



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 366-0123



### CASE SUMMARY

PSU 09 CASE NO. 010B TYPE OF ACCIDENT Head On - Fatal

#### 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.)

Vehicles one and two were traveling in opposite directions on a two lane road. V1 crossed the double yellow line and entered V2's lane. V1 and V2 struck head-on. Both vehicles were towed due to extreme damage. The driver of V1 was killed. The driver of V2 was hospitalized with "A" injuries.

#### 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	
01	Minivan	1992 Dodge Caravan	Front	Severe	None
02	Large Pickup	1990 Ford F-250	Front	Severe	L/F door latch - striker failure

DO NOT SANITIZE THIS FORM

PSU09

1996 Case Summary Form

CASE 010B

TYPE OF ACCIDENT: HEAD-ON FATAL

A. DESCRIPTION OF THE ACCIDENT SEQUENCE AND ACCIDENT PECULIARITIES

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01

PSU09

1996 Case Summary Form

CASE 010B

TYPE OF ACCIDENT: HEAD-ON FATAL

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
01	Minivan	1992 Dodge Caravan	Front	Severe	None
02	Large Pickup	1990 Ford F-250	Front	Severe	L/F Latch- Striker Failed

01

PSU09  
CASE 010B

1996 Case Summary Form

TYPE OF ACCIDENT: HEAD-ON FATAL

C. PERSON PROFILE(S)

Most Severe Injury  
(TO BE COMPLETED BY ZONE CENTER)

Vehicle No	Person Role	Seat Position	Restraint Use	Body Region	Injury Type	Most Severe Injury	
						AIS	Injury Source
01	Driver	L-Front	Lap/Shldr Air Bag	lung	contusion	1	steering wheel
02	Driver	L-Front	None	brain	other -> shearing injuries	5	impact force

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2

06

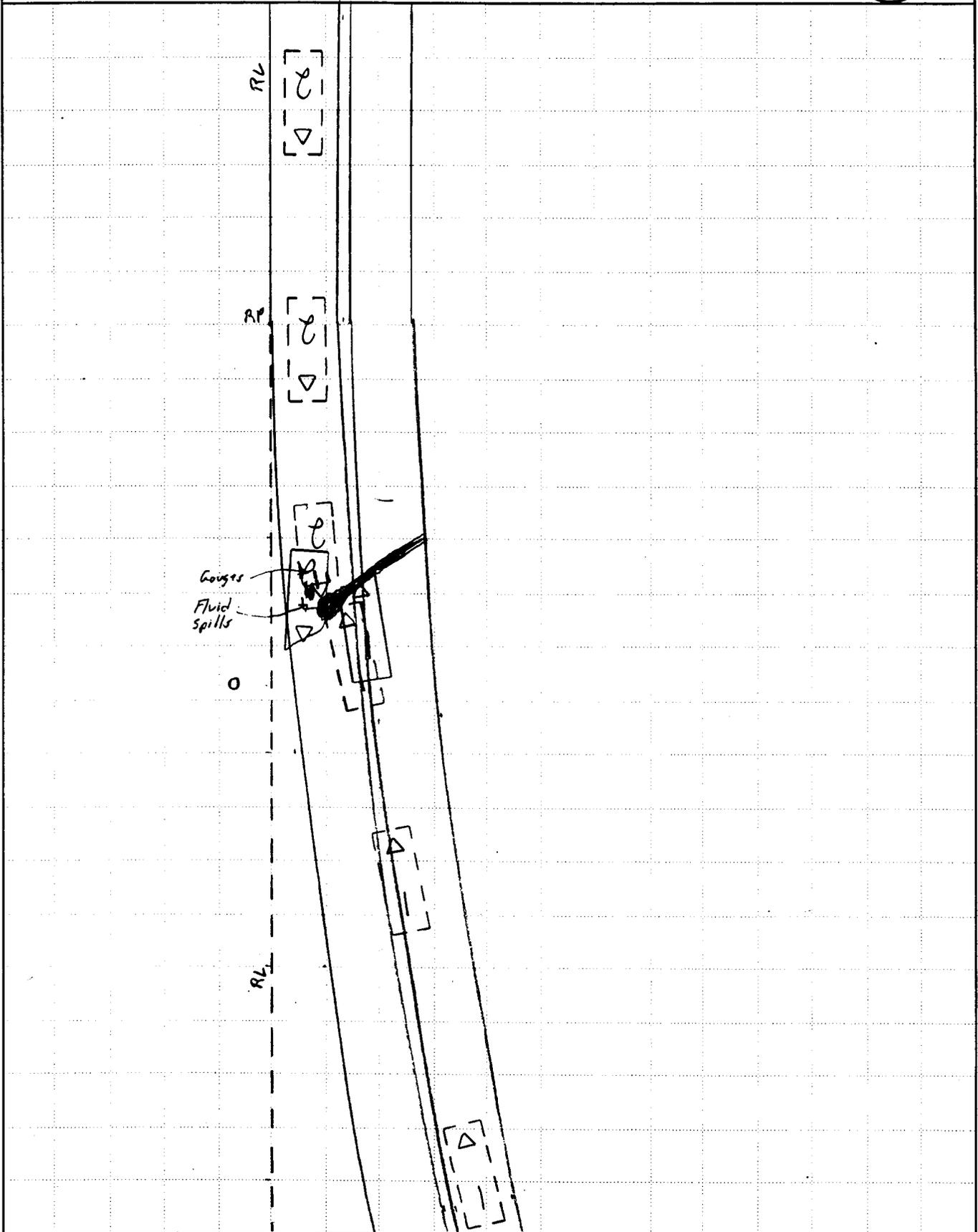


# ACCIDENT COLLISION DIAGRAM

PSU No. 09

Case Number—Stratum 010B

Indicate  
North



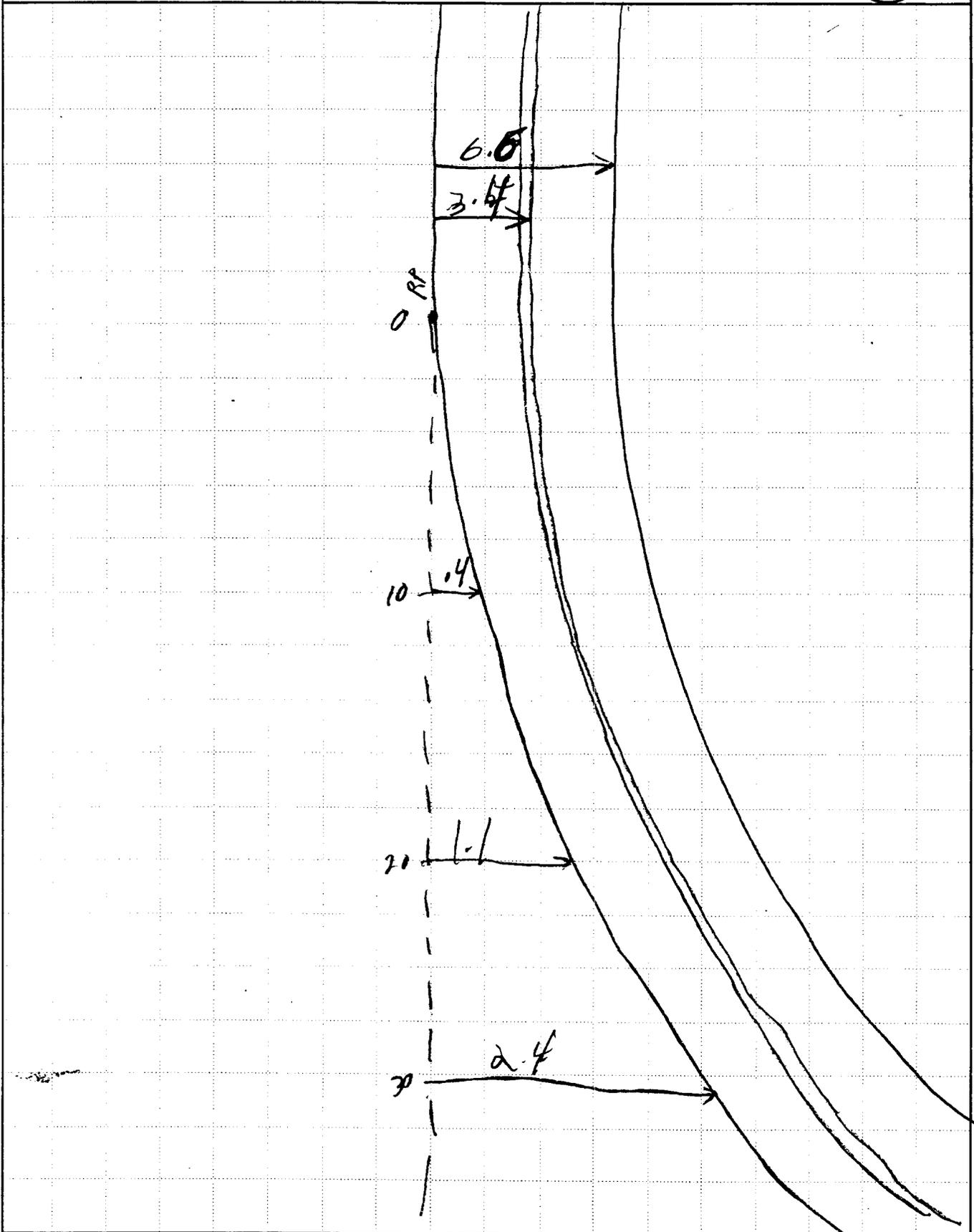


# ACCIDENT COLLISION DIAGRAM

PSU No. 09

Case Number—Stratum 010B

Indicate  
North





# ACCIDENT COLLISION MEASUREMENT TABLE

Primary Sampling Unit Number 09

Case Number - Stratum 010B

### 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	<u>255°</u>	<u>85°</u>	___
Surface Type	<u>bitume</u>	<u>bitume</u>	___
Surface Condition	<u>dry</u>	<u>dry</u>	___
Coefficient of Friction	___	___	___
Grade (v/h) Measurement (between impact and final rest)	<u>-.08</u>	<u>.08</u>	___
Grade (v/h) Measurement (at location of rollover initiation)	<u>N/A</u>	<u>N/A</u>	___
Grade (v/h) Measurement (at pre-crash location)	<u>-.09</u>	<u>.07</u>	___

Reference Point: Opt of 30m tape -  
Curve Documentation

Reference line: South fog line  
extended

Item	Distance and Direction from Reference Point	Distance and Direction from Reference Line
Gauge #1	12.2 E	1.6 N
Gauge #2	12.2 E	2.1 N
Gauge #3	12.1 E	2.7 N
Gauge #4	11.8 E	2.1 N
Fluid Spill	12.6 E	1.8 N
Fluid Spill drainage begin	13.6 E	2.5 N
Fluid Spill drainage End	10.2 E	8.0 N
Telephone pole	16.8 E E	1.8 S





# ACCIDENT FORM

1. Primary Sampling Unit Number 09  
2. Case Number - Stratum 010B

## IDENTIFICATION

3. Number of General Vehicle Forms Submitted 02  
4. Date of Accident (Month, Day, Year)      /      / 9 6  
5. Time of Accident 1236

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>20</u>	15. <u>F</u>	16. <u>02</u>	17. <u>31</u>	18. <u>F</u>
19. <u>0 2</u>	20. <u>    </u>	21. <u>    </u>	22. <u>    </u>	23. <u>    </u>	24. <u>    </u>	25. <u>    </u>
26. <u>0 3</u>	27. <u>    </u>	28. <u>    </u>	29. <u>    </u>	30. <u>    </u>	31. <u>    </u>	32. <u>    </u>
33. <u>0 4</u>	34. <u>    </u>	35. <u>    </u>	36. <u>    </u>	37. <u>    </u>	38. <u>    </u>	39. <u>    </u>
40. <u>0 5</u>	41. <u>    </u>	42. <u>    </u>	43. <u>    </u>	44. <u>    </u>	45. <u>    </u>	46. <u>    </u>

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>_____<br>(99) Unknown event or object |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



# GENERAL VEHICLE FORM

1. Primary Sampling Unit Number 09  
 2. Case Number - Stratum 010B  
 3. Vehicle Number 01

12. Speed Limit 064  
 (000) No statutory limit  
 Code posted or statutory speed limit in kmph  
 (999) Unknown  
40 mph X 1.6093 = 064 kmph

## VEHICLE IDENTIFICATION

4. Vehicle Model Year 92  
 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): 07  
Dodge  
 Applicable codes are found in your  
 NASS Data Collection, Coding and  
 Editing Manual.  
 (99) Unknown

14. Alcohol Test Result For Driver 96  
 Code actual value (decimal implied  
 before first digit—0.xx) 00  
 (95) Test refused  
 (96) None given  
 (97) AC test performed, results unknown  
 (98) No driver present  
 (99) Unknown

6. Vehicle Model (specify): 442  
Caravan  
 Applicable codes are found in your  
 NASS Data Collection, Coding and  
 Editing Manual.  
 (999) Unknown

Source: PAR 

7. Body Type 20  
 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  
1B4GH54R7N   
 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   
 (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 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): \_\_\_\_\_  
 (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

# 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	
<p>19. Relation To Interchange Or Junction <u>0</u></p> <p>(0) Non-interchange area and non-junction (1) Interchange area related</p> <p><i>Non-Interchange junctions</i></p> <p>(2) Intersection related (3) Driveway, alley access related (4) Other junction (specify) _____</p> <p>(5) Unknown type of junction _____</p> <p>(9) Unknown</p>	<p>25. Roadway Surface Condition <u>1</u></p> <p>(1) Dry (2) Wet (3) Snow or slush (4) Ice (5) Sand, dirt, or oil (8) Other (specify): _____ (9) Unknown</p>
<p>20. Trafficway Flow <u>0</u></p> <p>(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</p>	<p>26. Light Conditions <u>1</u></p> <p>(1) Daylight (2) Dark (3) Dark, but lighted (4) Dawn (5) Dusk (9) Unknown</p>
<p>21. Number Of Travel Lanes <u>2</u></p> <p>(1) One (2) Two (3) Three (4) Four (5) Five (6) Six (7) Seven or more (9) Unknown</p>	<p>27. Atmospheric Conditions <u>0</u></p> <p>(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): _____</p> <p>(9) Unknown</p>
<p>22. Roadway Alignment <u>2</u></p> <p>(1) Straight (2) Curve right (3) Curve left (9) Unknown</p>	<p>28. Traffic Control Device <u>0</u></p> <p>(0) No traffic control(s) (1) Traffic control signal (not RR crossing)</p> <p><i>Regulatory</i></p> <p>(2) Stop sign (3) Yield sign (4) School zone sign (5) Other regulatory sign (specify): _____</p> <p>(6) Warning sign (not RR crossing) (7) Unknown sign (8) Miscellaneous/other controls including RR controls (specify): _____</p> <p>(9) Unknown</p>
<p>23. Roadway Profile <u>1</u></p> <p>(1) Level (2) Uphill grade (&gt; 2%) (3) Hill crest (4) Downhill grade (&gt; 2%) (5) Sag (9) Unknown</p>	<p>29. Traffic Control Device Functioning <u>0</u></p> <p>(0) No traffic control device (1) Traffic control device not functioning (specify): _____</p> <p>(2) Traffic control device functioning properly (9) Unknown</p>
<p>24. Roadway Surface Type <u>2</u></p> <p>(1) Concrete (2) Bituminous (asphalt) (3) Brick or block (4) Slag, gravel, or stone (5) Dirt (8) Other (specify): _____ (9) Unknown</p>	

**PRECRASH DRIVER RELATED DATA**

30. Driver's Distraction/Inattention To Driving 97  
 (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) 14
- (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 10
- 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

<p>33. Attempted Avoidance Maneuver <u>99</u></p> <p>(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</p> <p>34. Pre-Impact Stability <u>9</u></p> <p>(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</p>	<p>35. Pre-Impact Location <u>2</u></p> <p>(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</p> <p>36. Accident Type <u>50</u></p> <p>(Note: Applicable codes on back of this page)</p> <p>(00) No impact Code the number of the diagram that best describes the accident circumstance (98) Other accident type (specify): _____ (99) Unknown</p>
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**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 DECCEL. 28, 30, 31	26 AVOID COLLISION WITH VEH.	28 AVOID COLLISION WITH OBJECT	29 AVOID COLLISION WITH OBJECT	(EACH • 32) SPECIFICS OTHER	(EACH • 33) SPECIFICS UNKNOWN		
	E. Forward Impact	34 CONTROL/ TRACTION LOSS	35 CONTROL/ TRACTION LOSS	36 CONTROL/ TRACTION LOSS	37 AVOID COLLISION WITH VEH.	38 AVOID COLLISION WITH VEH.	39 AVOID COLLISION WITH VEH.	40 AVOID COLLISION WITH OBJECT	41 AVOID COLLISION WITH OBJECT	(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	55 CONTROL/ TRACTION LOSS	56 CONTROL/ TRACTION LOSS	57 CONTROL/ TRACTION LOSS	58 AVOID COLLISION WITH VEH.	59 AVOID COLLISION WITH VEH.	60 AVOID COLLISION WITH VEH.	61 AVOID COLLISION WITH VEH.	(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	70 INITIAL SAME DIRECTIONS	71 INITIAL SAME DIRECTIONS	72 INITIAL SAME DIRECTIONS	73 INITIAL SAME DIRECTIONS	74 INITIAL SAME DIRECTIONS	75 INITIAL SAME DIRECTIONS	(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	84 TURN INTO OPPOSITE DIRECTIONS	(EACH • 84) SPECIFICS OTHER
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 1
  - (0) Driver not present
  - (1) Driver present
  - (9) Unknown
- 38. Number of Occupants This Vehicle 01
  - (00-96) Code actual number of occupants for this vehicle
  - (97) 97 or more
  - (99) Unknown
- 39. Number of Occupant Forms Submitted 01

**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 2
  - (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 1680
  - Code weight to nearest 10 kilograms.
  - (045) Less than 454 kilograms
  - (612) 6,124 kilograms or more
  - (999) Unknown

3,575 lbs X .4536 = 1628 kgs

Source: 27130 (93)

- 44. Vehicle Cargo Weight 0,020
  - Code weight to nearest 10 kilograms.
  - (000) Less than 5 kilograms
  - (454) 4,536 kilograms or more
  - (999) Unknown

40 lbs X .4536 = 18 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 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)

- 51. Front Override/Underride (this Vehicle) 0
- 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

ACCIDENT RECONSTRUCTION PROGRAMS HIGHEST DELTA V

- 58. Basis for Total (Resultant) Delta V (highest) OT  
98
  - (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):  
\_\_\_\_\_  
\_\_\_\_\_

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 255
- 54. Heading Angle For Other Vehicle 085

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

(98) Other, (specify): Results are too high because coded

COMPUTER GENERATED CRASH SEVERITY

59. Total Delta V Highest

~~095~~

\_\_\_\_\_ Nearest kmph (highest) 999

\_\_\_\_\_ 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

~~+089~~

\_\_\_\_\_ Nearest kmph (highest) 999

\_\_\_\_\_ 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

~~-032~~

\_\_\_\_\_ Nearest kmph (highest) 999

\_\_\_\_\_ 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

~~390.200~~

\_\_\_\_\_ Nearest 100 joules (highest) 9999

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

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

63. Impact Speed Highest

~~998~~

\_\_\_\_\_ Nearest kmph (highest) 999

\_\_\_\_\_ 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) OK

- (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

~~075~~ ✓

70.8 \_\_\_\_\_ Nearest kmph (highest) 071

\_\_\_\_\_ 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>0</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  (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> <hr/> <p style="text-align: center;"><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>09</u>	3. Vehicle Number <u>01</u>
2. Case Number - Stratum <u>010B</u>	

## VEHICLE IDENTIFICATION

VIN 1B4GH54R7NX XXXXXXXXXX Model Year 92

Vehicle Make (specify): Dodge Vehicle Model (specify): Caravan

## 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
<u>01</u>	<u>Starts H/F corner → right</u>	<u>Entire Front Bumper</u>	<u>C1</u>

## 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								
<u>01</u>	<u>Bumper</u>	<u>85</u>	<u>C1</u>	<u>101</u>	<u>109</u>	<u>96</u>	<u>84</u>	<u>76</u>	<u>52</u>	<u>25</u>	<u>-35</u>
	<u>Bumper Width</u>				<u>-9</u>	<u>-9</u>	<u>-9</u>	<u>-9</u>	<u>-9</u>	<u>-9</u>	
	<u>Free space</u>				<u>-10</u>	<u>-3</u>	<u>-1</u>	<u>-1</u>	<u>-1</u>	<u>-10</u>	
<u>01</u>	<u>Final</u>	<u>85</u>	<u>C1</u>	<u>101</u>	<u>90</u>	<u>84</u>	<u>74</u>	<u>66</u>	<u>42</u>	<u>6</u>	<u>-35</u>

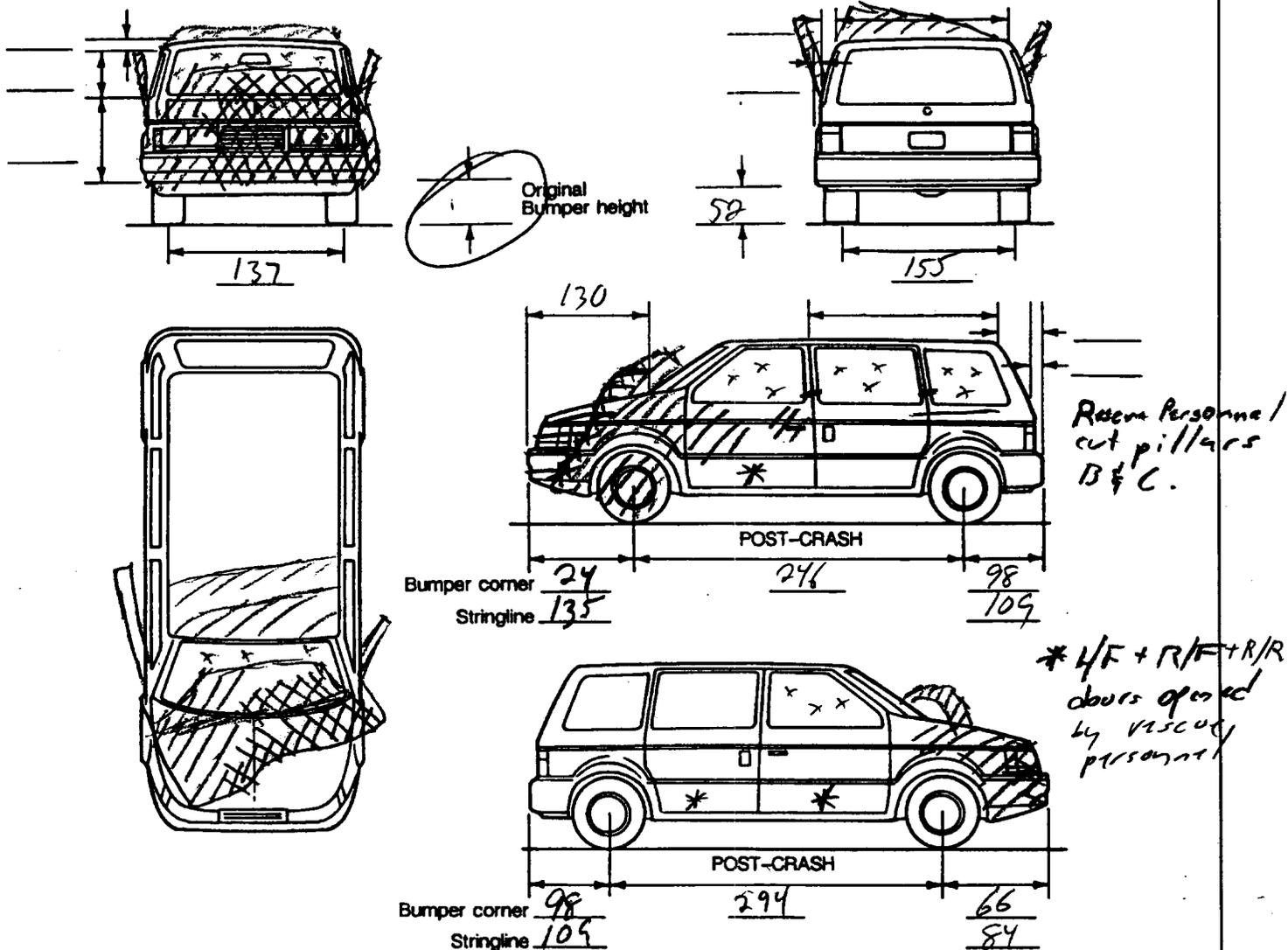
ORIGINAL SPECIFICATIONS WORK SHEET

Wheelbase	<u>119.3</u>	inches	x 2.54	=	<u>303</u>	cm
Overall Length	<u>192.8</u>	inches	x 2.54	=	<u>490</u>	cm
Maximum Width	<u>72.0</u>	inches	x 2.54	=	<u>183</u>	cm
Curb Weight	<u>3575</u>	pounds	x .4536	=	<u>1622</u>	kg
Average Track	_____	inches	x 2.54	=	_____	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	=	<u>33</u>	L
	_____	CID	x .0164	=	_____	L

**VEHICLE DAMAGE SKETCH**

<p><b>TIRE—WHEEL DAMAGE</b></p> <p>a. Rotation physically restricted      b. Tire deflated</p> <p>RF <u>2</u>      RF <u>2</u>                  LF <u>1</u>      LF <u>1</u>                  RR <u>1</u>      RR <u>1</u>                  LR <u>2</u>      LR <u>1</u></p> <p>(1) Yes (2) No (8) NA (9) Unk.</p>	<p><b>ORIGINAL SPECIFICATIONS</b></p> <p>Wheelbase <u>303</u> cm                  Overall Length <u>490</u> cm                  Maximum Width <u>183</u> cm                  Curb Weight <u>1622</u> kg                  Average Track _____ cm                  Front Overhang _____ cm                  Rear Overhang _____ cm                  Undeformed End Width <u>172</u> cm                  Engine Size: cyl./displ. <u>3.3</u> L</p>	<p><b>WHEEL STEER ANGLES</b>                  (For locked front wheels or displaced rear axles only)</p> <p>RF ± _____ °                  LF ± <u>00</u> °                  RR ± _____ °                  LR ± _____ °</p> <p>Within ± 5 degrees</p>
<p><b>TYPE OF TRANSMISSION</b></p> <p><input type="checkbox"/> Manual    <input checked="" type="checkbox"/> Automatic</p> <p>END SHIFT ≥ 10 CM</p> <p><input checked="" type="checkbox"/> Yes    <input type="checkbox"/> No</p>	<p><b>DRIVE WHEELS</b></p> <p><input checked="" type="checkbox"/> FWD    <input type="checkbox"/> RWD    <input type="checkbox"/> 4WD</p>	<p>Approximate Cargo Weight <u>4015</u> <del>kg</del></p>

**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.



**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>02</u>	6. <u>11</u>	7. <u>F</u>	8. <u>Y</u>	9. <u>E</u>	10. <u>w</u>	11. <u>04</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. L	21. C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	C <sub>6</sub>	22. ±D
<u>172</u>	<u>090</u>	<u>084</u>	<u>074</u>	<u>066</u>	<u>042</u>	<u>006</u>	<u>+ 035</u>

Second Highest Delta "V"

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

26. Undeformed End Width  
(Coded when highest severity impact is an end plane impact.) 172  
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) 085  
Code to the nearest centimeter  
(250) 250 centimeters or more  
(999) Unknown

28. Original Wheelbase 303  
Code to the nearest centimeter  
(650) 650 centimeters or more  
(999) Unknown  
119.7 inches X 2.54 = 303 centimeters

29. Original Average Track Width 155  
Code to the nearest centimeter  
(185) 185 centimeters or more  
(999) Unknown  
\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ 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

35. Location of Fuel Tank-1 Filler Cap 4

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

**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





**GLAZING**

1. Primary Sampling Unit Number 09  
 2. Case Number - Stratum 0103  
 3. Vehicle Number 01

Type of Window/Windshield Glazing  
 15. WS 1 16. LF 2 17. RF 2 18. LR 3 19. RR 3  
 20. BL 3 21. Roof 0 22. Other 3

**INTEGRITY**

4. Passenger Compartment Integrity 12  
 (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):  
 \_\_\_\_\_  
 (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 Pre-crash Glazing Status**

23. WS 1 24. LF 9 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 3 7. LR 0 8. RR 3 9. TG/H 1

- (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 6 34. LR 9 35. RR 1  
 36. BL 1 37. Roof 0 38. Other 9

- (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

**Glazing Damage from Occupant Contact**

39. WS 1 40. LF 1 41. RF 1 42. LR 1 43. RR 1  
 44. BL 1 45. Roof 0 46. Other 1

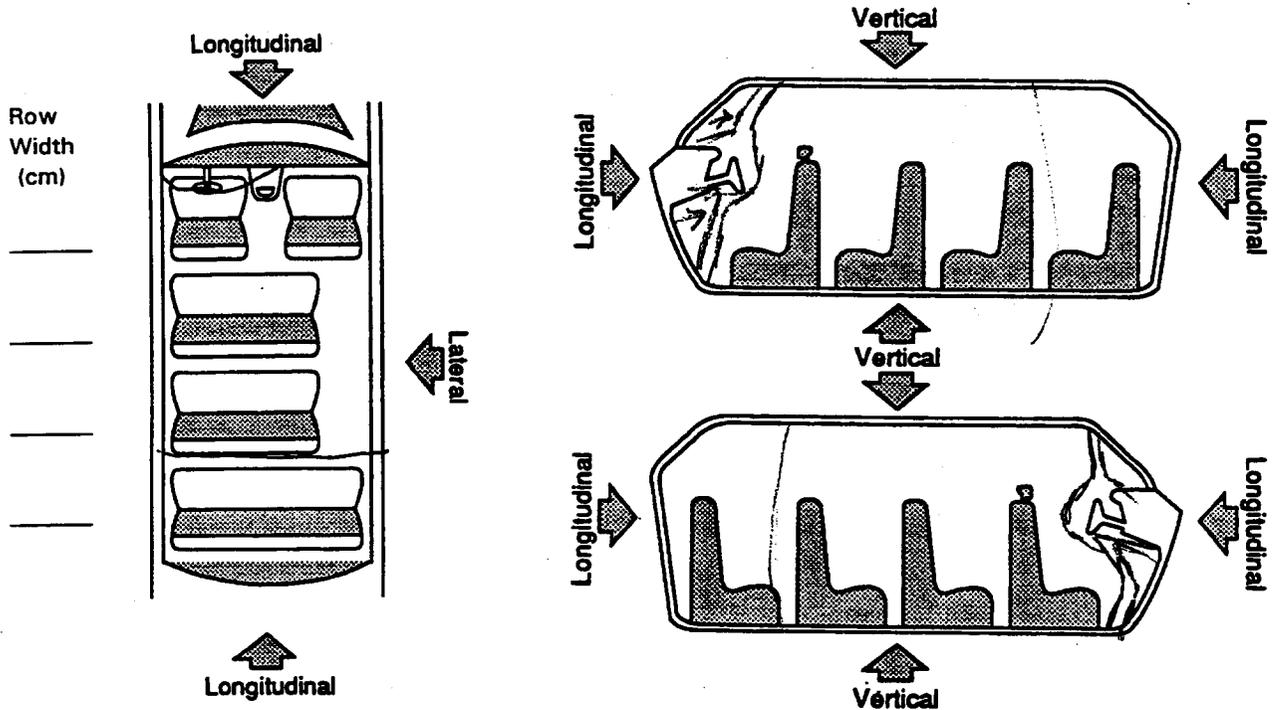
- (0) No glazing
- (1) No occupant contact to glazing
- (2) Glazing contacted by occupant but no glazing damage
- (3) Glazing in place and cracked by occupant contact
- (4) Glazing in place and holed by occupant contact
- (5) Glazing out-of-place (cracked or not) by occupant contact and not holed by 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

**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

# 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	06 A Pillar	78	-	50	=	28	2
11	16 w/s header	55	-	50	=	5	2
11	02 L Inst Panel	55	-	32	=	23	2
11	05 Toe Pan	56	-	22	=	34	2
11	01 Spring Assembly	Unknown	-	Cut OFF	=	—	2
11	15 w/s	76	-	48	=	28	2
12	16 w/s header	55	-	52	=	3	2
12	03 C Inst Panel	55	-	44	=	11	2
12	15 w/s	76	-	40	=	36	2
13	16 w/s header	55	-	55	=	0	2
13	04 R Inst panel	55	-	49	=	6	2
13	15 w/s	76	-	67	=	9	2
13	05 Toe Pan	56	-	54	=	2	2
			-		=		
			-		=		

### OCCUPANT AREA INTRUSION

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

	Location of Intrusion	Intruding Component	Magnitude of Intrusion	Dominant Crush Direction
1st	47. <u>12</u>	48. <u>15</u>	49. <u>4</u>	50. <u>2</u>
2nd	51. <u>11</u>	52. <u>05</u>	53. <u>4</u>	54. <u>2</u>
3rd	55. <u>11</u>	56. <u>06</u>	57. <u>3</u>	58. <u>2</u>
4th	59. <u>11</u>	60. <u>15</u>	61. <u>3</u>	62. <u>2</u>
5th	63. <u>11</u>	64. <u>02</u>	65. <u>3</u>	66. <u>2</u>
6th	67. <u>12</u>	68. <u>03</u>	69. <u>2</u>	70. <u>2</u>
7th	71. <u>13</u>	72. <u>15</u>	73. <u>2</u>	74. <u>2</u>
8th	75. <u>13</u>	76. <u>04</u>	77. <u>1</u>	78. <u>2</u>
9th	79. <u>11</u>	80. <u>16</u>	81. <u>1</u>	82. <u>2</u>
10th	83. <u>12</u>	84. <u>16</u>	85. <u>1</u>	86. <u>2</u>

**LOCATION OF INTRUSION**

- |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Front Seat</b></p> <ul style="list-style-type: none"> <li>(11) Left</li> <li>(12) Middle</li> <li>(13) Right</li> </ul> <p><b>Second Seat</b></p> <ul style="list-style-type: none"> <li>(21) Left</li> <li>(22) Middle</li> <li>(23) Right</li> </ul> <p><b>Third Seat</b></p> <ul style="list-style-type: none"> <li>(31) Left</li> <li>(32) Middle</li> <li>(33) Right</li> </ul> | <p><b>Fourth Seat</b></p> <ul style="list-style-type: none"> <li>(41) Left</li> <li>(42) Middle</li> <li>(43) Right</li> </ul> <p>(97) Catastrophic</p> <p>(98) Other enclosed area (specify) _____</p> <p>(99) Unknown _____</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**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

**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 9

- (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 99

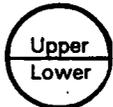
- Code actual measured 99
- deformation to the nearest centimeter
- (00) No steering rim deformation
- (01-14) Actual measured value in centimeters
- (15) 15 centimeters or more
- (98) Observed deformation cannot be measured
- (99) Unknown

91. Location of Steering Rim/Spoke Deformation 99

- (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 050,000

- \_\_\_\_\_ 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
- 30,816 miles x 1.6093 = 49,592 kilometers

Source: \_\_\_\_\_

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)? 1

- (0) No glove compartment door
- (1) No - door did not open
- (2) Yes - door opened
- (9) Unknown

97. Adaptive (Assistive) Driving Equipment 0

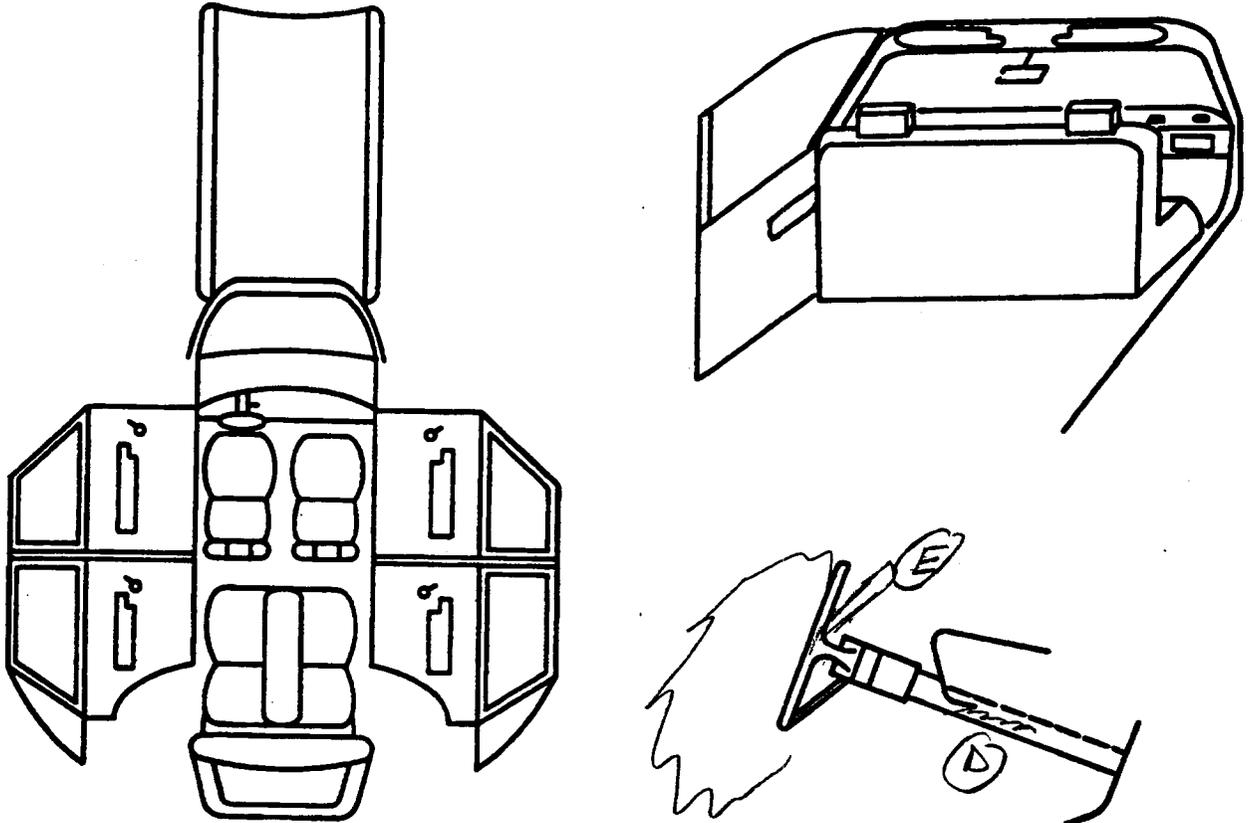
- (0) No adaptive driving equipment
- (1) Adaptive driving equipment installed (Check all that apply.)
- Hand controls for braking/acceleration
- Steering control devices (attached to OEM steering wheel)
- Steering knob attached to steering wheel
- Low effort power steering (unit or device)
- Replacement 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

*Damage not be due to increased due to air bag damage*

### 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	014	1	L-Leg	Panel knocked out + intruded to the	1
B	014	1	R-Leg	point of pinning occupant in	1
C	170	1	Unknown	Large amount of blood + tissue	1
D	007	1	Chest	Large scuff on bottom of column	1
E	001	1	Chest	Top of wheel pushed forward	1
F					
G					
H					
I					
J					
K					
L					
M					
N					

**CODES FOR INTERIOR COMPONENTS**

**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): \_\_\_\_\_

**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	/	4
	B-Evidence of usage	04		04
	C-Used in this crash?	04		00
	D-Proper Use	1		0
	E-Failure Modes	1		0
	F-Anchorage Adjustment	1		1
<b>S E C O N D</b>	A-Availability	4	/	4
	B-Evidence of usage	04		04
	C-Used in this crash?	00		00
	D-Proper Use	0		0
	E-Failure Modes	0		0
	F-Anchorage Adjustment	1		1
<b>O T H E R</b>	A-Availability	4	3	4
	B-Evidence of usage	04	99	04
	C-Used in this crash?	00	00	00
	D-Proper Use	0	0	0
	E-Failure Modes	0	0	0
	F-Anchorage Adjustment	1	0	1

**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) \_\_\_\_\_
- (03) Shoulder belt
- (04) Lap belt
- (05) Lap and shoulder belt
- (06) Belt used - type unknown
- (08) Other belt used (specify): \_\_\_\_\_
- (12) \_\_\_\_\_
- (13) Shoulder belt used with child safety seat
- (14) Lap belt used with child safety seat
- (15) Lap and shoulder belt used with child safety seat
- (16) 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			
	Deployment			
	Failure			

- |                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Air Bag System Availability/Function</b></p> <p>(0) Not equipped/not available<br/>(1) Air bag</p> <p><i>Non-functional</i></p> <p>(2) Air bag disconnected (specify): _____</p> <p>(3) Air bag not reinstalled</p> <p>(9) Unknown</p> | <p><b>Air Bag System Deployment (This Occupant Position)</b></p> <p>(0) Not equipped/not available<br/>(1) Deployed during accident (as a result of impact)<br/>(2) Deployed inadvertently just prior to accident<br/>(3) Deployed, accident sequence undetermined<br/>(4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)<br/>(5) Unknown if deployed<br/>(7) Nondeployed<br/>(9) Unknown</p> | <p><b>Are There Indications of Air Bag System Failure? (This Occupant Position)</b></p> <p>(0) Not equipped/not available<br/>(1) No<br/>(2) Yes (specify): _____<br/>(9) Unknown</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**AUTOMATIC BELTS**

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

- |                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>A-Automatic (Passive) Belt System Availability/Function</b></p> <p>(0) Not equipped/not available<br/>(1) 2 point automatic belts<br/>(2) 3 point automatic belts<br/>(3) Automatic belts - type unknown</p> <p><i>Non-functional</i></p> <p>(4) Automatic belts destroyed or rendered inoperative<br/>(9) Unknown</p> | <p><b>D-Proper Use of Automatic (Passive) Belt System</b></p> <p>(0) Not equipped/not available/not used<br/>(1) Automatic belt used properly<br/>(2) Automatic belt used properly with child safety seat</p> <p><i>Automatic Belt Used Improperly</i></p> <p>(3) Automatic shoulder belt worn under arm<br/>(4) Automatic shoulder belt worn behind back<br/>(5) Automatic belt worn around more than one person<br/>(6) Lap portion of automatic belt worn on abdomen<br/>(7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): _____</p> <p>(8) Other improper use of automatic belt system (specify): _____<br/>(9) Unknown</p> | <p><b>E-Automatic (Passive) Belt Failure Modes During Accident</b></p> <p>(0) Not equipped/not available/not in use<br/>(1) No automatic belt failure(s)<br/>(2) Torn webbing (stretched webbing not included)<br/>(3) Broken buckle or latchplate<br/>(4) Upper anchorage separated<br/>(5) Other anchorage separated (specify): _____<br/>(6) Broken retractor<br/>(7) Combination of above (specify): _____<br/>(8) Other automatic belt failure (specify): _____<br/>(9) Unknown</p> |
| <p><b>B-Automatic (Passive) Belt System Use</b></p> <p>(0) Not equipped/not available/destroyed or rendered inoperative<br/>(1) Automatic belt in use<br/>(2) Automatic belt not in use (manually disconnected, motorized track inoperative)<br/>(3) Automatic belt use unknown<br/>(9) Unknown</p>                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p><b>C-Automatic (Passive) Belt System Type</b></p> <p>(0) Not equipped/not available<br/>(1) Non-motorized system<br/>(2) Motorized system<br/>(9) Unknown</p>                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

# 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	/
B-Flaps open at tear points?	2	/
C-Flaps damaged?	1	/
D-Air bag damaged?	0/	/
E-Source of air bag damage	0/	/
F-Air bag tethered?	2	/
G-Air bag have vent ports?	2	/
H-Other occupant contact air bag?	1	/
I-Occupant wearing eyewear?	4	/

**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):

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

**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): 2
- (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): 2
- (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?**

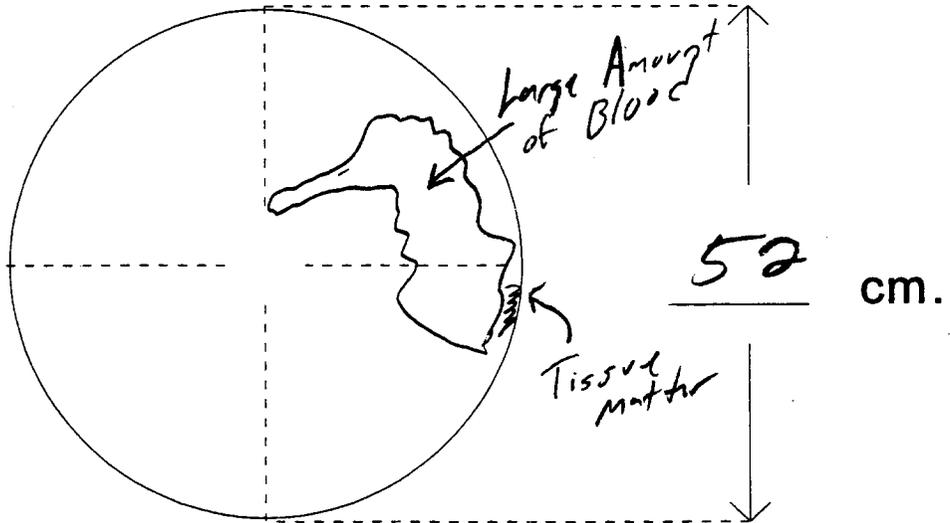
- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if other occupant contact to air bag
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

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

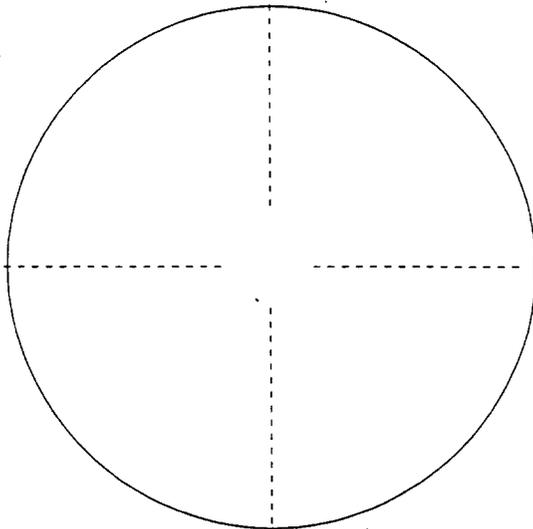
- (0) Not equipped/not available
- (1) No
- (2) Eyeglasses/sunglasses
- (3) Contact lenses
- (4) Deployed, unknown if eyewear worn
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

**DRIVER AIR BAG DAMAGE AND CONTACT SKETCHES**

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



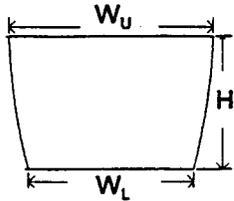
2. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Back)



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

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

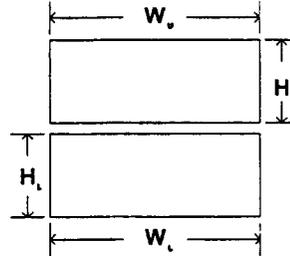
width ( $W_U$ ) \_\_\_\_\_ width ( $W_L$ ) \_\_\_\_\_  
 height (H) \_\_\_\_\_



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

a. Upper Flap                      b. Lower Flap

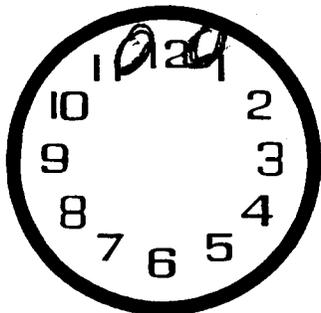
width ( $W_U$ ) 18                      width ( $W_L$ ) 18  
 height ( $H_U$ ) 7                      height ( $H_L$ ) 7



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

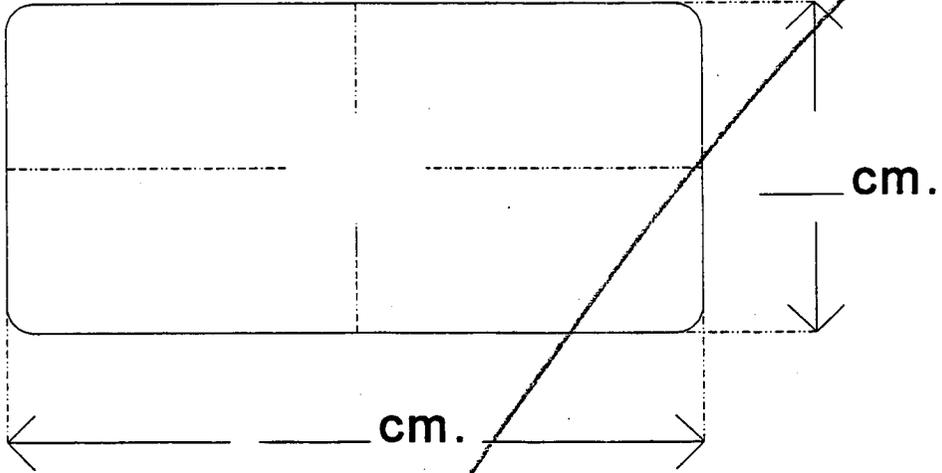
6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS

7. SKETCH LOCATION OF CIRCULAR AIR BAG VENT PORTS

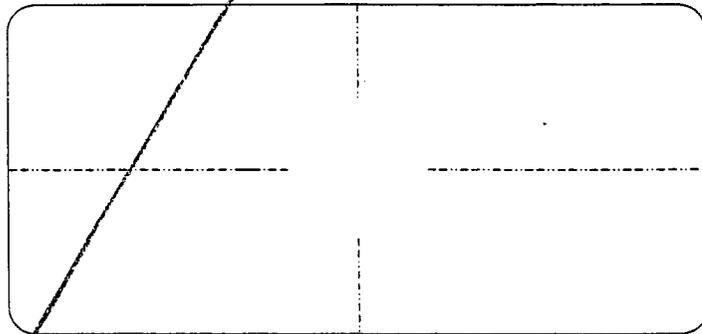


**PASSENGER AIR BAG DAMAGE AND CONTACT SKETCHES**

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



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

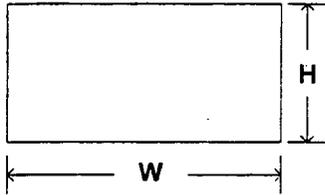


**PASSENGER AIR BAG SKETCHES (Cont'd)**

**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

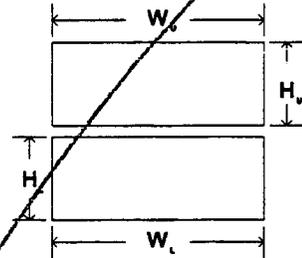
b. Lower Flap

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

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

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

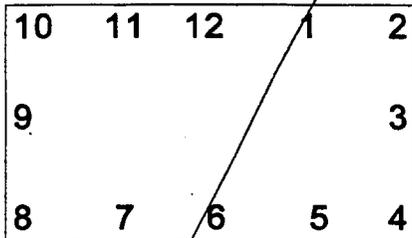
height ( $H_L$ ) \_\_\_\_\_



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

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

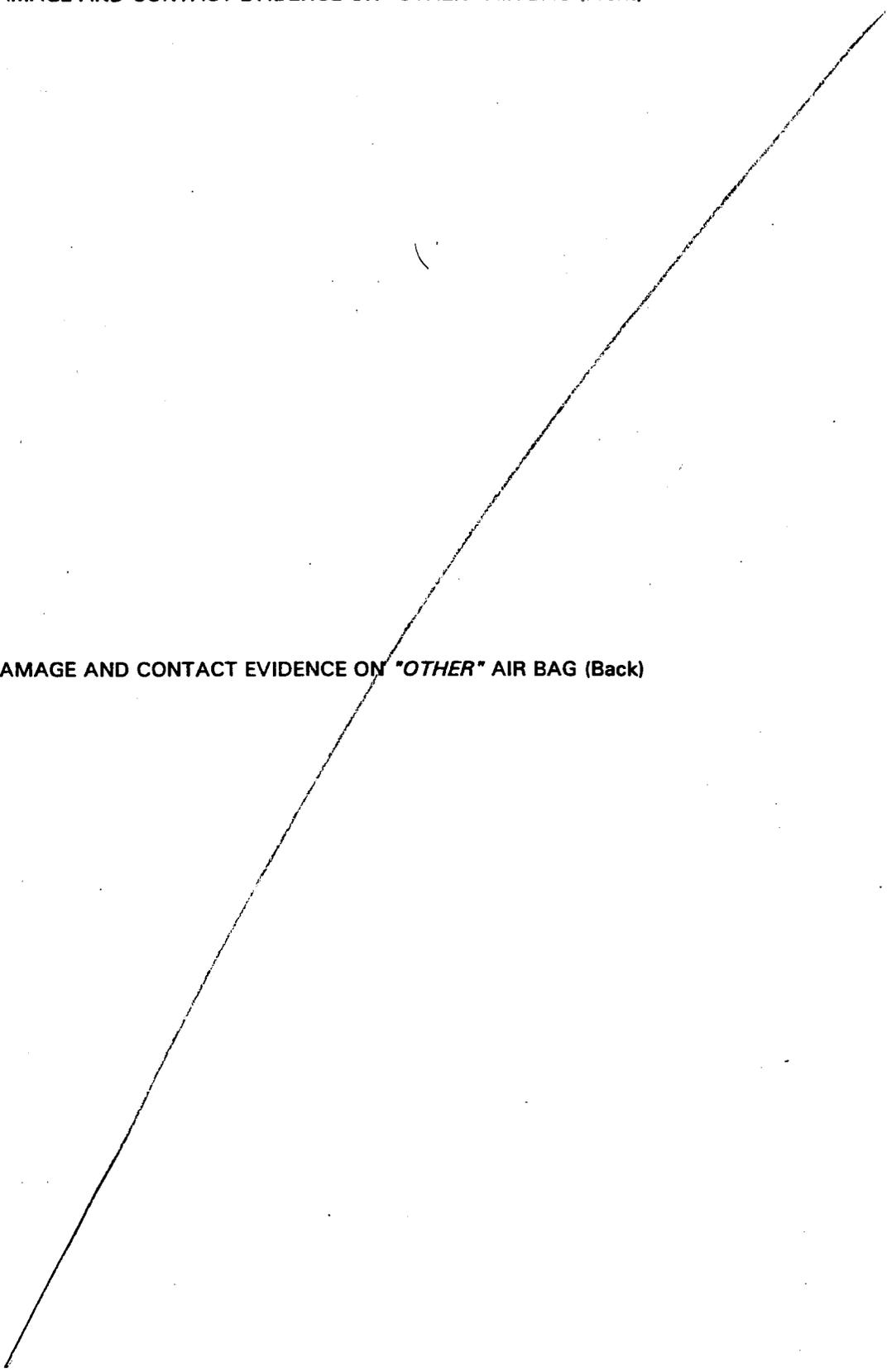
**7. SKETCH LOCATION OF RECTANGULAR AIR BAG VENT PORTS**



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

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

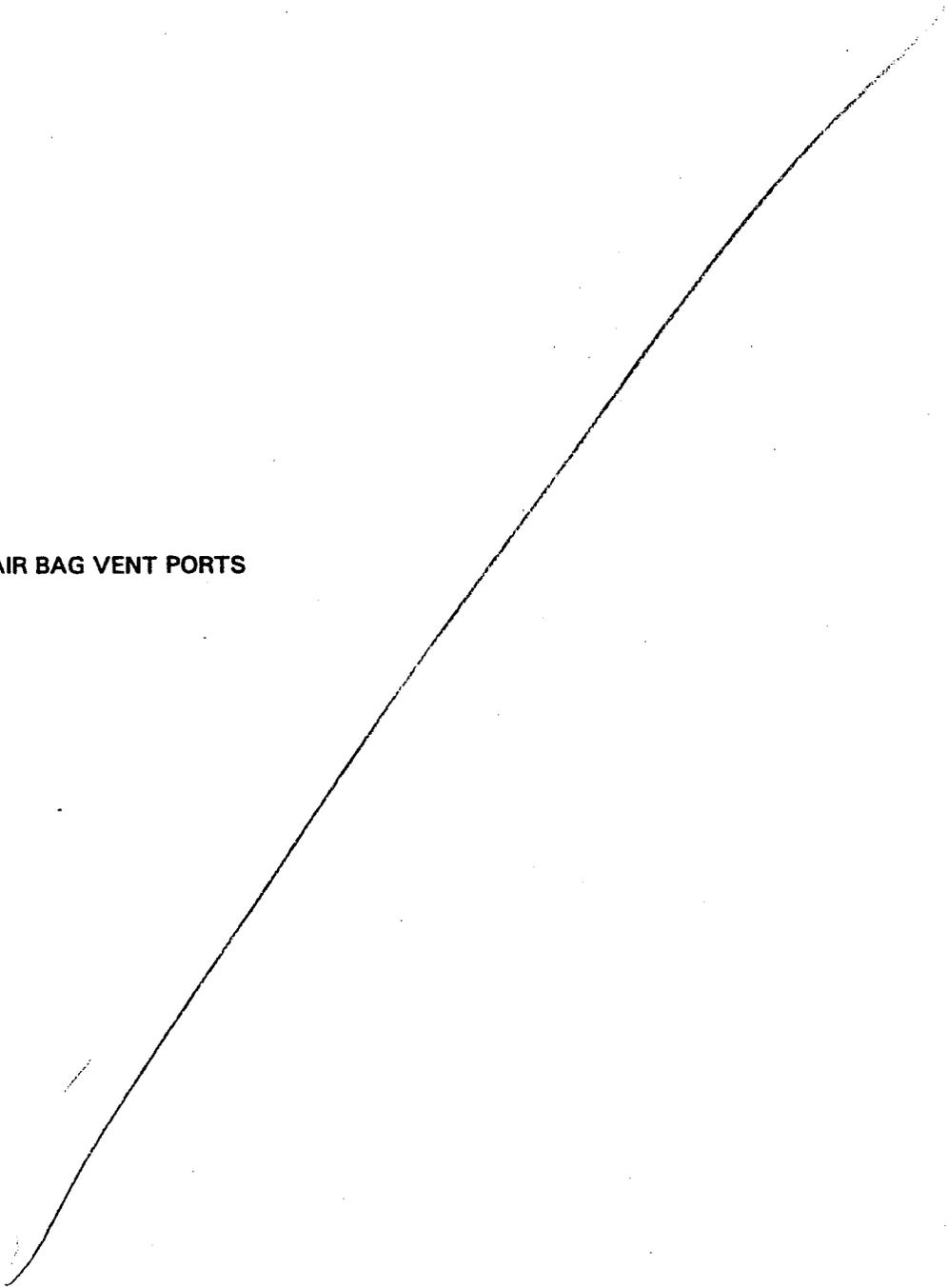
2. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Back)



**"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
FIRST	A-Head Restraint Type/Damage	399 - removed inspection		3
	B-Seat Type	01		01
	C-Seat Orientation	1		0
	D-Seat Track Position	4		0
	E-Seat Back Incline Pre/Post Impact	14		00
	F-Seat Performance	1		0
SECOND	A-Head Restraint Type/Damage	0		0
	B-Seat Type	05		05
	C-Seat Orientation	0		0
	D-Seat Track Position	0		0
	E-Seat Back Incline Pre/Post Impact	00		00
	F-Seat Performance	0		0
THIRD	A-Head Restraint Type/Damage	0	0	0
	B-Seat Type	05	05	05
	C-Seat Orientation	0	0	0
	D-Seat Track Position	0	0	0
	E-Seat Back Incline Pre/Post Impact	00	00	00
	F-Seat Performance	0	0	0
OTHER	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: \_\_\_\_\_

**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

**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

**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

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

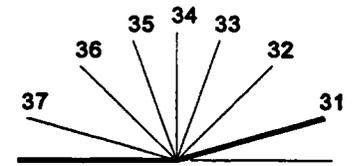
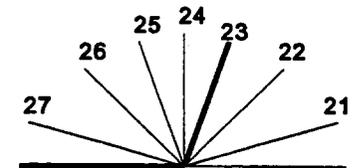
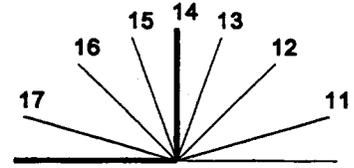
- (00) Occupant not seated or no seat
  - (01) Not adjustable
- Upright prior to impact**
- (11) Moved to completely rearward position
  - (12) Moved to rearward midrange position
  - (13) Moved to slightly rearward position
  - (14) Retained pre-impact position
  - (15) Moved to slightly forward position
  - (16) Moved to forward midrange position
  - (17) Moved to completely forward position

- 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

**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)

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**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:

*It appears occupant was pinned in seat by intruded steering assembly. Also, legs may have been trapped between fire wall and seat.*

Component(s): \_\_\_\_\_

(Note on vehicle interior sketch)



# OCCUPANT ASSESSMENT FORM

1. Primary Sampling Unit Number 09  
 2. Case Number - Stratum 010B  
 3. Vehicle Number 01  
 4. Occupant Number 01

## OCCUPANT'S CHARACTERISTICS

5. Occupant's Age 42  
 Code actual age at time of accident.  
 (00) Less than one year old (specify by month):  
 \_\_\_\_\_  
 (97) 97 years and older  
 (99) Unknown Per PAR

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. 163  
 (999) Unknown  
 ALT: 64 inches X 2.54 = 163 centimeters

8. Occupant's Weight 999  
 Code actual weight to the nearest  
 kilogram. 060  
 (999) Unknown  
 ALT: 133 pounds X .4536 = 060 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) Unknown
19. 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 1
- (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

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

38. Air Bag Deployment Accident Event Sequence Number 01  
 (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 1  
 (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 +0.089  
 (000) Not equipped/not available 990  
 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? 2  
 (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? 1  
 (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? 01  
 (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

*1019 calculated high DU is 200*

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

**HEAD RESTRAINT AND SEAT EVALUATION**

44. Source of Air Bag Damage 01  
 (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  
 (08) 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? 2  
 (0) Not equipped/not available  
 (1) No  
 (2) Yes (specify number of tether straps): 2  
 (3) Deployed, unknown if tethered  
 (7) Not deployed  
 (8) Unknown if deployed  
 (9) Unknown

46. Did The Air Bag Have Vent Ports? 2  
 (0) Not equipped/not available  
 (1) No  
 (2) Yes (specify number of vent ports): 2  
 (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? 1  
 (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? 4  
 (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) 01  
 (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 4  
 (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 14

(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

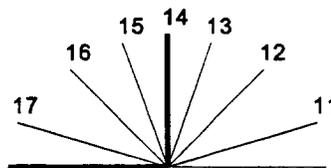
(13) Moved to slightly rearward position

(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

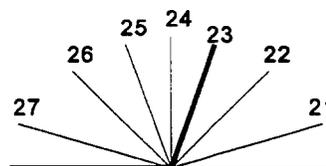
(23) Retained pre-impact position

(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

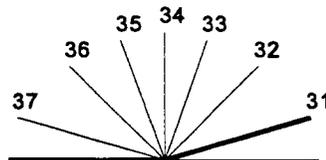
(33) Moved to slightly rearward position

(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) 1

- (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 02  
 \_\_\_\_\_ 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 16  
 \_\_\_\_\_ 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 02  
 (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? 9  
 (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>09</u>	3. Vehicle Number	<u>01</u>
2. Case Number - Stratum	<u>0108</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	Body Region	A.I.S. - 90		Level of Injury	A.I.S. Severity	Aspect	Injury Source	Injury Confidence Level	Direct/Indirect Injury	Occupant Area Intrusion Number		
		Type of Anatomic Structure	Specific Anatomic Structure									
<i>④ pericardial ecchymosis</i>	1st	5. <u>1</u>	6. <u>2</u>	7. <u>9</u>	8. <u>74</u>	9. <u>02</u>	10. <u>1</u>	11. <u>2</u>	12. <u>470</u>	13. <u>2</u>	14. <u>1</u>	15. <u>00</u>
<i>② enter chest abrasions</i>	2nd	16. <u>1</u>	17. <u>4</u>	18. <u>9</u>	19. <u>02</u>	20. <u>02</u>	21. <u>1</u>	22. <u>4</u>	23. <u>170</u>	24. <u>2</u>	25. <u>1</u>	26. <u>00</u>
<i>② enter chest contusions</i>	3rd	27. <u>1</u>	28. <u>4</u>	29. <u>9</u>	30. <u>04</u>	31. <u>02</u>	32. <u>1</u>	33. <u>4</u>	34. <u>170</u>	35. <u>2</u>	36. <u>1</u>	37. <u>00</u>
<i>② leg contusions</i>	4th	38. <u>1</u>	39. <u>8</u>	40. <u>9</u>	41. <u>04</u>	42. <u>02</u>	43. <u>1</u>	44. <u>3</u>	45. <u>014</u>	46. <u>2</u>	47. <u>1</u>	48. <u>05</u>
<i>② knee lacerations</i>	5th	49. <u>1</u>	50. <u>8</u>	51. <u>9</u>	52. <u>06</u>	53. <u>02</u>	54. <u>1</u>	55. <u>3</u>	56. <u>014</u>	57. <u>2</u>	58. <u>1</u>	59. <u>05</u>
<i>④ hand contusions</i>	6th	60. <u>1</u>	61. <u>7</u>	62. <u>9</u>	63. <u>04</u>	64. <u>02</u>	65. <u>1</u>	66. <u>2</u>	67. <u>010</u>	68. <u>3</u>	69. <u>1</u>	70. <u>05</u>
<i>④ nasal fx</i>	7th	71. <u>1</u>	72. <u>2</u>	73. <u>5</u>	74. <u>10</u>	75. <u>00</u>	76. <u>1</u>	77. <u>4</u>	78. <u>170</u>	79. <u>2</u>	80. <u>1</u>	81. <u>00</u>
<i>④ sternal fx</i>	8th	82. <u>1</u>	83. <u>4</u>	84. <u>5</u>	85. <u>08</u>	86. <u>04</u>	87. <u>2</u>	88. <u>4</u>	89. <u>006</u>	90. <u>2</u>	91. <u>1</u>	92. <u>00</u>
<i>② ribs fx</i>	9th	93. <u>1</u>	94. <u>4</u>	95. <u>5</u>	96. <u>02</u>	97. <u>30</u>	98. <u>3</u>	99. <u>1</u>	100. <u>006</u>	101. <u>2</u>	102. <u>1</u>	103. <u>00</u>
<i>④ compound wrist fx</i>	10th	104. <u>1</u>	105. <u>7</u>	106. <u>5</u>	107. <u>32</u>	108. <u>04</u>	109. <u>3</u>	110. <u>1</u>	111. <u>170</u>	112. <u>2</u>	113. <u>1</u>	114. <u>00</u>



**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

AUT.

Restrained?

No

Yes

NOT RECORDED

Blood Alcohol Level (mg/dl)

BAL = 0

Glasgow Coma Scale Score

GCSS = \_\_\_\_\_

Units of Blood Given

Units = \_\_\_\_\_

Arterial Blood Gases

pH = \_\_\_\_\_

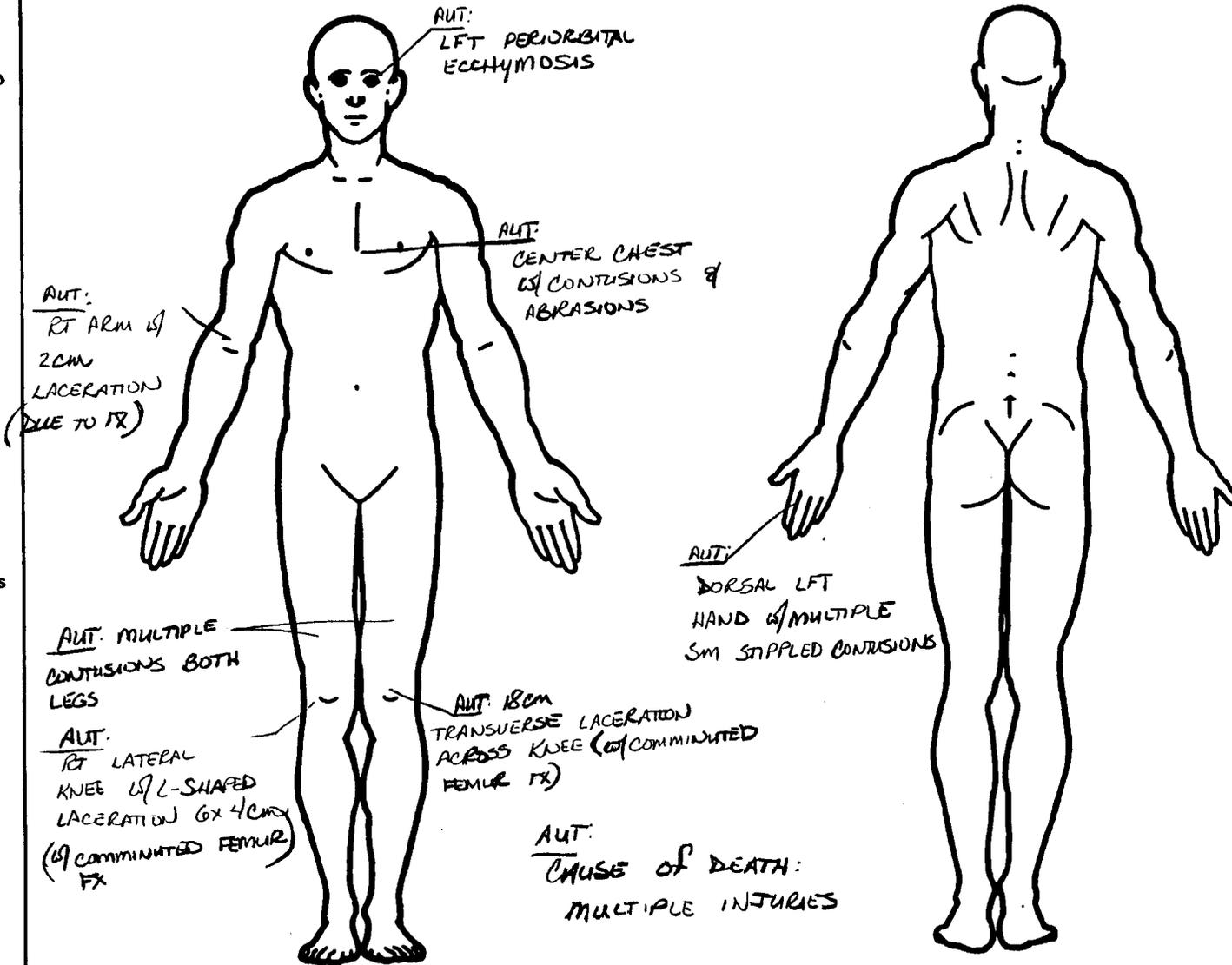
PO<sub>2</sub> = \_\_\_\_\_

PCO<sub>2</sub> = \_\_\_\_\_

HCO<sub>3</sub> = \_\_\_\_\_

NOT RECORDED

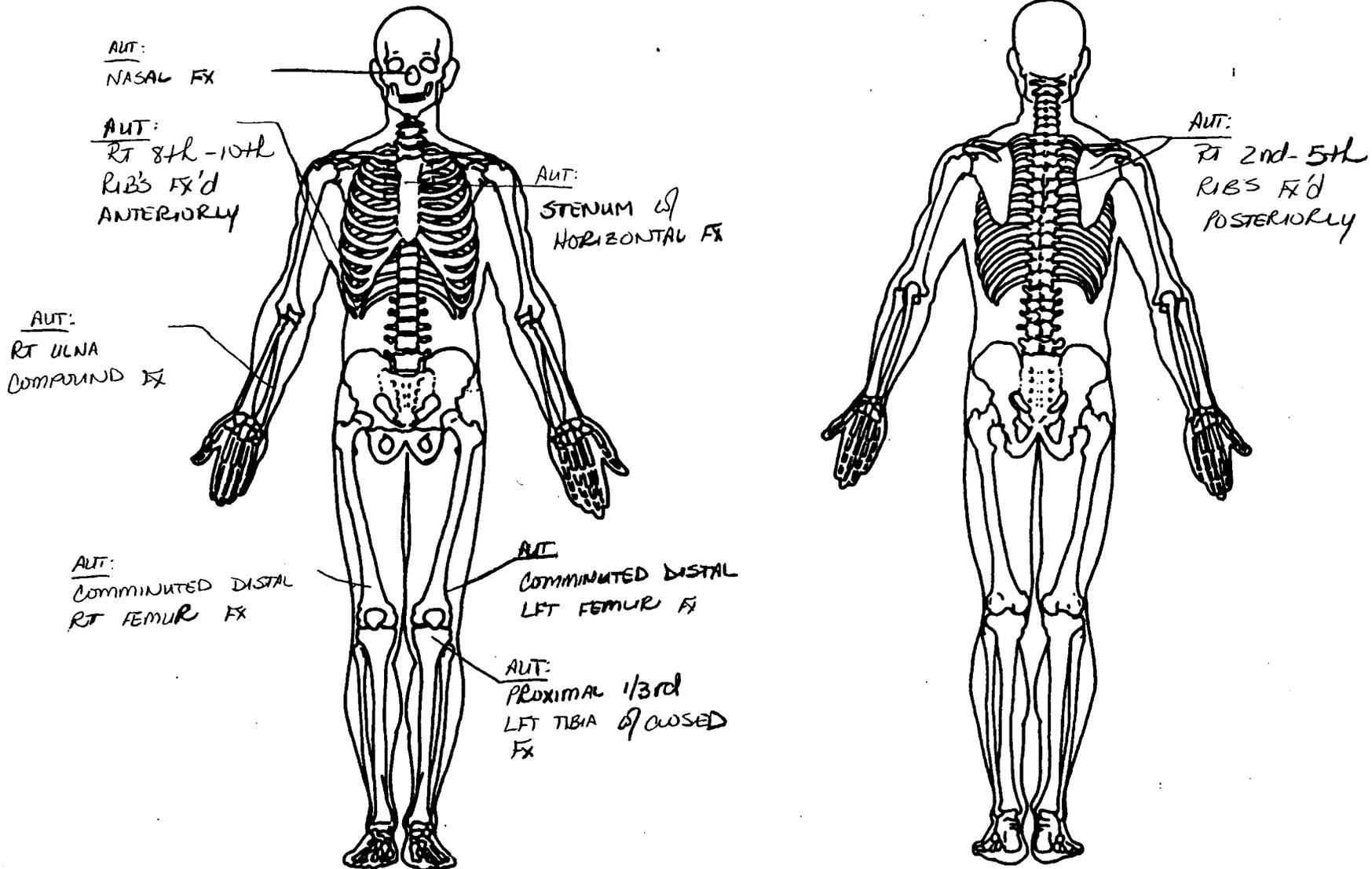
Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.) PT W/ ② FIXED & DILATED PUPILS



AUT.  
CAUSE OF DEATH:  
MULTIPLE INJURIES

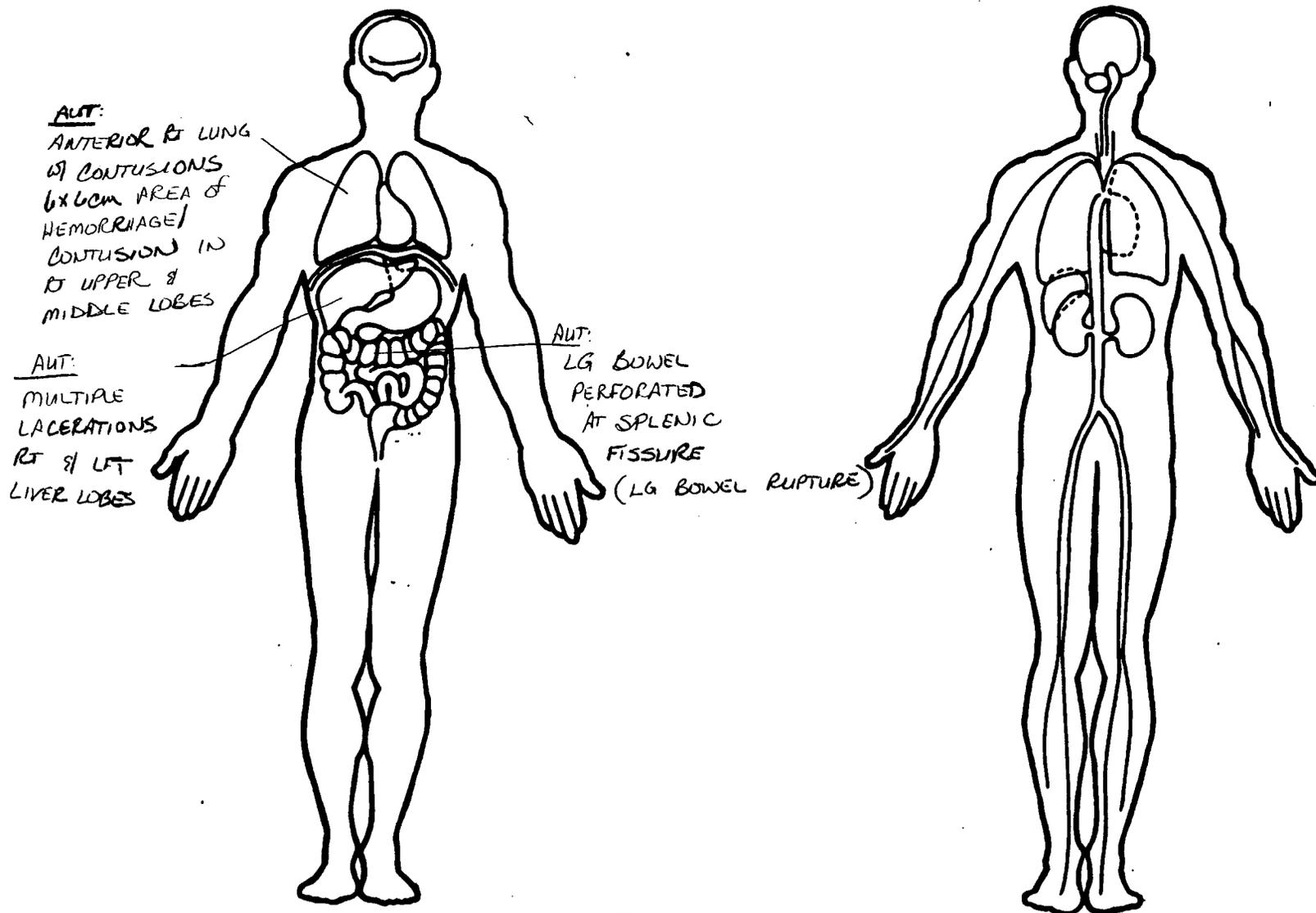
# OFFICIAL INJURY DATA — SKELETAL INJURIES

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.)





# UPDATE FORM

1. Primary Sampling Unit Number 09  
 2. Case Number – Stratum 010B  
 3. Vehicle Number 01  
 4. Occupant Number 01

RECEIVED [REDACTED]

Driver or Occupant Name: [REDACTED]  
 Address: [REDACTED]  
 Other Information: \_\_\_\_\_  
 \_\_\_\_\_  
 (Sanitize this section prior to Update submission.)

## STATUS OF OCCUPANT INFORMATION

	INITIAL SUBMISSION	UPDATED INFORMATION		INITIAL SUBMISSION	UPDATED INFORMATION
OAL08. Date Official Medical Data Requested	[REDACTED]	96	OAL18. Medical Facility Code	---	97
OAL09. Date Official Medical Data Obtained	[REDACTED]	96	GV14. Alcohol Test Results For Driver	---	---
OAL16. Injury Treatment Status	---	---	GV16. Other Drug Specimen Test Type For Driver	---	---
OAL17. Injury Information			OA05. Occupant's Age	---	---
<u>Official</u>			OA06. Occupant's Sex	---	---
a. Autopsy (invasive examination)	B	11	OA07. Occupant's Height	---	---
b. Post-ER medical record which includes information about death based on non-invasive examination	B	---	OA08. Occupant's Weight	---	---
c. Admission record/summary or admission/discharge face sheet	B	---	OA61. Treatment-Mortality	---	---
d. Discharge summary	B	---	OA62. Type of Medical Facility (for Initial Treatment)	---	---
e. Operative report	B	---	OA63. Hospital Stay	---	---
f. Radiographic record(s) (X-ray, CT scan)	B	---			
g. History and physical examination and/or consultation records	B	---			
h. Emergency room records (includes nurses' notes)	B	---			
j. Private physician	B	---			
<u>Unofficial</u>					
k. Lay coroner	B	---			
l. EMS record	B	---			
m. Interviewee	B	---			
n. Other source (specify): _____	B	B			
o. Police report	B	B			



# UPDATE FORM

<p>1. Primary Sampling Unit Number <u>09</u></p> <p>2. Case Number — Stratum <u>010B</u></p> <p>3. Vehicle Number <u>01</u></p> <p>4. Occupant Number <u>01</u></p> <p style="text-align: center;">[REDACTED]</p>	<p>Driver or Occupant Name: [REDACTED]</p> <p>Address: [REDACTED]</p> <p>Other Information: _____</p> <p style="text-align: center;">(Sanitize this section prior to Update submission.)</p>
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## STATUS OF OCCUPANT INFORMATION

	INITIAL SUBMISSION	UPDATED INFORMATION		INITIAL SUBMISSION	UPDATED INFORMATION
OAL08. <i>Follow up</i> Date Official Medical Data Requested	[REDACTED]	[REDACTED] 96	OAL18. Medical Facility Code	---	01
OAL09. Date Official Medical Data Obtained	[REDACTED]	[REDACTED] 96	GV14. Alcohol Test Results For Driver	---	---
OAL16. Injury Treatment Status	---	---	GV16. Other Drug Specimen Test Type For Driver	---	---
OAL17. Injury Information			OA05. Occupant's Age	---	---
<u>Official</u>			OA06. Occupant's Sex	---	---
a. Autopsy (invasive examination)	B	---	OA07. Occupant's Height	---	---
b. Post-ER medical record which includes information about death based on non-invasive examination	B	---	OA08. Occupant's Weight	---	---
c. Admission record/summary or admission/discharge face sheet	B	---	OA61. Treatment-Mortality	---	---
d. Discharge summary	B	---	OA62. Type of Medical Facility (for Initial Treatment)	---	---
e. Operative report	B	---	OA63. Hospital Stay	---	---
f. Radiographic record(s) (X-ray, CT scan)	B	---			
g. History and physical examination and/or consultation records	B	---			
h. Emergency room records (includes nurses' notes)	B	11			
j. Private physician	B	---			
<u>Unofficial</u>					
k. Lay coroner	B	---			
l. EMS record	B	H			
m. Interviewee	B	---			
n. Other source (specify): _____	B	B			
o. Police report	B	B			



# GENERAL VEHICLE FORM

1. Primary Sampling Unit Number 09  
 2. Case Number - Stratum 010B  
 3. Vehicle Number 02

12. Speed Limit 064  
 (000) No statutory limit  
 Code posted or statutory speed limit in kmph  
 (999) Unknown  
40 mph X 1.6093 = 064 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): 12  
Ford  
 Applicable codes are found in your  
 NASS Data Collection, Coding and  
 Editing Manual.  
 (99) Unknown

14. Alcohol Test Result For Driver 96  
 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): 481  
F-250  
 Applicable codes are found in your  
 NASS Data Collection, Coding and  
 Editing Manual.  
 (999) Unknown

Source:

7. Body Type 31  
 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  
1FTEF26H1LM   
 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   
 (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

# 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 0  
 (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

(9) Unknown

20. Trafficway Flow 0  
 (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 1

- (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 07  
 (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) 14
- (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 67
- 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 01  
(00) No driver present  
(01) No avoidance maneuver 99  
(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 91  
(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 51  
(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, 26, 27	24 DECEL. 29, 30, 31	26 AVOID COLLISION WITH VEH.	28 AVOID COLLISION WITH OBJECT	(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	(EACH • 42) SPECIFICS OTHER	(EACH • 43) SPECIFICS UNKNOWN	
	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	(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	71 INITIAL SAME DIRECTIONS	73 INITIAL SAME DIRECTIONS	(EACH • 74) SPECIFICS OTHER	(EACH • 75) SPECIFICS UNKNOWN		
	K. Turn Into Path	77 TURN INTO SAME DIRECTION	79 TURN INTO SAME DIRECTION	81 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 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 01
  - (00-96) Code actual number of occupants for this vehicle
  - (97) 97 or more
  - (99) Unknown
- 39. Number of Occupant Forms Submitted 01

AIR BAG RELATED

- 40. Is this an AOPS Vehicle? 0
  - (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
  - (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 2,030
  - Code weight to nearest 10 kilograms. 2030
  - (045) Less than 454 kilograms
  - (612) 6,124 kilograms or more 2032
  - (999) Unknown

4,481 lbs X .4536 = 2,078 kgs

Source: 90 \_\_\_\_\_

- 44. Vehicle Cargo Weight 0.680
  - Code weight to nearest 10 kilograms. 034
  - (000) Less than 5 kilograms
  - (454) 4,536 kilograms or more 340
  - (999) Unknown

1,500 lbs X .4536 = 680 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)**

51. Front Override/Underride (this Vehicle) 0
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

**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 085
54. Heading Angle For Other Vehicle 255

**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

**ACCIDENT RECONSTRUCTION PROGRAMS HIGHEST DELTA V**

58. Basis for Total (Resultant) Delta V (highest) DF  
98

(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): Results are too high

COMPUTER GENERATED CRASH SEVERITY

59. Total Delta V Highest 057

Nearest kmph (highest) 999

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 +053

Nearest kmph (highest) 999

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 +019

Nearest kmph (highest) 999

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 586.700

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 998

Nearest kmph (highest) 999

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 X

- (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 072

13 Nearest kmph (highest) 073

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) <span style="float: right;">2</span></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  (9) Unknown</p>	<p>67. Type of Vehicle Inspection <span style="float: right;">3</span></p> <p>(0) No inspection  (1) Vehicle fully repaired-no damage evident  (2) Partial inspection (specify): _____  (3) Complete inspection</p> <hr/> <p style="text-align: center;"><b>DELTA V EVENT NUMBER</b></p> <p>68. Delta V Event Number <span style="float: right;">01</span></p> <p>_____ Code the accident event sequence number that resulted in the Delta V that has been coded above for this vehicle  (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.**



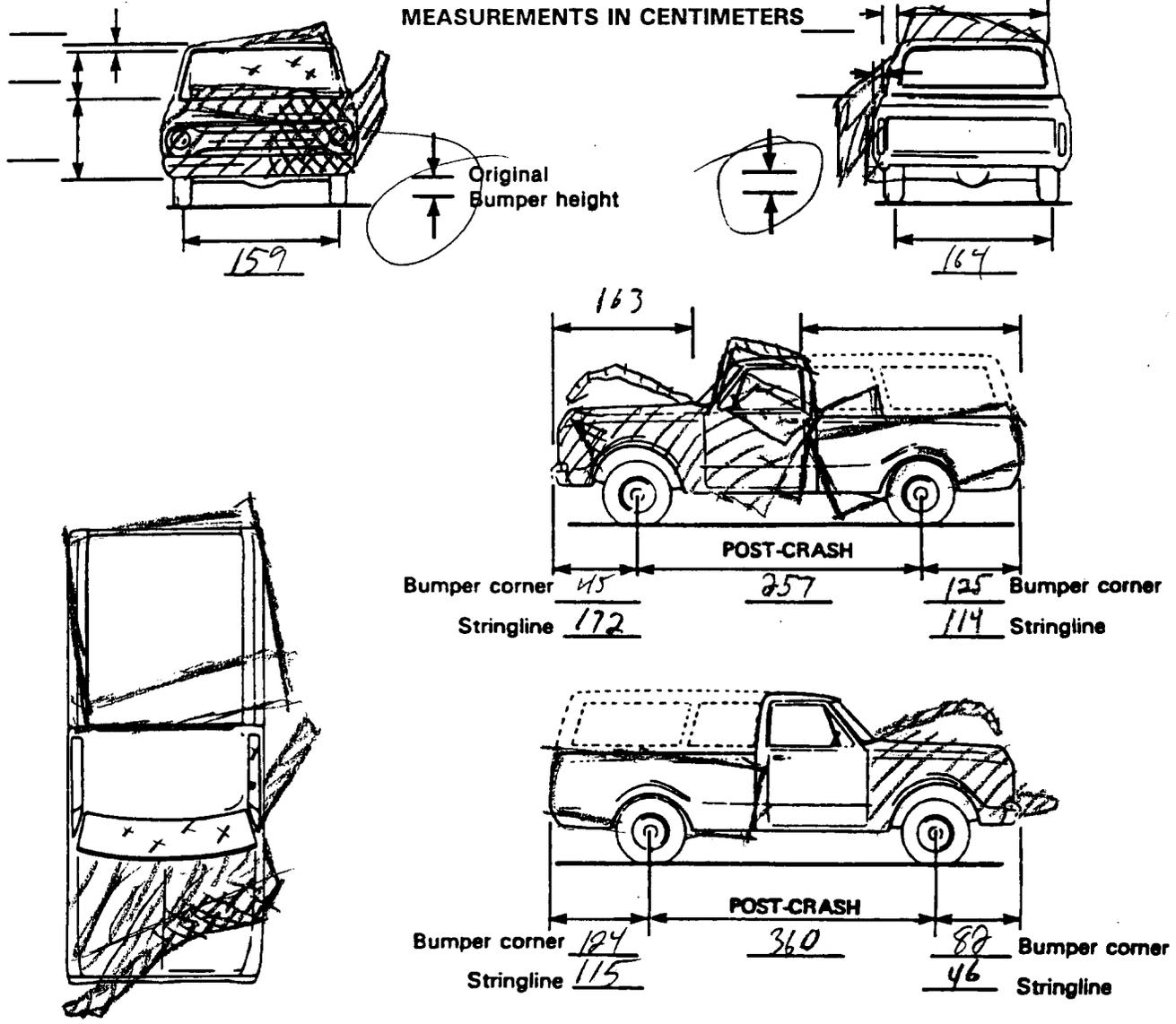
# ORIGINAL SPECIFICATIONS WORK SHEET

Wheelbase	<u>133</u>	inches	x 2.54	=	<u>338</u>	cm
Overall Length	<u>210.2</u>	inches	x 2.54	=	<u>534</u>	cm
Maximum Width	<u>79.0</u>	inches	x 2.54	=	<u>201</u>	cm
Curb Weight	<u>4,581</u>	pounds	x .4536	=	<u>2,078</u>	kg
Average Track	<u>60.4</u>	inches	x 2.54	=	<u>153</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	=	<u>5.8</u>	L
	_____	CID	x .0164	=	_____	L

### 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>1</u> RR <u>2</u> LR <u>2</u>		<b>ORIGINAL SPECIFICATIONS</b> Wheelbase <u>338</u> cm Overall Length <u>534</u> cm Maximum Width <u>201</u> cm Curb Weight <u>2078</u> kg Average Track <u>153</u> cm Front Overhang _____ cm Rear Overhang _____ cm Undeformed End Width <u>185</u> cm Engine Size: cyl./displ. <u>5.8</u> L		<b>WHEEL STEER ANGLES</b> (For locked front wheels or displaced rear axles only) RF ± _____ ° LF ± <u>20</u> ° RR ± _____ ° LR ± _____ ° 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 type="checkbox"/> No				<b>DRIVE WHEELS</b> <input type="checkbox"/> FWD <input type="checkbox"/> RWD <input checked="" type="checkbox"/> 4WD		Approximate Cargo Weight <u>1500 lbs</u>	

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.



**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>E</u>	10. <u>W</u>	11. <u>04</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. L	21. C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	C <sub>6</sub>	22. ±D
<u>185</u>	<u>114</u>	<u>101</u>	<u>097</u>	<u>095</u>	<u>061</u>	<u>000</u>	<u>+0045</u>

Second Highest Delta "V"

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

26. Undeformed End Width (Coded when highest severity impact is an end plane impact.) 185  
 \_\_\_\_\_ 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) 087  
 \_\_\_\_\_ Code to the nearest centimeter  
 (250) 250 centimeters or more  
 (999) Unknown

28. Original Wheelbase 338  
 \_\_\_\_\_ Code to the nearest centimeter  
 (650) 650 centimeters or more  
 (999) Unknown  
133.0 inches X 2.54 = 338 centimeters

29. Original Average Track Width 153  
 \_\_\_\_\_ Code to the nearest centimeter  
 (185) 185 centimeters or more  
 (999) Unknown  
60.4 inches X 2.54 = 153 centimeters

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

**FUEL SYSTEM**

35. Location of Fuel Tank-1 Filler Cap 2

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 0

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 1

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  
0

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

1. Primary Sampling Unit Number 09  
 2. Case Number - Stratum 0103  
 3. Vehicle Number 02

## 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):  
09, 11  
 (99) Unknown

Door, Tailgate or Hatch Opening

5. LF 2 6. RF 1 7. LR 0 8. RR 0 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

Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 \* 2, Then code 0

10. LF 2 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

Type of Window/Windshield Glazing

15. WS 1 16. LF 2 17. RF 2 18. LR 0 19. RR 0  
 20. BL 2 21. Roof 0 22. Other 2

(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 0 27. RR 0  
 28. BL 1 29. Roof 0 30. Other 2

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

Glazing Damage from Impact Forces

31. WS 4 32. LF 6 33. RF 1 34. LR 0 35. RR 0  
 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

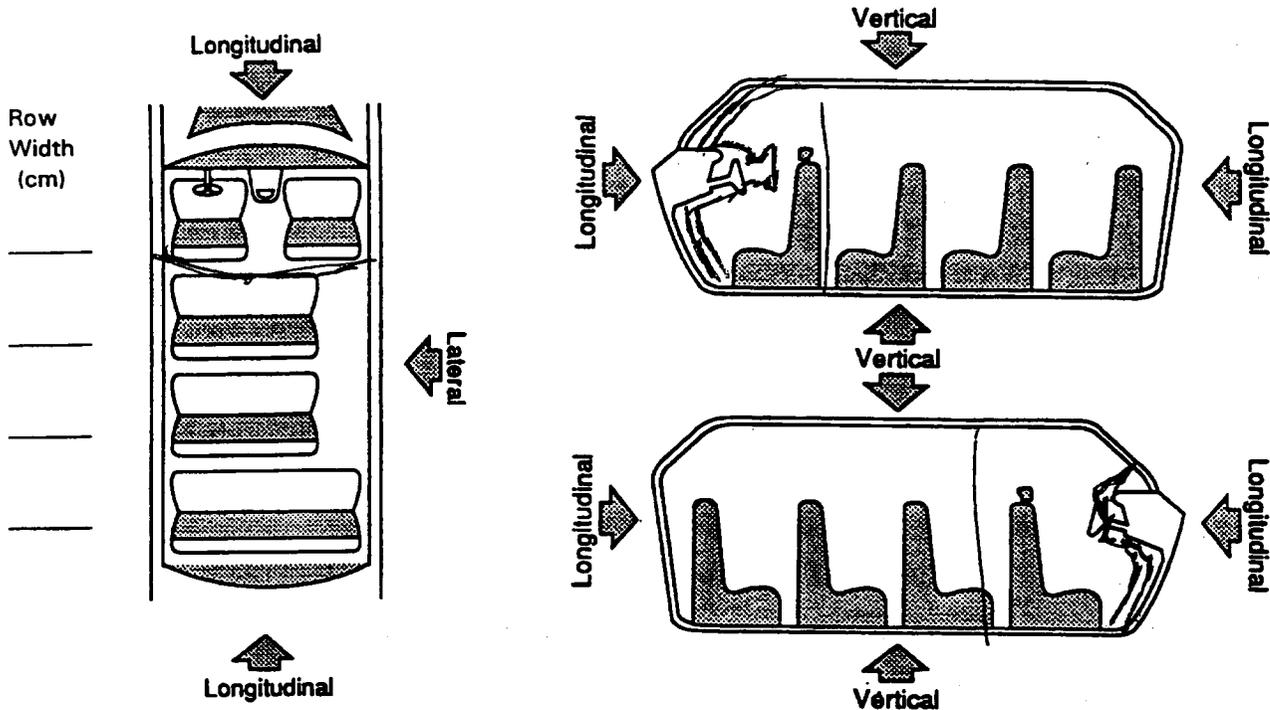
Glazing Damage from Occupant Contact

39. WS 1 40. LF 1 41. RF 1 42. LR 0 43. RR 0  
 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	L Inst Panel 02	78	-	33	= 45	2
11	Toe Pan 05	107	-	66	= 41	2
11	Steering Assembly 01	42	-	18	= 24	2
11	A Pillar 06	82	-	41	= 41	2
11	w/s Header 16	67	-	56	= 11	2
11	w/s 15	72	-	69	= 3	2
12	w/s Header 16	67	-	64	= 3	2
12	L Inst Panel 03	78	-	48	= 30	2
12	Toe Pan 05	85	-	77	= 8	2
13	R Inst Panel 04	78	-	70	= 8	2
13	Toe Pan 05	107	-	101	= 6	2
			-		=	
			-		=	
			-		=	
			-		=	

### 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>11</u>	48. <u>02</u>	49. <u>4</u>	50. <u>2</u>
2nd	51. <u>11</u>	52. <u>05</u>	53. <u>4</u>	54. <u>2</u>
3rd	55. <u>11</u>	56. <u>06</u>	57. <u>4</u>	58. <u>2</u>
4th	59. <u>12</u>	60. <u>03</u>	61. <u>3</u>	62. <u>2</u>
5th	63. <u>11</u>	64. <u>01</u>	65. <u>3</u>	66. <u>2</u>
6th	67. <u>11</u>	68. <u>16</u>	69. <u>2</u>	70. <u>2</u>
7th	71. <u>12</u>	72. <u>05</u>	73. <u>2</u>	74. <u>2</u>
8th	75. <u>13</u>	76. <u>04</u>	77. <u>2</u>	78. <u>2</u>
9th	79. <u>13</u>	80. <u>05</u>	81. <u>1</u>	82. <u>2</u>
10th	83. <u>11</u>	84. <u>15</u>	85. <u>1</u>	86. <u>2</u>

#### LOCATION OF INTRUSION

- |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Front Seat</b></p> <ul style="list-style-type: none"> <li>(11) Left</li> <li>(12) Middle</li> <li>(13) Right</li> </ul> <p><b>Second Seat</b></p> <ul style="list-style-type: none"> <li>(21) Left</li> <li>(22) Middle</li> <li>(23) Right</li> </ul> <p><b>Third Seat</b></p> <ul style="list-style-type: none"> <li>(31) Left</li> <li>(32) Middle</li> <li>(33) Right</li> </ul> | <p><b>Fourth Seat</b></p> <ul style="list-style-type: none"> <li>(41) Left</li> <li>(42) Middle</li> <li>(43) Right</li> </ul> <p>(97) Catastrophic</p> <p>(98) Other enclosed area (specify) _____</p> <p>(99) Unknown</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 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 1  
 (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 0  
 (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

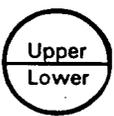
90. Steering Rim/Spoke Deformation 15  
 Code actual measured  
 deformation to the nearest centimeter  
 (00) No steering rim deformation  
 (01-14) Actual measured value in centimeters  
 (15) 15 centimeters or more  
 (98) Observed deformation cannot be measured  
 (99) Unknown

91. Location of Steering Rim/Spoke Deformation 05  
 (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 173,000  
 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  
107,807 miles X 1.6093 = 173,494 kilometers

Source: \_\_\_\_\_

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

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

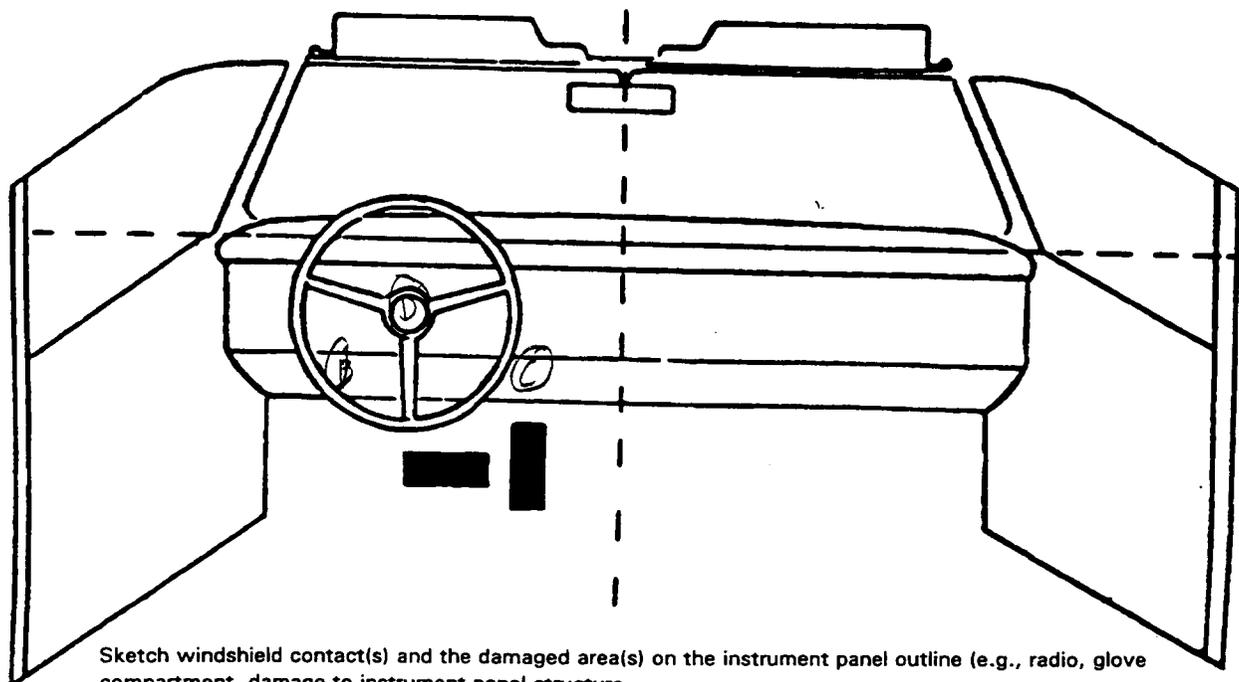
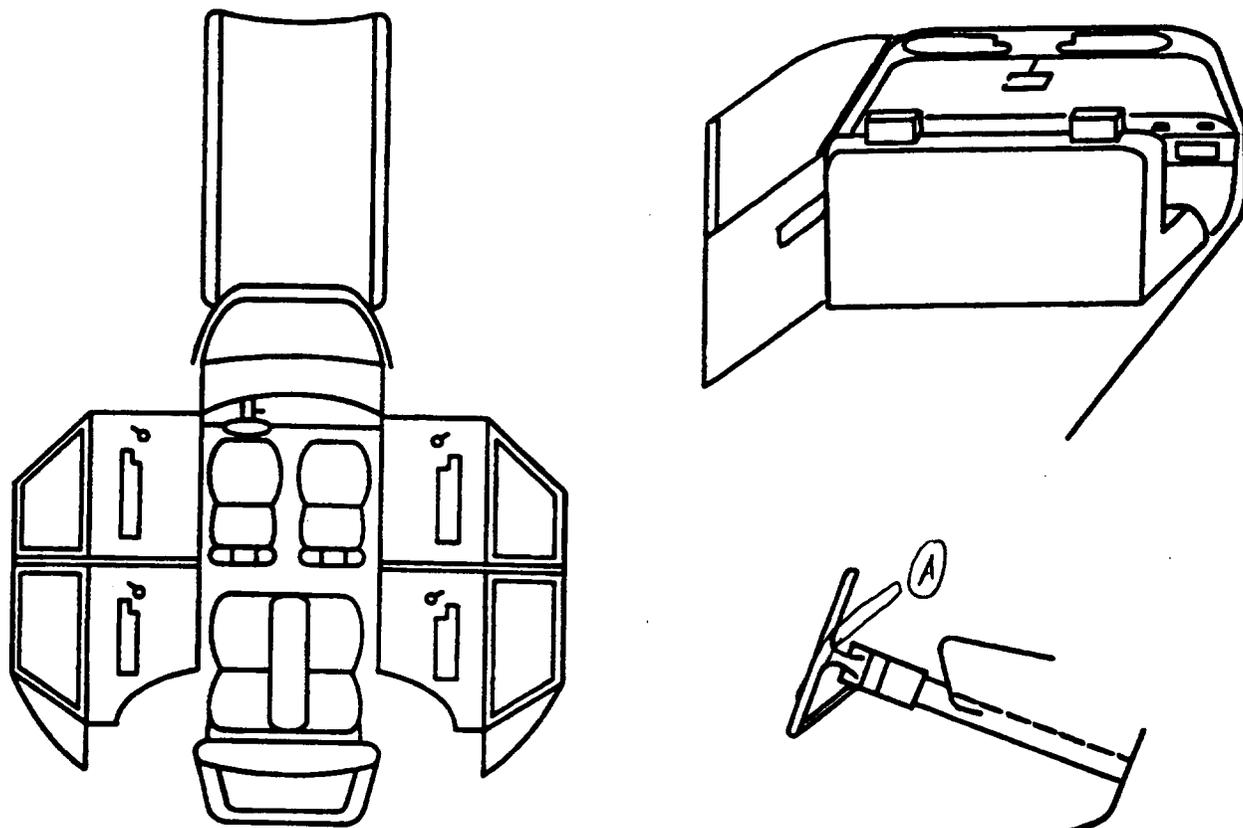
95. Knee Bolsters Deformed from Occupant Contact? 0  
 (0) No knee bolster  
 (1) No deformation  
 (2) Yes - deformation  
 (9) Unknown

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	004	01	hands	Top of wheel bent forward	1
B	010	01	L-knee	Lower Panel broken out	1
C	010	01	R-knee	Lower Panel broken out	1
D	005	01	Chest	Location of wheel + scuffs	1
E					
F					
G					
H					
I					
J					
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
FIRST	A-Availability	4	3	4
	B-Evidence of usage	04	99	04
	C-Used in this crash?	00	00	00
	D-Proper Use	0	0	0
	E-Failure Modes	0	0	0
	F-Anchorage Adjustment	1	0	1
SECOND	A-Availability	/		
	B-Evidence of usage	/		
	C-Used in this crash?	/		
	D-Proper Use	/		
	E-Failure Modes	/		
	F-Anchorage Adjustment	/		
OTHER	A-Availability	/		
	B-Evidence of usage	/		
	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) \_\_\_\_\_
- (03) Shoulder belt
- (04) Lap belt
- (05) Lap and shoulder belt
- (06) 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	/	/	/
	Deployment	/	/	/
	Failure	/	/	/

- |                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Air Bag System Availability/Function</b></p> <ul style="list-style-type: none"> <li>(0) Not equipped/not available</li> <li>(1) Air bag</li> </ul> <p><i>Non-functional</i></p> <ul style="list-style-type: none"> <li>(2) Air bag disconnected (specify): _____</li> <li>(3) Air bag not reinstalled</li> <li>(9) Unknown</li> </ul> | <p><b>Air Bag System Deployment (This Occupant Position)</b></p> <ul style="list-style-type: none"> <li>(0) Not equipped/not available</li> <li>(1) Deployed during accident (as a result of impact)</li> <li>(2) Deployed inadvertently just prior to accident</li> <li>(3) Deployed, accident sequence undetermined</li> <li>(4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)</li> <li>(5) Unknown if deployed</li> <li>(7) Nondeployed</li> <li>(9) Unknown</li> </ul> | <p><b>Are There Indications of Air Bag System Failure? (This Occupant Position)</b></p> <ul style="list-style-type: none"> <li>(0) Not equipped/not available</li> <li>(1) No</li> <li>(2) Yes (specify): _____</li> <li>(9) Unknown</li> </ul> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**AUTOMATIC BELTS**

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

- |                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>A-Automatic (Passive) Belt System Availability/Function</b></p> <ul style="list-style-type: none"> <li>(0) Not equipped/not available</li> <li>(1) 2 point automatic belts</li> <li>(2) 3 point automatic belts</li> <li>(3) Automatic belts - type unknown</li> </ul> <p><i>Non-functional</i></p> <ul style="list-style-type: none"> <li>(4) Automatic belts destroyed or rendered inoperative</li> <li>(9) Unknown</li> </ul> | <p><b>D-Proper Use of Automatic (Passive) Belt System</b></p> <ul style="list-style-type: none"> <li>(0) Not equipped/not available/not used</li> <li>(1) Automatic belt used properly</li> <li>(2) Automatic belt used properly with child safety seat</li> </ul> <p><i>Automatic Belt Used Improperly</i></p> <ul style="list-style-type: none"> <li>(3) Automatic shoulder belt worn under arm</li> <li>(4) Automatic shoulder belt worn behind back</li> <li>(5) Automatic belt worn around more than one person</li> <li>(6) Lap portion of automatic belt worn on abdomen</li> <li>(7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): _____</li> <li>(8) Other improper use of automatic belt system (specify): _____</li> <li>(9) Unknown</li> </ul> | <p><b>E-Automatic (Passive) Belt Failure Modes During Accident</b></p> <ul style="list-style-type: none"> <li>(0) Not equipped/not available/not in use</li> <li>(1) No automatic belt failure(s)</li> <li>(2) Torn webbing (stretched webbing not included)</li> <li>(3) Broken buckle or latchplate</li> <li>(4) Upper anchorage separated</li> <li>(5) Other anchorage separated (specify): _____</li> <li>(6) Broken retractor</li> <li>(7) Combination of above (specify): _____</li> <li>(8) Other automatic belt failure (specify): _____</li> <li>(9) Unknown</li> </ul> |
| <p><b>B-Automatic (Passive) Belt System Use</b></p> <ul style="list-style-type: none"> <li>(0) Not equipped/not available/destroyed or rendered inoperative</li> <li>(1) Automatic belt in use</li> <li>(2) Automatic belt not in use (manually disconnected, motorized track inoperative)</li> <li>(3) Automatic belt use unknown</li> <li>(9) Unknown</li> </ul>                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p><b>C-Automatic (Passive) Belt System Type</b></p> <ul style="list-style-type: none"> <li>(0) Not equipped/not available</li> <li>(1) Non-motorized system</li> <li>(2) Motorized system</li> <li>(9) Unknown</li> </ul>                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## 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?	/	/
B-Flaps open at tear points?	/	/
C-Flaps damaged?	/	/
D-Air bag damaged?	/	/
E-Source of air bag damage	/	/
F-Air bag tethered?	/	/
G-Air bag have vent ports?	/	/
H-Other occupant contact air bag?	/	/
I-Occupant wearing eyewear?	/	/

**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): \_\_\_\_\_

(95) Damaged, details unknown

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

**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?**

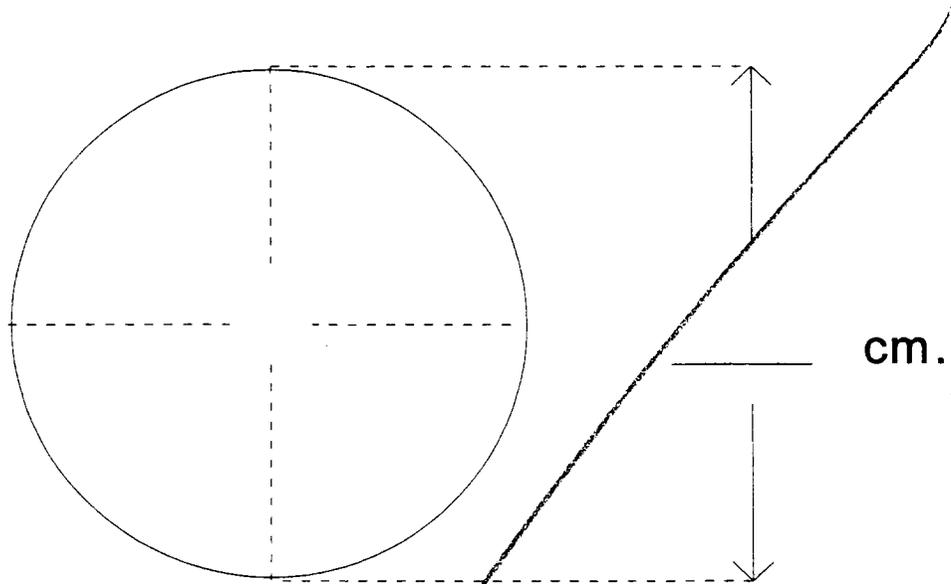
- (0) Not equipped/not available
- (1) No
- (2) Yes (specify): \_\_\_\_\_
- (3) Deployed, unknown if other occupant contact to air bag
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

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

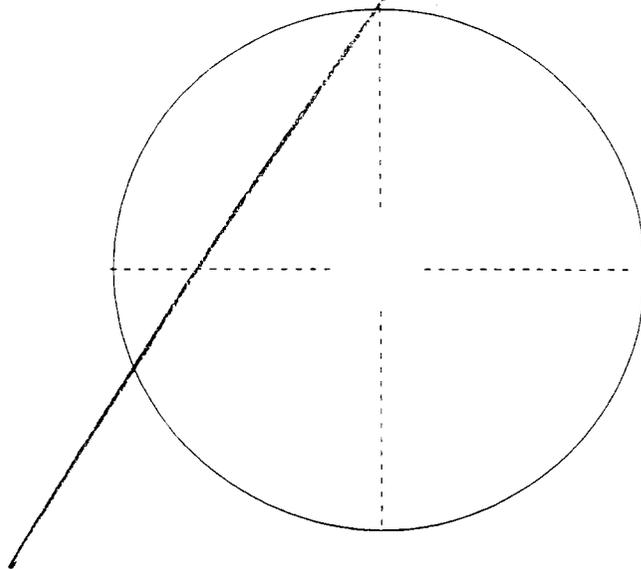
- (0) Not equipped/not available
- (1) No
- (2) Eyeglasses/sunglasses
- (3) Contact lenses
- (4) Deployed, unknown if eyewear worn
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

**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)

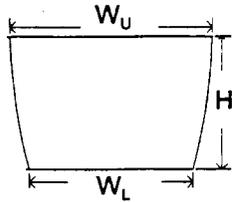


## DRIVER AIR BAG SKETCHES (Cont'd)

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

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

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

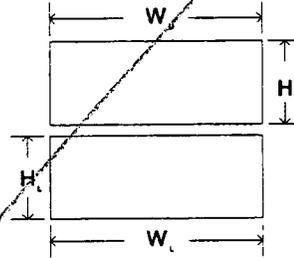


### 4. DRIVER AIR BAG MODULE COVER FLAP SIZE (DOUBLE)

a. Upper Flap                      b. Lower Flap

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

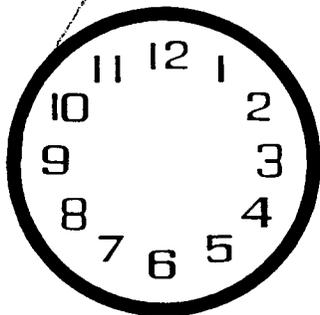
height ( $H_U$ ) \_\_\_\_\_ height ( $H_L$ ) \_\_\_\_\_



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

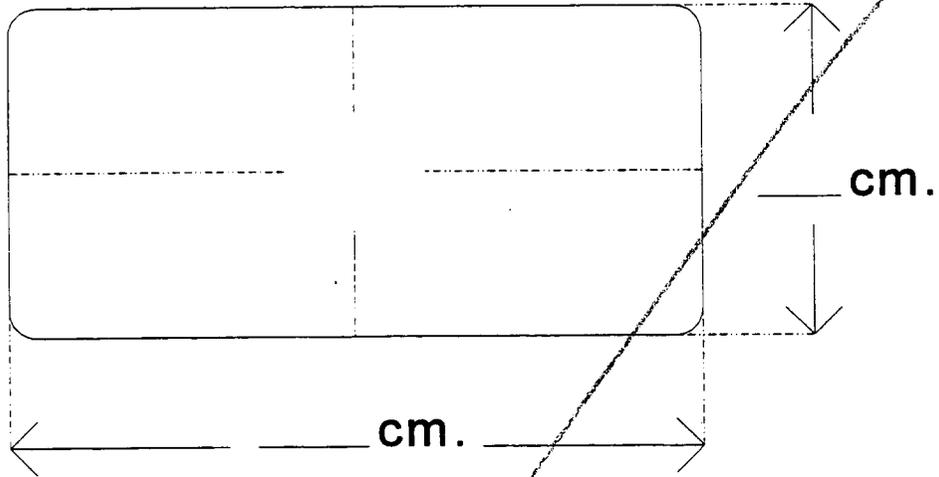
### 6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS

### 7. SKETCH LOCATION OF CIRCULAR AIR BAG VENT PORTS

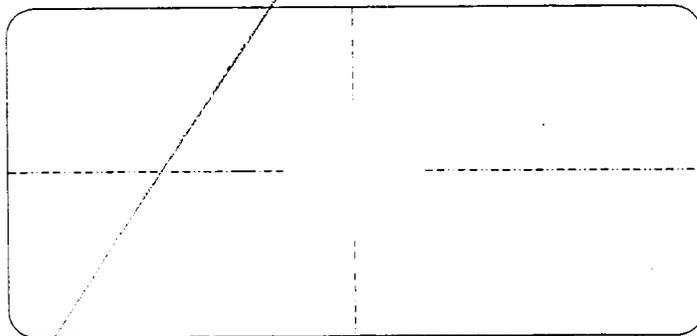


**PASSENGER AIR BAG DAMAGE AND CONTACT SKETCHES**

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



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

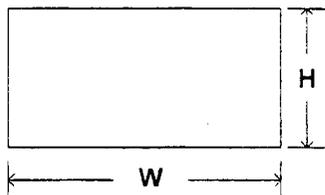


## PASSENGER AIR BAG SKETCHES (Cont'd)

### 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

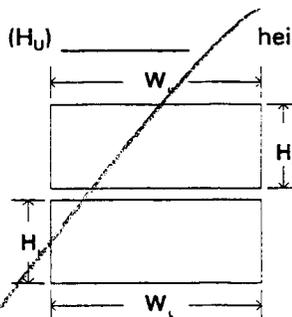
b. Lower Flap

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

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

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

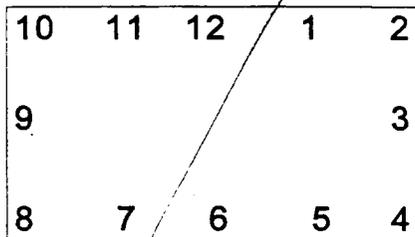
height ( $H_L$ ) \_\_\_\_\_



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

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

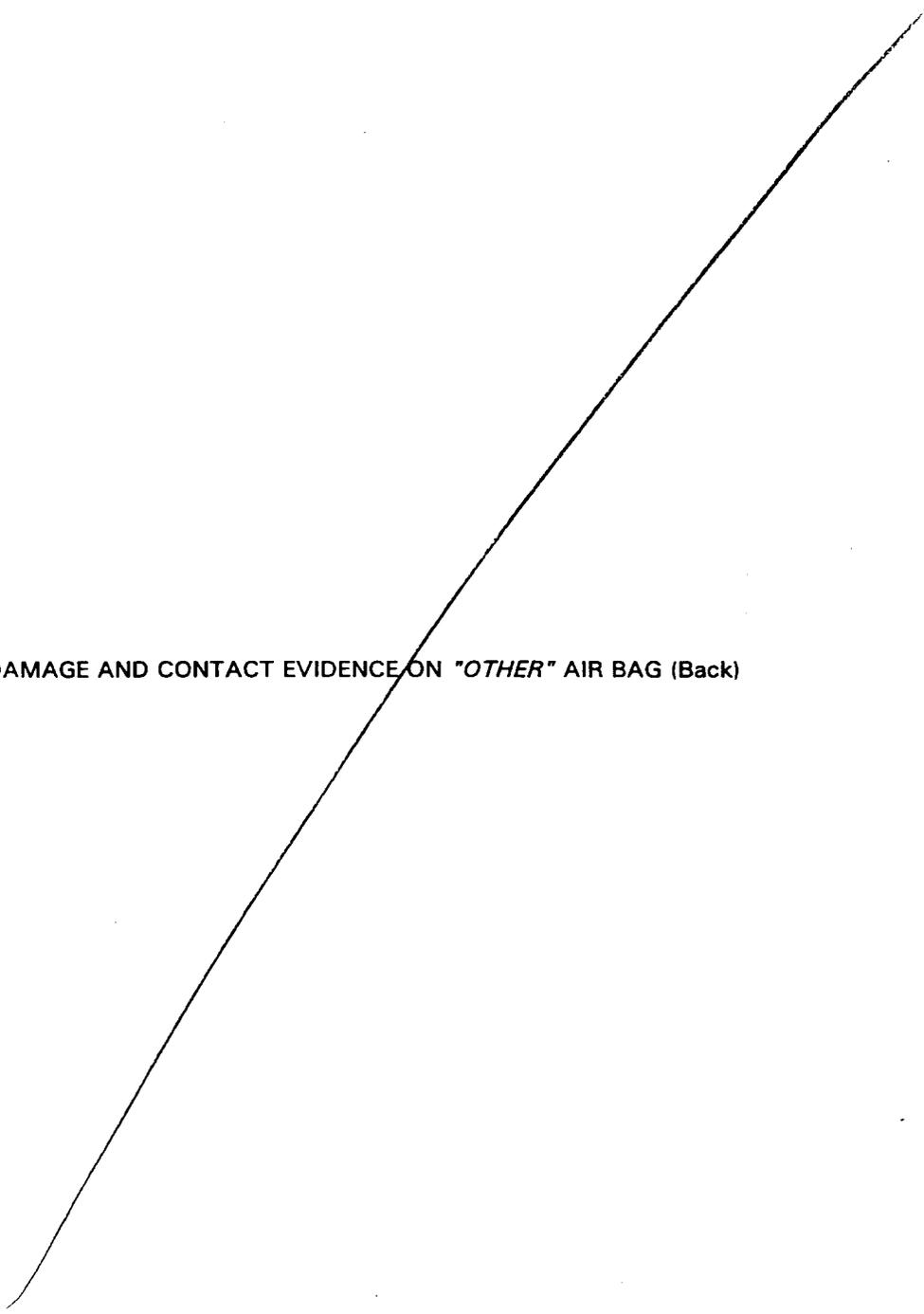
### 7. SKETCH LOCATION OF RECTANGULAR AIR BAG VENT PORTS



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

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

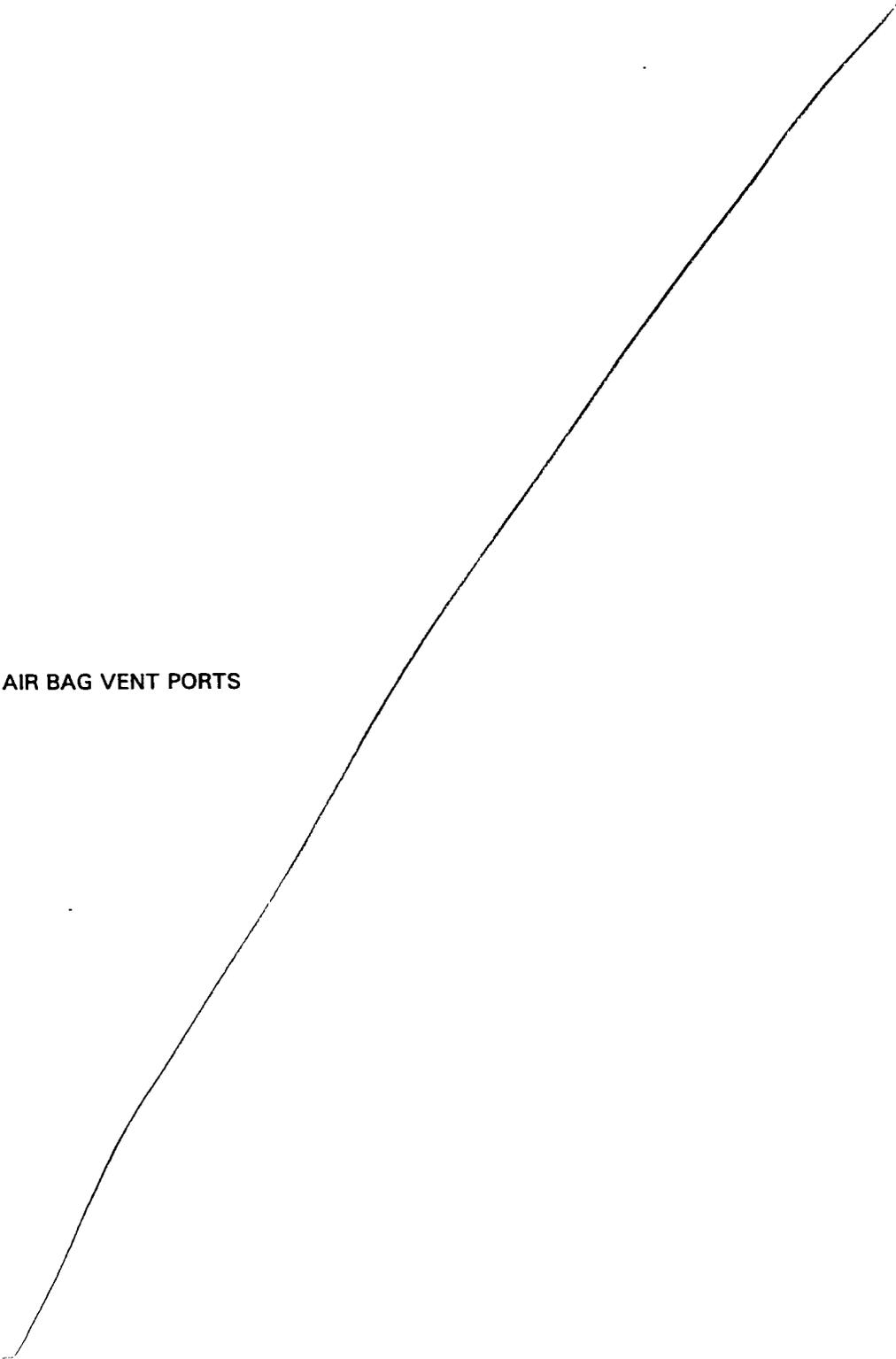
2. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Back)



**"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	0	0	0
	B-Seat Type	05	05	05
	C-Seat Orientation	1	0	0
	D-Seat Track Position	1	0	0
	E-Seat Back Incline Pre/Post Impact	01	00	00
	F-Seat Performance	6	0	0
<b>S E C O N 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>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**

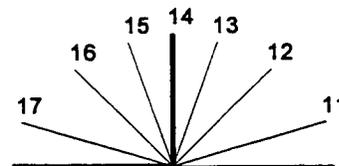
- (0) No head restraints
- (1) Integral — no damage
- (2) Integral — damaged during accident
- (3) Adjustable — no damage
- (4) Adjustable — damaged during accident
- (5) Add-on — no damage
- (6) Add-on — damaged during accident
- (8) Other  
Specify: \_\_\_\_\_
- (9) Unknown

**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

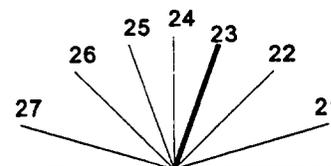


**B-Seat Type (this Occupant Position)**

- (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

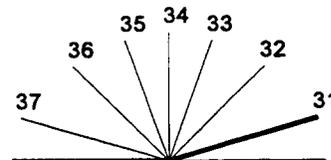
*Slightly reclined prior to impact*

- (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

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

**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): Toe Ped Floor Board
- (7) Combination of above (specify): \_\_\_\_\_
- (8) Other (specify): \_\_\_\_\_
- (9) Unknown

## 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)

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**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:

*Occupant looks to have been trapped between the steering column and seat back.*

\_\_\_\_\_

\_\_\_\_\_

Component(s): \_\_\_\_\_

\_\_\_\_\_

(Note on vehicle interior sketch)



# OCCUPANT ASSESSMENT FORM

1. Primary Sampling Unit Number 09  
 2. Case Number - Stratum 010B  
 3. Vehicle Number 02  
 4. Occupant Number 01

## OCCUPANT'S CHARACTERISTICS

5. Occupant's Age 34  
 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 1  
 (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 175  
 Code actual height to the nearest  
 centimeter.  
 (999) Unknown  
69 inches X 2.54 = 175 centimeters

8. Occupant's Weight 093  
 Code actual weight to the nearest  
 kilogram.  
 (999) Unknown  
206 pounds X .4536 = 093 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 0  
 (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 2

- (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) Unknown

## 19. Manual (Active) Belt System Use

- 00
- (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

- 0
- (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

- 0
- (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

## 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**

28. Police Reported Belt Use 0

- (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 \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**AIR BAG SYSTEM FUNCTION**

30. Frontal Air Bag System 0

- Availability/Function (This Occupant Position)
- (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 + 000Delta V For Air Bag  
Deployment Impact

- (\_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  
 (08) 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

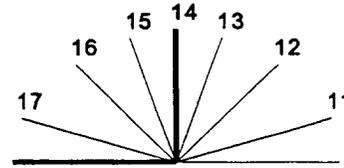
49. Head Restraint Type/Damage by Occupant at This Occupant Position 0  
 (0) No head restraints  
 (1) Integral—no damage  
 (2) Integral—damaged during accident  
 (3) Adjustable—no damage  
 (4) Adjustable—damaged during accident  
 (5) Add-on—no damage  
 (6) Add-on—damaged during accident  
 (8) Other (specify):  
 \_\_\_\_\_  
 (9) Unknown
50. Seat Type (this Occupant Position) 05  
 (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

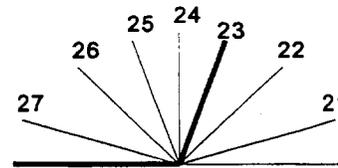
***Upright prior to impact***

- (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



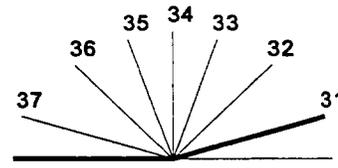
***Slightly reclined prior to impact***

- (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) 6  
 (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): Tox Pan / Floor Board  
 (7) Combination of above (specify): \_\_\_\_\_  
 (8) Other (specify): \_\_\_\_\_  
 (9) Unknown



**INJURY CONSEQUENCES**

61. Injury Severity (Police Rating) 3

- (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 3

- (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) L

- (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

*About 1 1/2 months 20 9/9*

64. Hospital Stay

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

99

65. Working Days Lost

- 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 13  
 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 15  
 (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? 2  
 (1) No - blood not given  
 (2) Yes - blood given  
 (specify units): 2 UNITS  
 (9) Unknown if blood given

73. Arterial Blood Gases (ABG) - HCO<sub>3</sub> 17  
 (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>09</u>	3. Vehicle Number	<u>02</u>
2. Case Number - Stratum	<u>0103</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.

A.I.S. - 90																							
Source of Injury	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Injury Confidence Level	Direct/Indirect Injury	Occupant Area Intrusion Number													
<i>lip laceration</i>	1st	5.	3	6.	2	7.	9	8.	06	9.	02	10.	1	11.	8	12.	602	13.	3	14.	3	15.	00
<i>back of head lac. ~3cm</i>	2nd	16.	2	17.	1	18.	9	19.	06	20.	02	21.	1	22.	6	23.	602	24.	2	25.	3	26.	00
<i>prostate completely absent</i>	3rd	19.	2	20.	5	21.	4	22.	50	23.	26	24.	3	25.	8	26.	006	27.	3	28.	1	29.	05
<i>amputated acetabular fx</i>	4th	38.	2	39.	8	40.	5	41.	26	42.	04	43.	3	44.	2	45.	006	46.	3	47.	1	48.	05
<i>lower leg abrasion</i>	5th	49.	3	50.	8	51.	9	52.	02	53.	02	54.	1	55.	3	56.	010	57.	2	58.	1	59.	01
<i>fractured vertebrae (P&gt;L)</i>	6th	60.	2	61.	1	62.	4	63.	06	64.	20	65.	3	66.	3	67.	603	68.	2	69.	3	70.	00
<i>abrasion lip area</i>	7th	71.	3	72.	2	73.	9	74.	02	75.	02	76.	1	77.	8	78.	602	79.	3	80.	3	81.	00
<i>symphysis pubis diastasis</i>	8th	82.	2	83.	8	84.	5	85.	30	86.	00	87.	3	88.	5	89.	006	90.	3	91.	1	92.	05
<i>subdural hematoma 5mm max. thickness</i>	9th	93.	2	94.	1	95.	4	96.	06	97.	52	98.	4	99.	1	100.	603	101.	2	102.	3	103.	00
<i>skull injury</i>	10th	104.	2	105.	1	106.	4	107.	06	108.	28	109.	5	110.	9	111.	603	112.	2	113.	3	114.	00





# 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
- (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): *impact force*
- (604) Air bag exhaust gases
- (697) Injured, unknown source

# OFFICIAL INJURY DATA — SOFT TISSUE INJURIES

DS/ER:

Restrained?

No  
 Yes

Blood Alcohol Level (mg/dl)

BAL =  $\phi$

Glasgow Coma Scale Score

GCSS = 15

Units of Blood Given

Units = 2

Arterial Blood Gases

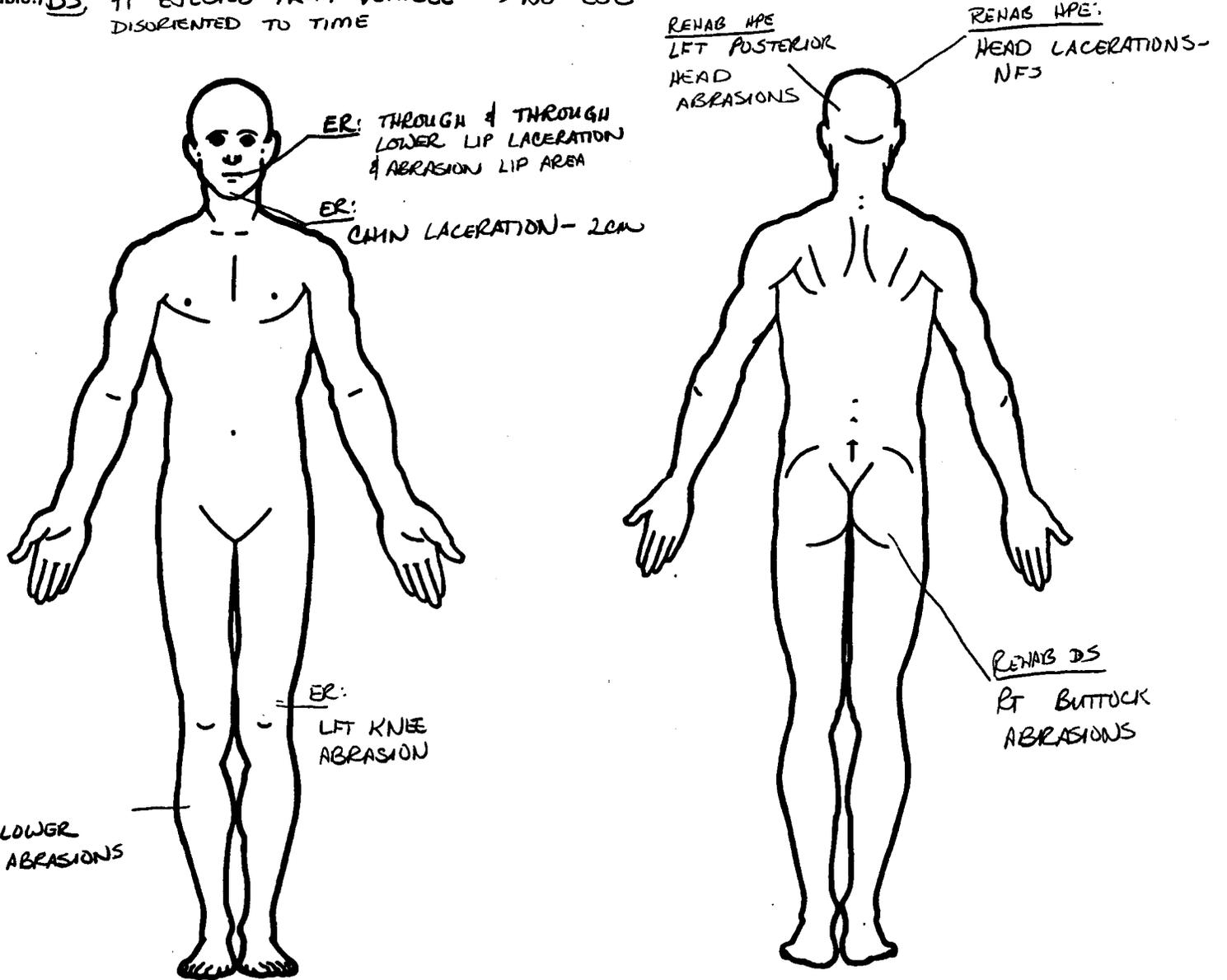
pH = 7.49

PO<sub>2</sub> = 113

XCO<sub>2</sub> = 23

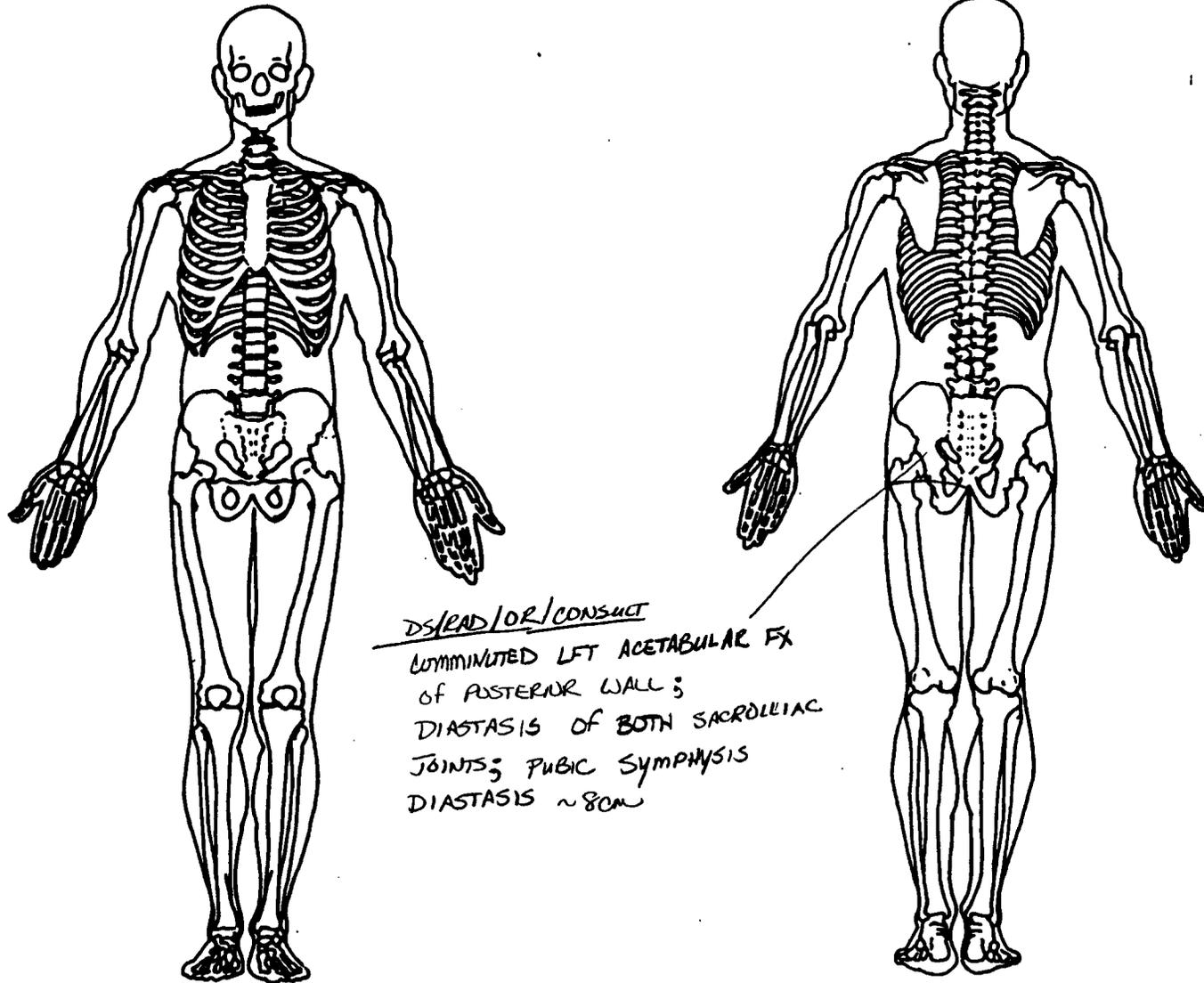
HCO<sub>3</sub> = 17.4

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.) DS: PT EJECTED FROM VEHICLE → NO LOC  
 DISORIENTED TO TIME



# 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.)

DS/RAD/CONSULT RETROGRADE AMNESIA;

CLOSED HEAD INJURY;

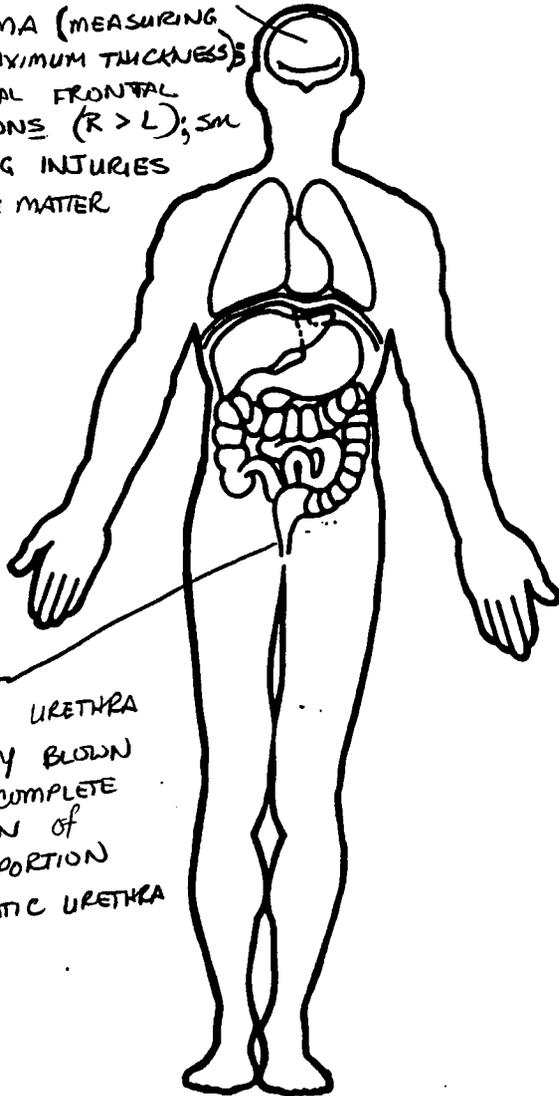
RT FRONTAL SUBDURAL

HYGROMA (MEASURING  
5mm MAXIMUM THICKNESS)

BILATERAL FRONTAL  
CONTUSIONS (R > L); SM

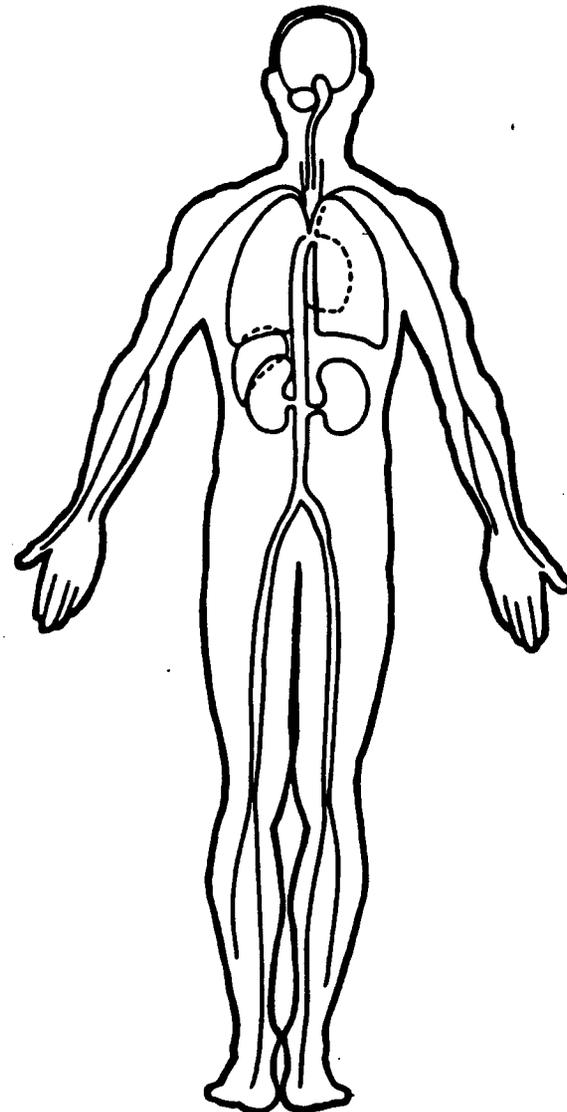
SHEARING INJURIES

IN WHITE MATTER



OR

PROSTATIC URETHRA  
COMPLETELY BLOWN  
APART w/ COMPLETE  
DISRUPTION of  
ANTERIOR PORTION  
of PROSTATIC URETHRA





# UPDATE FORM

1. Primary Sampling Unit Number 09  
 2. Case Number - Stratum 010B  
 3. Vehicle Number 02  
 4. Occupant Number 01

RECEIVED [REDACTED] 1996

Driver or Occupant Name: [REDACTED]  
 Address: [REDACTED] Road  
 [REDACTED] Rd [REDACTED]  
 Other Information: \_\_\_\_\_

(Sanitize this section prior to Update submission.)

## STATUS OF OCCUPANT INFORMATION

	INITIAL SUBMISSION	UPDATED INFORMATION
OAL08. Date Official Medical Data Requested	[REDACTED]	[REDACTED] 96
OAL09. Date Official Medical Data Obtained	[REDACTED]	[REDACTED] 96
OAL16. Injury Treatment Status	___	___
OAL17. Injury Information		
<u>Official</u>		
a. Autopsy (invasive examination)	B ___	___
b. Post-ER medical record which includes information about death based on non-invasive examination	B ___	___
c. Admission record/summary or admission/discharge face sheet	B ___	11
d. Discharge summary	B ___	11
e. Operative report	B ___	___
f. Radiographic record(s) (X-ray, CT scan)	B ___	11
g. History and physical examination and/or consultation records	B ___	11
h. Emergency room records (includes nurses' notes)	B ___	___
j. Private physician	B ___	___
<u>Unofficial</u>		
k. Lay coroner	B ___	___
l. EMS record	B ___	___
m. Interviewee	B ___	___
n. Other source (specify): _____	B ___	B ___
o. Police report	B ___	B ___

	INITIAL SUBMISSION	UPDATED INFORMATION
OAL18. Medical Facility Code	___	[REDACTED]
GV14. Alcohol Test Results For Driver	___	___
GV16. Other Drug Specimen Test Type For Driver	___	___
OA05. Occupant's Age	___	___
OA06. Occupant's Sex	___	___
OA07. Occupant's Height	___	___
OA08. Occupant's Weight	___	___
OA61. Treatment-Mortality	___	___
OA62. Type of Medical Facility (for Initial Treatment)	___	___
OA63. Hospital Stay	___	___



# UPDATE FORM

1. Primary Sampling Unit Number 09

2. Case Number - Stratum 010B

3. Vehicle Number 02

4. Occupant Number 01

RECEIVED [REDACTED] 1996

Driver or Occupant Name: [REDACTED]

Address: [REDACTED]

Other Information: \_\_\_\_\_

(Sanitize this section prior to Update submission.)

## STATUS OF OCCUPANT INFORMATION

	INITIAL SUBMISSION	UPDATED INFORMATION
<i>Follow up</i> OAL08. Date Official Medical Data Requested	[REDACTED]	96
OAL09. Date Official Medical Data Obtained	[REDACTED]	96
OAL16. Injury Treatment Status	___	___
OAL17. Injury Information		
<u>Official</u>		
a. Autopsy (invasive examination)	B ___	___
b. Post-ER medical record which includes information about death based on non-invasive examination	B ___	___
c. Admission record/summary or admission/discharge face sheet	B ___	11
d. Discharge summary	B ___	11
e. Operative report	B ___	11
f. Radiographic record(s) (X-ray, CT scan)	B ___	11
g. History and physical examination and/or consultation records	B ___	11
h. Emergency room records (includes nurses' notes)	B ___	11
j. Private physician	B ___	___
<u>Unofficial</u>		
k. Lay coroner	B ___	___
l. EMS record	B ___	___
m. Interviewee	B ___	___
n. Other source (specify):	B ___	B ___
o. Police report	B ___	B ___

	INITIAL SUBMISSION	UPDATED INFORMATION
OAL18. Medical Facility Code	10	___
GV14. Alcohol Test Results For Driver	96	___
GV16. Other Drug Specimen Test Type For Driver	0	___
OA05. Occupant's Age	31	___
OA06. Occupant's Sex	1	___
OA07. Occupant's Height	175	___
OA08. Occupant's Weight	093	___
OA61. Treatment-Mortality	3	___
OA62. Type of Medical Facility (for Initial Treatment)	1	___
OA63. Hospital Stay	99	___



# SMASH PROGRAM SUMMARY

(All Measurements In Metric)

Identifying Title

BARRIER

09

010B

01

[REDACTED] [REDACTED] 196

Primary Sampling Unit

Case No.-Stratum

Accident Event Sequence No.

Date (Month, day, year) of Run

## GENERAL INFORMATION

VEHICLE 1

VEHICLE 2

NASS Vehicle Number

01

NASS Vehicle Number

02

Year

1992

Year

1990

Make

Dodge

Make

Ford

Model

Caravan

Model

F-250

Body Style

JN

Body Style

PV

CDC

12 N F Y E W 4

CDC

12 N F Y E W 4

PDOF

020

PDOF

020

Heading Angle

255

Heading Angle

285  
120

## VEHICLE SPECIFICATIONS

VEHICLE 1

VEHICLE 2

Wheelbase

303 cm

Wheelbase

338 cm

Overall Length

490 cm

Overall Length

534 cm

Overall Width

183 cm

Overall Width

201 cm

Weight

1684  
1600 + 14 + 18 = 1704 kg

Weight

2032 340  
2078 + 93 + 680 = 2851 kg

Curb Occupant(s) Cargo

Curb Occupant(s) Cargo

Engine Displacement

3.3 L

Engine Displacement

5.8 L

Drive System

FWD

Drive System

4WD

Size

5

Size

6

Stiffness

7

Stiffness

8

## DAMAGE INFORMATION

VEHICLE 1

VEHICLE 2

Damage Known?

Y

Damage Known?

Y

Damage Length

172 cm

Damage Length

185 cm

Damage Offset

035 cm

Damage Offset

045 cm

Crush Depth:

C1 090 cm

Crush Depth:

C1 114 cm

C2 084 cm

C2 101 cm

C3 074 cm

C3 097 cm

C4 066 cm

C4 095 cm

C5 042 cm

C5 061 cm

C6 006 cm

C6 000 cm

### SCENE INFORMATION

Rest and Impact Positions  No  Yes

VEHICLE 1		VEHICLE 2	
Rest	X _____ m	Rest	X _____ m
Position	Y _____ m	Position	Y _____ m
	Heading Angle _____ °		Heading Angle _____ °
Impact	X _____ m	Impact	X _____ m
Position	Y _____ m	Position	Y _____ m
	Heading Angle _____ °		Heading Angle _____ °
Slip Angle (-180 to +180)	_____ °	Slip Angle (-180 to +180)	_____ °

### VEHICLE MOTION

Sustained Contact  No  Yes

Sustained Contact  No  Yes

VEHICLE 1

Vehicle Rotation  No  Yes  
 Rotation Stop Before Rest  No  Yes

End of Rotation X \_\_\_\_\_ m  
 Position Y \_\_\_\_\_ m  
 Heading Angle \_\_\_\_\_ °

Curved Path  No  Yes

Point on Path  
 X \_\_\_\_\_ m Y \_\_\_\_\_ m

Rotation Direction  None  CW  CCW  
 Rotation > 360°  No  Yes

VEHICLE 2

Vehicle Rotation  No  Yes  
 Rotation Stop Before Rest  No  Yes

End of Rotation X \_\_\_\_\_ m  
 Position Y \_\_\_\_\_ m  
 Heading Angle \_\_\_\_\_ °

Curved Path  No  Yes

Point on Path  
 X \_\_\_\_\_ m Y \_\_\_\_\_ m

Rotation Direction  None  CW  CCW  
 Rotation > 360°  No  Yes

### FRICITION INFORMATION

Coefficient of Friction \_\_\_\_\_  
 Rolling Resistance Option \_\_\_\_\_

1

Vehicle 1 Rolling Resistance

LF \_\_\_\_\_  
 RF \_\_\_\_\_  
 LR \_\_\_\_\_  
 RR \_\_\_\_\_

Vehicle 2 Rolling Resistance

LF \_\_\_\_\_  
 RF \_\_\_\_\_  
 LR \_\_\_\_\_  
 RR \_\_\_\_\_

IF THIS COMMON IMPACT WAS WITH A CDC VEHICLE NOT IN TRANSPORT, FILL IN THE INFORMATION BELOW

Model Year: \_\_\_\_\_  
 Make: \_\_\_\_\_  
 Model: \_\_\_\_\_  
 VIN: \_\_\_\_\_

The Weight, CDC, Scene Data and Damage Information for this vehicle should be recorded above.

**Complete and ATTACH the appropriate damage sketch and dimensions to the form.**

Summary of Results Using Damage

09010B IMPACT 1 SMASH

Speed Change  
(Damage)

Vehicle #1

Total 85 km/h ( 53 mph)  
 Longitudinal -85 km/h ( -53 mph)  
 Latitudinal 0 km/h ( 0 mph)  
 PDOF Angle 0 °  
 Energy Dissipated = 390171 Joules ( 287737 Ft-Lb)  
 Barrier Equivalent Speed = 70.8 km/h ( 44.0 mph)  
 Calculated using crush coefficients entered by the user.

Vehicle #2

Total 61 km/h ( 38 mph)  
 Longitudinal -61 km/h ( -38 mph)  
 Latitudinal 0 km/h ( 0 mph)  
 PDOF Angle 0 °  
 Energy Dissipated = 586702 Joules ( 432671 Ft-Lb)  
 Barrier Equivalent Speed = 73.0 km/h ( 45.4 mph)  
 Calculated using crush coefficients entered by the user.

General Information

	Vehicle #1	Vehicle #2
Year	1992	1990
Make	Dodge	Ford
Model	Caravan LE	F-250
CDC	12FYEW4	12FYEW4
Side Damaged	F	F
PDOF Angle	0 °	0 °
Heading Angle	255 °	120 °

Calculation method: Vehicle's Crush Coeff.      Vehicle's Crush Coeff.

d0 crush coeff.      109.73 sqrt(N)      105.71 sqrt(N)  
 d1 crush coeff.      8.51 sqrt(N)/cm      7.98 sqrt(N)/cm

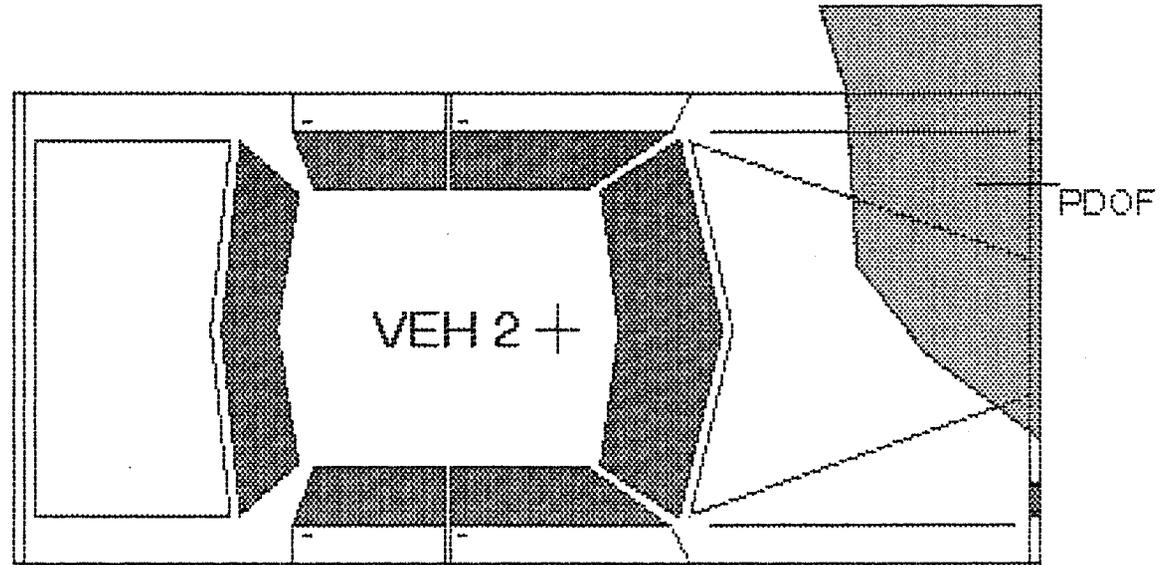
Damage Information

Vehicle Damage Known	Vehicle #1	Vehicle #2
	-----	-----
	Yes	Yes
Crush Length	172.0 cm ( 68 in)	185.0 cm ( 73 in)
C1	90.0 cm ( 35 in)	114.0 cm ( 45 in)
C2	84.0 cm ( 33 in)	101.0 cm ( 40 in)
C3	74.0 cm ( 29 in)	97.0 cm ( 38 in)
C4	66.0 cm ( 26 in)	95.0 cm ( 37 in)
C5	42.0 cm ( 17 in)	61.0 cm ( 24 in)
C6	6.0 cm ( 2 in)	0.0 cm ( 0 in)
D	-34.9 cm ( -14 in)	-44.9 cm ( -18 in)
D'	-52.2 cm ( -21 in)	-61.5 cm ( -24 in)

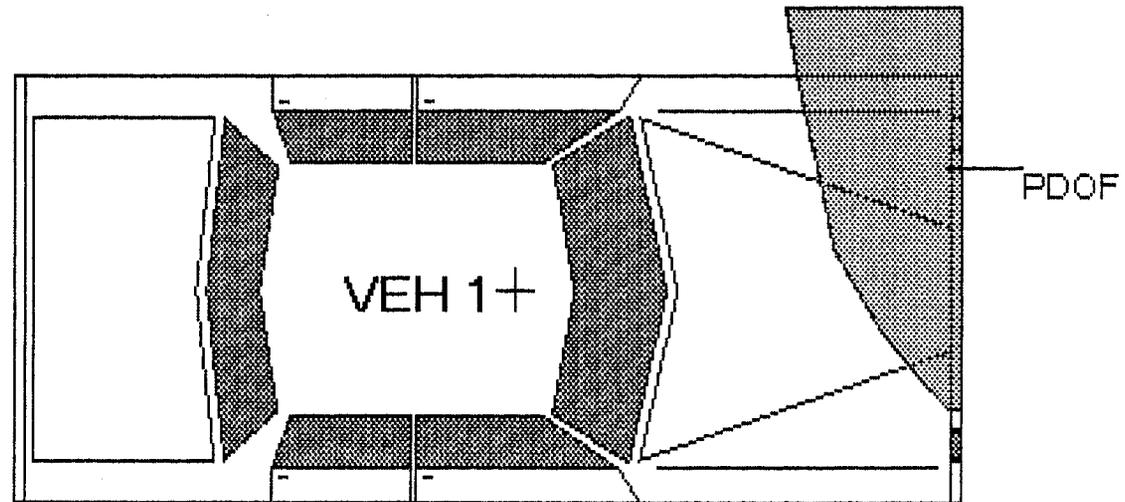
Vehicle Dimensions

	Vehicle #1	Vehicle #2
	-----	-----
Length	490.0 cm ( 193 in)	534.0 cm ( 210 in)
Width	183.0 cm ( 72 in)	201.0 cm ( 79 in)
Wheelbase	303.0 cm ( 119 in)	338.0 cm ( 133 in)
Weight	1766 kgs ( 3893 lbs)	2465 kgs ( 5434 lbs)
CG to Front of Veh	258.6 cm ( 102 in)	264.7 cm ( 104 in)
Engine Displacement	3.3 liters	5.8 liters
Moment of Inertia	362509 kgs ( 32086 lbs)	635035 kgs ( 56208 lbs)
Vehicle Mass	1766 kgs ( 10.1 lb-s <sup>2</sup> /in)	2465 kgs ( 14.1 lb-s <sup>2</sup> /in)

1990 Ford F-250



1992 Dodge Caravan LE



09010B00000011[REDACTED]969.0000000000000212360000001[REDACTED]96[REDACTED]96[REDACTED]96[REDACTED]96015612000  
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09010B00010012[REDACTED]969.0010000000000120F0231F  
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035 17208530315501000401040101001000  
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09010B02011261 9.00 0000000002190202166022300  
09010B02011361 9.00 0000000002890202111512100



INTERIOR VEHICLE Vehicle: 1

11

INTRA ERRORS

POSSIBLE HOLED WINDSHIELD. \*\*\*\*\*  
IF CORRECT, NOTIFY YOUR ZONE \*\*\*\*\*  
als 3 or 5 or CONTACT WINDSHIELD IV39

OCC0541 2 \*\*\*\*\* THIS CASE SHOWS A  
CC0542 \*\*\*\*\* CHECK YOUR DATA AND  
CC0543 GLAZING WINDSHIELD IV31 equ  
CC0544 equals 4 or 6.

O  
OCCUPANT INJURY Vehicle: 1 Occupant: 1

11

INTRA ERRORS

IS A SPECIAL INTEREST CASE FOR NHTSA  
SE SHOWS A RESTRAINT AS THE INJURY SOURCE  
FOR AN AIS-2 (OR GREATER) INJURY.  
R ACCURATE AND COMPLETED DOCUMENTS & DATA  
ER THAN AIS-2, CALL [REDACTED]  
I12(n) equals 152-154, 162 or 170-195 and  
) equals 2-6.

OTT0541 2 \*\*\*\*\* THIS  
TT0542 \*\*\*\*\* THIS CA  
TT0543 \*\*\*\*\*  
TT0544 \*\*\*\*\* CHECK FO  
TT0545 \*\*\*\*\* IF GREAT  
TT0546 INJURY SOURCE O  
TT0547 SEVERITY OI10(n

O  
GENERAL VEHICLE Vehicle: 2

11

INTRA ERRORS

= 20, 24, 28, 44, 45, 51, 65, 69, 71,  
, then PRE-EVENT MOVEMENT GV31 should

OGG2251 2 If ACCIDENT TYPE GV36 equal  
GG2252 73, 77, 79, 81, 83 or 86-89  
GG2253 equal 01.

O  
INTERIOR VEHICLE Vehicle: 2

11

INTRA ERRORS

DOOR OR HATCH OR GATE OPENING \*\*\*\*\*  
IF CORRECT, NOTIFY YOUR ZONE \*\*\*\*\*  
= 2 or IV06 equals 2 or IV07 equals 2  
quals 2.

OCC0531 2 \*\*\*\*\* THIS CASE SHOWS A D  
CC0532 \*\*\*\*\* CHECK YOUR DATA AND  
CC0533 DOOR LEFT FRONT IV05 equal  
CC0534 or IV08 equals 2 or IV09 e

PSU09  
CASE 010B  
CURRENT VERSION: 9.00

## ERROR SUMMARY SCREEN

FORM NAME	NUMBER OF DOLLAR SIGNS	NUMBER OF LEVEL 1 ERRORS	NUMBER OF LEVEL 2 ERRORS	VERSION NUMBER CONSISTENT
Accident	0	0	0	Y
General Vehicle	0	0	1	Y
Vehicle Exterior	0	0	0	Y
Vehicle Interior	0	0	2	Y
Occupant Assessment	0	0	0	Y
Occupant Injury	0	0	1	Y
Total Inter Errors		0	0	
Total Case Errors	0	0	4	







PSU 09-010B (1996) #1



PSU 09-010B (1996) #2



PSU 09-010B (1996) #3



PSU 09-010B (1996) #4



PSU 09-010B (1996) #5



PSU 09-010B (1996) #6



PSU 09-010B (1996) #7



PSU 09-010B (1996) #8



PSU 09-010B (1996) #9



PSU 09-010B (1996) #10



PSU 09-0106 (1996) #11



PSU 09-010B (1996) #12



PSU 09-010B (1996) #13



PSU 09-010B (1996) #14



PSU 09-010B (1998) #15



PSU 09-010B (1996) #16



PSU 09-010B (1996) #17



PSU 09-010B (1996) #18



**PSU 09-010B (1996) #19**  
**Best Available**



**PSU 09-010B (1996) #20**  
**Best Available**



PSU 09-0106 (1996) #21  
Best Available



PSU 09-0106 (1996) #22  
Best Available



PSU 09-010B (1996) #23  
Best Available



PSU 09-010B (1996) #24  
Best Available



PSU 09-0108 (1996) #25

Best Available



**PSU 09-010B (1996) #26**  
**Best Available**



**PSU 09-010B (1996) #27**  
**Best Available**



PSU 09-010B (1996) #28  
Best Available



PSU 09-010B (1996) #29

Best Available



PSU 09-010B (1996) #30  
Best Available



**PSU 09-010B (1996) #31**  
**Best Available**



**PSU 09-010B (1996) #32**  
**Best Available**



**PSU 09-010B (1996) #33**  
**Best Available**



PSU 09-010B (1996) #34



PSU 09-010B (1996) #35



PSU 09-010B (1996) #36



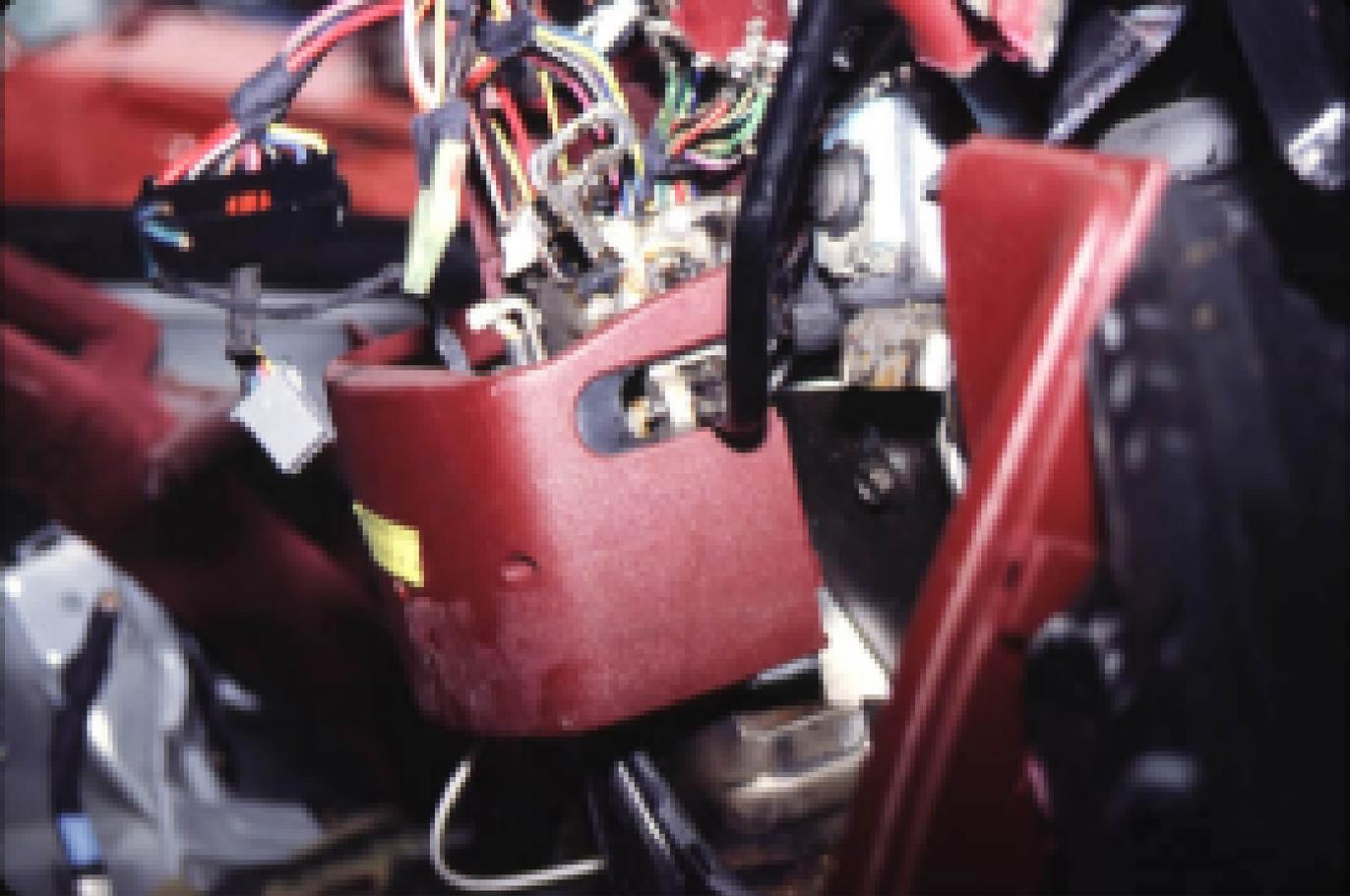
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PSU 09-010B (1996) #39



PSU 09-010B (1996) #39



PSU 09-010B (1996) #40  
Best Available



PSU 09-010B (1996) #41  
Best Available



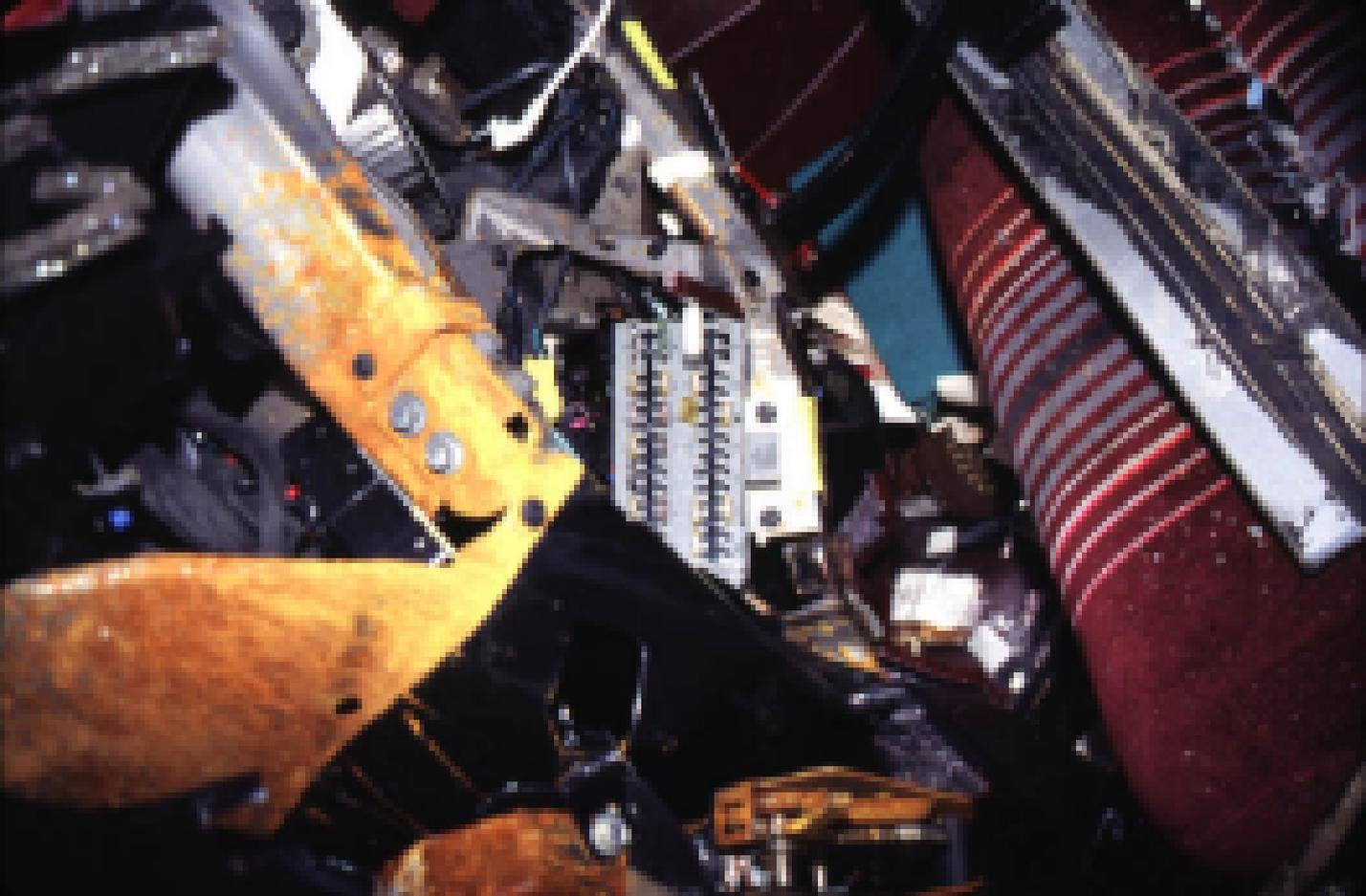
PSU 09-010B (1996) #42



PSU 09-010B (1996) #43  
Best Available



PSU 09-010B (1996) #44  
Best Available



PSU 09-010B (1986) #45  
Best Available



PSU 09-010B (1996) #46  
Best Available



PSU 09-0108 (1996) #47  
Best Available



PSU 09-010B (1996) #4B



PSU 09-010B (1996) #49



PSU 09-010B (1996) #50



PSU 09-010B (1996) #51  
Best Available



PSU 09-010B (1996) #52



PSU 09-010B (1998) #53



PSU 09-010B (1996) #54



PSU 09-010B (1996) #55



FSU 09-0108 (1996) #56



PSU 09-0108 (1996) #57



PSU 09-010B (1996) #58



FSU 09-0108 (1996) #59



PSU 09-010B (1996) #60



PSU 09-010B (1996) #61  
Best Available



PSU 09-010B (1996) #62



PSU 09-010B (1996) #63



PSU 09-010B (1986) #64



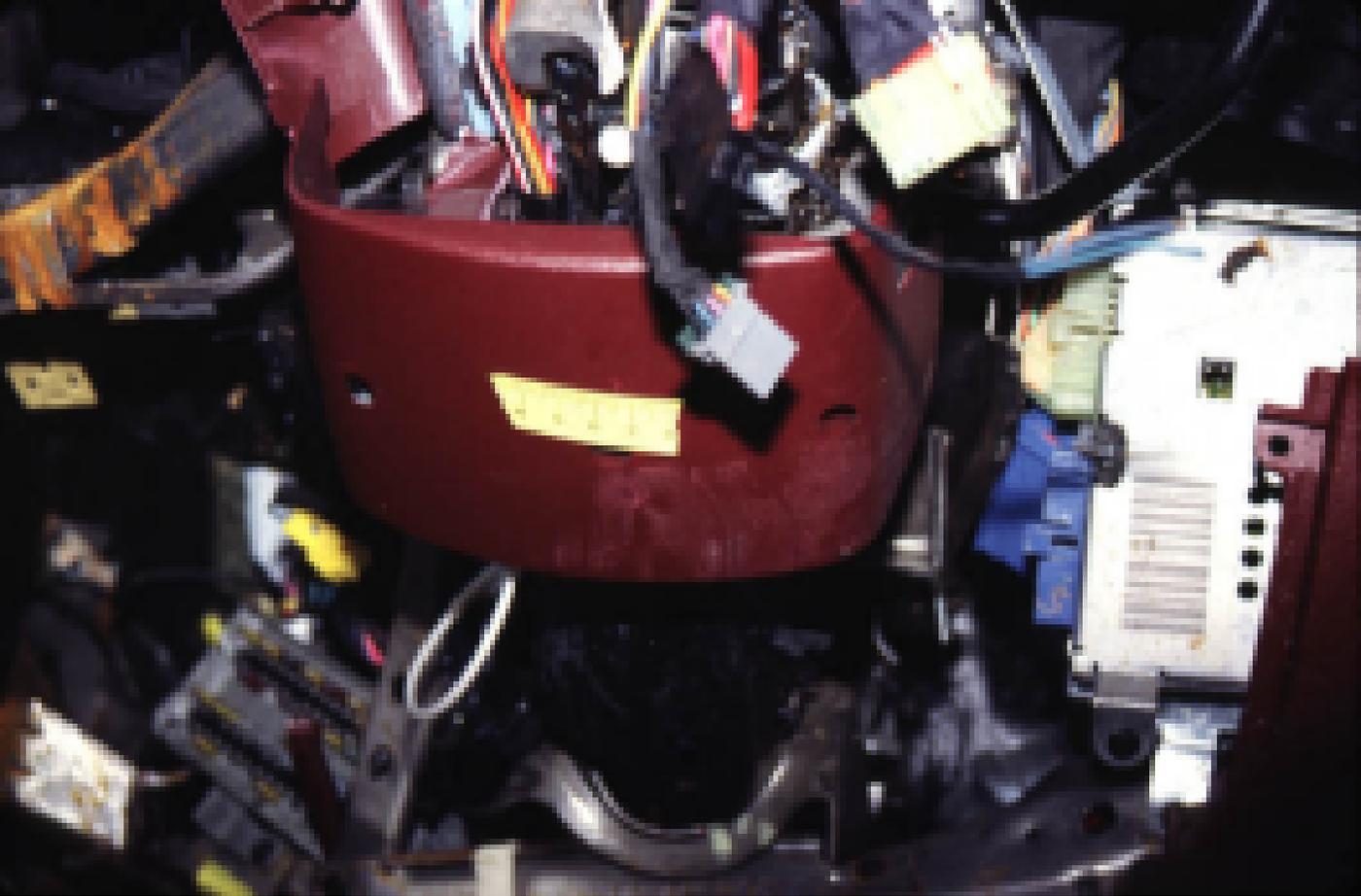
PSU 09-0108 (1996) #65



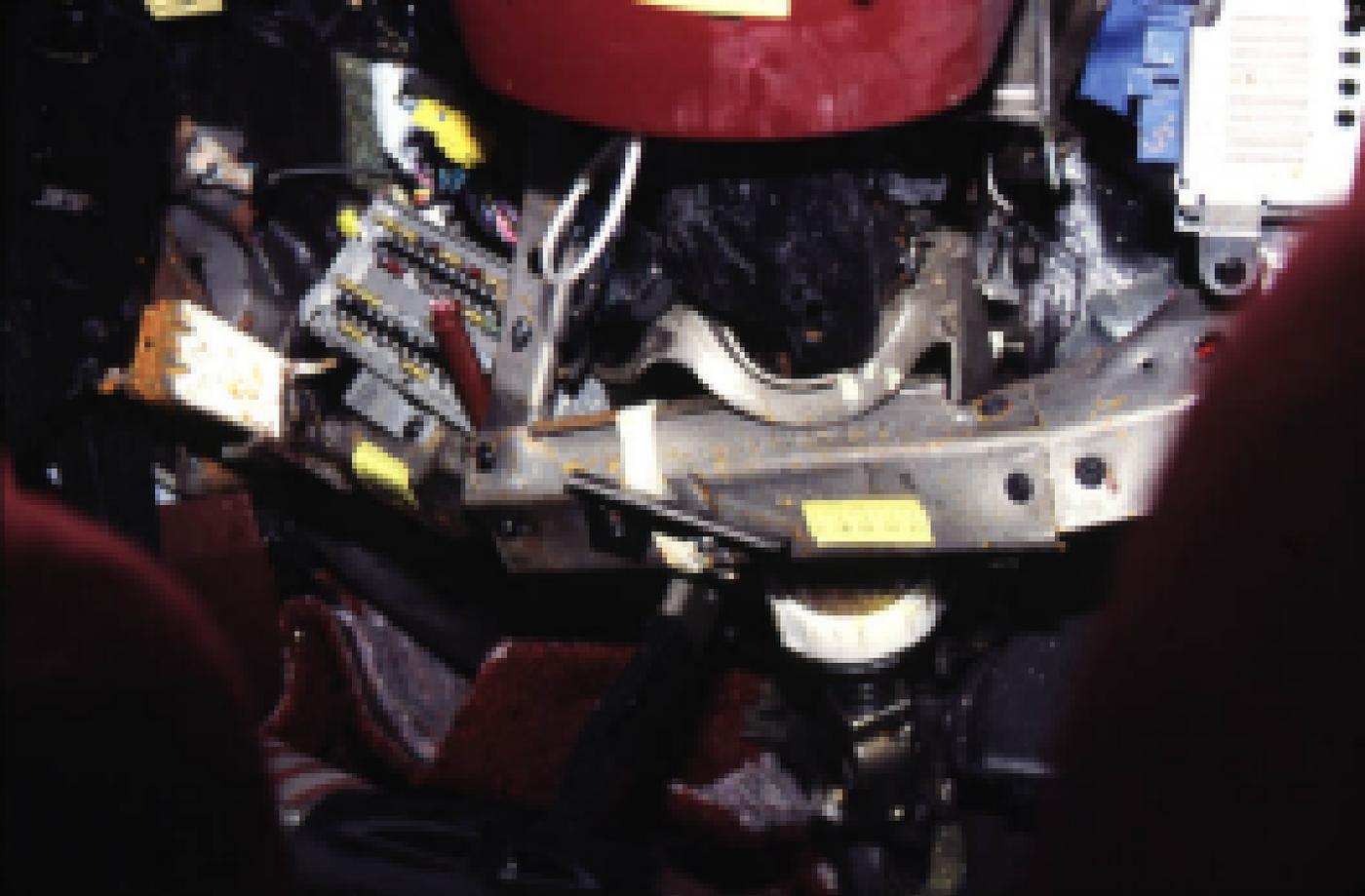
PSU 09-010B (1998) #68  
Best Available



**PSU 09-010B (1996) #67**  
**Best Available**



PSU 09-010B (1966) #68  
Best Available



PSU 09-010B (1996) #69  
Best Available



PSU 09-010B (1996) #70



**PSU 09-010B (1996) #71**  
**Best Available**



PSU 09-010B (1996) #72



**PSU 09-010B (1996) #73**  
**Best Available**



PSU 09-010B (1996) #74  
Best Available



**PSU 09-010B (1996) #75**  
**Best Available**



PSU 09-0106 (1996) #76  
Best Available



FSU 09-010B (1996) #77  
Best Available



**PSU 09-010B (1996) #78**  
**Best Available**



PSU 09-0108 (1996) #79

Best Available



**PSU 09-010B (1998) #80**  
**Best Available**



PSU 09-010B (1996) #61  
Best Available



**PSU 09-010B (1996) #62**  
**Best Available**



PSU 09-010B (1996) #83

Best Available



**PSU 09-010B (1996) #84**  
**Best Available**



**PSJ 09-010B (1996) #85**  
**Best Available**



PSU 09-010B (1996) #86  
Best Available



**PSU 09-010B (1996) #87**  
**Best Available**



PSU 09-0108 (1996) #88



PSU 09-010B (1996) #89



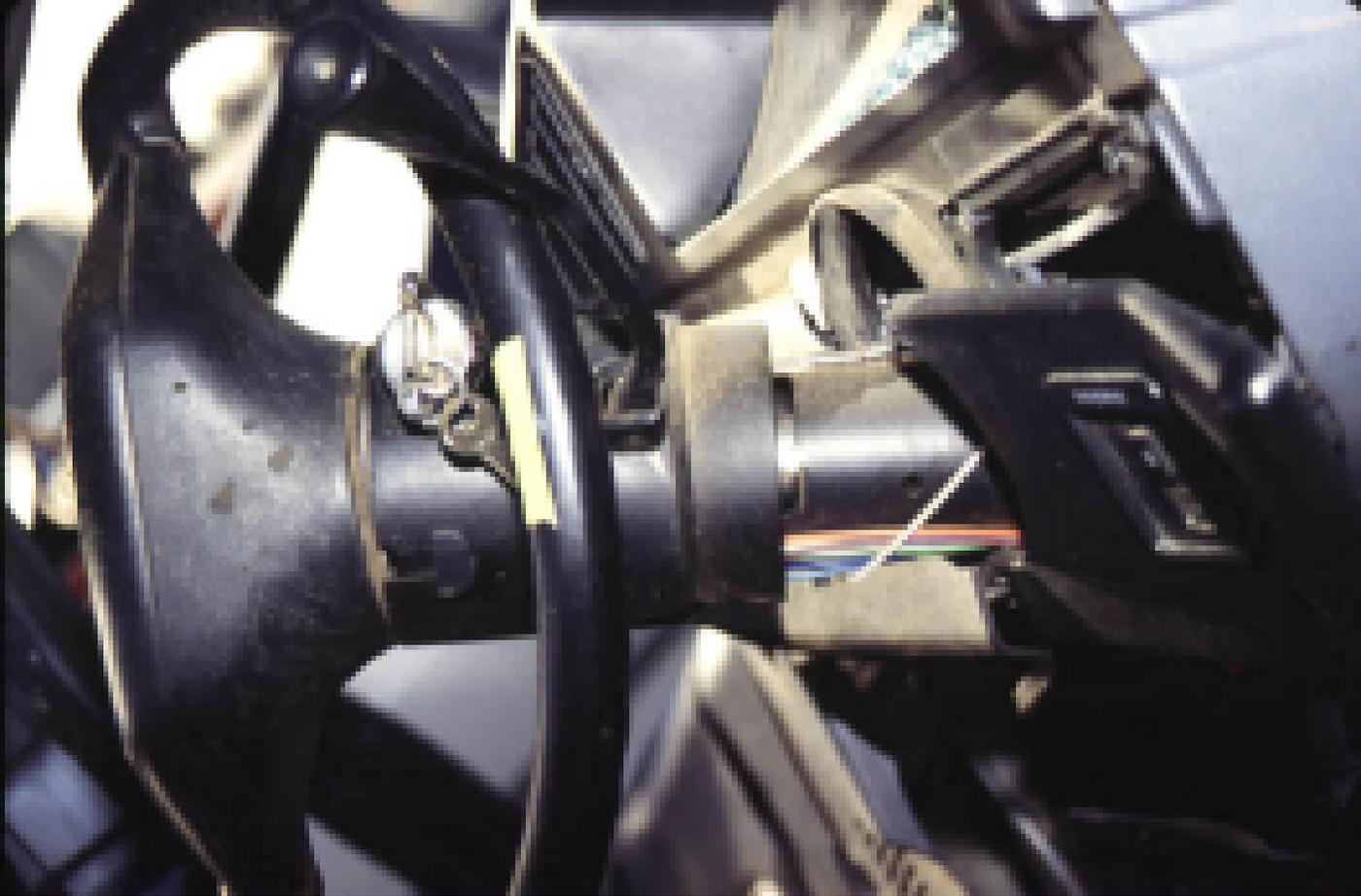
PSU 09-010B (1996) #90



**PSU 09-010B (1996) #91**  
**Best Available**



PSU 09-010B (1996) #92

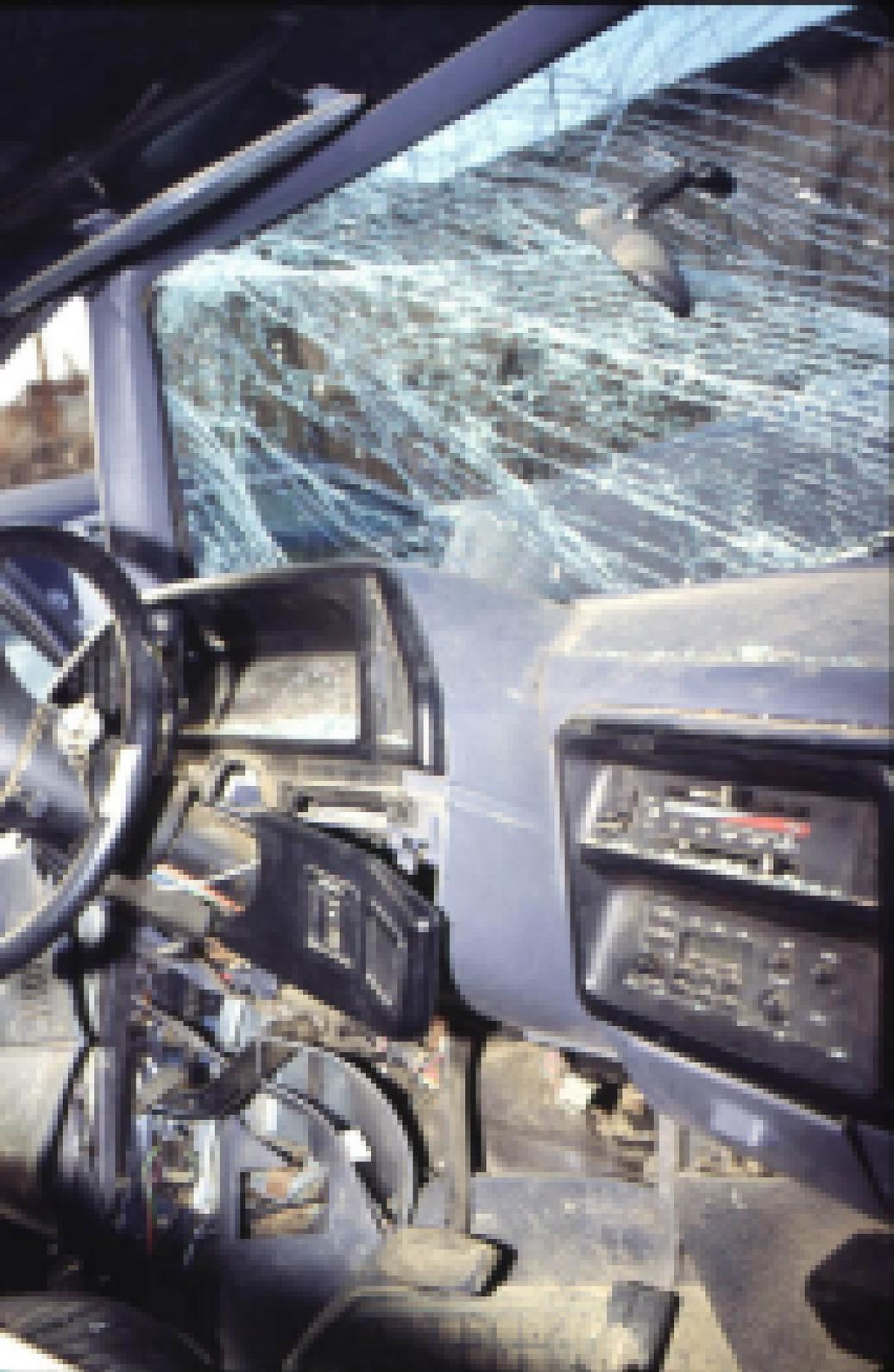


PSU 09-010B (1996) #83  
Best Available



PSU 09-010B (1996) #94

Best Available



**PSU 09-010B (1996) #95**  
**Best Available**



**PSU 09-010B (1996) #96  
Best Available**



PSU 09-010B (1996) #97  
Best Available



**PSU 09-0106 (1996) #98**  
**Best Available**



PSU 09-0108 (1998) #99



PSU 09-010B (1998) #100



**PSU 09-010B (1996) #101**  
**Best Available**



PSU 09-010B (1996) #102



PSU 09-0108 (1996) #103



**PSU 09-010B (1996) #104**  
**Best Available**



**PSU 09-010B (1996) #105**  
**Best Available**



PSU 09-010B (1996) #106  
Best Available