- (12) Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat—type unknown
- (18) Other belt used with child safety seat (specify):

(99) Unknown if belt used20. Proper Use of Manual (Active) Belts 91

- (0) None used or not available
- (1) Belt used properly
- (2) Belt used properly with child safety seat

*Belt Used Improperly*

- (3) Shoulder belt worn under arm
- (4) Shoulder belt worn behind back or seat
- (5) Belt worn around more than one person
- (6) Lap belt worn on abdomen
- (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):

(8) Other improper use of manual belt system (specify):(9) Unknown21. Manual (Active) Belt Failure Modes During Accident 1

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):

(6) Broken retractor(7) Combination of above (specify):(8) Other manual belt failure (specify):(9) Unknown22. Manual Shoulder Belt Upper Anchorage Adjustment 1

- (0) No manual shoulder belt
- (1) No upper anchorage adjustment for manual shoulder belt

*Adjustable shoulder Belt Upper Anchorage*

- (2) In full up position
- (3) In mid position
- (4) In full down position
- (5) Position unknown
- (9) Unknown if position has adjustable upper anchorage adjustment

23. Automatic (Passive) Belt System Availability/Function 0

- (0) Not equipped/not available
- (1) 2 point automatic belts
- (2) 3 point automatic belts
- (3) Automatic belts - type unknown

*Non-functional*

- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

24. Automatic (Passive) Belt System Use 0

- (0) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify):
- (3) Automatic belt use unknown
- (9) Unknown

25. Automatic (Passive) Belt System Type 0

- (0) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system
- (9) Unknown

26. Proper Use of Automatic (Passive) Belt System 0

- (0) Not equipped/not available/not used
- (1) Automatic belt used properly
- (2) Automatic belt used properly with child safety seat

*Automatic Belt Used Improperly*

- (3) Automatic shoulder belt worn under arm
- (4) Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or

automatic shoulder belt used improperly with child safety seat (specify):(8) Other improper use of automatic belt system (specify):(9) Unknown27. Automatic (Passive) Belt Failure Modes During Accident 0

- (0) Not equipped/not available/not in use
- (1) No automatic belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):

(6) Broken retractor(7) Combination of above (specify):(8) Other automatic belt failure (specify):(9) Unknown

**POLICE REPORTED RESTRAINT USE**

**AIR BAG SYSTEM FUNCTION**

28. Police Reported Belt Use 5
- (0) None used
  - (1) Police did not indicate belt use
  - (2) Shoulder belt
  - (3) Lap belt
  - (4) Lap and shoulder belt
  - (5) Belt used, type not specified
  - (6) Child safety seat
  - (7) Automatic belt
  - (8) Other type belt, (specify):

(9) Police indicated "unknown"

29. Police Reported Air Bag Availability/Function 1
- (0) No air bag available
  - (1) Police did not indicate air bag availability/function
  - (2) Deployed
  - (3) Not deployed
  - (4) Unknown if deployed
  - (9) Police indicated "unknown"

Check the Primary Source Used In Determining Belt Use.

- Vehicle inspection
- Official injury data
- Driver/occupant interview
- Other (specify):
- Unknown if belt used

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

30. Frontal Air Bag System Availability/Function (This Occupant Position) 1
- (0) Not equipped/not available
  - (1) Air bag
- Non-functional*
- (2) Air bag disconnected (specify):
  - (3) Air bag not reinstalled
  - (9) Unknown

31. Frontal Air Bag System Deployment (This Occupant Position) 7
- (0) Not equipped/not available
  - (1) Deployed during accident (as a result of impact)
  - (2) Deployed inadvertently just prior to accident
  - (3) Deployed, details unknown
  - (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
  - (5) Unknown if deployed
  - (7) Nondeployed
  - (9) Unknown

32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) 0
- (0) Not equipped/not available
  - (1) Air bag
- Non-functional*
- (2) Air bag disconnected (specify):
  - (3) Air bag not reinstalled
  - (9) Unknown
- Specify type of "other" air bag present:*
- \_\_\_\_\_

33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) 0
- (0) Not equipped with an "other" air bag
  - (1) Deployed during accident (as a result of impact)
  - (2) Deployed inadvertently just prior to accident
  - (3) Deployed, details unknown
  - (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
  - (5) Unknown if deployed
  - (7) Nondeployed
  - (9) Unknown

34. Are There Indications of Air Bag System Failure? (This Occupant Position) 1
- (0) Not equipped/not available
  - (1) No
  - (2) Yes (specify):
  - (9) Unknown

## FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION

35. Had Vehicle Been in Previous Accident(s)? 1

- (0) Not equipped/not available  
 (1) No previous accidents

Yes

- (2) Previous accident(s) without deployment(s)  
 (3) One previous accident with deployment  
 (4) More than one previous accident with at least one deployment  
 (8) Previous accidents, unknown deployment status  
 (9) Unknown

36. Type of Air Bag 1

- (0) Not equipped/not available  
 (1) Original manufacturer installed system  
 (2) Retrofitted air bag  
 (3) Replacement air bag  
 (8) Unknown type of air bag  
 (9) Unknown

37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? 1

- (0) Not equipped/not available  
 (1) No prior maintenance  
 (2) Yes, prior maintenance (specify):  
 \_\_\_\_\_  
 (9) Unknown

38. Air Bag Deployment Accident Event Sequence Number 97

- (00) Not equipped/not available  
 \_\_\_\_\_ Code the accident event sequence number that initiated the air bag deployment  
 (96) Deployed, unknown event  
 (97) Not deployed  
 (98) Unknown if deployed  
 (99) Unknown

39. CDC For Air Bag Deployment Impact 7

- (0) Not equipped/not available  
 (1) Highest delta V  
 (2) Second highest delta V  
 (3) Other non-coded delta V (specify):  
 \_\_\_\_\_  
 (6) Deployed, unknown event  
 (7) Not deployed  
 (8) Unknown if deployed  
 (9) Unknown

40. Longitudinal Component of Delta V For Air Bag Deployment Impact + 997

- (\_000) Not equipped/not available  
*Code the value of the delta V for the impact that initiated the air bag deployment*  
 (\_996) Deployment, unknown longitudinal Delta V  
 (\_997) Not deployed  
 (\_998) Unknown if deployed  
 (\_999) Unknown

41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? 7

- (0) Not equipped/not available  
 (1) No  
 (2) Yes  
 (3) Deployed, unknown if flap(s) opened at designated tear points  
 (7) Not deployed  
 (8) Unknown if deployed  
 (9) Unknown

42. Were Air Bag Module Cover Flap(s) Damaged? 7

- (0) Not equipped/not available  
 (1) No  
 (2) Yes (specify): \_\_\_\_\_  
 (3) Deployed, unknown if air bag module cover flap(s) damaged  
 (7) Not deployed  
 (8) Unknown if deployed  
 (9) Unknown

43. Was There Damage To The Air Bag? 97

- (00) Not equipped/not available  
 (01) Not damaged

Yes - Air Bag Damage

- (02) Ruptured  
 (03) Cut  
 (04) Torn  
 (05) Holed  
 (06) Burned  
 (07) Abraded  
 (88) Other damage (specify):  
 \_\_\_\_\_

- (95) Damaged, details unknown  
 (96) Deployed, unknown if damaged  
 (97) Not deployed  
 (98) Unknown if deployed  
 (99) Unknown

FIRST SEAT FRONTAL AIR BAG SYSTEM  
EVALUATION *continued*

44. Source of Air Bag Damage 97  
 (00) Not equipped/not available  
 (01) Not damaged  
 (02) Object worn by occupant, (specify):  
 \_\_\_\_\_  
 (03) Object carried by occupant, (specify):  
 \_\_\_\_\_  
 (04) Adaptive/assistive controls, (specify):  
 \_\_\_\_\_  
 (05) Fire in vehicle  
 (06) Thermal burns  
 (07) Rescue or emergency efforts  
 (88) Other damage source (specify):  
 \_\_\_\_\_  
 (95) Damaged, unknown source  
 (96) Deployed, unknown if damaged  
 (97) Not deployed  
 (98) Unknown if deployed  
 (99) Unknown
45. Was The Air Bag Tethered? 7  
 (0) Not equipped/not available  
 (1) No  
 (2) Yes (specify number of tether straps):  
 \_\_\_\_\_  
 (3) Deployed, unknown if tethered  
 (7) Not deployed  
 (8) Unknown if deployed  
 (9) Unknown
46. Did The Air Bag Have Vent Ports? 7  
 (0) Not equipped/not available  
 (1) No  
 (2) Yes (specify number of vent ports):  
 \_\_\_\_\_  
 (3) Deployed, unknown if vent ports present  
 (7) Not deployed  
 (8) Unknown if deployed  
 (9) Unknown
47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? 7  
 (0) Not equipped/not available  
 (1) No  
 (2) Yes (specify):  
 \_\_\_\_\_  
 (3) Deployed, unknown if other occupant contact to air bag  
 (7) Not deployed  
 (8) Unknown if deployed  
 (9) Unknown
48. Was This Occupant Wearing Eye-wear? 7  
 (0) Not air bag equipped/air bag not available  
 (1) No  
 (2) Eyeglasses/sunglasses  
 (3) Contact lenses  
 (4) Deployed, unknown if eyewear worn  
 (7) Not deployed  
 (8) Unknown if deployed  
 (9) Unknown

## HEAD RESTRAINT AND SEAT EVALUATION

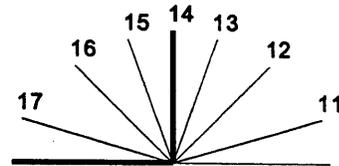
49. Head Restraint Type/Damage by Occupant at This Occupant Position 3  
 (0) No head restraints  
 (1) Integral—no damage  
 (2) Integral—damaged during accident  
 (3) Adjustable—no damage  
 (4) Adjustable—damaged during accident  
 (5) Add-on—no damage  
 (6) Add-on—damaged during accident  
 (8) Other (specify):  
 \_\_\_\_\_  
 (9) Unknown
50. Seat Type (this Occupant Position) 06  
 (00) Occupant not seated or no seat  
 (01) Bucket  
 (02) Bucket with folding back  
 (03) Bench  
 (04) Bench with separate back cushions  
 (05) Bench with folding back(s)  
 (06) Split bench with separate back cushions  
 (07) Split bench with folding back(s)  
 (08) Pedestal (i.e., column supported)  
 (09) Box mounted seat (i.e., van type)  
 (10) Other seat type (specify):  
 \_\_\_\_\_  
 (99) Unknown
51. Seat Orientation (this Occupant Position) 1  
 (0) Occupant not seated or no seat  
 (1) Forward facing seat  
 (2) Rear facing seat  
 (3) Side facing seat (inward)  
 (4) Side facing seat (outward)  
 (8) Other (specify):  
 \_\_\_\_\_  
 (9) Unknown
52. Seat Track Adjusted Position Prior To Impact 5  
 (0) Occupant not seated or no seat  
 (1) Non-adjustable seat track
- Adjustable Seat Track*  
 (2) Seat at forward most track position  
 (3) Seat between forward most and middle track positions  
 (4) Seat at middle track position  
 (5) Seat between middle and rear most track positions  
 (6) Seat at rear most track position  
 (9) Unknown

**HEAD RESTRAINT AND SEAT EVALUATION** *continued*

53. Seat Back Incline Prior and Post Impact 23  
 (00) Occupant not seated or no seat  
 (01) Not adjustable

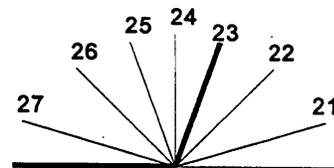
***Upright prior to impact***

- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position



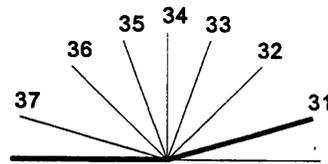
***Slightly reclined prior to impact***

- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position



***Completely reclined prior to impact***

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position



(99) Unknown

54. Seat Performance (this Occupant Position) 1  
 (0) Occupant not seated or no seat

- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed (specify): \_\_\_\_\_
- (4) Seat track/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion, (specify): \_\_\_\_\_
- (7) Combination of above (specify): \_\_\_\_\_
- (8) Other (specify): \_\_\_\_\_
- (9) Unknown

## CHILD SAFETY SEAT

55. Child Safety Seat Make/Model 000  
 (000) No child safety seat  
 Applicable codes are found in your NASS CDS  
 Data Collection, Coding and Editing  
 (950) Built-in child safety seat  
 (997) Other make/model (specify):  
 \_\_\_\_\_  
 (998) Unknown make/model  
 (999) Unknown if child safety seat used

56. Type of Child Safety Seat 0  
 (0) No child safety seat  
 (1) Infant seat  
 (2) Toddler seat  
 (3) Convertible seat  
 (4) Booster seat - with shield  
 (5) Booster seat - without shield  
 (7) Other type child safety seat (specify):  
 \_\_\_\_\_  
 (8) Unknown child safety seat type  
 (9) Unknown if child safety seat used

57. Child Safety Seat Orientation 00  
 (00) No child safety seat  
  
*Designed for Rear Facing for This Age/Weight*  
 (01) Rear facing  
 (02) Forward facing  
 (08) Other orientation (specify):  
 \_\_\_\_\_  
 (09) Unknown orientation  
  
*Designed For Forward Facing for This Age/Weight*  
 (11) Rear facing  
 (12) Forward facing  
 (18) Other orientation (specify):  
 \_\_\_\_\_  
 (19) Unknown orientation  
  
*Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight*  
 (21) Rear facing  
 (22) Forward facing  
 (28) Other orientation (specify):  
 \_\_\_\_\_  
 (29) Unknown orientation  
  
 (99) Unknown if child safety seat used

58. Child Safety Seat Harness Usage 00

59. Child Safety Seat Shield Usage 00

60. Child Safety Seat Tether Usage 00

Note: Options below applicable to  
 Variables OA58-OA60.

(00) No child safety seat

*Not Designed With Harness/Shield/Tether*

(01) After market harness/shield/tether  
 added, not used

(02) After market harness/shield/tether used

(03) Child safety seat used, but no after market  
 harness/shield/tether added

(09) Unknown if harness/shield/tether  
 added or used

*Designed With Harness/Shield/Tether*

(11) Harness/shield/tether not used

(12) Harness/shield/tether used

(19) Unknown if harness/shield/tether used

*Unknown If Designed With Harness/Shield/Tether*

(21) Harness/shield/tether not used

(22) Harness/shield/tether used

(29) Unknown if harness/shield/tether used

(99) Unknown if child safety seat used

**INJURY CONSEQUENCES**61. Injury Severity (Police Rating) 4

- (0) O - No injury
- (1) C - Possible injury
- (2) B - Nonincapacitating injury
- (3) A - Incapacitating injury
- (4) K - Killed
- (5) U - Injury, severity unknown
- (6) Died prior to accident
- (9) Unknown

62. Treatment - Mortality 1

- (0) No treatment
- (1) Fatal
- (2) Fatal - ruled disease (specify):  
\_\_\_\_\_

*Nonfatal*

- (3) Hospitalization
- (4) Transported and released
- (5) Treatment at scene - nontransported
- (6) Treatment later
- (7) Treatment - other (specify):  
\_\_\_\_\_
- (8) Transported to a medical facility-unknown if treated
- (9) Unknown

63. Type Of Medical Facility (for Initial Treatment) 0 X

- (0) Not treated at a medical facility
- (1) Trauma center
- (2) Hospital
- (3) Medical clinic
- (4) Physician's office
- (5) Treatment later at medical facility
- (8) Other (specify):  
\_\_\_\_\_
- (9) Unknown

64. Hospital Stay 00

- (00) Not Hospitalized
- \_\_\_\_\_ Code the number of days (up through 60) that the occupant stayed in hospital.
- (61) 61 days or more
- (99) Unknown

65. Working Days Lost 62

- \_\_\_\_\_ Code the number of days (up through 60) that the occupant lost from work due to the accident
- (00) No working days lost
- (61) 61 days or more
- (62) Fatally injured
- (97) Not working prior to accident
- (99) Unknown

**STOP WORK HERE****VARIABLES 66-74****TO BE CODED BY THE ZONE CENTER**

**TO BE CODED BY THE ZONE CENTER****INJURY CONSEQUENCES****TRAUMA DATA**

66. Time to Death 01  
 \_\_\_\_\_ Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, ... n days = 30 + n up through 30 days = 60)  
 (00) Not fatal  
 (96) Fatal - ruled disease  
 (99) Unknown

67. 1st Medically Reported Cause of Death 99

68. 2nd Medically Reported Cause of Death 00

69. 3rd Medically Reported Cause of Death 00

\_\_\_\_\_ Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death  
 (00) Not fatal or no additional causes  
 (96) Mode of death given but specific injuries are not linked to cause of death. (specify):

(97) \_\_\_\_\_ Other result (includes fatal ruled disease) (specify):

(99) \_\_\_\_\_ Unknown

70. Number of Recorded Injuries for This Occupant 01

\_\_\_\_\_ Code the actual number of injuries recorded for this occupant.  
 (00) No recorded injuries  
 (97) Injured, details unknown  
 (99) Unknown if injured

71. Glasgow Coma Scale (GCS) Score 01  
 (at Medical Facility)  
 (00) Not injured  
 (01) Injured - not treated at medical facility  
 (02) No GCS Score at medical facility  
 (03-15) Code the actual value of the initial GCS Score recorded at medical facility.  
 (97) Injured, details unknown  
 (99) Unknown if injured

72. Was the Occupant Given Blood? 1  
 (1) No - blood not given  
 (2) Yes - blood given  
 (specify units): \_\_\_\_\_  
 (9) Unknown if blood given

73. Arterial Blood Gases (ABG) - HCO<sub>3</sub> 01  
 (00) Not injured  
 (01) Injured, ABGs not measured or reported  
 (02-50) Code the actual value of the HCO<sub>3</sub>  
 (96) ABGs reported, HCO<sub>3</sub> unknown  
 (97) Injured, details unknown  
 (99) Unknown if injured

**BELT USE DETERMINATION**

74. Primary Source of Belt Use Determination 1  
 (0) Not equipped/not available/destroyed or rendered inoperative  
 (1) Vehicle inspection  
 (2) Official injury data  
 (3) Driver/occupant interview  
 (8) Other (specify): \_\_\_\_\_  
 (9) Unknown if belt used



# OCCUPANT INJURY FORM

1. Primary Sampling Unit Number <u>45</u>	3. Vehicle Number <u>02</u>
2. Case Number - Stratum <u>053B</u>	4. Occupant Number <u>01</u>

## INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

	Source of Injury Data	A.I.S. - 90						Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion Number	
		Body Region	Type of Anatomic Structure		Level of Injury	A.I.S. Severity	Aspect				
			Anatomic Structure	Specific Anatomic Structure							
1st	5. <u>7</u>	6. <u>1</u>	7. <u>1</u>	8. <u>50</u>	9. <u>49</u>	10. <u>7</u>	11. <u>0</u>	12. <u>054</u>	13. <u>2</u>	14. <u>1</u>	15. <u>00</u>
2nd	16. ___	17. ___	18. ___	19. ___	20. ___	21. ___	22. ___	23. ___	24. ___	25. ___	26. ___
3rd	27. ___	28. ___	29. ___	30. ___	31. ___	32. ___	33. ___	34. ___	35. ___	36. ___	37. ___
4th	38. ___	39. ___	40. ___	41. ___	42. ___	43. ___	44. ___	45. ___	46. ___	47. ___	48. ___
5th	49. ___	50. ___	51. ___	52. ___	53. ___	54. ___	55. ___	56. ___	57. ___	58. ___	59. ___
6th	60. ___	61. ___	62. ___	63. ___	64. ___	65. ___	66. ___	67. ___	68. ___	69. ___	70. ___
7th	71. ___	72. ___	73. ___	74. ___	75. ___	76. ___	77. ___	78. ___	79. ___	80. ___	81. ___
8th	82. ___	83. ___	84. ___	85. ___	86. ___	87. ___	88. ___	89. ___	90. ___	91. ___	92. ___
9th	93. ___	94. ___	95. ___	96. ___	97. ___	98. ___	99. ___	100. ___	101. ___	102. ___	103. ___
10th	104. ___	105. ___	106. ___	107. ___	108. ___	109. ___	110. ___	111. ___	112. ___	113. ___	114. ___



**OCCUPANT INJURY CLASSIFICATION**

Body Region	Specific Anatomic Structure	Level of Injury	Aspect
(1) Head		Specific injuries are assigned consecutive two-digit numbers beginning with 02.  To the extent possible, within the organizational framework of the AIS, 00 is assigned to an injury NFS as to severity or where only one injury is given in the dictionary for that anatomic structure. 99 is assigned to any injury NFS as to lesion or severity.	(1) Right
(2) Face			(2) Left
(3) Neck			(3) Bilateral
(4) Thorax			(4) Central
(5) Abdomen			(5) Anterior
(6) Spine			(6) Posterior
(7) Upper Extremity			(7) Superior
(8) Lower Extremity			(8) Inferior
(9) Unspecified			(9) Unknown
			(0) Whole region
	<u>Vessels, Nerves, Organs, Bones, Joints</u> are assigned consecutive two digit numbers beginning with 02.		
	The exceptions to this rule apply to:		
<b>Type of Anatomic Structure</b>	<u>Whole Area</u>		
(1) Whole Area	(02) Skin - Abrasion		
(2) Vessels	(04) Skin - Contusion		
(3) Nerves	(06) Skin - Laceration		
(4) Organs (includes Muscles/ligaments)	(08) Skin - Avulsion		
(5) Skeletal (includes joints)	(10) Amputation		
(6) Head - LOC	(20) Burn		
(9) Skin	(30) Crush		
	(40) Degloving		
	(50) Injury - NFS		
	(90) Trauma, other than mechanical		
	<u>Head - LOC</u>		
	(02) Length of LOC		
	(04) Level		
	(06) of		
	(08) Consciousness		
	(10) Concussion		
	<u>Spine</u>		
	(02) Cervical		
	(04) Thoracic		
	(06) Lumbar		
		<b>Abbreviated Injury Scale</b>	
		(1) Minor Injury	
		(2) Moderate Injury	
		(3) Serious Injury	
		(4) Severe Injury	
		(5) Critical Injury	
		(6) Maximum (untreatable)	
		(7) Injured, unknown severity	

**SOURCE OF INJURY DATA**

**INJURY SOURCE**

**DIRECT/INDIRECT INJURY**

OFFICIAL RECORDS

- (1) Autopsy records with or without hospital/medical records
- (2) Hospital/medical records other than emergency room (e.g., discharge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- (4) Private physician, walk-in or emergency clinic

UNOFFICIAL RECORDS

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) Other source (specify): \_\_\_\_\_
- (9) Police

**CONFIDENCE LEVEL**

- (1) Certain
- (2) Probable
- (3) Possible
- (9) Unknown

- (1) Direct contact injury
- (2) Indirect contact injury
- (3) Noncontact injury
- (7) Injured, unknown source

## INJURY SOURCES

### FRONT

- (001) Windshield
- (002) Mirror
- (003) Sunvisor
- (004) Steering wheel rim
- (005) Steering wheel hub/spoke
- (006) Steering wheel (combination of codes 004 and 005)
- (007) Steering column, transmission selector lever, other attachment
- (008) Cellular telephone or CB radio
- (009) Add on equipment (e.g., tape deck, air conditioner)
- (010) Left instrument panel and below
- (011) Center instrument panel and below
- (012) Right instrument panel and below
- (013) Glove compartment door
- (014) Knee bolster
- (015) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (016) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, or mirror (passenger side only)
- (017) Windshield reinforced by exterior object (specify): \_\_\_\_\_
- (019) Other front object (specify): \_\_\_\_\_

### LEFT SIDE

- (051) Left side interior surface, excluding hardware or armrests
- (052) Left side hardware or armrest
- (053) Left A (A1/A2)-pillar
- (054) Left B-pillar
- (055) Other left pillar (specify): \_\_\_\_\_
- (056) Left side window glass
- (057) Left side window frame
- (058) Left side window sill
- (059) Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.
- (060) Other left side object (specify): \_\_\_\_\_

### RIGHT SIDE

- (101) Right side interior surface, excluding hardware or armrests

- (102) Right side hardware or armrest
- (103) Right A (A1/A2)-pillar
- (104) Right B-pillar
- (105) Other right pillar (specify): \_\_\_\_\_
- (106) Right side window glass
- (107) Right side window frame
- (108) Right side window sill
- (109) Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.
- (110) Other right side object (specify): \_\_\_\_\_

### INTERIOR

- (151) Seat, back support
- (152) Belt restraint webbing/buckle
- (153) Belt restraint B-pillar or door frame attachment point
- (154) Other restraint system component (specify): \_\_\_\_\_
- (155) Head restraint system
- (160) Other occupants (specify): \_\_\_\_\_
- (161) Interior loose objects
- (162) Child safety seat (specify): \_\_\_\_\_
- (163) Other interior object (specify): \_\_\_\_\_

### AIR BAG

- (170) Air bag-driver side
- (171) Air bag-driver side and eyewear
- (172) Air bag-driver side and jewelry
- (173) Air bag-driver side and object held
- (174) Air bag-driver side and object in mouth
- (175) Air bag compartment cover-driver side
- (176) Air bag compartment cover-driver side and eyewear
- (177) Air bag compartment cover-driver side and jewelry
- (178) Air bag compartment cover-driver side and object held
- (179) Air bag compartment cover-driver side and object in mouth
- (180) Air bag-passenger side
- (181) Air bag-passenger side and eyewear
- (182) Air bag-passenger side and jewelry

- (183) Air bag-passenger side and object held
- (184) Air bag-passenger side and object in mouth
- (185) Air bag compartment cover-passenger side
- (186) Air bag compartment cover-passenger side and eyewear
- (187) Air bag compartment cover-passenger side and jewelry
- (188) Air bag compartment cover-passenger side and object held
- (189) Air bag compartment cover-passenger side and object in mouth
- (190) Other air bag (specify): \_\_\_\_\_
- (195) Other air bag compartment cover (specify): \_\_\_\_\_

### ROOF

- (201) Front header
- (202) Rear header
- (203) Roof left side rail
- (204) Roof right side rail
- (205) Roof or convertible top

### FLOOR

- (251) Floor (including toe pan)
- (252) Floor or console mounted transmission lever, including console
- (253) Parking brake handle
- (254) Foot controls including parking brake

### REAR

- (301) Backlight (rear window)
- (302) Backlight storage rack, door, etc.
- (303) Other rear object (specify): \_\_\_\_\_

### ADAPTIVE (ASSISTIVE) DRIVING EQUIPMENT

- (401) Hand controls for braking/acceleration
- (402) Steering control devices (attached to OEM steering wheel)
- (403) Steering knob attached to steering wheel
- (405) Replacement steering wheel (i.e., reduced diameter)
- (406) Joy stick steering controls
- (407) Wheelchair tie-downs
- (408) Modification to seat belts, (specify): \_\_\_\_\_
- (409) Additional or relocated switches, (specify): \_\_\_\_\_
- (410) Raised roof

- (411) Wall mounted head rest (used behind wheel chair)
- (412) Other adaptive device (specify): \_\_\_\_\_

### EXTERIOR of OCCUPANT'S VEHICLE

- (451) Hood
- (452) Outside hardware (e.g., outside mirror, antenna)
- (453) Other exterior surface or tires (specify): \_\_\_\_\_
- (454) Unknown exterior objects

### EXTERIOR OF OTHER MOTOR VEHICLE

- (501) Front bumper
- (502) Hood edge
- (503) Other front of vehicle (specify): \_\_\_\_\_
- (504) Hood
- (505) Hood ornament
- (506) Windshield, roof rail, A-pillar
- (507) Side surface
- (508) Side mirrors
- (509) Other side protrusions (specify): \_\_\_\_\_
- (510) Rear surface
- (511) Undercarriage
- (512) Tires and wheels
- (513) Other exterior of other motor vehicle (specify): \_\_\_\_\_
- (514) Unknown exterior of other motor vehicle

### OTHER VEHICLE OR OBJECT IN THE ENVIRONMENT

- (551) Ground
- (598) Other vehicle or object (specify): \_\_\_\_\_
- (599) Unknown vehicle or object

### NONCONTACT INJURY

- (601) Fire in vehicle
- (602) Flying glass
- (603) Other noncontact injury source (specify): \_\_\_\_\_
- (604) Air bag exhaust gases
- (697) Injured, unknown source

OFFICIAL INJURY DATA — SOFT TISSUE INJURIES

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

Restrained?

No  
 Yes

NR

Blood Alcohol Level (mg/dl)

BAL =

NR

Glasgow Coma Scale Score

GCSS =

DA

Units of Blood Given

Units =

Arterial Blood Gases

pH =

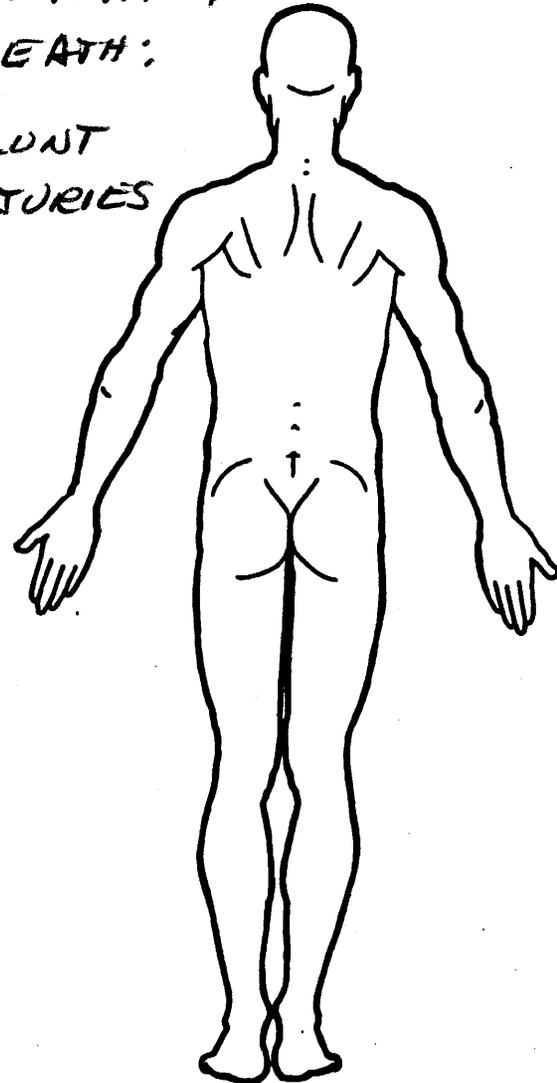
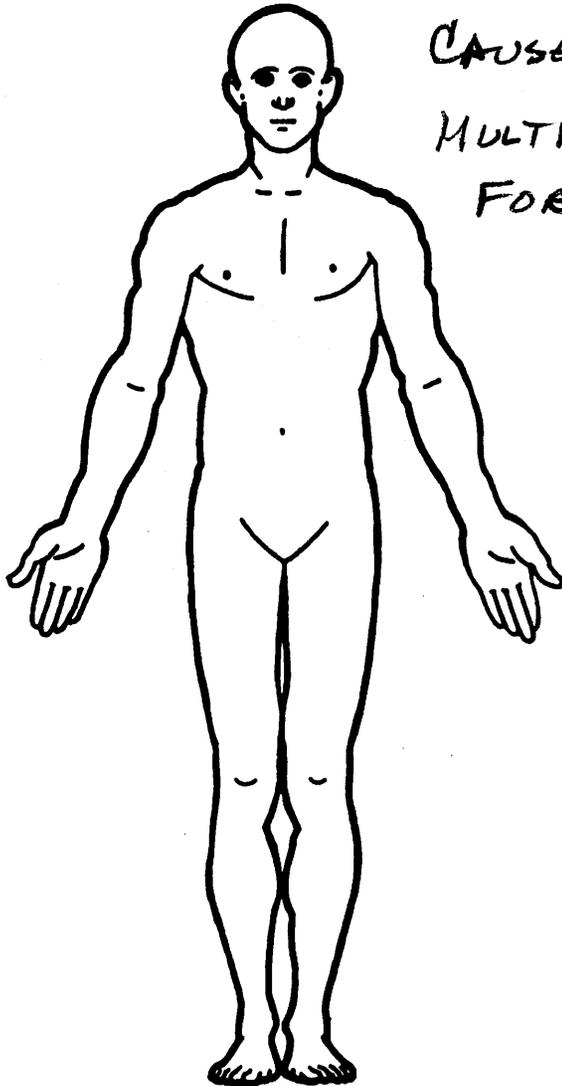
PO<sub>2</sub> =

PCO<sub>2</sub> =

HCO<sub>3</sub> =

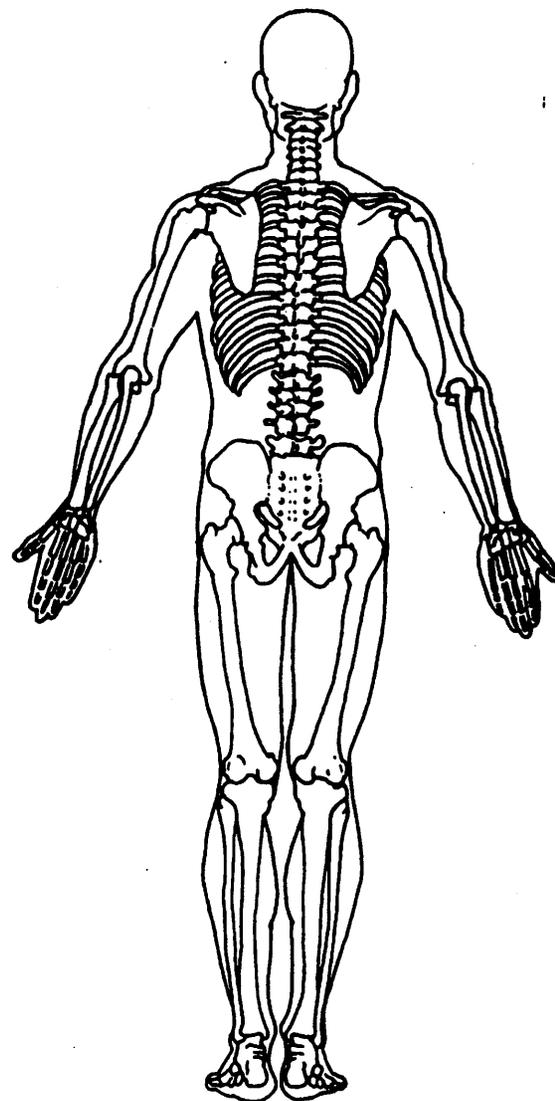
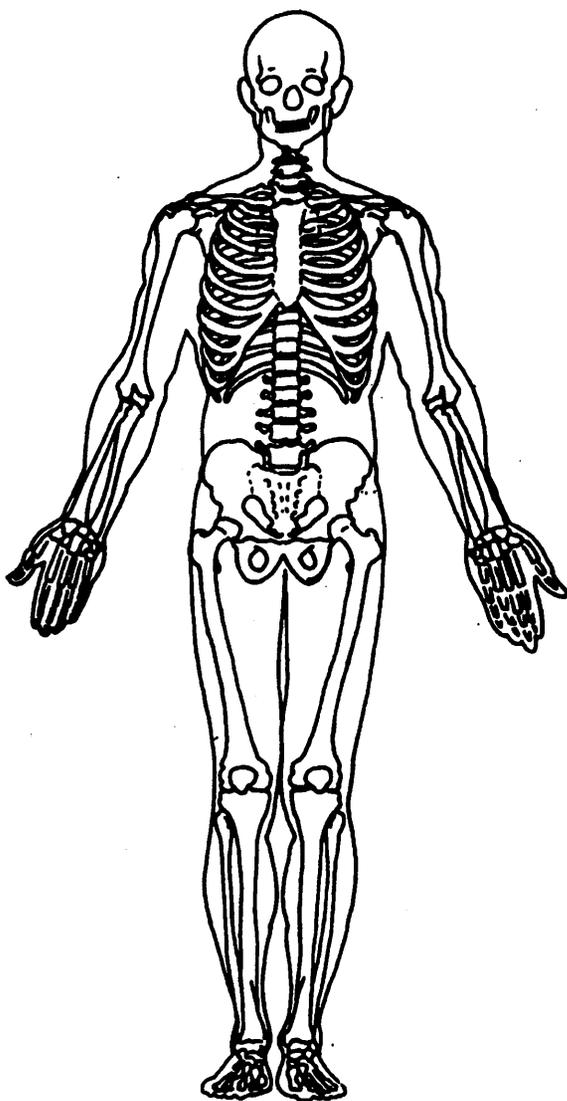
DA

DEATH CERTIFICATE;  
CAUSE OF DEATH:  
MULTIPLE BLUNT  
FORCE INJURIES



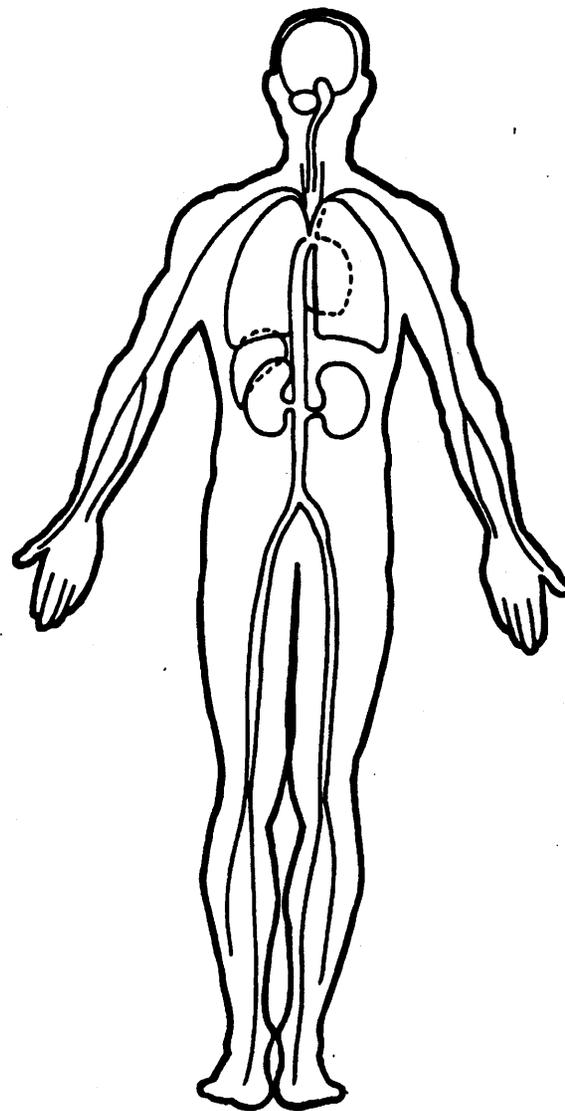
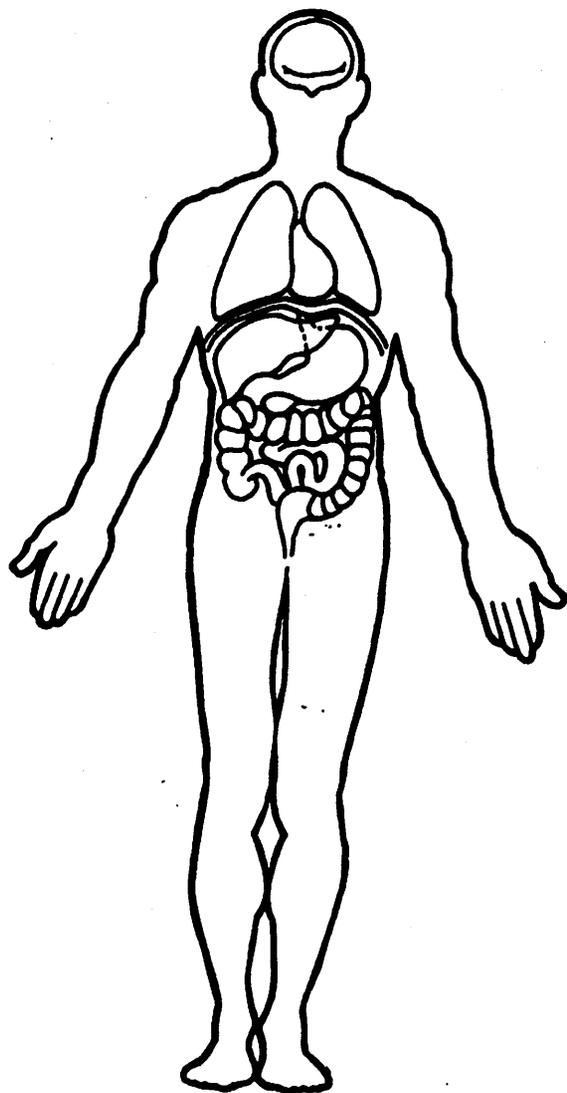
## OFFICIAL INJURY DATA — SKELETAL INJURIES

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



# OFFICIAL INJURY DATA — INTERNAL INJURIES

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





# OCCUPANT ASSESSMENT FORM

1. Primary Sampling Unit Number

45

2. Case Number - Stratum

053B

3. Vehicle Number

02

4. Occupant Number

02

## OCCUPANT'S CHARACTERISTICS

5. Occupant's Age

05

Code actual age at time of accident.

(00) Less than one year old (specify by month):

(97) 97 years and older

(99) Unknown

6. Occupant's Sex

2

(1) Male

(2) Female-not reported pregnant

(3) Female-pregnant-1st trimester(1st-3rd month)

(4) Female-pregnant-2nd trimester(4th-6th month)

(5) Female-pregnant-3rd trimester(7th-9th month)

(6) Female-pregnant-term unknown

(9) Unknown

7. Occupant's Height

999

Code actual height to the nearest centimeter.

(999) Unknown

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

8. Occupant's Weight

018

Code actual weight to the nearest kilogram.

(999) Unknown

40 pounds X .4536 = 018 kilograms

9. Occupant's Role

2

(1) Driver

(2) Passenger

(9) Unknown

## OCCUPANT'S SEATING

10. Occupant's Seat Position

13

*Front Seat*

(11) Left side

(12) Middle

(13) Right side

(14) Other (specify): \_\_\_\_\_

(15) On or in the lap of another occupant

*Second Seat*

(21) Left side

(22) Middle

(23) Right side

(24) Other (specify): \_\_\_\_\_

(25) On or in the lap of another occupant

*Third Seat*

(31) Left side

(32) Middle

(33) Right side

(34) Other (specify): \_\_\_\_\_

(35) On or in the lap of another occupant

*Fourth Seat*

(41) Left side

(42) Middle

(43) Right side

(44) Other (specify): \_\_\_\_\_

(45) On or in the lap of another occupant

(97) In or on unenclosed area

(98) Other seat (specify): \_\_\_\_\_

(99) Unknown

11. Occupant's Posture

9

(0) Normal posture

*Abnormal posture*

(1) Kneeling or standing on seat

(2) Lying on or across seat

(3) Kneeling, standing or sitting in front of seat

(4) Sitting sideways or turned to talk with another occupant or to look out a rear window

(5) Sitting on a console

(6) Lying back in a reclined seat position

(7) Bracing with feet or hands on a surface in front of seat

(8) Other abnormal posture (specify): \_\_\_\_\_

(9) Unknown

## EJECTION/ENTRAPMENT

12. Ejection 0

- (0) No ejection
- (1) Complete ejection
- (2) Partial ejection
- (3) Ejection, unknown degree
- (9) Unknown

13. Ejection Area 0

- (0) No ejection
- (1) Windshield
- (2) Left front
- (3) Right front
- (4) Left rear
- (5) Right rear
- (6) Rear
- (7) Roof
- (8) Other area (e.g., back of pickup, etc.)  
(specify): \_\_\_\_\_
- (9) Unknown

14. Ejection Medium 0

- (0) No ejection
- (1) Door/hatch/tailgate
- (2) Nonfixed roof structure
- (3) Fixed glazing
- (4) Nonfixed glazing (specify):  
\_\_\_\_\_
- (5) Integral structure
- (8) Other medium (specify):  
\_\_\_\_\_
- (9) Unknown

15. Medium Status (Immediately Prior To Impact) 0

- (0) No ejection
- (1) Open
- (2) Closed
- (3) Integral structure
- (9) Unknown

16. Entrapment 0

- (0) Not entrapped/exit not inhibited
- (1) Entrapped/pinned - mechanically restrained
- (2) Could not exit vehicle due to jammed doors,  
fire, etc.  
(specify): \_\_\_\_\_
- (9) Unknown

17. Occupant Mobility 3 \*

- (0) Occupant fatal before removed from  
vehicle
- (1) Removed from vehicle while unconscious or  
not oriented to time or place
- (2) Removed from vehicle due to perceived  
serious injuries
- (3) Exited vehicle with some assistance
- (4) Exited vehicle under own power
- (5) Occupant fully ejected
- (8) Removed from vehicle for other reasons  
(specify): \_\_\_\_\_
- (9) Unknown

\* UNINJURED  
CHILD

## BELT SYSTEM FUNCTION

18. Manual (Active) Belt System Availability 4

- (0) None available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available—type unknown

*Integral Belt Partially Destroyed*

- (6) Shoulder belt (lap belt destroyed/removed)
- (7) Lap belt (shoulder belt destroyed/removed)
- (8) Other belt (specify): \_\_\_\_\_

(9) Unknown19. Manual (Active) Belt System Use 04

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperative (specify): \_\_\_\_\_

- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used—type unknown
- (08) Other belt used (specify): \_\_\_\_\_

- (12) Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat—type unknown
- (18) Other belt used with child safety seat (specify): \_\_\_\_\_
- (99) Unknown if belt used

20. Proper Use of Manual (Active) Belts 9X

- (0) None used or not available
- (1) Belt used properly
- (2) Belt used properly with child safety seat

*Belt Used Improperly*

- (3) Shoulder belt worn under arm
- (4) Shoulder belt worn behind back or seat
- (5) Belt worn around more than one person
- (6) Lap belt worn on abdomen
- (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): \_\_\_\_\_

(8) Other improper use of manual belt system (specify): \_\_\_\_\_(9) Unknown21. Manual (Active) Belt Failure Modes During Accident 1

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify): \_\_\_\_\_

(6) Broken retractor(7) Combination of above (specify): \_\_\_\_\_(8) Other manual belt failure (specify): \_\_\_\_\_(9) Unknown22. Manual Shoulder Belt Upper Anchorage Adjustment 1

- (0) No manual shoulder belt
- (1) No upper anchorage adjustment for manual shoulder belt

*Adjustable Shoulder Belt Upper Anchorage*

- (2) In full up position
- (3) In mid position
- (4) In full down position
- (5) Position unknown
- (9) Unknown if position has adjustable upper anchorage adjustment

23. Automatic (Passive) Belt System Availability/Function 0

- (0) Not equipped/not available
- (1) 2 point automatic belts
- (2) 3 point automatic belts
- (3) Automatic belts - type unknown

*Non-functional*

- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

24. Automatic (Passive) Belt System Use 0

- (0) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): \_\_\_\_\_
- (3) Automatic belt use unknown
- (9) Unknown

25. Automatic (Passive) Belt System Type 0

- (0) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system
- (9) Unknown

26. Proper Use of Automatic (Passive) Belt System 0

- (0) Not equipped/not available/not used
- (1) Automatic belt used properly
- (2) Automatic belt used properly with child safety seat

*Automatic Belt Used Improperly*

- (3) Automatic shoulder belt worn under arm
- (4) Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or

automatic shoulder belt used improperly with child safety seat (specify): \_\_\_\_\_

(8) Other improper use of automatic belt system (specify): \_\_\_\_\_(9) Unknown27. Automatic (Passive) Belt Failure Modes During Accident 2

- (0) Not equipped/not available/not in use
- (1) No automatic belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify): \_\_\_\_\_

(6) Broken retractor(7) Combination of above (specify): \_\_\_\_\_(8) Other automatic belt failure (specify): \_\_\_\_\_(9) Unknown

NASS Coding Change  
1st Reviewer: \_\_\_\_\_  
2nd Reviewer: \_\_\_\_\_

**POLICE REPORTED RESTRAINT USE**

28. Police Reported Belt Use 5
- (0) None used
  - (1) Police did not indicate belt use
  - (2) Shoulder belt
  - (3) Lap belt
  - (4) Lap and shoulder belt
  - (5) Belt used, type not specified
  - (6) Child safety seat
  - (7) Automatic belt
  - (8) Other type belt, (specify):
- \_\_\_\_\_
- (9) Police indicated "unknown"

29. Police Reported Air Bag Availability/Function 1
- (0) No air bag available
  - (1) Police did not indicate air bag availability/function
  - (2) Deployed
  - (3) Not deployed
  - (4) Unknown if deployed
  - (9) Police indicated "unknown"

Check the Primary Source Used In Determining Belt Use.

- Vehicle inspection
  - Official injury data
  - Driver/occupant interview
  - Other (specify):
- \_\_\_\_\_
- Unknown if belt used

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**AIR BAG SYSTEM FUNCTION**

30. Frontal Air Bag System Availability/Function (This Occupant Position) 0
- (0) Not equipped/not available
  - (1) Air bag
- Non-functional*
- (2) Air bag disconnected (specify):
- \_\_\_\_\_
- (3) Air bag not reinstalled
- (9) Unknown

31. Frontal Air Bag System Deployment (This Occupant Position) 0
- (0) Not equipped/not available
  - (1) Deployed during accident (as a result of impact)
  - (2) Deployed inadvertently just prior to accident
  - (3) Deployed, details unknown
  - (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
  - (5) Unknown if deployed
  - (7) Nondeployed
  - (9) Unknown

32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) 0
- (0) Not equipped/not available
  - (1) Air bag
- Non-functional*
- (2) Air bag disconnected (specify):
- \_\_\_\_\_
- (3) Air bag not reinstalled
- (9) Unknown
- Specify type of "other" air bag present:*
- \_\_\_\_\_

33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) 0
- (0) Not equipped with an "other" air bag
  - (1) Deployed during accident (as a result of impact)
  - (2) Deployed inadvertently just prior to accident
  - (3) Deployed, details unknown
  - (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
  - (5) Unknown if deployed
  - (7) Nondeployed
  - (9) Unknown

34. Are There Indications of Air Bag System Failure? (This Occupant Position) 0
- (0) Not equipped/not available
  - (1) No
  - (2) Yes (specify):
- \_\_\_\_\_
- (9) Unknown

## FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION

35. Had Vehicle Been in Previous Accident(s)? 0

- (0) Not equipped/not available  
(1) No previous accidents

Yes

- (2) Previous accident(s) without deployment(s)  
(3) One previous accident with deployment  
(4) More than one previous accident with at least one deployment  
(8) Previous accidents, unknown deployment status  
(9) Unknown

36. Type of Air Bag 2

- (0) Not equipped/not available  
(1) Original manufacturer installed system  
(2) Retrofitted air bag  
(3) Replacement air bag  
(8) Unknown type of air bag  
(9) Unknown

37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? 0

- (0) Not equipped/not available  
(1) No prior maintenance  
(2) Yes, prior maintenance (specify):  
\_\_\_\_\_  
(9) Unknown

38. Air Bag Deployment Accident Event Sequence Number 00

- (00) Not equipped/not available  
\_\_\_\_\_  
Code the accident event sequence number that initiated the air bag deployment  
(96) Deployed, unknown event  
(97) Not deployed  
(98) Unknown if deployed  
(99) Unknown

39. CDC For Air Bag Deployment Impact 0

- (0) Not equipped/not available  
(1) Highest delta V  
(2) Second highest delta V  
(3) Other non-coded delta V (specify):  
\_\_\_\_\_  
(6) Deployed, unknown event  
(7) Not deployed  
(8) Unknown if deployed  
(9) Unknown

40. Longitudinal Component of Delta V For Air Bag Deployment Impact + 000

- (\_000) Not equipped/not available  
*Code the value of the delta V for the impact that initiated the air bag deployment*  
(\_996) Deployment, unknown longitudinal Delta V  
(\_997) Not deployed  
(\_998) Unknown if deployed  
(\_999) Unknown

41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? 0

- (0) Not equipped/not available  
(1) No  
(2) Yes  
(3) Deployed, unknown if flap(s) opened at designated tear points  
(7) Not deployed  
(8) Unknown if deployed  
(9) Unknown

42. Were Air Bag Module Cover Flap(s) Damaged? 0

- (0) Not equipped/not available  
(1) No  
(2) Yes (specify): \_\_\_\_\_  
(3) Deployed, unknown if air bag module cover flap(s) damaged  
(7) Not deployed  
(8) Unknown if deployed  
(9) Unknown

43. Was There Damage To The Air Bag? 00

- (00) Not equipped/not available  
(01) Not damaged

Yes - Air Bag Damage

- (02) Ruptured  
(03) Cut  
(04) Torn  
(05) Holed  
(06) Burned  
(07) Abraded  
(88) Other damage (specify):  
\_\_\_\_\_  
(95) Damaged, details unknown  
(96) Deployed, unknown if damaged  
(97) Not deployed  
(98) Unknown if deployed  
(99) Unknown

**FIRST SEAT FRONTAL AIR BAG SYSTEM  
EVALUATION** *continued*
**HEAD RESTRAINT AND SEAT EVALUATION**

44. Source of Air Bag Damage 00  
 (00) Not equipped/not available  
 (01) Not damaged  
 (02) Object worn by occupant, (specify):  
 \_\_\_\_\_  
 (03) Object carried by occupant, (specify):  
 \_\_\_\_\_  
 (04) Adaptive/assistive controls, (specify):  
 \_\_\_\_\_  
 (05) Fire in vehicle  
 (06) Thermal burns  
 (07) Rescue or emergency efforts  
 (88) Other damage source (specify):  
 \_\_\_\_\_  
 (95) Damaged, unknown source  
 (96) Deployed, unknown if damaged  
 (97) Not deployed  
 (98) Unknown if deployed  
 (99) Unknown
45. Was The Air Bag Tethered? 0  
 (0) Not equipped/not available  
 (1) No  
 (2) Yes (specify number of tether straps):  
 \_\_\_\_\_  
 (3) Deployed, unknown if tethered  
 (7) Not deployed  
 (8) Unknown if deployed  
 (9) Unknown
46. Did The Air Bag Have Vent Ports? 0  
 (0) Not equipped/not available  
 (1) No  
 (2) Yes (specify number of vent ports):  
 \_\_\_\_\_  
 (3) Deployed, unknown if vent ports present  
 (7) Not deployed  
 (8) Unknown if deployed  
 (9) Unknown
47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? 0  
 (0) Not equipped/not available  
 (1) No  
 (2) Yes (specify):  
 \_\_\_\_\_  
 (3) Deployed, unknown if other occupant contact to air bag  
 (7) Not deployed  
 (8) Unknown if deployed  
 (9) Unknown
48. Was This Occupant Wearing Eye-wear? 0  
 (0) Not air bag equipped/air bag not available  
 (1) No  
 (2) Eyeglasses/sunglasses  
 (3) Contact lenses  
 (4) Deployed, unknown if eyewear worn  
 (7) Not deployed  
 (8) Unknown if deployed  
 (9) Unknown

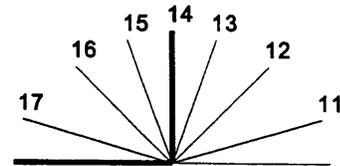
49. Head Restraint Type/Damage by Occupant at This Occupant Position 3  
 (0) No head restraints  
 (1) Integral—no damage  
 (2) Integral—damaged during accident  
 (3) Adjustable—no damage  
 (4) Adjustable—damaged during accident  
 (5) Add-on—no damage  
 (6) Add-on—damaged during accident  
 (8) Other (specify):  
 \_\_\_\_\_  
 (9) Unknown
50. Seat Type (this Occupant Position) 04  
 (00) Occupant not seated or no seat  
 (01) Bucket  
 (02) Bucket with folding back  
 (03) Bench  
 (04) Bench with separate back cushions  
 (05) Bench with folding back(s)  
 (06) Split bench with separate back cushions  
 (07) Split bench with folding back(s)  
 (08) Pedestal (i.e., column supported)  
 (09) Box mounted seat (i.e., van type)  
 (10) Other seat type (specify):  
 \_\_\_\_\_  
 (99) Unknown
51. Seat Orientation (this Occupant Position) 1  
 (0) Occupant not seated or no seat  
 (1) Forward facing seat  
 (2) Rear facing seat  
 (3) Side facing seat (inward)  
 (4) Side facing seat (outward)  
 (8) Other (specify):  
 \_\_\_\_\_  
 (9) Unknown
52. Seat Track Adjusted Position Prior To Impact 5  
 (0) Occupant not seated or no seat  
 (1) Non-adjustable seat track
- Adjustable Seat Track*  
 (2) Seat at forward most track position  
 (3) Seat between forward most and middle track positions  
 (4) Seat at middle track position  
 (5) Seat between middle and rear most track positions  
 (6) Seat at rear most track position  
 (9) Unknown

HEAD RESTRAINT AND SEAT EVALUATION *continued*53. Seat Back Incline Prior and Post Impact 23

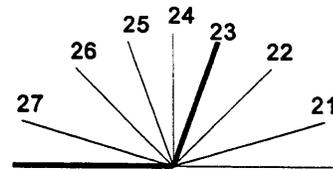
- (00) Occupant not seated or no seat  
 (01) Not adjustable

***Upright prior to impact***

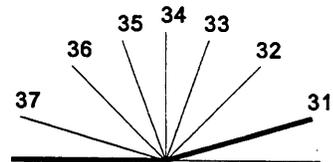
- (11) Moved to completely rearward position  
 (12) Moved to rearward midrange position  
 (13) Moved to slightly rearward position  
 (14) Retained pre-impact position  
 (15) Moved to slightly forward position  
 (16) Moved to forward midrange position  
 (17) Moved to completely forward position

***Slightly reclined prior to impact***

- (21) Moved to completely rearward position  
 (22) Moved to rearward midrange position  
 (23) Retained pre-impact position  
 (24) Moved to upright position  
 (25) Moved to slightly forward position  
 (26) Moved to forward midrange position  
 (27) Moved to completely forward position

***Completely reclined prior to impact***

- (31) Retained pre-impact position  
 (32) Moved to rearward midrange position  
 (33) Moved to slightly rearward position  
 (34) Moved to upright position  
 (35) Moved to slightly forward position  
 (36) Moved to forward midrange position  
 (37) Moved to completely forward position



(99) Unknown

54. Seat Performance (this Occupant Position) 1

- (0) Occupant not seated or no seat  
 (1) No seat performance failure(s)  
 (2) Seat adjusters failed  
 (3) Seat back folding locks or "seat back" failed  
 (specify): \_\_\_\_\_  
 (4) Seat track/anchors failed  
 (5) Deformed by impact of occupant  
 (6) Deformed by passenger compartment intrusion, (specify): \_\_\_\_\_  
 (7) Combination of above (specify): \_\_\_\_\_  
 (8) Other (specify): \_\_\_\_\_  
 (9) Unknown

## CHILD SAFETY SEAT

55. Child Safety Seat Make/Model 000

(000) No child safety seat

Applicable codes are found in your NASS CDS  
Data Collection, Coding and Editing

(950) Built-in child safety seat

(997) Other make/model (specify):  
\_\_\_\_\_

(998) Unknown make/model

(999) Unknown if child safety seat used

56. Type of Child Safety Seat 0

(0) No child safety seat

(1) Infant seat

(2) Toddler seat

(3) Convertible seat

(4) Booster seat - with shield

(5) Booster seat - without shield

(7) Other type child safety seat (specify):  
\_\_\_\_\_

(8) Unknown child safety seat type

(9) Unknown if child safety seat used

57. Child Safety Seat Orientation 00

(00) No child safety seat

*Designed for Rear Facing for This Age/Weight*

(01) Rear facing

(02) Forward facing

(08) Other orientation (specify):  
\_\_\_\_\_

(09) Unknown orientation

*Designed For Forward Facing for This Age/Weight*

(11) Rear facing

(12) Forward facing

(18) Other orientation (specify):  
\_\_\_\_\_

(19) Unknown orientation

*Unknown Design or Orientation For This  
Age/Weight, or Unknown Age/Weight*

(21) Rear facing

(22) Forward facing

(28) Other orientation (specify):  
\_\_\_\_\_

(29) Unknown orientation

(99) Unknown if child safety seat used

58. Child Safety Seat Harness Usage 0059. Child Safety Seat Shield Usage 0060. Child Safety Seat Tether Usage 00Note: Options below applicable to  
Variables OA58-OA60.

(00) No child safety seat

*Not Designed With Harness/Shield/Tether*(01) After market harness/shield/tether  
added, not used

(02) After market harness/shield/tether used

(03) Child safety seat used, but no after market  
harness/shield/tether added(09) Unknown if harness/shield/tether  
added or used*Designed With Harness/Shield/Tether*

(11) Harness/shield/tether not used

(12) Harness/shield/tether used

(19) Unknown if harness/shield/tether used

*Unknown If Designed With Harness/Shield/Tether*

(21) Harness/shield/tether not used

(22) Harness/shield/tether used

(29) Unknown if harness/shield/tether used

(99) Unknown if child safety seat used

**INJURY CONSEQUENCES**61. Injury Severity (Police Rating) 0

- (0) O - No injury
- (1) C - Possible injury
- (2) B - Nonincapacitating injury
- (3) A - Incapacitating injury
- (4) K - Killed
- (5) U - Injury, severity unknown
- (6) Died prior to accident
- (9) Unknown

62. Treatment - Mortality 0

- (0) No treatment
- (1) Fatal
- (2) Fatal - ruled disease (specify):  
\_\_\_\_\_

*Nonfatal*

- (3) Hospitalization
- (4) Transported and released
- (5) Treatment at scene - nontransported
- (6) Treatment later
- (7) Treatment - other (specify):  
\_\_\_\_\_
- (8) Transported to a medical facility-unknown if treated
- (9) Unknown

63. Type Of Medical Facility (for Initial Treatment) 0

- (0) Not treated at a medical facility
- (1) Trauma center
- (2) Hospital
- (3) Medical clinic
- (4) Physician's office
- (5) Treatment later at medical facility
- (8) Other (specify):  
\_\_\_\_\_
- (9) Unknown

64. Hospital Stay 00

- (00) Not Hospitalized
- \_\_\_\_\_ Code the number of days (up through 60) that the occupant stayed in hospital.
- (61) 61 days or more
- (99) Unknown

65. Working Days Lost 97

- \_\_\_\_\_ Code the number of days (up through 60) that the occupant lost from work due to the accident
- (00) No working days lost
- (61) 61 days or more
- (62) Fatally injured
- (97) Not working prior to accident
- (99) Unknown

**STOP WORK HERE****VARIABLES 66-74****TO BE CODED BY THE ZONE CENTER**

**TO BE CODED BY THE ZONE CENTER****INJURY CONSEQUENCES****TRAUMA DATA**

66. Time to Death 00  
 \_\_\_\_\_ Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, ... n days = 30 + n up through 30 days = 60)  
 (00) Not fatal  
 (96) Fatal - ruled disease  
 (99) Unknown

67. 1st Medically Reported Cause of Death 00

68. 2nd Medically Reported Cause of Death 00

69. 3rd Medically Reported Cause of Death 00  
 \_\_\_\_\_ Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death  
 (00) Not fatal or no additional causes  
 (96) Mode of death given but specific injuries are not linked to cause of death. (specify):  
 \_\_\_\_\_

(97) Other result (includes fatal ruled disease) (specify):  
 \_\_\_\_\_

(99) Unknown

70. Number of Recorded Injuries for This Occupant 00  
 \_\_\_\_\_ Code the actual number of injuries recorded for this occupant.  
 (00) No recorded injuries  
 (97) Injured, details unknown  
 (99) Unknown if injured

71. Glasgow Coma Scale (GCS) Score 00  
 (at Medical Facility)  
 (00) Not injured  
 (01) Injured - not treated at medical facility  
 (02) No GCS Score at medical facility  
 (03-15) Code the actual value of the initial GCS Score recorded at medical facility.  
 (97) Injured, details unknown  
 (99) Unknown if injured

72. Was the Occupant Given Blood? 1  
 (1) No - blood not given  
 (2) Yes - blood given  
 (specify units): \_\_\_\_\_  
 (9) Unknown if blood given

73. Arterial Blood Gases (ABG) - HCO<sub>3</sub> 00  
 (00) Not injured  
 (01) Injured, ABGs not measured or reported  
 (02-50) Code the actual value of the HCO<sub>3</sub>  
 (96) ABGs reported, HCO<sub>3</sub> unknown  
 (97) Injured, details unknown  
 (99) Unknown if injured

**BELT USE DETERMINATION**

74. Primary Source of Belt Use Determination 1  
 (0) Not equipped/not available/destroyed or rendered inoperative  
 (1) Vehicle inspection  
 (2) Official injury data  
 (3) Driver/occupant interview  
 (8) Other (specify): \_\_\_\_\_  
 (9) Unknown if belt used

PSU NUMBER	<u>45</u>
CASE NUMBER	<u>0538</u>
VEHICLE NUMBER	<u>02</u>
OCCUPANT NUMBER	<u>02</u>

# OCCUPANT INJURY FORM

*THE FOLLOWING DATA IS NOT INCLUDED IN THIS CASE:*

- ENTIRE FORM
- PAGE NUMBER (S) \_\_\_\_\_

# OCCUPANT ASSESSMENT FORM

NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

- 1. Primary Sampling Unit Number 45
- 2. Case Number - Stratum 053B
- 3. Vehicle Number 02
- 4. Occupant Number 03

## OCCUPANT'S CHARACTERISTICS

- 5. Occupant's Age 02  
Code actual age at time of accident.  
(00) Less than one year old (specify by month):  
\_\_\_\_\_  
(97) 97 years and older  
(99) Unknown

- 6. Occupant's Sex 2
  - (1) Male
  - (2) Female-not reported pregnant
  - (3) Female-pregnant-1st trimester(1st-3rd month)
  - (4) Female-pregnant-2nd trimester(4th-6th month)
  - (5) Female-pregnant-3rd trimester(7th-9th month)
  - (6) Female-pregnant-term unknown
  - (9) Unknown

- 7. Occupant's Height 999  
Code actual height to the nearest centimeter.  
(999) Unknown  
  
\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

- 8. Occupant's Weight 011  
Code actual weight to the nearest kilogram.  
(999) Unknown  
  
25 pounds X .4536 = 011 kilograms

- 9. Occupant's Role 2
  - (1) Driver
  - (2) Passenger
  - (9) Unknown

## OCCUPANT'S SEATING

- 10. Occupant's Seat Position 23  
*Front Seat*
  - (11) Left side
  - (12) Middle
  - (13) Right side
  - (14) Other (specify): \_\_\_\_\_
  - (15) On or in the lap of another occupant

- Second Seat*
  - (21) Left side
  - (22) Middle
  - (23) Right side
  - (24) Other (specify): \_\_\_\_\_
  - (25) On or in the lap of another occupant

- Third Seat*
  - (31) Left side
  - (32) Middle
  - (33) Right side
  - (34) Other (specify): \_\_\_\_\_
  - (35) On or in the lap of another occupant

- Fourth Seat*
  - (41) Left side
  - (42) Middle
  - (43) Right side
  - (44) Other (specify): \_\_\_\_\_
  - (45) On or in the lap of another occupant

- (97) In or on unenclosed area
- (98) Other seat (specify): \_\_\_\_\_
- (99) Unknown

- 11. Occupant's Posture 9
  - (0) Normal posture

- Abnormal posture*
  - (1) Kneeling or standing on seat
  - (2) Lying on or across seat
  - (3) Kneeling, standing or sitting in front of seat
  - (4) Sitting sideways or turned to talk with another occupant or to look out a rear window
  - (5) Sitting on a console
  - (6) Lying back in a reclined seat position
  - (7) Bracing with feet or hands on a surface in front of seat
  - (8) Other abnormal posture (specify): \_\_\_\_\_
  - (9) Unknown

## EJECTION/ENTRAPMENT

## 12. Ejection

- (0) No ejection
- (1) Complete ejection
- (2) Partial ejection
- (3) Ejection, unknown degree
- (9) Unknown

0

## 13. Ejection Area

- (0) No ejection
- (1) Windshield
- (2) Left front
- (3) Right front
- (4) Left rear
- (5) Right rear
- (6) Rear
- (7) Roof
- (8) Other area (e.g., back of pickup, etc.)  
(specify): \_\_\_\_\_
- (9) Unknown

0

## 14. Ejection Medium

- (0) No ejection
- (1) Door/hatch/tailgate
- (2) Nonfixed roof structure
- (3) Fixed glazing
- (4) Nonfixed glazing (specify): \_\_\_\_\_
- (5) Integral structure
- (8) Other medium (specify): \_\_\_\_\_
- (9) Unknown

0

## 15. Medium Status (Immediately Prior To Impact)

- (0) No ejection
- (1) Open
- (2) Closed
- (3) Integral structure
- (9) Unknown

0

## 16. Entrapment

- (0) Not entrapped/exit not inhibited
- (1) Entrapped/pinned - mechanically restrained
- (2) Could not exit vehicle due to jammed doors, fire, etc.  
(specify): \_\_\_\_\_
- (9) Unknown

0

## 17. Occupant Mobility

- (0) Occupant fatal before removed from vehicle
- (1) Removed from vehicle while unconscious or not oriented to time or place
- (2) Removed from vehicle due to perceived serious injuries
- (3) Exited vehicle with some assistance
- (4) Exited vehicle under own power
- (5) Occupant fully ejected
- (8) Removed from vehicle for other reasons  
(specify): \_\_\_\_\_
- (9) Unknown

3

UN INJURED  
CHILD

**BELT SYSTEM FUNCTION**

18. Manual (Active) Belt System Availability 4
- (0) None available
  - (1) Belt removed/destroyed
  - (2) Shoulder belt
  - (3) Lap belt
  - (4) Lap and shoulder belt
  - (5) Belt available—type unknown
- Integral Belt Partially Destroyed*
- (6) Shoulder belt (lap belt destroyed/removed)
  - (7) Lap belt (shoulder belt destroyed/removed)
  - (8) Other belt (specify): \_\_\_\_\_
  - (9) Unknown
19. Manual (Active) Belt System Use 14
- (00) None used, not available, or belt removed/destroyed
  - (01) Inoperative (specify): \_\_\_\_\_
  - (02) Shoulder belt
  - (03) Lap belt
  - (04) Lap and shoulder belt
  - (05) Belt used—type unknown
  - (08) Other belt used (specify): \_\_\_\_\_
  - (12) Shoulder belt used with child safety seat
  - (13) Lap belt used with child safety seat
  - (14) Lap and shoulder belt used with child safety seat
  - (15) Belt used with child safety seat—type unknown
  - (18) Other belt used with child safety seat (specify): \_\_\_\_\_
  - (99) Unknown if belt used
20. Proper Use of Manual (Active) Belts 92
- (0) None used or not available
  - (1) Belt used properly
  - (2) Belt used properly with child safety seat
- Belt Used Improperly*
- (3) Shoulder belt worn under arm
  - (4) Shoulder belt worn behind back or seat
  - (5) Belt worn around more than one person
  - (6) Lap belt worn on abdomen
  - (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): \_\_\_\_\_
  - (8) Other improper use of manual belt system (specify): \_\_\_\_\_
  - (9) Unknown
21. Manual (Active) Belt Failure Modes During Accident 1
- (0) No manual belt used or not available
  - (1) No manual belt failure(s)
  - (2) Torn webbing (stretched webbing not included)
  - (3) Broken buckle or latchplate
  - (4) Upper anchorage separated
  - (5) Other anchorage separated (specify): \_\_\_\_\_
  - (6) Broken retractor
  - (7) Combination of above (specify): \_\_\_\_\_
  - (8) Other manual belt failure (specify): \_\_\_\_\_
  - (9) Unknown

NASS CODE: \_\_\_\_\_  
 1st Review: \_\_\_\_\_  
 2nd Review: \_\_\_\_\_

22. Manual Shoulder Belt Upper Anchorage Adjustment 1
- (0) No manual shoulder belt
  - (1) No upper anchorage adjustment for manual shoulder belt
- Adjustable shoulder Belt Upper Anchorage*
- (2) In full up position
  - (3) In mid position
  - (4) In full down position
  - (5) Position unknown
  - (9) Unknown if position has adjustable upper anchorage adjustment
23. Automatic (Passive) Belt System Availability/Function 0
- (0) Not equipped/not available
  - (1) 2 point automatic belts
  - (2) 3 point automatic belts
  - (3) Automatic belts - type unknown
- Non-functional*
- (4) Automatic belts destroyed or rendered inoperative
  - (9) Unknown
24. Automatic (Passive) Belt System Use 0
- (0) Not equipped/not available/destroyed or rendered inoperative
  - (1) Automatic belt in use
  - (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): \_\_\_\_\_
  - (3) Automatic belt use unknown
  - (9) Unknown
25. Automatic (Passive) Belt System Type 0
- (0) Not equipped/not available
  - (1) Non-motorized system
  - (2) Motorized system
  - (9) Unknown
26. Proper Use of Automatic (Passive) Belt System 0
- (0) Not equipped/not available/not used
  - (1) Automatic belt used properly
  - (2) Automatic belt used properly with child safety seat
- Automatic Belt Used Improperly*
- (3) Automatic shoulder belt worn under arm
  - (4) Automatic shoulder belt worn behind back
  - (5) Automatic belt worn around more than one person
  - (6) Lap portion of automatic belt worn on abdomen
  - (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): \_\_\_\_\_
  - (8) Other improper use of automatic belt system (specify): \_\_\_\_\_
  - (9) Unknown
27. Automatic (Passive) Belt Failure Modes During Accident 0
- (0) Not equipped/not available/not in use
  - (1) No automatic belt failure(s)
  - (2) Torn webbing (stretched webbing not included)
  - (3) Broken buckle or latchplate
  - (4) Upper anchorage separated
  - (5) Other anchorage separated (specify): \_\_\_\_\_
  - (6) Broken retractor
  - (7) Combination of above (specify): \_\_\_\_\_
  - (8) Other automatic belt failure (specify): \_\_\_\_\_
  - (9) Unknown

**POLICE REPORTED RESTRAINT USE**

**AIR BAG SYSTEM FUNCTION**

28. Police Reported Belt Use 6
- (0) None used
  - (1) Police did not indicate belt use
  - (2) Shoulder belt
  - (3) Lap belt
  - (4) Lap and shoulder belt
  - (5) Belt used, type not specified
  - (6) Child safety seat
  - (7) Automatic belt
  - (8) Other type belt, (specify):

(9) Police indicated "unknown"

29. Police Reported Air Bag Availability/Function 0
- (0) No air bag available
  - (1) Police did not indicate air bag availability/function
  - (2) Deployed
  - (3) Not deployed
  - (4) Unknown if deployed
  - (9) Police indicated "unknown"

Check the Primary Source Used In Determining Belt Use.

- [ ] Vehicle inspection
- [  ] Official injury data
- [  ] Driver/occupant interview
- [ ] Other (specify):
- [ ] Unknown if belt used

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

30. Frontal Air Bag System Availability/Function (This Occupant Position) 0
- (0) Not equipped/not available
  - (1) Air bag
- Non-functional*
- (2) Air bag disconnected (specify):
  - (3) Air bag not reinstalled
  - (9) Unknown

31. Frontal Air Bag System Deployment (This Occupant Position) 0
- (0) Not equipped/not available
  - (1) Deployed during accident (as a result of impact)
  - (2) Deployed inadvertently just prior to accident
  - (3) Deployed, details unknown
  - (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
  - (5) Unknown if deployed
  - (7) Nondeployed
  - (9) Unknown

32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) 0
- (0) Not equipped/not available
  - (1) Air bag
- Non-functional*
- (2) Air bag disconnected (specify):
  - (3) Air bag not reinstalled
  - (9) Unknown
- Specify type of "other" air bag present:*
- \_\_\_\_\_

33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) 0
- (0) Not equipped with an "other" air bag
  - (1) Deployed during accident (as a result of impact)
  - (2) Deployed inadvertently just prior to accident
  - (3) Deployed, details unknown
  - (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
  - (5) Unknown if deployed
  - (7) Nondeployed
  - (9) Unknown

34. Are There Indications of Air Bag System Failure? (This Occupant Position) 0
- (0) Not equipped/not available
  - (1) No
  - (2) Yes (specify):
  - (9) Unknown

## FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION

35. Had Vehicle Been in Previous Accident(s)? 0

- (0) Not equipped/not available  
 (1) No previous accidents

Yes

- (2) Previous accident(s) without deployment(s)  
 (3) One previous accident with deployment  
 (4) More than one previous accident with at least one deployment  
 (8) Previous accidents, unknown deployment status  
 (9) Unknown

36. Type of Air Bag 0

- (0) Not equipped/not available  
 (1) Original manufacturer installed system  
 (2) Retrofitted air bag  
 (3) Replacement air bag  
 (8) Unknown type of air bag  
 (9) Unknown

37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? 0

- (0) Not equipped/not available  
 (1) No prior maintenance  
 (2) Yes, prior maintenance (specify): \_\_\_\_\_  
 (9) Unknown

38. Air Bag Deployment Accident Event Sequence Number 00

- (00) Not equipped/not available  
 \_\_\_\_\_ Code the accident event sequence number that initiated the air bag deployment  
 (96) Deployed, unknown event  
 (97) Not deployed  
 (98) Unknown if deployed  
 (99) Unknown

39. CDC For Air Bag Deployment Impact 0

- (0) Not equipped/not available  
 (1) Highest delta V  
 (2) Second highest delta V  
 (3) Other non-coded delta V (specify): \_\_\_\_\_  
 (6) Deployed, unknown event  
 (7) Not deployed  
 (8) Unknown if deployed  
 (9) Unknown

40. Longitudinal Component of Delta V For Air Bag Deployment Impact

+  
- 000

- (\_000) Not equipped/not available  
*Code the value of the delta V for the impact that initiated the air bag deployment*  
 (\_996) Deployment, unknown longitudinal Delta V  
 (\_997) Not deployed  
 (\_998) Unknown if deployed  
 (\_999) Unknown

41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? 0

- (0) Not equipped/not available  
 (1) No  
 (2) Yes  
 (3) Deployed, unknown if flap(s) opened at designated tear points  
 (7) Not deployed  
 (8) Unknown if deployed  
 (9) Unknown

42. Were Air Bag Module Cover Flap(s) Damaged? 0

- (0) Not equipped/not available  
 (1) No  
 (2) Yes (specify): \_\_\_\_\_  
 (3) Deployed, unknown if air bag module cover flap(s) damaged  
 (7) Not deployed  
 (8) Unknown if deployed  
 (9) Unknown

43. Was There Damage To The Air Bag? 00

- (00) Not equipped/not available  
 (01) Not damaged

Yes - Air Bag Damage

- (02) Ruptured  
 (03) Cut  
 (04) Torn  
 (05) Holed  
 (06) Burned  
 (07) Abraded  
 (88) Other damage (specify): \_\_\_\_\_  
 (95) Damaged, details unknown  
 (96) Deployed, unknown if damaged  
 (97) Not deployed  
 (98) Unknown if deployed  
 (99) Unknown

**FIRST SEAT FRONTAL AIR BAG SYSTEM  
EVALUATION** *continued*

44. Source of Air Bag Damage 00  
 (00) Not equipped/not available  
 (01) Not damaged  
 (02) Object worn by occupant, (specify):  
 \_\_\_\_\_  
 (03) Object carried by occupant, (specify):  
 \_\_\_\_\_  
 (04) Adaptive/assistive controls, (specify):  
 \_\_\_\_\_  
 (05) Fire in vehicle  
 (06) Thermal burns  
 (07) Rescue or emergency efforts  
 (88) Other damage source (specify):  
 \_\_\_\_\_  
 (95) Damaged, unknown source  
 (96) Deployed, unknown if damaged  
 (97) Not deployed  
 (98) Unknown if deployed  
 (99) Unknown
45. Was The Air Bag Tethered? 0  
 (0) Not equipped/not available  
 (1) No  
 (2) Yes (specify number of tether straps):  
 \_\_\_\_\_  
 (3) Deployed, unknown if tethered  
 (7) Not deployed  
 (8) Unknown if deployed  
 (9) Unknown
46. Did The Air Bag Have Vent Ports? 0  
 (0) Not equipped/not available  
 (1) No  
 (2) Yes (specify number of vent ports):  
 \_\_\_\_\_  
 (3) Deployed, unknown if vent ports present  
 (7) Not deployed  
 (8) Unknown if deployed  
 (9) Unknown
47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? 0  
 (0) Not equipped/not available  
 (1) No  
 (2) Yes (specify):  
 \_\_\_\_\_  
 (3) Deployed, unknown if other occupant contact to air bag  
 (7) Not deployed  
 (8) Unknown if deployed  
 (9) Unknown
48. Was This Occupant Wearing Eye-wear? 0  
 (0) Not air bag equipped/air bag not available  
 (1) No  
 (2) Eyeglasses/sunglasses  
 (3) Contact lenses  
 (4) Deployed, unknown if eyewear worn  
 (7) Not deployed  
 (8) Unknown if deployed  
 (9) Unknown

**HEAD RESTRAINT AND SEAT EVALUATION**

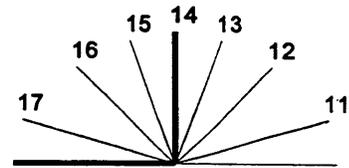
49. Head Restraint Type/Damage by Occupant at This Occupant Position 0  
 (0) No head restraints  
 (1) Integral—no damage  
 (2) Integral—damaged during accident  
 (3) Adjustable—no damage  
 (4) Adjustable—damaged during accident  
 (5) Add-on—no damage  
 (6) Add-on—damaged during accident  
 (8) Other (specify):  
 \_\_\_\_\_  
 (9) Unknown
50. Seat Type (this Occupant Position) 03  
 (00) Occupant not seated or no seat  
 (01) Bucket  
 (02) Bucket with folding back  
 (03) Bench  
 (04) Bench with separate back cushions  
 (05) Bench with folding back(s)  
 (06) Split bench with separate back cushions  
 (07) Split bench with folding back(s)  
 (08) Pedestal (i.e., column supported)  
 (09) Box mounted seat (i.e., van type)  
 (10) Other seat type (specify):  
 \_\_\_\_\_  
 (99) Unknown
51. Seat Orientation (this Occupant Position) 1  
 (0) Occupant not seated or no seat  
 (1) Forward facing seat  
 (2) Rear facing seat  
 (3) Side facing seat (inward)  
 (4) Side facing seat (outward)  
 (8) Other (specify):  
 \_\_\_\_\_  
 (9) Unknown
52. Seat Track Adjusted Position Prior To Impact 1  
 (0) Occupant not seated or no seat  
 (1) Non-adjustable seat track
- Adjustable Seat Track*  
 (2) Seat at forward most track position  
 (3) Seat between forward most and middle track positions  
 (4) Seat at middle track position  
 (5) Seat between middle and rear most track positions  
 (6) Seat at rear most track position  
 (9) Unknown

**HEAD RESTRAINT AND SEAT EVALUATION** *continued*

53. Seat Back Incline Prior and Post Impact 01  
 (00) Occupant not seated or no seat  
 (01) Not adjustable

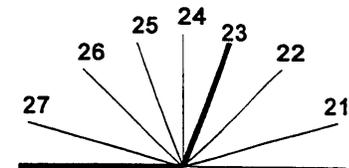
***Upright prior to impact***

- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position



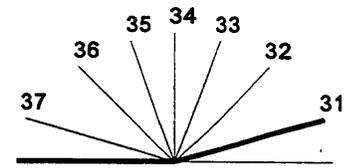
***Slightly reclined prior to impact***

- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position



***Completely reclined prior to impact***

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position



(99) Unknown

54. Seat Performance (this Occupant Position) 1

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed (specify): \_\_\_\_\_
- (4) Seat track/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion, (specify): \_\_\_\_\_
- (7) Combination of above (specify): \_\_\_\_\_
- (8) Other (specify): \_\_\_\_\_
- (9) Unknown

## CHILD SAFETY SEAT

55. Child Safety Seat Make/Model 998<sup>x</sup>  
 (000) No child safety seat  
 Applicable codes are found in your NASS CDS  
 Data Collection, Coding and Editing  
 (950) Built-in child safety seat  
 (997) Other make/model (specify):

\_\_\_\_\_  
 (998) Unknown make/model  
 (999) Unknown if child safety seat used

\* INFO TO FOLLOW

56. Type of Child Safety Seat 3<sup>\*</sup>  
 (0) No child safety seat  
 (1) Infant seat  
 (2) Toddler seat  
 (3) Convertible seat  
 (4) Booster seat - with shield  
 (5) Booster seat - without shield  
 (7) Other type child safety seat (specify):

\_\_\_\_\_  
 (8) Unknown child safety seat type  
 (9) Unknown if child safety seat used

← SEE NEWSPAPER PHOTO

57. Child Safety Seat Orientation 22  
 (00) No child safety seat

*Designed for Rear Facing for This Age/Weight*

(01) Rear facing  
 (02) Forward facing  
 (08) Other orientation (specify):

\_\_\_\_\_  
 (09) Unknown orientation

*Designed For Forward Facing for This Age/Weight*

(11) Rear facing  
 (12) Forward facing  
 (18) Other orientation (specify):

\_\_\_\_\_  
 (19) Unknown orientation

*Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight*

(21) Rear facing  
 (22) Forward facing  
 (28) Other orientation (specify):

\_\_\_\_\_  
 (29) Unknown orientation

(99) Unknown if child safety seat used

58. Child Safety Seat Harness Usage 72

59. Child Safety Seat Shield Usage 19

60. Child Safety Seat Tether Usage 19

Note: Options below applicable to  
 Variables OA58-OA60.

(00) No child safety seat

*Not Designed With Harness/Shield/Tether*

(01) After market harness/shield/tether  
 added, not used  
 (02) After market harness/shield/tether used  
 (03) Child safety seat used, but no after market  
 harness/shield/tether added  
 (09) Unknown if harness/shield/tether  
 added or used

*Designed With Harness/Shield/Tether*

(11) Harness/shield/tether not used  
 (12) Harness/shield/tether used  
 (19) Unknown if harness/shield/tether used

*Unknown If Designed With Harness/Shield/Tether*

(21) Harness/shield/tether not used  
 (22) Harness/shield/tether used  
 (29) Unknown if harness/shield/tether used

(99) Unknown if child safety seat used

**INJURY CONSEQUENCES**61. Injury Severity (Police Rating) 0

- (0) O - No injury
- (1) C - Possible injury
- (2) B - Nonincapacitating injury
- (3) A - Incapacitating injury
- (4) K - Killed
- (5) U - Injury, severity unknown
- (6) Died prior to accident
- (9) Unknown

62. Treatment - Mortality 0

- (0) No treatment
- (1) Fatal
- (2) Fatal - ruled disease (specify):  
\_\_\_\_\_

*Nonfatal*

- (3) Hospitalization
- (4) Transported and released
- (5) Treatment at scene - nontransported
- (6) Treatment later
- (7) Treatment - other (specify):  
\_\_\_\_\_
- (8) Transported to a medical facility-unknown if treated
- (9) Unknown

63. Type Of Medical Facility (for Initial Treatment) 0

- (0) Not treated at a medical facility
- (1) Trauma center
- (2) Hospital
- (3) Medical clinic
- (4) Physician's office
- (5) Treatment later at medical facility
- (8) Other (specify):  
\_\_\_\_\_

- (9) Unknown

64. Hospital Stay 00

- (00) Not Hospitalized
- \_\_\_\_\_ Code the number of days (up through 60) that the occupant stayed in hospital.
- (61) 61 days or more
- (99) Unknown

65. Working Days Lost 97

- \_\_\_\_\_ Code the number of days (up through 60) that the occupant lost from work due to the accident
- (00) No working days lost
- (61) 61 days or more
- (62) Fatally injured
- (97) Not working prior to accident
- (99) Unknown

**STOP WORK HERE****VARIABLES 66-74****TO BE CODED BY THE ZONE CENTER**

**TO BE CODED BY THE ZONE CENTER****INJURY CONSEQUENCES****TRAUMA DATA**

66. Time to Death 00  
 \_\_\_\_\_ Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, ... n days = 30 + n up through 30 days = 60)  
 (00) Not fatal  
 (96) Fatal - ruled disease  
 (99) Unknown

67. 1st Medically Reported Cause of Death 00

68. 2nd Medically Reported Cause of Death 00

69. 3rd Medically Reported Cause of Death 00  
 \_\_\_\_\_ Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death  
 (00) Not fatal or no additional causes  
 (96) Mode of death given but specific injuries are not linked to cause of death. (specify):

(97) \_\_\_\_\_ Other result (includes fatal ruled disease) (specify):

(99) \_\_\_\_\_ Unknown

70. Number of Recorded Injuries for This Occupant 00  
 \_\_\_\_\_ Code the actual number of injuries recorded for this occupant.  
 (00) No recorded injuries  
 (97) Injured, details unknown  
 (99) Unknown if injured

71. Glasgow Coma Scale (GCS) Score 00  
 (at Medical Facility)  
 (00) Not injured  
 (01) Injured - not treated at medical facility  
 (02) No GCS Score at medical facility  
 (03-15) Code the actual value of the initial GCS Score recorded at medical facility.  
 (97) Injured, details unknown  
 (99) Unknown if injured

72. Was the Occupant Given Blood? 1  
 (1) No - blood not given  
 (2) Yes - blood given  
 (specify units): \_\_\_\_\_  
 (9) Unknown if blood given

73. Arterial Blood Gases (ABG) - HCO<sub>3</sub> 00  
 (00) Not injured  
 (01) Injured, ABGs not measured or reported  
 (02-50) Code the actual value of the HCO<sub>3</sub>  
 (96) ABGs reported, HCO<sub>3</sub> unknown  
 (97) Injured, details unknown  
 (99) Unknown if injured

**BELT USE DETERMINATION**

74. Primary Source of Belt Use Determination 1  
 (0) Not equipped/not available/destroyed or rendered inoperative  
 (1) Vehicle inspection  
 (2) Official injury data  
 (3) Driver/occupant interview  
 (8) Other (specify): \_\_\_\_\_  
 (9) Unknown if belt used

PSU NUMBER	<u>45</u>
CASE NUMBER	<u>053B</u>
VEHICLE NUMBER	<u>02</u>
OCCUPANT NUMBER	<u>03</u>

# OCCUPANT INJURY FORM

*THE FOLLOWING DATA IS NOT INCLUDED IN THIS CASE:*

- ENTIRE FORM
- PAGE NUMBER (S) \_\_\_\_\_

45053B00000011 969.00000000000020700000001 96 96 96 96 96042106000  
00100000004210625 0510  
45053B00010012 969.0010000000000168R0203F  
45053B01000021 9.00 0000000009482881681FUVDXYB1RH 0099907209700 94  
2234211000991298991268  
45053B01000022 9.00 000000000  
45053B02000021 9.00 0000000009006014041C3XY66R6LD 0199907209703 14  
1234211000991455032169  
45053B02000022 9.00 000000000103031101570010000000007030534501004999 999 99  
99999999909998301  
45053B02000031 9.00 000000000010111FYHW09  
16208026514601000301040101001000  
45053B02000041 9.00 00000000098313100000012222202122221013616160191111101  
45053B02000042 9.00 00000000011166211134212134111012111313211304221102229999  
99 230000017212220  
45053B02010051 9.00 0000000003721730661119000010404911000005117001111977 99  
77797977777306152310000000000041000620199000001011011  
45053B02010161 9.00 0000000007115099700542100  
45053B02020051 9.00 0000000000529990182139000003404911000005100000000000 00  
0000000000030415231000000000000000097000000000001001  
45053B02030051 9.00 0000000000229990112239000003414911000006000000000000 00  
00000000000031101199832212191900000970000000000001001  
45053B00000066 9.00 000000000LARGE TRUCK/CAR RIGHT-ANGLE  
45053B00000171 9.00 000000000Vehicle #1 (a tractor-trailer with a flat bed  
trailer) was traveling east on  
45053B00000271 9.00 000000000a fourlane roadway with wide inside and outsid  
e shoulders. There is a center  
45053B00000371 9.00 000000000wall separating the roadway. The roadway is j  
ust beyond a major bridge and  
45053B00000471 9.00 000000000the wall ends at the end of the non-commercial  
roadway that is at the end of  
45053B00000571 9.00 000000000the access roadway from the bridge. Vehicle #  
1 was traveling in the outside  
45053B00000671 9.00 000000000travel lane. The conditions were dry and dayl  
ight. At the end of the  
45053B00000771 9.00 000000000separating wall, Vehicle #1 made a U-turn in a  
driveway access area between  
45053B00000871 9.00 000000000the wall and the beginning of a wide grass med  
ian strip. The access area  
45053B00000971 9.00 000000000serves a residential driveway on the south sid  
e of the roadway. Going west  
45053B00001071 9.00 000000000the road slopes upward. Vehicle #1 completed  
half of the U-turn and was  
45053B00001171 9.00 000000000traveling across both lanes on the westbound s  
ide.  
45053B00001271 9.00 000000000  
45053B00001371 9.00 000000000Vehicle #2 was traveling northwest in the insi  
de travel lane of the fourlane  
45053B00001471 9.00 000000000roadway with wide shoulders. Upon the approac  
h, Vehicle #2 had a wide center  
45053B00001571 9.00 000000000grass median separating the fourlane roadway;  
the area is commercial. There  
45053B00001671 9.00 000000000is a wide shoulder only on the north side of i  
t's travel lane. The approach  
45053B00001771 9.00 000000000to the point of impact curves to the left and  
is downward slope. Vehicle #2  
45053B00001871 9.00 000000000skidded a short distance and struck Vehicle #1  
's flat bed trailer immediately



GENERAL VEHICLE Vehicle: 1

INTRA ERRORS

GG2301 2 If ACCIDENT TYPE GV36 equals 68, 72, 76 or 82, then PRE-EVENT  
GG2302 MOVEMENT GV31 should equal 11 or 99.

GG3401 2 If ROADWAY ALIGNMENT GV22 equals 2 or 3, then PRE-EVENT MOVEMENT  
GG3402 GV31 should equal 14.

---

GENERAL VEHICLE Vehicle: 2

INTRA ERRORS

GG2251 2 If ACCIDENT TYPE GV36 equals 20, 24, 28, 44, 45, 51, 65, 69, 71,  
GG2252 73, 77, 79, 81, 83 or 86-89, then PRE-EVENT MOVEMENT GV31 should  
GG2253 equal 01.

INTERIOR VEHICLE Vehicle: 2

INTRA ERRORS

CC0541 2 \*\*\*\*\* THIS CASE SHOWS A POSSIBLE HOLED WINDSHIELD. \*\*\*\*\*  
CC0542 \*\*\*\*\* CHECK YOUR DATA AND IF CORRECT, NOTIFY YOUR ZONE \*\*\*\*\*  
CC0543 GLAZING WINDSHIELD IV31 equals 3 or 5 or CONTACT WINDSHIELD IV39  
CC0544 equals 4 or 6.

INTER ERRORS

MM0151 2 If FRONTAL AIR BAG SYSTEM DEPLOYMENT DA31 equals 7 and RECORDED  
MM0152 INJURIES DA70 equals 01-96 and 1st DIRECTION OF FORCE  
MM0153 EV06(mod20) equals 01, 02 or 10-12 and 1st DEFORMATION LOCATION  
MM0154 EV07 equals F and (MANUAL BELT USE DA19 equals 04 or 14 or  
MM0155 AUTOMATIC BELT USE DA24 equals 1), then A.I.S. SEVERITY OI10(n)  
MM0156 should equal 1. GV=02 DA=01

MM0141 2 \*\*\*\*\* THIS IS A SPECIAL INTEREST CASE FOR NHTSA \*\*\*\*\*  
MM0142 \*\*\*\*\* IT SHOWS AN AIR BAG NON DEPLOYMENT WITH \*\*\*\*\*  
MM0143 \*\*\*\*\* CONDITIONS OF DOF AND DELTA V WHICH WOULD \*\*\*\*\*  
MM0144 \*\*\*\*\* NORMALLY CAUSE DEPLOYMENT. CHECK YOUR DATA \*\*\*\*\*  
MM0145 \*\*\*\*\* AND IF CORRECT, NOTIFY YOUR ZONE CENTER. \*\*\*\*\*  
MM0146 FRONTAL AIR BAG SYSTEM DEPLOYMENT DA31 equals 7 and  
MM0147 ((LONGITUDINAL DELTA V GV60 equals 999 and  
MM0148 1st DIRECTION OF FORCE EV06 equals (10, 11, 12, 01 or 02)(mod20)  
MM0149 and 1st DEFORMATION EXTENT EV11 is greater than 01) or  
MM014a LONGITUDINAL DELTA V GV60 is less than -8). GV=02 DA=01

PSU45  
CASE 053B  
CURRENT VERSION: 9.00

ERROR SUMMARY SCREEN

██████████/96

FORM NAME	NUMBER OF DOLLAR SIGNS	NUMBER OF LEVEL 1 ERRORS	NUMBER OF LEVEL 2 ERRORS	VERSION NUMBER CONSISTENT
Accident	0	0	0	Y
<hr/>				
General Vehicle	0	0	3	Y
Vehicle Exterior	0	0	0	Y
Vehicle Interior	0	0	1	Y
Occupant Assessment	0	0	0	Y
Occupant Injury	0	0	0	Y
Total Inter Errors		0	2	
Total Case Errors	0	0	6	

OK ██████████







**PSU 45-053B (1996) #1**  
**Best Available**



**PSU 45-053B (1996) #2**  
**Best Available**



PSU 45-053B (1998) #3



PSU 45-053B (1996) #4



FSU 45-053B (1996) #5



PSU 45-053B (1996) #6



PSU 45-053B (1996) #7



**PSU 45-053B (1996) #8**



**PSU 45-053B (1996) #9**



**PSU 45-053B (1996) #10**  
**Best Available**



FSU 45-053B (1996) #11



PSU 45-053B (1996) #12



PSU 45-053B (1996) #13



PSU 45-053B (1996) #14  
Best Available



**PSU 45-053B (1996) #15**  
**Best Available**



PSU 45-053B (1996) #16



**FSU 45-053B (1996) #17**



**PSU 45-053B (1996) #18**



**PSU 45-053B (1996) #19**



PSU 45-053B (1996) #20



PSU 45-053B (1996) #21



PSU 45-053B (1996) #22



PSU 45-053B (1996) #23



PSU 45-053B (1996) #24



**FSU 45-053B (1996) #25**



**PSU 45-053B (1996) #26**



**PSU 45-053B (1996) #27**



**PSU 45-053B (1996) #28**



**FSU 45-053B (1996) #29**



PSU 45-053B (1996) #30



PSU 45-053B (1996) #31



PSU 45-053B (1996) #32



PSU 45-053B (1996) #33



PSU 45-053B (1996) #34



PSU 45-0538 (1996) #35



PSU 45-053B (1996) #36



PSU 45-053B (1996) #37



PSU 45-053B (1996) #38



PSU 45-053B (1996) #39



**FSU 45-053B (1996) #40**



PSU 45-053B (1986) #41



**PSU 45-053B (1996) #42**



PSU 45-053B (1996) #43



PSU 45-053B (1996) #44



PSU 45-053B (1996) #45



PSU 45-053B (1996) #46



PSU 45-053B (1996) #47



PSU 45-053B (1998) #48



**PSU 45-053B (1996) #49**



PSU 45-053B (1998) #50



PSU 45-053B (1996) #51



PSU 45-053B (1996) #52



PSU 45-053B (1996) #53



PSU 45-053B (1996) #54



PSU 45-053B (1996) #55



**PSU 45-053B (1996) #56**



**PSU 45-053B (1996) #57**



**PSU 45-053B (1996) #58**



PSU 45-063B (1996) #69



**PSU 45-063B (1998) #60**  
**Best Available**



FSU 45-053B (1996) #61



PSU 45-053B (1996) #62



PSU 45-053B (1996) #63



PSU 45-053B (1996) #64



**PSU 45-053B (1996) #65**



PSU 45-053B (1996) #66



PSU 45-053B (1996) #67



PSU 45-053B (1996) #68



PSU 45-053B (1996) #69



PSU 45-053B (1996) #70



**PSU 45-053B (1998) #71**



PSU 45-053B (1986) #72



PSU 45-053B (1996) #73



PSU 45-053B (1996) #74



PSU 45-053B (1998) #75



PSU 45-053B (1996) #76



PSU 45-053B (1996) #77



PSU 45-053B (1996) #78



PSU 45-053B (1996) #79



PSU 45-053B (1998) #80



PSU 45-053B (1996) #81



PSU 45-053B (1996) #82



**PSU 45-063B (1996) #83**



PSU 45-053B (1996) #84



PSU 45-053B (1996) #85



PSU 45-053B (1996) #66



PSU 45-053B (1996) #87



**PSU 45-053B (1996) #68**  
**Best Available**



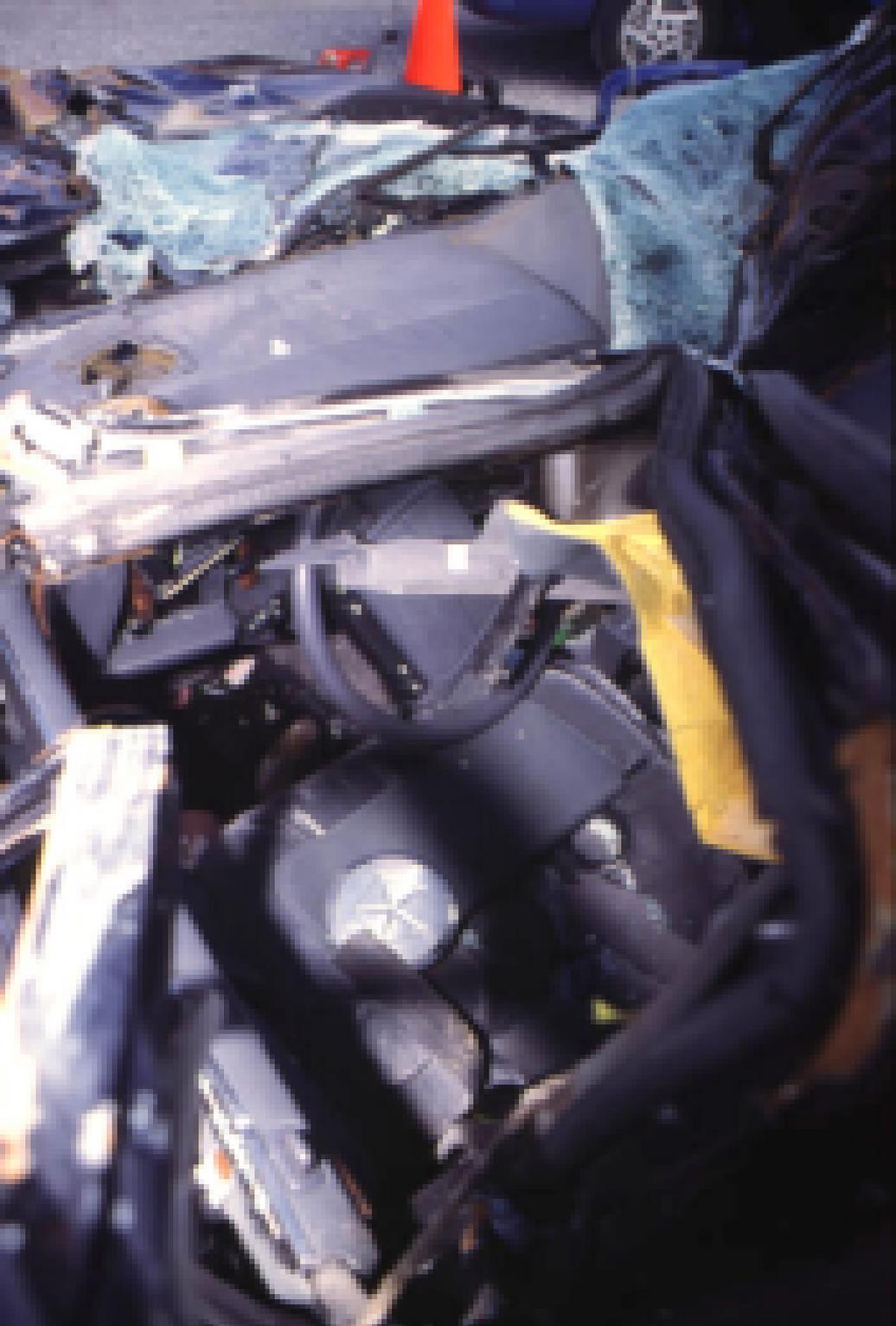
PSU 45-053B (1996) #89  
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**PSU 45-053B (1996) #92**  
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**PSU 45-053B (1996) #101**  
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**PSU 45-053B (1996) #102**

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**PSU 45-053B (1996) #103**

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PSU 45-053B (1995) #104



**PSU 45-053B (1996) #105**



PSU 45-053B (1996) #106



**PSU 45-053B (1996) #107**



PSU 45-053B (1996) #108



PSU 45-053B (1996) #109