



U.S. Department  
of Transportation

**National Highway  
Traffic Safety  
Administration**

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

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 10 CASE NO. 07713 TYPE OF ACCIDENT REAR END

#### 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. Use reverse side if needed.)

veh# 2 - TRAVELING SB ON X-WAY  
pulls off to shoulder TO EXCHANGE DRIVERS, NO ONE  
SEATED IN DRIVERS POSITION, VEH#1, ALSO TRAVELING  
SB VEERS OFF X-WAY AND STRIKES THE BR OF VEH#2  
WITH ITS FL, CAUSING VEH#1 TO OVERLAP VEH#2 RIPPING  
IT OPEN, ALSO STRIKING THE BACK OF V2-O1 SEAT,  
veh#1, THEN CONTINUED SB, ROTATING CCW AROUND  
AND ROLLING OVER COMING TO REST ON ALL FOUR

#### B. VEHICLE PROFILE(S)

Vehicle No.	Class of Vehicle	Year/Make/Model	Most Severe Damage		Component Failure
			Damage Plane	Severity Description	
1	13	81/Geo/ES300	F	MODERATE	INSTRUMENT FAILURE
2	01	80/MERcury/B08	B	SEVERE	NONE

#### C. PERSON PROFILE(S)

Vehicle No.	Person Role	Seat Position	Restraint Use	Most Severe Injury			
				Body Region	Lesion	AIS	Injury Source
1	DRIVER	11	NONE	HEART	LUNGS	4	UNK
2	PASS	13	MAP/SHOULDER	BRAM	SEVERE HEMATOMA	5	UNK
2	PASS	13	NONE	LOWER LEG	FX	2	UNK

DO NOT SANITIZE THIS FORM

TIRES FACING EAST IN A GRASSY AREA,  
IMPACT CAUSED VEH#2 TO BE PUSHED OUT  
INTO THE FRONT LANE WHEN IT CAME TO  
REST. VEH#1, VEH#2-01 & 02 ALL TRANSPORTED  
TO HOSPITAL WHERE VEH#1 DIED 2 HRS  
AFTER ACCIDENT & VEH#2-01 4 DAYS  
AFTER. BOTH VEHICLES WERE TOWED



U.S. Department of Transportation  
National Highway Traffic Safety  
Administration

PSU No. 10

Case Number - Stratum 077 B

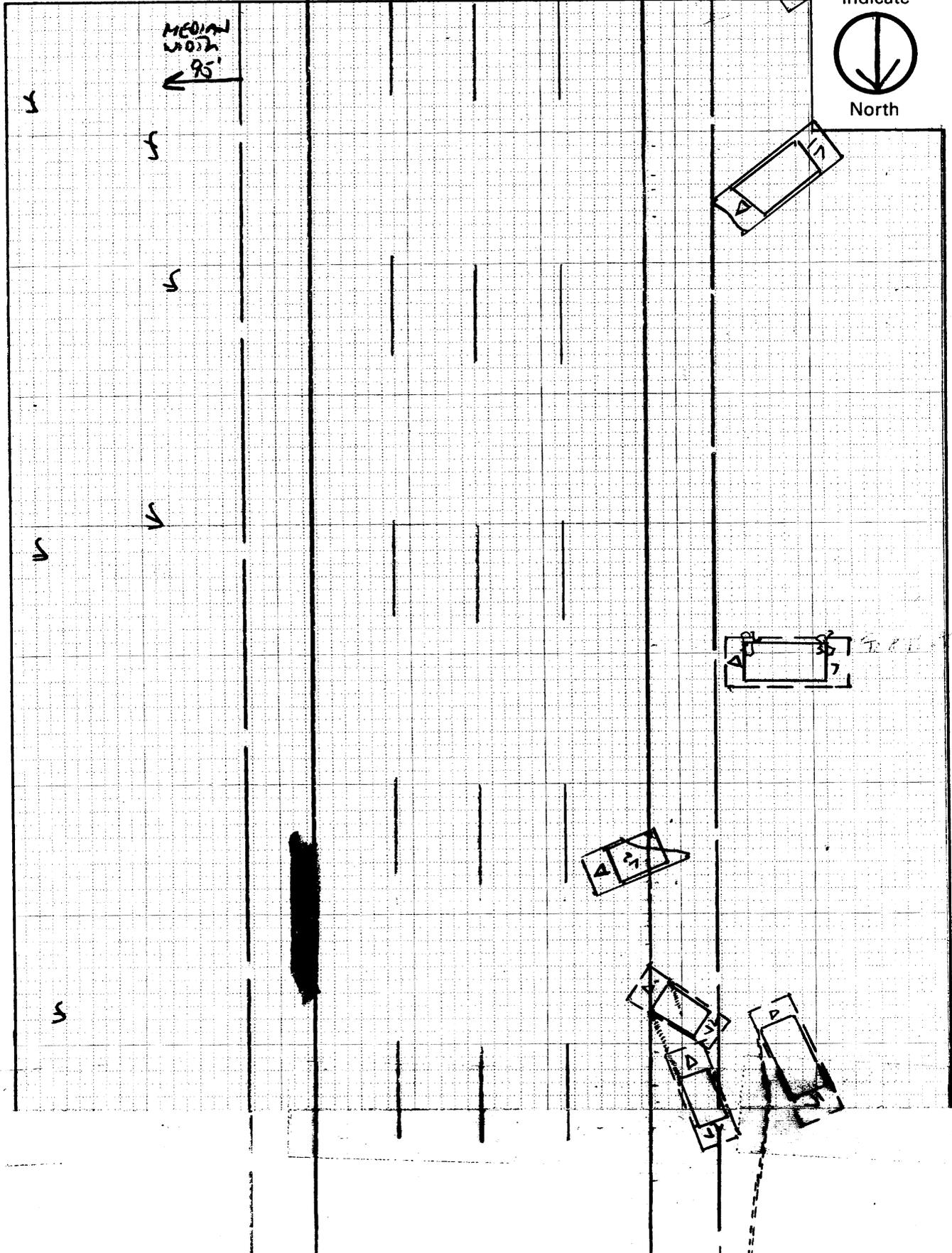
NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

1 of 3

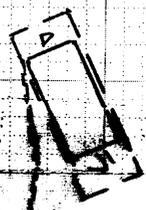
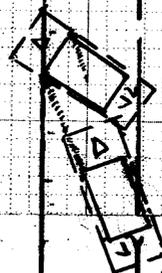
**ACCIDENT COLLISION DIAGRAM**

1" = 20'

RL



S



200  
100  
↓

5

5

5

5

5

5

S

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S

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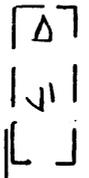
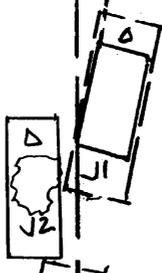
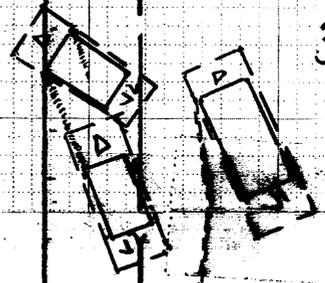
S

S

200 Exit no signs

S

S



200  
100  
2



# ACCIDENT COLLISION MEASUREMENT TABLE

Primary Sampling Unit Number 10 Case Number - Stratum 077B

ACCIDENT COLLISION DIAGRAM		CRASH DATA		
<p><b>LEVEL I</b> <b>PHYSICAL EVIDENCE ABSENT</b></p> <p>To be accomplished when there is no physical evidence present at the scene:</p> <ul style="list-style-type: none"> <li>*approximate vehicle orientation at impact and final rest</li> <li>*applicable road/roadway delineation (e.g., curbs/edge lines, lane markings, median markings, pavement markings, etc.)</li> <li>*applicable traffic controls (e.g., speed limit)</li> <li>*north arrow placed on diagram</li> <li>*sketch required</li> </ul>	<p><b>LEVEL II (Cont'd)</b> accomplished when physical evidence is present:</p> <ul style="list-style-type: none"> <li>*document reference point and reference line relative to physical features present at the scene</li> <li>*scaled documentation of all accident induced physical evidence</li> <li>*scaled documentation of all roadside objects contacted</li> <li>*roadway surface type and condition of applicable roadways</li> <li>*grade measurements for all applicable roadways</li> <li>*scaled representations of the vehicle(s) at pre-impact, impact, and final rest based upon either:               <ul style="list-style-type: none"> <li>a) physical evidence, or</li> <li>b) reconstructed accident dynamics</li> </ul> </li> </ul>	<p>VEH. #1    VEH. #2    VEH. #3</p> <p>Heading Angle    <u>190</u>    <u>180</u>    <u>-</u></p> <p>Surface Type    <u>CON</u>    <u>BIT</u>    <u>-</u></p> <p>Surface Condition    <u>Dry</u>    <u>Dry</u>    <u>-</u></p> <p>Grade Measurement (v/h)    <u>-25/48</u>    <u>-25/48</u>    <u>-</u></p>		
<p><b>LEVEL II</b> <b>PHYSICAL EVIDENCE PRESENT</b></p> <p>In addition to the Level I tasks noted above, the following must be:</p>				

Reference Point: Sign Exit Post Reference Line: WEST Edge of

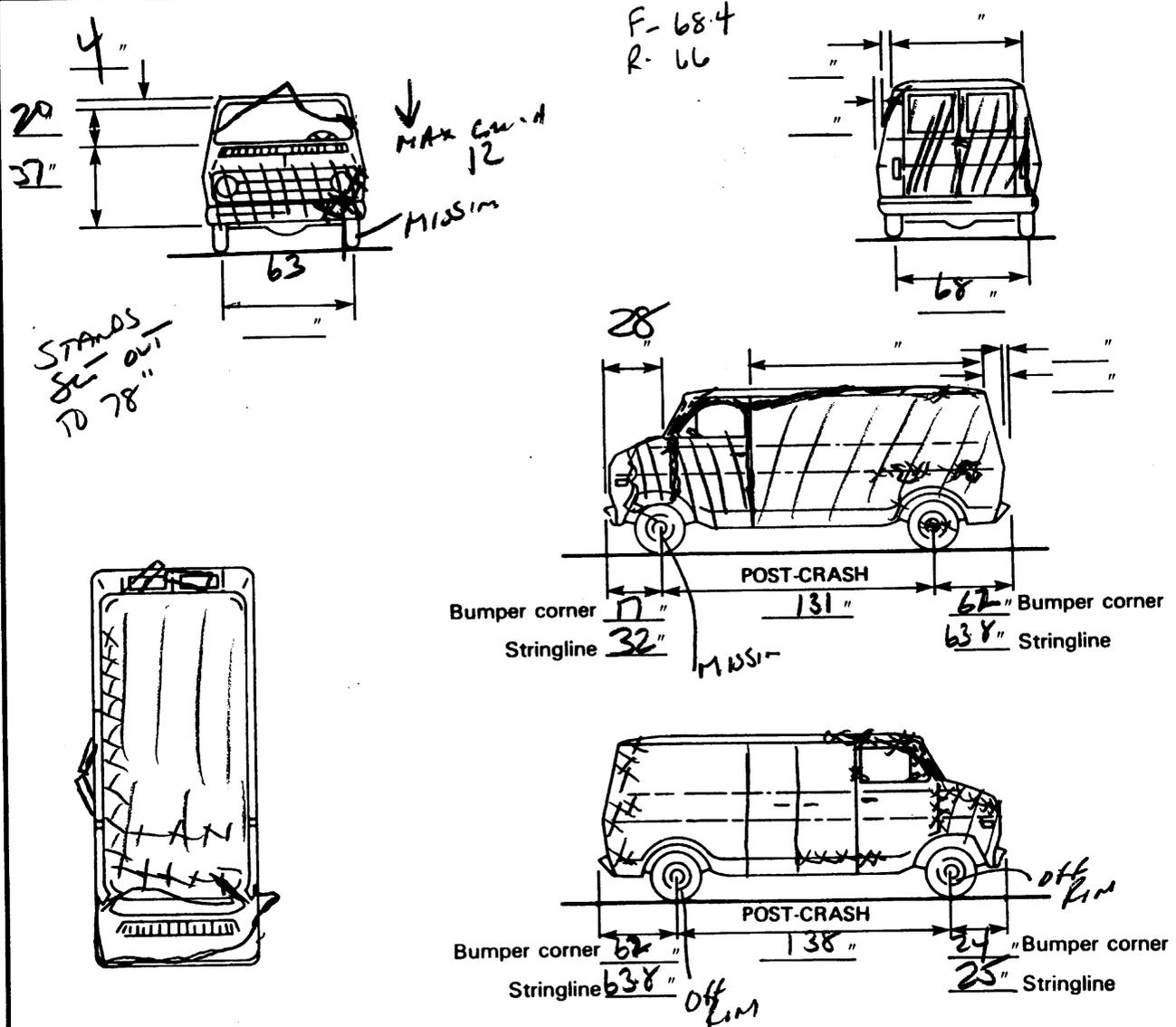
Item	Distance and Direction from Reference Point	Distance and Direction from Reference Line
Begin Spill mark	122.4 S	8.2 W
End Spill mark	126.8	8.2
Begin LF tire veh #1	138.9	12.10
MID LF veh #1	149.8	14.6
MID LF veh #1	163.1	15.11
MID LF veh #1	175.5	17.3
MID LF veh #1	177.9	17.3
Begin LF veh #2	177.9	4.0 W
MID LF veh #2	183.0	2.4 W
End LF veh #1 on grass	186.9	15.10
Begin LF veh #2	187.2	4.6
End LF veh #2	187.2 S	0 W

Item	Distance and Direction from Reference Point	Distance and Direction from Reference Line
End RT vlt #2	194.2	2.8 W
LE FLP vlt #2	209.3	4.0 E
LR FAP vlt #2	211.5	2.9 W
RF FAP vlt #2	214.4	7.0 E
RR FAP vlt #2	216.3	0
Front TAP Point vlt #1	245.8	15.0 W
Rear TAP Point vlt #1	245.8	26.0 W
EF FAP vlt #1	311.3	18 W
RF FAP vlt #1	315.10	13 W
LR FAP vlt #1	317.7	26.5 W
LL FAP vlt #1	322.9	22.5 W



**VEHICLE DAMAGE SKETCH**

<b>TIRE - WHEEL DAMAGE</b> a. Rotation physically restricted RF <u>2</u> LF <u>9</u> RR <u>2</u> LR <u>2</u> (1) Yes (2) No (8) NA (9) Unk.		<b>b. Tire deflated</b> RF <u>1</u> LF <u>9</u> RR <u>1</u> LR <u>2</u> (1) Yes (2) No (8) NA (9) Unk.		<b>ORIGINAL SPECIFICATIONS</b> Wheelbase <u>138</u> Overall Length <u>226.8</u> Maximum Width <u>79.8</u> Curb Weight <u>4506</u> Average Track <u>67.2</u> Front Overhang <u>25.0</u> Rear Overhang <u>63.8</u> Engine Size: cyl./ displ. <u>6cyl/ 4.9L</u> Undeformed End Width <u>76.5</u>		<b>WHEEL STEER ANGLES</b> (For locked front wheels or displaced rear axles only) RF ± <u>    </u> ° LF ± <u>99</u> ° RR ± <u>    </u> ° LR ± <u>    </u> ° Within ± 5 degrees	
<b>TYPE OF TRANSMISSION</b> <input type="checkbox"/> Manual <input checked="" type="checkbox"/> Automatic				<b>DRIVE WHEELS</b> <input type="checkbox"/> FWD <input checked="" type="checkbox"/> RWD <input type="checkbox"/> 4WD		Approximate Cargo Weight <u>2400 lbs</u> wood + paint etc.	



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 sidewall, 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.





1. Primary Sampling Unit Number 10  
 2. Case Number – Stratum 077 B  
 3. Vehicle Number 01

**INTEGRITY**

4. Passenger Compartment Integrity 98

(00) No integrity loss

Yes, Integrity Was Lost Through

(01) Windshield  
 (02) Door (side)  
 (03) Door/hatch (rear)  
 (04) Roof  
 (05) Roof glass  
 (06) Side window  
 (07) Rear window  
 (08) Roof and roof glass  
 (09) Windshield and door (side)  
 (10) Windshield and roof  
 (11) Side and rear window  
 (98) Other combination of above (specify):  
WS, Side Glass, L Side Door, + Back Door  
 (99) Unknown

**Door, Tailgate Or Hatch Opening**

5. LF 3 6. RF 3 7. LR 0 8. RR 2 9. TG/H 2

(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 0 11. RF 0 12. LR 0 13. RR 2 14. TG/H 2

(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**

**Glazing Damage from Impact Forces**

15. WS 4 16. LF 6 17. RF 6 18. LR 0 19. RR 0  
 20. BL 0 21. Roof 8 22. Other 6

- (0) 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
- (8) No glazing
- (9) Unknown if damaged

**Glazing Damage from Occupant Contact**

23. WS 9 24. LF 9 25. RF 0 26. LR 0 27. RR 0  
 28. BL 0 29. Roof 0 30. Other 0

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

If No Glazing Damage **And** No Occupant Contact or No Glazing, Then Code IV 31 Through IV 46 As 0

**Type of Window/Windshield Glazing**

31. WS 1 32. LF 2 33. RF 2 34. LR 0 35. RR 0  
 36. BL 0 37. Roof 0 38. Other 2

- (0) No glazing contact and no damage, or no glazing
- (1) AS-1 – Laminated
- (2) AS-2 – Tempered
- (3) AS-3 – Tempered-tinted
- (4) AS-14 – Glass/Plastic
- (8) Other (specify):  
 \_\_\_\_\_  
 (9) Unknown

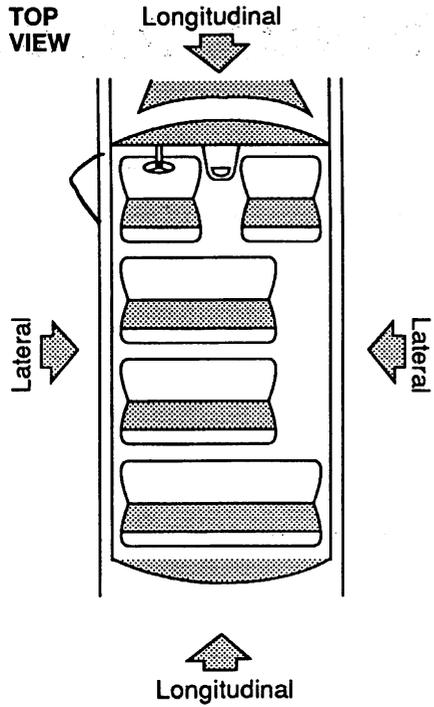
**Window Precrash Glazing Status**

39. WS 1 40. LF 2 41. RF 2 42. LR 0 43. RR 0  
 44. BL 0 45. Roof 0 46. Other 2

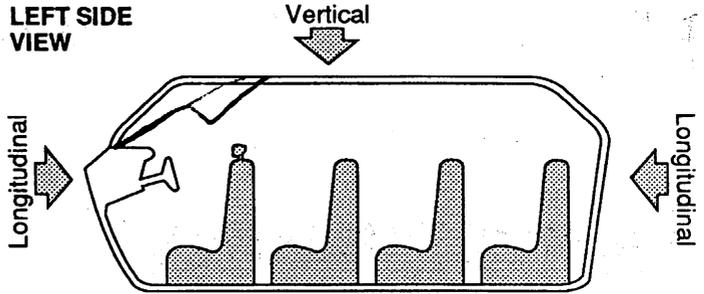
- (0) No glazing contact and no damage, or no glazing
- (1) Fixed
- (2) Closed
- (3) Partially opened
- (4) Fully opened
- (9) Unknown

# INTRUSION WORK SHEET

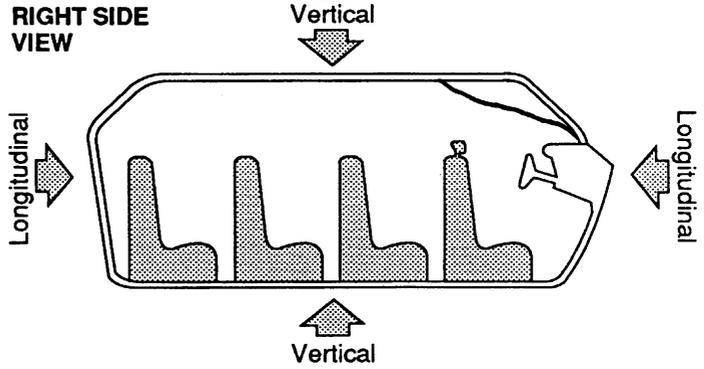
TOP VIEW



LEFT SIDE VIEW



RIGHT SIDE VIEW



INTRUDED COMPONENT	LOCATION OF INTRUSION	DOMINANT CRUSH DIRECTION	COMPARISON VALUE	INTRUDED VALUE	INTRUSION
(L) Roof	1/1	VERT	HEAD 25	16	= 9 (3)
R Roof	1/3	VERT	HEAD 25	20	= 5 (1)
(L) A Pillar	1/1	LONG	B Pillar 33	26	= 7 (6)
(L) A Pillar	1/1	VERT		21	= 12 (0)
(R) A Pillar	1/3	LONG	B Pillar 33	24	= 9 (4)
(L) A Pillar	1/3	VERT	Roof 70	62	= 12 (2)
W/S	1/2	LONG	Bottom W/S 10	16	= 6 (8)
W/S	1/3	LONG	Bottom W/S 10	17	= 7 (7)
(L) B Pillar	1/3	IAS	OPPOSITE 63	58	= 5
(L) B Pillar	1/3	VERT	Head 34	25	= 9 (5)
W/S Header	1/2	VERT	Bottom W/S 10	16	= 6 (9)
			-		=
			-		=
			-		=
			-		=

**OCCUPANT AREA INTRUSION**

Note: If no intrusions, leave variables IV 47-IV 86 blank.

	Location of Intrusion	Intruding Component	Magnitude of Intrusion	Dominant Crush Direction
1st	47. <u>11</u>	48. <u>06</u>	49. <u>4</u>	50. <u>1</u>
2nd	51. <u>13</u>	52. <u>06</u>	53. <u>4</u>	54. <u>1</u>
3rd	55. <u>11</u>	56. <u>12</u>	57. <u>3</u>	58. <u>1</u>
4th	59. <u>13</u>	60. <u>06</u>	61. <u>3</u>	62. <u>2</u>
5th	63. <u>13</u>	64. <u>07</u>	65. <u>3</u>	66. <u>1</u>
6th	67. <u>11</u>	68. <u>06</u>	69. <u>3</u>	70. <u>2</u>
7th	71. <u>13</u>	72. <u>14</u>	73. <u>3</u>	74. <u>2</u>
8th	75. <u>12</u>	76. <u>14</u>	77. <u>3</u>	78. <u>2</u>
9th	79. <u>12</u>	80. <u>15</u>	81. <u>3</u>	82. <u>1</u>
10th	83. <u>13</u>	84. <u>12</u>	85. <u>2</u>	86. <u>1</u>

**LOCATION OF INTRUSION**

- Front Seat
  - (11) Left
  - (12) Middle
  - (13) Right
- Second Seat
  - (21) Left
  - (22) Middle
  - (23) Right
- Third Seat
  - (31) Left
  - (32) Middle
  - (33) Right
- Fourth Seat
  - (41) Left
  - (42) Middle
  - (43) Right

(98) Other enclosed area (specify): \_\_\_\_\_

(99) Unknown

**INTRUDING COMPONENT**

**Interior Components**

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

**Exterior Components**

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

**MAGNITUDE OF INTRUSION**

- (1) ≥ 1 inch but < 3 inches
- (2) ≥ 3 inches but < 6 inches
- (3) ≥ 6 inches but < 12 inches
- (4) ≥ 12 inches but < 18 inches
- (5) ≥ 18 inches but < 24 inches
- (6) ≥ 24 inches
- (9) Unknown

**DOMINANT CRUSH DIRECTION**

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

# STEERING COLUMN WORKING DIAGRAMS

## STEERING COLUMN COLLAPSE

Steering Column Shear Module Movement



SHEAR CAPSULE

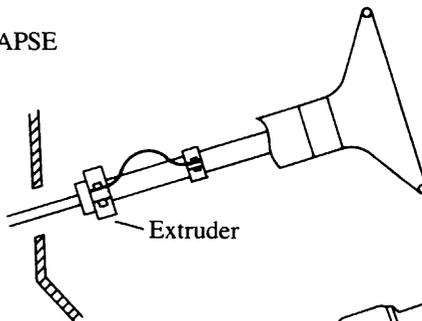
Left —



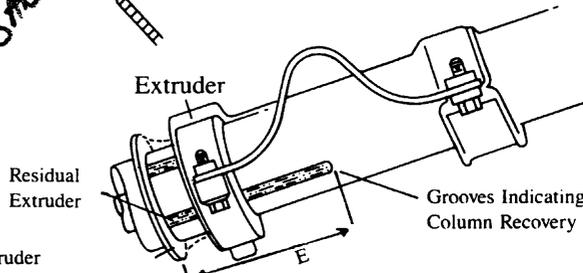
Right — V = \_\_\_\_\_"

Direction and Magnitude of Steering Column Movement

*Area IN ACCESSIBLE*



Extruder



Extruder

Residual Extruder

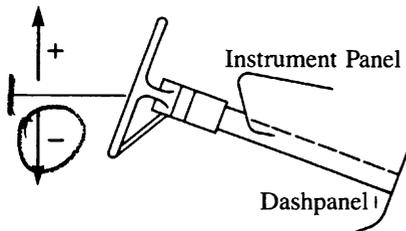
Grooves Indicating Column Recovery

Extruder Retainer (Mini Column) or Flared Tube (Mod Column)

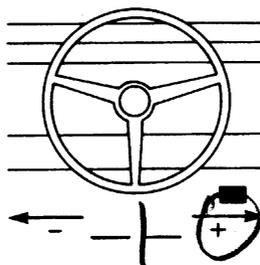
E = \_\_\_\_\_

## STEERING COLUMN MOVEMENT

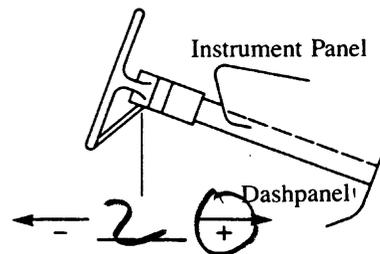
Vertical Movement



Lateral Movement



Longitudinal Movement



	COMPARISON VALUE	-	DAMAGED VALUE	=	MOVEMENT
VERTICAL	<i>Sub</i> 13	-	14	=	1
LATERAL	18	-	19	=	1
LONGITUDINAL	<i>Sub</i> 11	-	9	=	2

## STEERING RIM/SPOKE DEFORMATION

COMPARISON VALUE	-	DAMAGED VALUE	=	DEFORMATION
6	-	4.5	=	1.5
15	-	15	=	0

**STEERING COLUMN**

**87. Steering Column Type** L

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

**88. Steering Column Collapse Due to Occupant Loading** 99

\_\_\_\_\_ Code actual measured movement to the nearest inch. See coding manual for measurement technique(s).

(00) No movement, compression, or collapse  
 (01-49) Actual measured value  
 (50) 50 inches or greater

*Area inaccessible*

Estimated movement from observation

(81) Less than 1 inch  
 (82) ≥ 1 inch but < 2 inches  
 (83) ≥ 2 inches but < 4 inches  
 (84) ≥ 4 inches but < 6 inches  
 (85) ≥ 6 inches but < 8 inches  
 (86) Greater than or equal to 8 inches

(97) Apparent movement, value undetermined or cannot be measured or estimated  
 (98) Nonspecified type column  
 (99) Unknown

**Direction And Magnitude of Steering Column Movement**

**89. Vertical Movement** 001

**90. Lateral Movement** 01

**91. Longitudinal Movement** 02

Code the actual measured movement to the nearest inch. See Coding Manual for measurement technique(s)

(+00) No Steering column movement  
 (±01 – ±49) Actual measured value  
 (±50) 50 inches or greater

Estimated movement from observation

(±81) ≥ 1 inch but < 3 inches  
 (±82) ≥ 3 inches but < 6 inches  
 (±83) ≥ 6 inches but < 12 inches  
 (±84) ≥ 12 inches

(\_\_97) Apparent movement > 1 inch but cannot be measured or estimated  
 (\_\_99) Unknown

**92. Steering Rim/Spoke Deformation** 2

\_\_\_\_\_ Code actual measured deformation to the nearest inch.

(0) No steering rim deformation  
 (1-5) Actual measured value  
 (6) 6 inches or more  
 (8) Observed deformation cannot be measured  
 (9) Unknown

**93. Location of Steering Rim/Spoke Deformation** 05

(00) No steering rim deformation

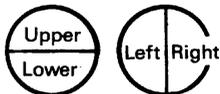
Quarter Sections

(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

**INSTRUMENT PANEL**

**94. Odometer Reading** 021,000

20571 miles – Code mileage to the nearest 1,000 miles

(000) No odometer  
 (001) Less than 1,500 miles  
 (300) 299,500 miles or more  
 (999) Unknown

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

**95. Instrument Panel Damage from Occupant Contact** 1

(0) No  
 (1) Yes  
 (9) Unknown

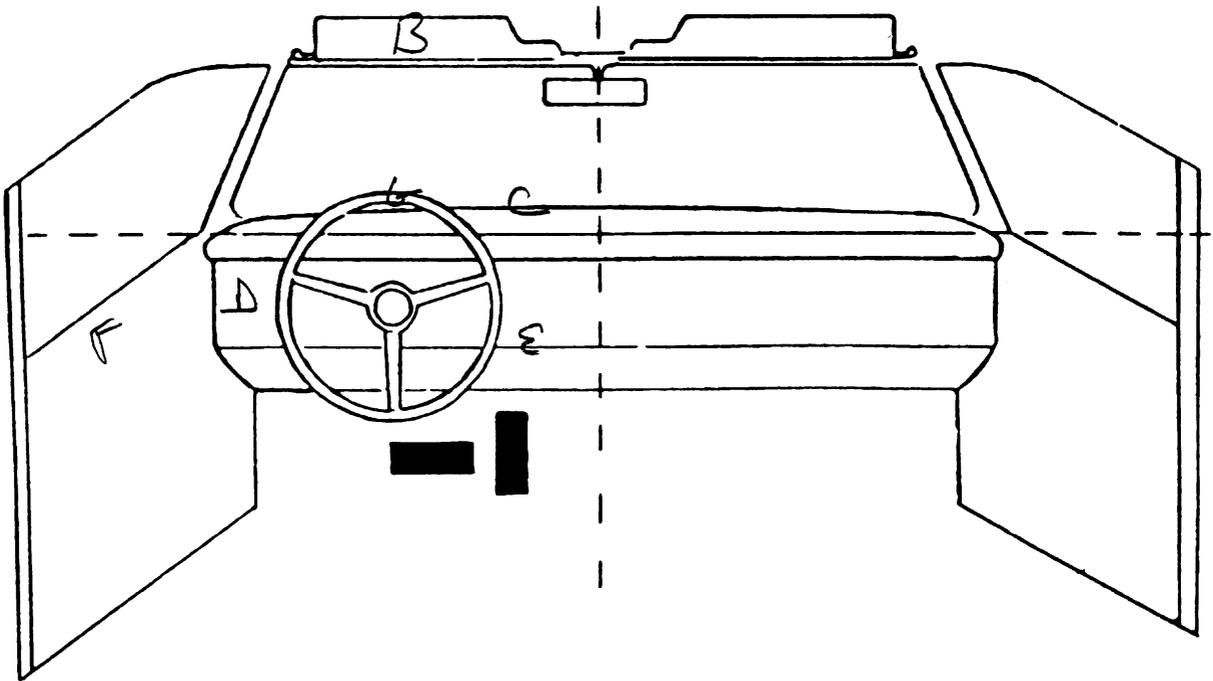
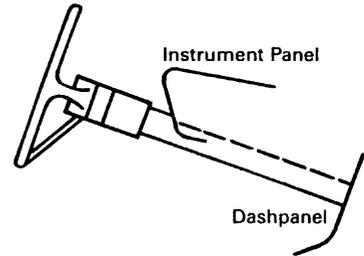
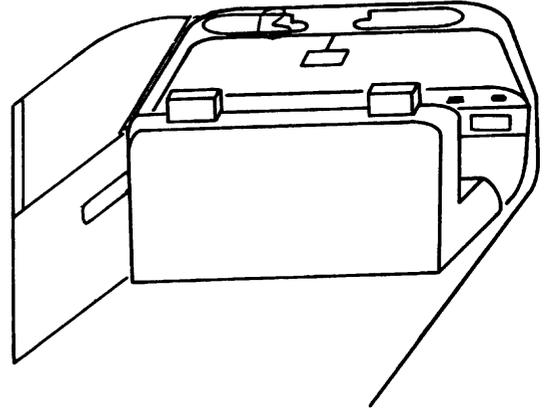
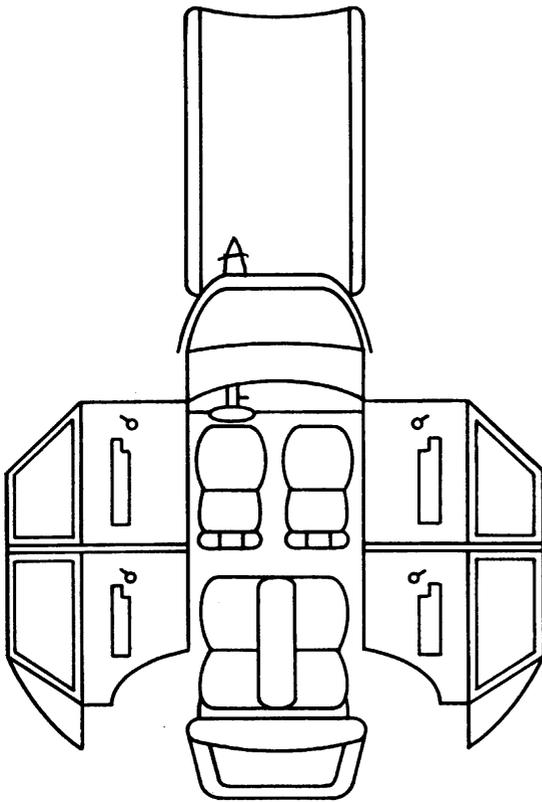
**96. Knee Bolsters Deformed from Occupant Contact** 8

(0) No  
 (1) Yes  
 (8) Not present  
 (9) Unknown

**97. Did Glove Compartment Door Open During Collision(s)** 8

(0) No  
 (1) Yes  
 (8) Not present  
 (9) Unknown

VEHICLE INTERIOR SKETCHES



**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	54	1	HEAD	Intrusion	3
B	03	1	HEAD	Dented in	3
C	47	1	HEAD/CHEST	IN 1/3 POSITION	3
D	09	1	KNEES	CRACKED/DENT	3
E	09	1	KNEES	CRACKED	3
F	20	1	LYSIDE	DENTED OUTWARDS	3
G	04	1	CHEST	DISPLACED UPWARDS	3
H					
I					
J					
K					
L					
M					
N					

**CODES FOR INTERIOR COMPONENTS**

**FRONT**

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A-pillar, instrument panel, or mirror (passenger side only)
- (16) Other front object (specify): \_\_\_\_\_

- (26) Left side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail
- (27) Other left side object (specify): \_\_\_\_\_

- (48) Child safety seat (specify): \_\_\_\_\_

- (49) Other interior object (specify): \_\_\_\_\_

**RIGHT SIDE**

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A pillar
- (33) Right B pillar
- (34) Other right pillar (specify): \_\_\_\_\_
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail
- (37) Other right side object (specify): \_\_\_\_\_

**ROOF**

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

**FLOOR**

- (56) Floor including toe pan
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

**REAR**

- (60) Backlight (rear window)
- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify): \_\_\_\_\_

**LEFT SIDE**

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A pillar
- (23) Left B pillar
- (24) Other left pillar (specify): \_\_\_\_\_
- (25) Left side window glass or frame

**INTERIOR**

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify): \_\_\_\_\_
- (44) Head restraint system
- (45) Air cushion
- (46) Other occupants (specify): \_\_\_\_\_
- (47) Interior loose objects

**CONFIDENCE LEVEL OF CONTACT POINT**

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

## AUTOMATIC RESTRAINTS

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

		Left	Center	Right
F I R S T	Availability	0		0
	Function	0		0
	Failure	0		0

### Automatic (Passive) Restraint System Availability

- (0) Not equipped/not available
- (1) Airbag
- (2) Airbag disconnected (specify): \_\_\_\_\_
- (3) Airbag not reinstalled
- (4) 2 point automatic belts
- (5) 3 point automatic belts
- (6) Automatic belts destroyed or rendered inoperative
- (9) Unknown

### Automatic (Passive) Restraint Function

- (0) Not equipped/not available
- Automatic Belt
  - (1) Automatic belt in use
  - (2) Automatic belt not in use
  - (3) Automatic belt use unknown
- Air Bag
  - (4) Airbag deployed during accident
  - (5) Airbag deployed inadvertently just prior to accident
  - (6) Deployed, accident sequence undetermined
  - (7) Nondeployed
  - (8) Unknown if deployed
  - (9) Unknown

### Did Automatic (Passive) Restraint Fail

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

**MANUAL RESTRAINTS**

NOTES: Encode the applicable data for each seat position in the vehicle. The attributes for the variables 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.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page.

*NOT USED THIS TIME*

		Left	Center	Right
FIRST	Availability	4	-	4
	Use	4	-	4
	Failure Modes	1	-	1
SECOND	Availability			
	Use			
	Failure Modes			
THIRD	Availability			
	Use			
	Failure Modes			
OTHER	Availability			
	Use			
	Failure Modes			

**Manual (Active) Belt System Availability**

- (0) Not available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available – type unknown
- (8) Other belt (specify):

(9) 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

**Manual (Active) Belt System Use**

- (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

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

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Manual belt failure(s) (encode all that apply above)
  - [A] Torn webbing (stretched webbing not included)
  - [B] Broken buckle or latchplate
  - [C] Upper anchorage separated
  - [D] Other anchorage separated (specify):

- [E] Broken retractor
- [F] Other manual belt failure (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					

N/A

**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
- (03) Other orientation (specify):  
\_\_\_\_\_

- (04) 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)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**HEAD RESTRAINTS/SEAT EVALUATION**

NOTES: Encode the applicable data for each seat position in the vehicle. The attributes 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	Head Restraint Type/Damage	0	—	0
	Seat Type	08	—	60
	Seat Performance	1	—	0
SECOND	Head Restraint Type/Damage			
	Seat Type			
	Seat Performance			
THIRD	Head Restraint Type/Damage			
	Seat Type			
	Seat Performance			
OTHER	Head Restraint Type/Damage			
	Seat Type			
	Seat Performance			

**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

**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., van type)
- (09) Other seat type (specify): \_\_\_\_\_
- (99) Unknown

**Seat Performance (This Occupant Position)**

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat performance failure(s)  
(Encode all that apply)
- [A] Seat adjusters failed
- [B] Seat back folding locks failed
- [C] Seat tracks failed
- [D] Seat anchors failed
- [E] Deformed by impact of passenger from rear
- [F] Deformed by impact of passenger from front
- [G] Deformed by own inertial forces
- [H] Deformed by passenger compartment intrusion  
(specify): \_\_\_\_\_

[I] Other (specify): \_\_\_\_\_

(9) Unknown

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

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

**EJECTION/ENTRAPMENT DATA**

Complete the following if the researcher has any indications 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):

1/ INTERVIEW WITH [REDACTED] - DRIVER WAS COMPLETELY THROWN FROM VEHICLE - DID NOT KNOW MEDIUM - COULD BE FROM W/S SIDE GLASS / SIDE DOOR OR BACK DOOR

Occupant Number	1					
Ejection	1					
Ejection Area	9					
Ejection Medium	9					
Medium Status	2					

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

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

(Note in vehicle interior diagram)



## OCCUPANT INJURY FORM

1. Primary Sampling Unit Number 10 3. Vehicle Number 01  
 2. Case Number - Stratum 077B 4. Occupant Number 01

### 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 twenty injuries have been documented, encode the balance on the Occupant Injury Supplement.

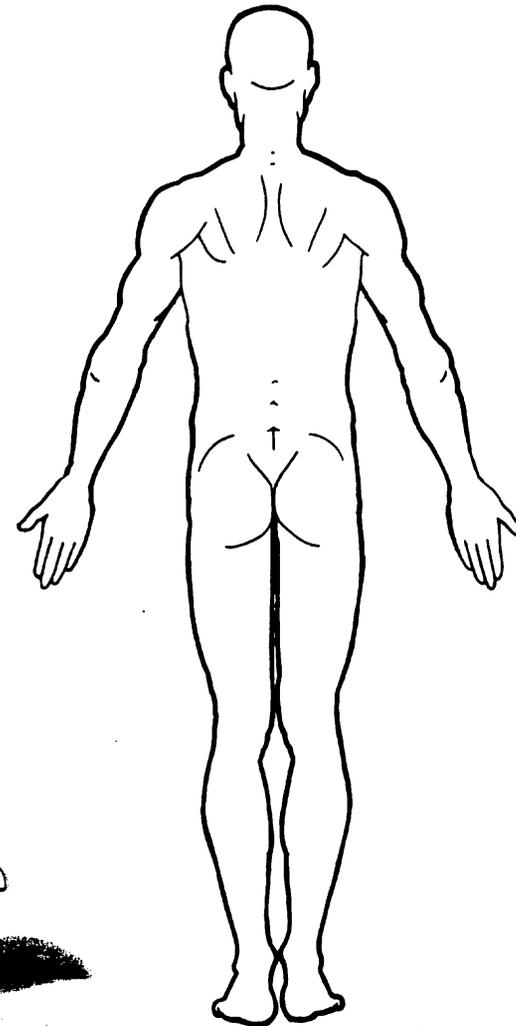
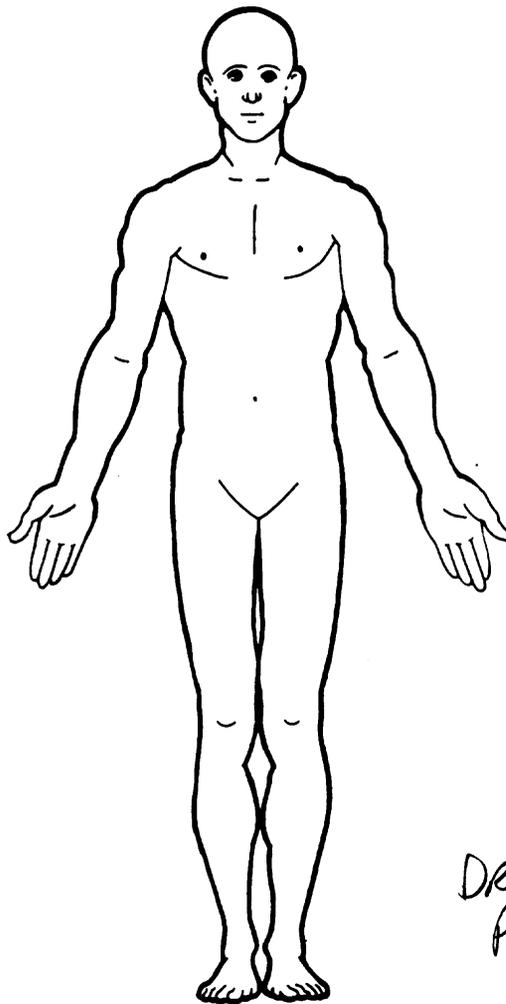
	Source of Injury Data	O.I.C. - A.I.S.					Injury Source	Injury Source Confidence Level	Direct/Indirect Injury	Occupant Area Intrusion No.
		Body Region	Aspect	Lesion	System Organ	A.I.S. Severity				
1st	5. <u>1</u>	6. <u>C</u>	7. <u>C</u>	8. <u>L</u>	9. <u>A</u>	10. <u>3</u>	11. <u>97</u>	12. <u>9</u>	13. <u>7</u>	14. <u>00</u>
2nd	15. <u>1</u>	16. <u>N</u>	17. <u>P</u>	18. <u>F</u>	19. <u>S</u>	20. <u>2</u>	21. <u>97</u>	22. <u>9</u>	23. <u>7</u>	24. <u>00</u>
3rd	25. <u>1</u>	26. <u>N</u>	27. <u>P</u>	28. <u>C</u>	29. <u>C</u>	30. <u>3</u>	31. <u>97</u>	32. <u>9</u>	33. <u>7</u>	34. <u>00</u>
4th	35. <u>1</u>	36. <u>C</u>	37. <u>V</u>	38. <u>F</u>	39. <u>S</u>	40. <u>3</u>	41. <u>97</u>	42. <u>9</u>	43. <u>7</u>	44. <u>00</u>
5th	45. <u>1</u>	46. <u>M</u>	47. <u>L</u>	48. <u>L</u>	49. <u>Q</u>	50. <u>2</u>	51. <u>97</u>	52. <u>9</u>	53. <u>7</u>	54. <u>00</u>
6th	55. <u>1</u>	56. <u>C</u>	57. <u>R</u>	58. <u>C</u>	59. <u>P</u>	60. <u>3</u>	61. <u>97</u>	62. <u>9</u>	63. <u>7</u>	64. <u>00</u>
7th	65. <u>1</u>	66. <u>C</u>	67. <u>L</u>	68. <u>C</u>	69. <u>P</u>	70. <u>3</u>	71. <u>97</u>	72. <u>9</u>	73. <u>7</u>	74. <u>00</u>
8th	75. <u>3</u>	76. <u>C</u>	77. <u>C</u>	78. <u>C</u>	79. <u>H</u>	80. <u>4</u>	81. <u>97</u>	82. <u>9</u>	83. <u>7</u>	84. <u>00</u>
9th	85. <del>2</del>	86. <del>2</del>	87. <del>W</del>	88. <del>F</del>	89. <del>S</del>	90. <del>4</del>	91. <del>97</del>	92. <del>9</del>	93. <del>7</del>	94. <del>00</del>
10th	95. <u>7</u>	96. <u>F</u>	97. <u>S</u>	98. <u>L</u>	99. <u>F</u>	100. <u>1</u>	101. <u>97</u>	102. <u>9</u>	103. <u>7</u>	104. <u>00</u>
11th	105. <u>7</u>	106. <u>F</u>	107. <u>S</u>	108. <u>L</u>	109. <u>I</u>	110. <u>1</u>	111. <u>97</u>	112. <u>9</u>	113. <u>7</u>	114. <u>00</u>
12th	115. <u>7</u>	116. <u>H</u>	117. <u>W</u>	118. <u>K</u>	119. <u>B</u>	120. <u>3</u>	121. <u>97</u>	122. <u>9</u>	123. <u>7</u>	124. <u>00</u>
13th	125. ___	126. ___	127. ___	128. ___	129. ___	130. ___	131. ___	132. ___	133. ___	134. ___
14th	135. ___	136. ___	137. ___	138. ___	139. ___	140. ___	141. ___	142. ___	143. ___	144. ___
15th	145. ___	146. ___	147. ___	148. ___	149. ___	150. ___	151. ___	152. ___	153. ___	154. ___
16th	155. ___	156. ___	157. ___	158. ___	159. ___	160. ___	161. ___	162. ___	163. ___	164. ___
17th	165. ___	166. ___	167. ___	168. ___	169. ___	170. ___	171. ___	172. ___	173. ___	174. ___
18th	175. ___	176. ___	177. ___	178. ___	179. ___	180. ___	181. ___	182. ___	183. ___	184. ___
19th	185. ___	186. ___	187. ___	188. ___	189. ___	190. ___	191. ___	192. ___	193. ___	194. ___
20th	195. ___	196. ___	197. ___	198. ___	199. ___	200. ___	201. ___	202. ___	203. ___	204. ___

9  
10  
11



## OFFICIAL INJURY DATA – SOFT TISSUE INJURIES

Indicate the *Location, Lesion, 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.)



DRIVER  
Pronounced

## SOURCE OF INJURY DATA

### OFFICIAL

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

### UNOFFICIAL

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

(26) Left side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail

(27) Other left side object (specify): \_\_\_\_\_

### RIGHT SIDE

(30) Right side interior surface, excluding hardware or armrests

(31) Right side hardware or armrest

(32) Right A pillar

(33) Right B pillar

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

(35) Right side window glass or frame

(36) Right side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, roof side rail

(37) Other right side object (specify): \_\_\_\_\_

### INTERIOR

(40) Seat, back support

(41) Belt restraint webbing/buckle

(42) Belt restraint B-pillar attachment point

(43) Other restraint system component (specify): \_\_\_\_\_

(44) Head restraint system

(45) Air cushion

(46) Other occupants (specify): \_\_\_\_\_

(47) Interior loose objects

(48) Child safety seat (specify): \_\_\_\_\_

(49) Other interior object (specify): \_\_\_\_\_

### ROOF

(50) Front header

(51) Rear header

(52) Roof left side rail

(53) Roof right side rail

(54) Roof or convertible top

### FLOOR

(56) Floor including toe pan

(57) Floor or console mounted transmission lever, including console

(58) Parking brake handle

(59) Foot controls including parking brake

### REAR

(60) Backlight (rear window)

(61) Backlight storage rack, door, etc.

(62) Other rear object (specify): \_\_\_\_\_

### EXTERIOR OF OCCUPANT'S VEHICLE

(65) Hood

(66) Outside hardware (e.g., outside mirror, antenna)

(67) Other exterior surface or tires (specify): \_\_\_\_\_

(68) Unknown exterior objects

### EXTERIOR OF OTHER MOTOR VEHICLE

(70) Front bumper

(71) Hood edge

(72) Other front of vehicle (specify): \_\_\_\_\_

(73) Hood

(74) Hood ornament

(75) Windshield, roof rail, A-pillar

(76) Side surface

(77) Side mirrors

(78) Other side protrusions (specify): \_\_\_\_\_

(79) Rear surface

(80) Undercarriage

(81) Tires and wheels

(82) Other exterior of other motor vehicle (specify): \_\_\_\_\_

(83) Unknown exterior of other motor vehicle

### OTHER VEHICLE OR OBJECT IN THE ENVIRONMENT

(84) Ground

(85) Other vehicle or object (specify): \_\_\_\_\_

(86) Unknown vehicle or object

### NONCONTACT INJURY

(90) Fire in vehicle

(91) Flying glass

(92) Other noncontact injury source (specify): \_\_\_\_\_

(97) Injured, unknown source

## INJURY SOURCE

### FRONT

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add-on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A-pillar, instrument panel, or mirror (passenger side only)
- (16) Other front object (specify): \_\_\_\_\_

### LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A pillar
- (23) Left B pillar
- (24) Other left pillar (specify): \_\_\_\_\_
- (25) Left side window glass or frame

## INJURY SOURCE CONFIDENCE LEVEL

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

## DIRECT/INDIRECT INJURY

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

## OCCUPANT INJURY CLASSIFICATION

### I.I.C. Body Region

- (M) Abdomen
- (Q) Ankle-foot
- (A) Arm (upper)
- (B) Back-thoracolumbar spine
- (C) Chest
- (E) Elbow
- (F) Face
- (R) Forearm
- (H) Head-skull
- (U) Injured, unknown region
- (K) Knee
- (L) Leg (lower)
- (Y) Lower limb(s) (whole or unknown part)
- (N) Neck-cervical spine
- (P) Pelvic-hip
- (S) Shoulder
- (T) Thigh
- (X) Upper limb(s) (whole or unknown part)
- (O) Whole body

(W) Wrist-hand

### Aspect of Injury

- (A) Anterior-front
- (C) Central
- (I) Inferior-lower
- (U) Injured, unknown aspect
- (L) Left
- (P) Posterior-back
- (R) Right
- (S) Superior-upper
- (W) Whole region

### Lesion

- (A) Abrasion
- (M) Amputation
- (V) Avulsion
- (B) Burn
- (K) Concussion
- (C) Contusion
- (N) Crush

(G) Detachment, separation

(D) Dislocation

(F) Fracture

(Z) Fracture and dislocation

(U) Injured, unknown lesion

(L) Laceration

(O) Other

(P) Perforation, puncture

(R) Rupture

(S) Sprain

(T) Strain

(E) Total severance, transection

### System/Organ

- (W) All systems in region
- (A) Arteries-veins
- (B) Brain
- (D) Digestive
- (E) Ears
- (O) Eye
- (H) Heart
- (U) Injured, unknown system

(I) Integumentary

(J) Joints

(K) Kidneys

(L) Liver

(M) Muscles

(N) Nervous system

(P) Pulmonary-lungs

(R) Respiratory

(S) Skeletal

(C) Spinal cord

(Q) Spleen

(T) Thyroid, other endocrine gland

(G) Urogenital

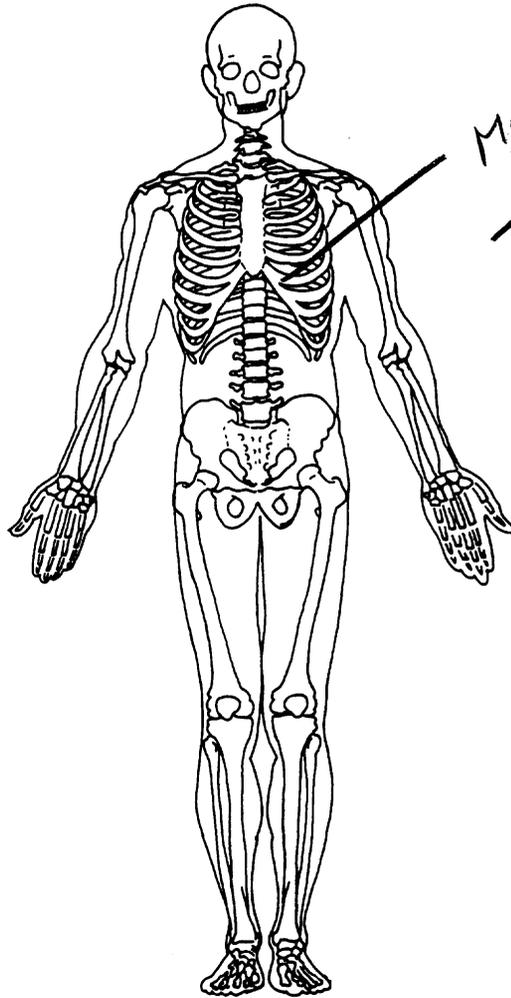
(V) Vertebrae

### Abbreviated Injury Scale

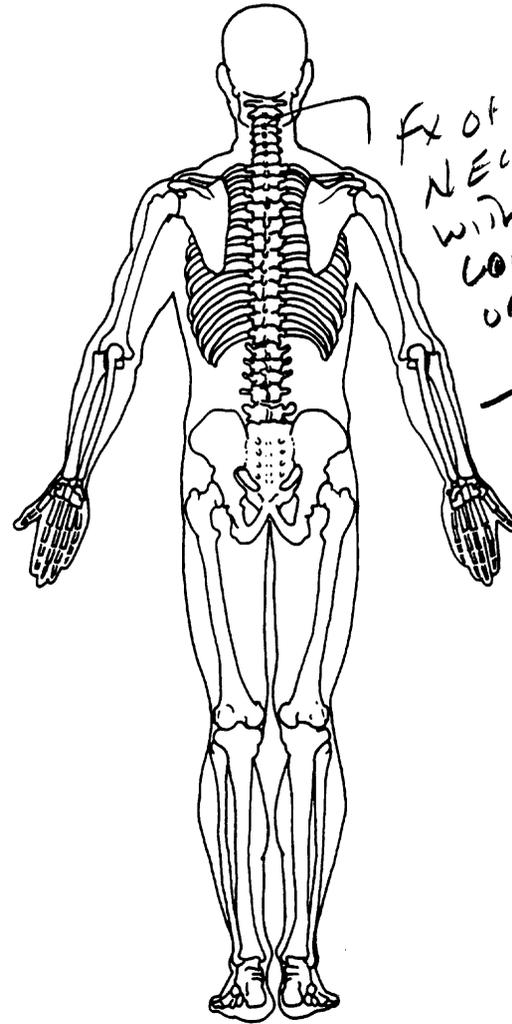
- (1) Minor injury
- (2) Moderate injury
- (3) Serious injury
- (4) Severe injury
- (5) Critical injury
- (6) Maximum (untreatable)
- (7) Injured, unknown severity

## OFFICIAL INJURY DATA – SKELETAL INJURIES

Indicate the *Location, Lesion, 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.)



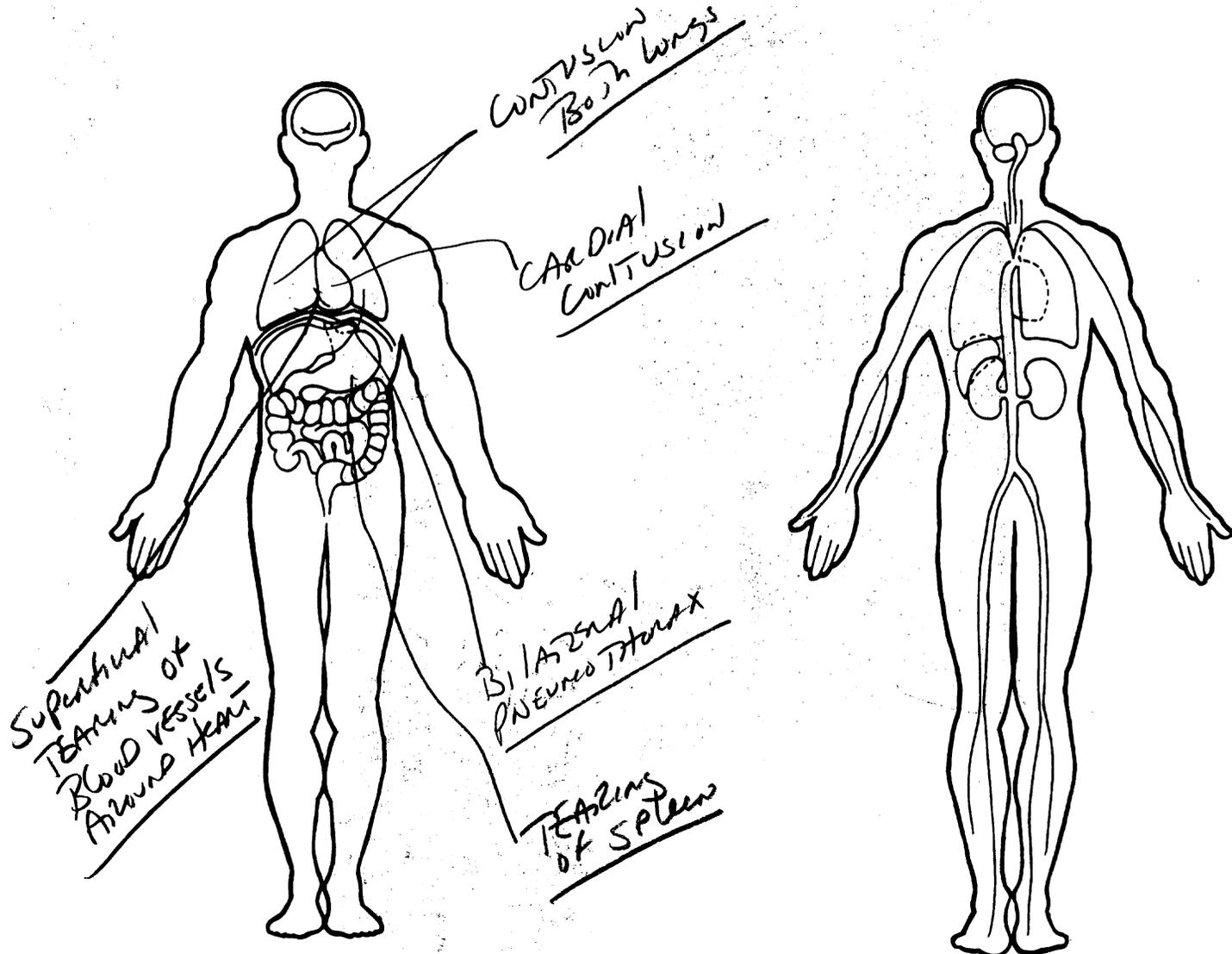
MULTIPLE  
RIB FX



FX OF  
NECK  
WITH  
COMPRESSION  
OF SPINAL  
CORD

## OFFICIAL INJURY DATA – INTERNAL INJURIES

Indicate the *Location, Lesion, 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.)





# EXTERIOR VEHICLE FORM

1. Primary Sampling Unit Number <u>10</u>	3. Vehicle Number <u>02</u>
2. Case Number - Stratum <u>077B</u>	

## VEHICLE IDENTIFICATION

VIN QX2P A \_\_\_\_\_ Model Year 80  
 Vehicle Make (specify): Mercury Vehicle Model (specify): BOB CAT

## LOCATOR

Locate the end of the damage with respect to the vehicle longitudinal center line or bumper corner for end impacts or an undamaged axle for side impacts.

Specific Impact No.	Location of Direct Damage	Location of Field L
1	Back Bumper At C6 - (L) 22"	Back Bumper DISTORTED

## CRUSH PROFILE

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 and document on the vehicle diagram the location of maximum crush.

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

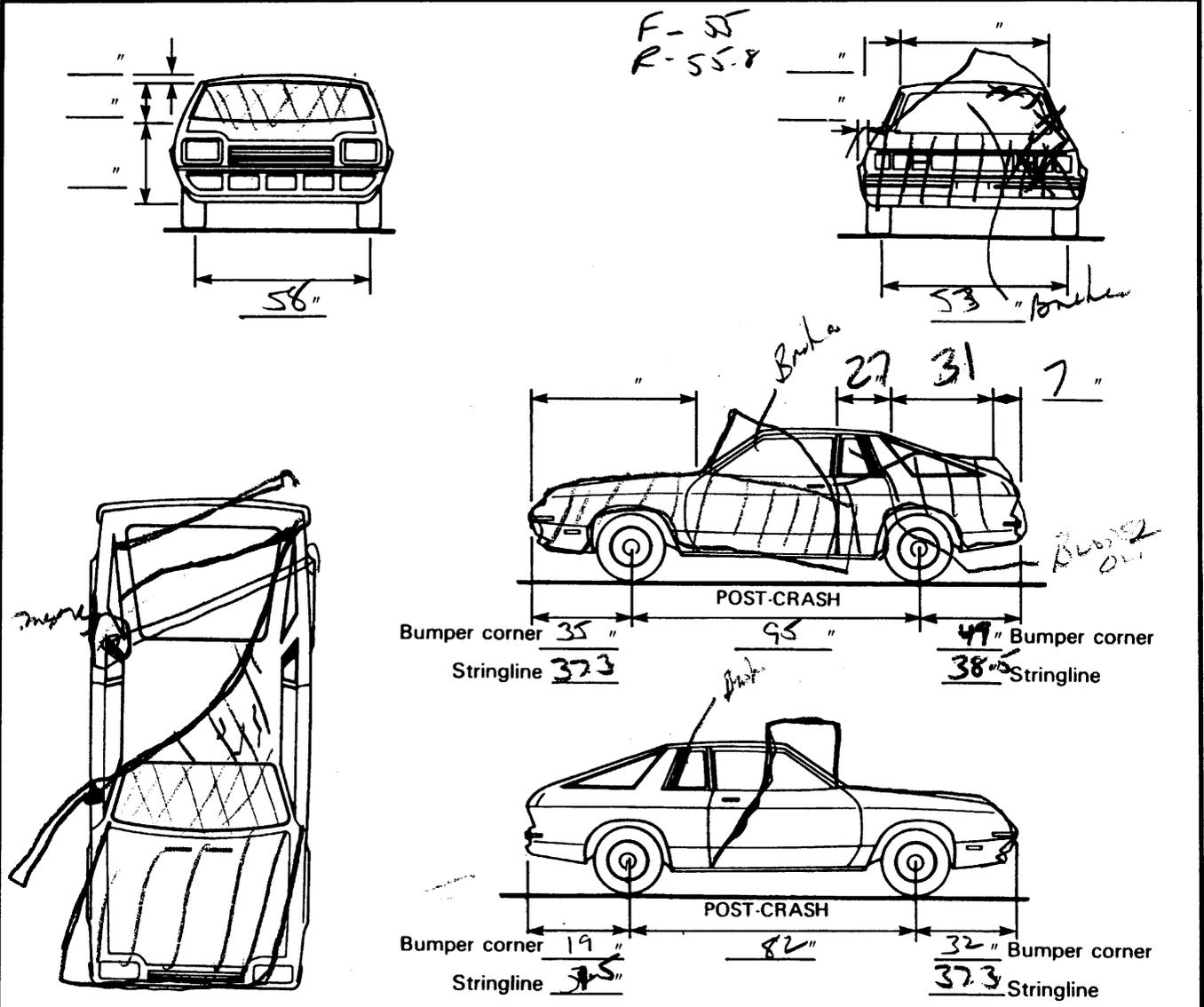
Free space value is defined as the distance between the baseline and the original body contour taken at the individual C locations. This may include the following: bumper lead, bumper taper, side protrusion, side taper, etc. Record the value for each C-measurement and maximum crush.

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

Specific Impact Number	Plane of 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								
1	Bumper - Back	22	33.5	40.5	-9	2	13	25	29	33.5	0
	Free		3		3	2	1	1	2	3	
	ACTUAL		30.5		-6	0	12	24	28	30.5	
1	Above Bumper - Back	22	85	44.5	18.5	50	41	70	84	85	0
	Free		7		7	6	5	5	6	7	
	ACTUAL		78		11.5	44	56	65	78	78	
1	Average		54.25		5.75	22	34	44.5	53	57.25	

**VEHICLE DAMAGE SKETCH**

<b>TIRE - WHEEL DAMAGE</b> a. Rotation physically restricted RF <u>2</u> LF <u>2</u> RR <u>1</u> LR <u>2</u> (1) Yes (2) No (8) NA (9) Unk.		<b>ORIGINAL SPECIFICATIONS</b> Wheelbase <u>94.5</u> Overall Length <u>170.8</u> Maximum Width <u>69.4</u> Curb Weight <u>2535</u> Average Track <u>55.4</u> Front Overhang <u>37.3</u> Rear Overhang <u>39</u> Engine Size: cyl./ displ. <u>4cyl 2.3L</u> Undeformed End Width <u>63</u>		<b>WHEEL STEER ANGLES</b> (For locked front wheels or displaced rear axles only) RF ± <u>---</u> ° LF ± <u>---</u> ° RR ± <u>-20</u> ° LR ± <u>---</u> ° Within ±5 degrees	
<b>TYPE OF TRANSMISSION</b> <input type="checkbox"/> Manual <input checked="" type="checkbox"/> Automatic		<b>DRIVE WHEELS</b> <input type="checkbox"/> FWD <input checked="" type="checkbox"/> RWD <input type="checkbox"/> 4WD		Approximate Cargo Weight <u>NONE</u>	



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 sidewall, 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.





1. Primary Sampling Unit Number 10  
 2. Case Number – Stratum 077B  
 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 (rear)  
 (04) Roof  
 (05) Roof glass  
 (06) Side window  
 (07) Rear window  
 (08) Roof and roof glass  
 (09) Windshield and door (side)  
 (10) Windshield and roof  
 (11) Side and rear window  
 (98) Other combination of above (specify):  
Door/Hatch & Side Window  
 (99) Unknown

Door, Tailgate Or Hatch Opening

5. LF 2 6. RF 2 7. LR 0 8. RR 0 9. TG/H 2

(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 5 12. LR 0 13. RR 0 14. TG/H 5

(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**

Glazing Damage from Impact Forces

15. WS 2 16. LF 6 17. RF 6 18. LR 4 19. RR 6  
 20. BL 6 21. Roof 8 22. Other 0

- (0) 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
- (8) No glazing
- (9) Unknown if damaged

Glazing Damage from Occupant Contact

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

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

If No Glazing Damage **And** No Occupant Contact or No Glazing, Then Code IV 31 Through IV 46 As 0

Type of Window/Windshield Glazing

31. WS 1 32. LF 2 33. RF 2 34. LR 2 35. RR 2  
 36. BL 2 37. Roof 0 38. Other 0

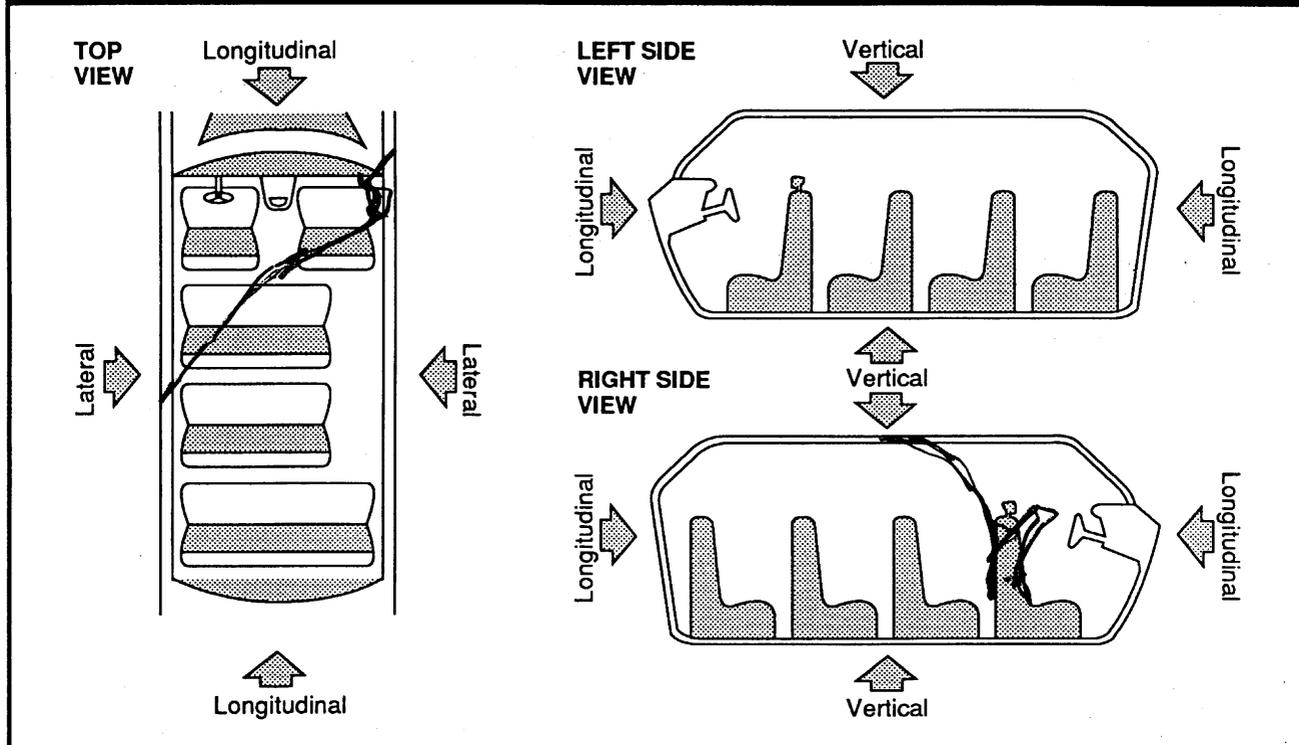
- (0) No glazing contact and no damage, or no glazing
- (1) AS-1 – Laminated
- (2) AS-2 – Tempered
- (3) AS-3 – Tempered-tinted
- (4) AS-14 – Glass/Plastic
- (8) Other (specify):  
 \_\_\_\_\_  
 (9) Unknown

Window Pre-crash Glazing Status

39. WS 1 40. LF 2 41. RF 2 42. LR 2 43. RR 2  
 44. BL 1 45. Roof 0 46. Other 0

- (0) No glazing contact and no damage, or no glazing
- (1) Fixed
- (2) Closed
- (3) Partially opened
- (4) Fully opened
- (9) Unknown

# INTRUSION WORK SHEET



INTRUDED COMPONENT	LOCATION OF INTRUSION	DOMINANT CRUSH DIRECTION	COMPARISON VALUE	-	INTRUDED VALUE	=	INTRUSION	
(1) B Pillar	1/1	LAT	5	-	15	=	10 (6)	
(2) B Pillar	1/1	VERT	26	-	31	=	5	
(3) C Pillar	1/1	Long	Front Seat	43	-	50	=	7 (10)
(4) B Pillar	1/3	Long	Front Seat	69	-	84	=	15 (14)
(5) C Pillar	1/3	Long	Front Seat	43	-	84	=	41 (3)
LF Seat Back	2/1	Long		28	-	39	=	9 (7)
RF Seat Back	1/3	Long		28	-	16	=	12 (5)
RR Seat Back	2/3	Long		42	-	35	=	7 (8)
Back Lyle Head	2/3	Long	Front Seat	43	-	85	=	42 (1)
(6) Side Panel	1/3	LAT		32	-	45	=	7 (9)
Roof	1/3	Long	Peak	43	-	85	=	42 (2)
Roof	1/1	VERT		33	-	31	=	3
				-		=		
				-		=		
				-		=		

**OCCUPANT AREA INTRUSION**

Note: If no intrusions, leave variables IV 47-IV 86 blank.

	Location of Intrusion	Intruding Component	Magnitude of Intrusion	Dominant Crush Direction
1st	47 <u>23</u>	48 <u>18</u>	49 <u>6</u>	50 <u>2</u>
2nd	51 <u>13</u>	52 <u>12</u>	53 <u>6</u>	54 <u>2</u>
3rd	55 <u>13</u>	56 <u>08</u>	57 <u>6</u>	58 <u>2</u>
4th	59 <u>13</u>	60 <u>07</u>	61 <u>4</u>	62 <u>2</u>
5th	63 <u>13</u>	64 <u>19</u>	65 <u>4</u>	66 <u>2</u>
6th	67 <u>11</u>	68 <u>07</u>	69 <u>3</u>	70 <u>3</u>
7th	71 <u>21</u>	72 <u>19</u>	73 <u>3</u>	74 <u>2</u>
8th	75 <u>23</u>	76 <u>19</u>	77 <u>3</u>	78 <u>2</u>
9th	79 <u>13</u>	80 <u>11</u>	81 <u>3</u>	82 <u>3</u>
10th	83 <u>11</u>	84 <u>08</u>	85 <u>3</u>	86 <u>2</u>

**LOCATION OF INTRUSION**

- Front Seat
  - (11) Left
  - (12) Middle
  - (13) Right
- Second Seat
  - (21) Left
  - (22) Middle
  - (23) Right
- Third Seat
  - (31) Left
  - (32) Middle
  - (33) Right
- Fourth Seat
  - (41) Left
  - (42) Middle
  - (43) Right

(98) Other enclosed area (specify): \_\_\_\_\_

(99) Unknown

**INTRUDING COMPONENT**

**Interior Components**

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

**Exterior Components**

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

**MAGNITUDE OF INTRUSION**

- (1) ≥ 1 inch but < 3 inches
- (2) ≥ 3 inches but < 6 inches
- (3) ≥ 6 inches but < 12 inches
- (4) ≥ 12 inches but < 18 inches
- (5) ≥ 18 inches but < 24 inches
- (6) ≥ 24 inches
- (9) Unknown

**DOMINANT CRUSH DIRECTION**

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

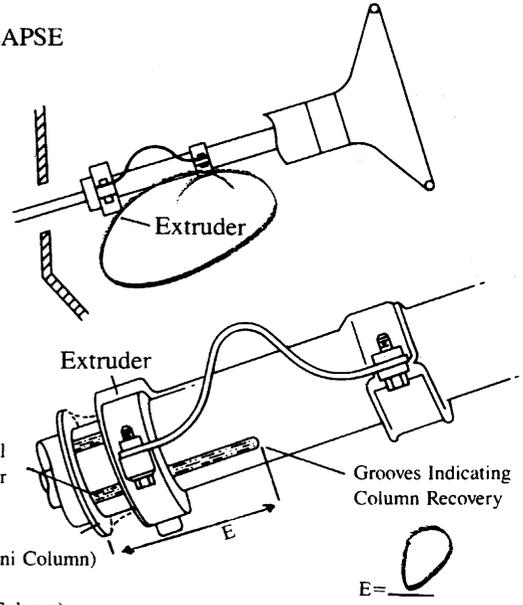
# STEERING COLUMN WORKING DIAGRAMS

## STEERING COLUMN COLLAPSE

Steering Column Shear Module Movement



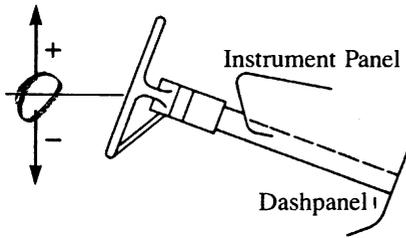
Direction and Magnitude of Steering Column Movement



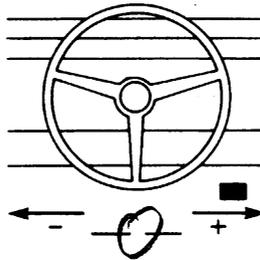
Extruder Retainer (Mini Column) or Flared Tube (Mod Column)

## STEERING COLUMN MOVEMENT

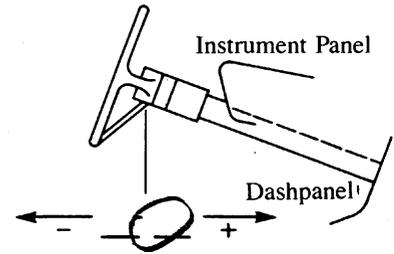
Vertical Movement



Lateral Movement



Longitudinal Movement



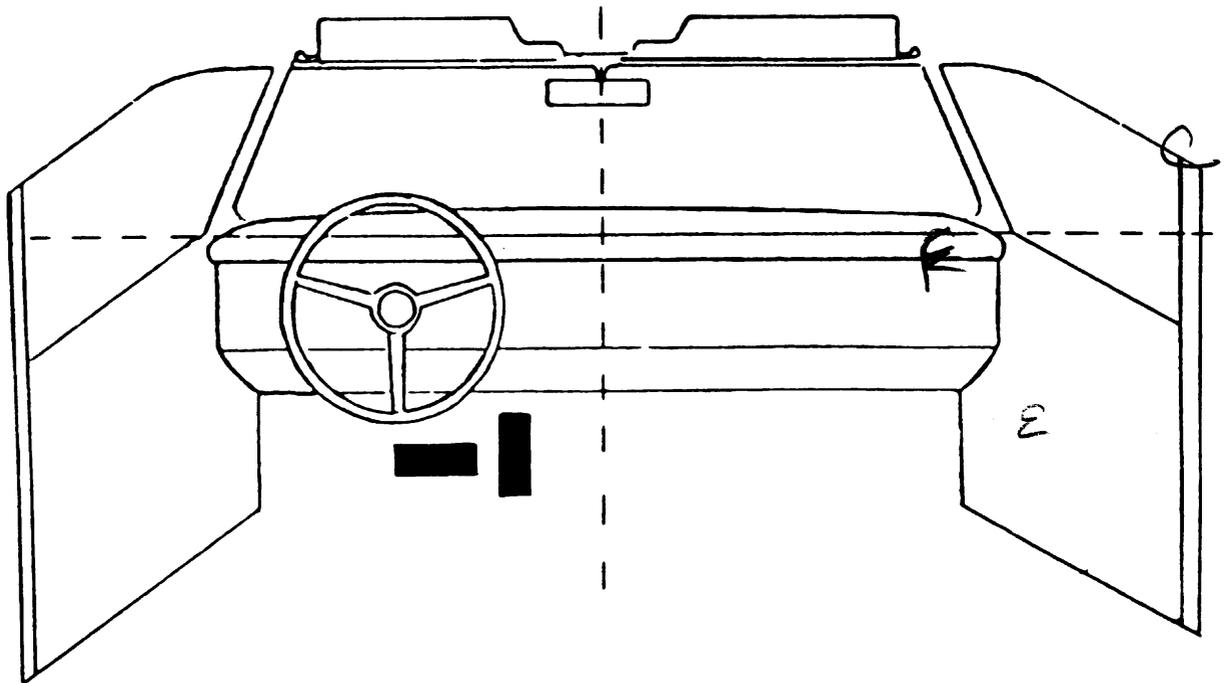
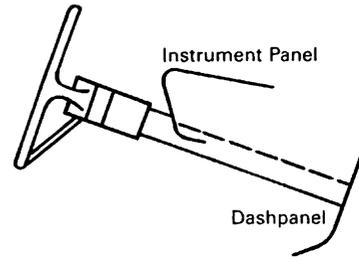
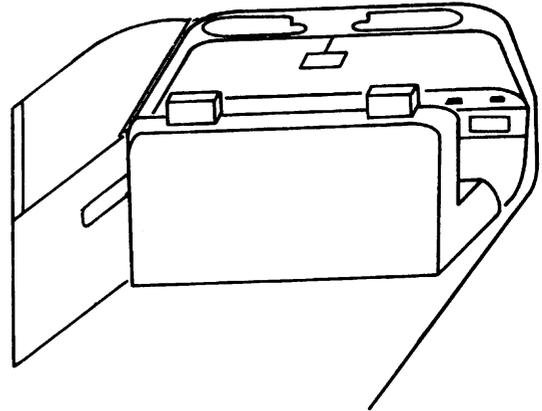
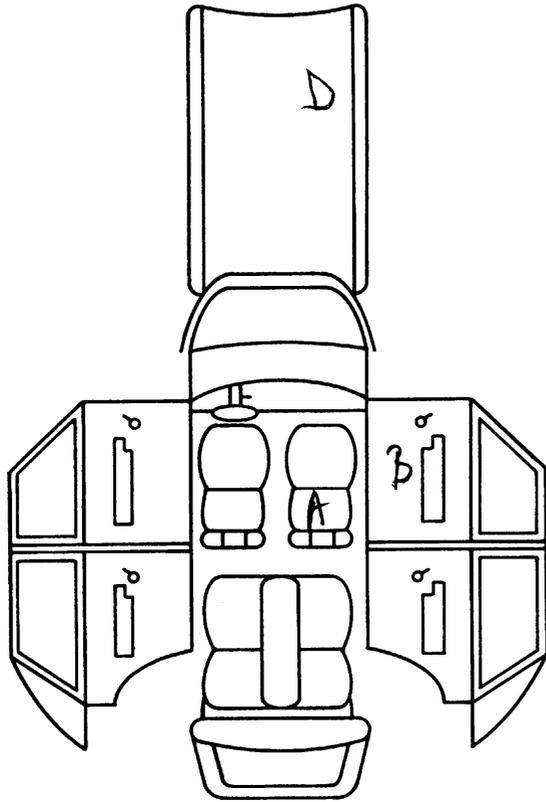
	COMPARISON VALUE	-	DAMAGED VALUE	=	MOVEMENT:
VERTICAL	Aut	20	-	20	= 0
LATERAL		12	-	12	= 0
LONGITUDINAL		8	-	8	= 0

## STEERING RIM/SPOKE DEFORMATION

COMPARISON VALUE	-	DAMAGED VALUE	=	DEFORMATION
6	-	6	=	0
14	-	14	=	0



VEHICLE INTERIOR SKETCHES



**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	40	01/02	?	INTRUSION SECTOR	3
B	30	02/01	?	H "	3
C	35	01/02	?	" "	3
D	59	01/02	?	" "	3
E	31	01/02	?	" "	3
F	10	01/02	?	" "	3
G					
H					
I					
J					
K					
L					
M					
N					

**CODES FOR INTERIOR COMPONENTS**

**FRONT**

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A-pillar, instrument panel, or mirror (passenger side only)
- (16) Other front object (specify): \_\_\_\_\_

**LEFT SIDE**

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A pillar
- (23) Left B pillar
- (24) Other left pillar (specify): \_\_\_\_\_
- (25) Left side window glass or frame

- (26) Left side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail
- (27) Other left side object (specify): \_\_\_\_\_

**RIGHT SIDE**

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A pillar
- (33) Right B pillar
- (34) Other right pillar (specify): \_\_\_\_\_
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail
- (37) Other right side object (specify): \_\_\_\_\_

**INTERIOR**

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify): \_\_\_\_\_
- (44) Head restraint system
- (45) Air cushion
- (46) Other occupants (specify): \_\_\_\_\_
- (47) Interior loose objects

- (48) Child safety seat (specify): \_\_\_\_\_

- (49) Other interior object (specify): \_\_\_\_\_

**ROOF**

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

**FLOOR**

- (56) Floor including toe pan
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

**REAR**

- (60) Backlight (rear window)
- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify): \_\_\_\_\_

**CONFIDENCE LEVEL OF CONTACT POINT**

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

## AUTOMATIC RESTRAINTS

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

		Left	Center	Right
F I R S T	Availability	000		0
	Function	000		0
	Failure			0

### Automatic (Passive) Restraint System Availability

- (0) Not equipped/not available
- (1) Airbag
- (2) Airbag disconnected (specify): \_\_\_\_\_
- (3) Airbag not reinstalled
- (4) 2 point automatic belts
- (5) 3 point automatic belts
- (6) Automatic belts destroyed or rendered inoperative
- (9) Unknown

### Automatic (Passive) Restraint Function

- (0) Not equipped/not available

#### Automatic Belt

- (1) Automatic belt in use
- (2) Automatic belt not in use
- (3) Automatic belt use unknown

#### Air Bag

- (4) Airbag deployed during accident
- (5) Airbag deployed inadvertently just prior to accident
- (6) Deployed, accident sequence undetermined
- (7) Nondeployed
- (8) Unknown if deployed
- (9) Unknown

### Did Automatic (Passive) Restraint Fail

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

**MANUAL RESTRAINTS**

NOTES: Encode the applicable data for each seat position in the vehicle. The attributes for the variables 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.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page.

		Left	Center	Right
FIRST	Availability	4	—	4
	Use	00	—	4
	Failure Modes	00	—	00
SECOND	Availability			
	Use			
	Failure Modes			
THIRD	Availability			
	Use			
	Failure Modes			
OTHER	Availability			
	Use			
	Failure Modes			

**Manual (Active) Belt System Availability**

(08) Other belt used (specify):

- (0) Not available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available – type unknown
- (8) Other belt (specify):  
\_\_\_\_\_
- (9) Unknown

- (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

**Manual (Active) Belt System Use**

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

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

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Manual belt failure(s) (encode all that apply above)
  - [A] Torn webbing (stretched webbing not included)
  - [B] Broken buckle or latchplate
  - [C] Upper anchorage separated
  - [D] Other anchorage separated (specify):  
\_\_\_\_\_
- [E] Broken retractor
- [F] Other manual belt failure (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	4					
2. Child Safety Seat Orientation	02					
3. Child Safety Seat Harness Usage	00					
4. Child Safety Seat Shield Usage	00					
5. Child Safety Seat Tether Usage	00					
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):

Century  
Commander  
in front  
seat

- (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
- (03) Other orientation (specify):

- (04) 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)

Century Commander  
found loose in  
front seat

**HEAD RESTRAINTS/SEAT EVALUATION**

NOTES: Encode the applicable data for **each seat position** in the vehicle. The attributes 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	Head Restraint Type/Damage	0	—	0
	Seat Type	00	—	02
	Seat Performance	00	—	2-6+H
SECOND	Head Restraint Type/Damage	0	—	0
	Seat Type	00	—	00
	Seat Performance	00	—	00
THIRD	Head Restraint Type/Damage			
	Seat Type			
	Seat Performance			
OTHER	Head Restraint Type/Damage			
	Seat Type			
	Seat Performance			

**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

**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., van type)
- (09) Other seat type (specify): \_\_\_\_\_
- (99) Unknown

**Seat Performance (This Occupant Position)**

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat performance failure(s)  
(Encode all that apply)
- [A] Seat adjusters failed
- [B] Seat back folding locks failed
- [C] Seat tracks failed
- [D] Seat anchors failed
- [E] Deformed by impact of passenger from rear
- [F] Deformed by impact of passenger from front
- [G] Deformed by own inertial forces
- [H] Deformed by passenger compartment intrusion  
(specify): \_\_\_\_\_

[I] Other (specify): \_\_\_\_\_

(9) Unknown

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

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

**EJECTION/ENTRAPMENT DATA**

Complete the following if the researcher has any indications 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						
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: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

(Note in vehicle interior diagram)

## OCCUPANT INJURY FORM

1. Primary Sampling Unit Number 10 3. Vehicle Number 02  
 2. Case Number - Stratum 077B 4. Occupant Number 01

### INJURY DATA

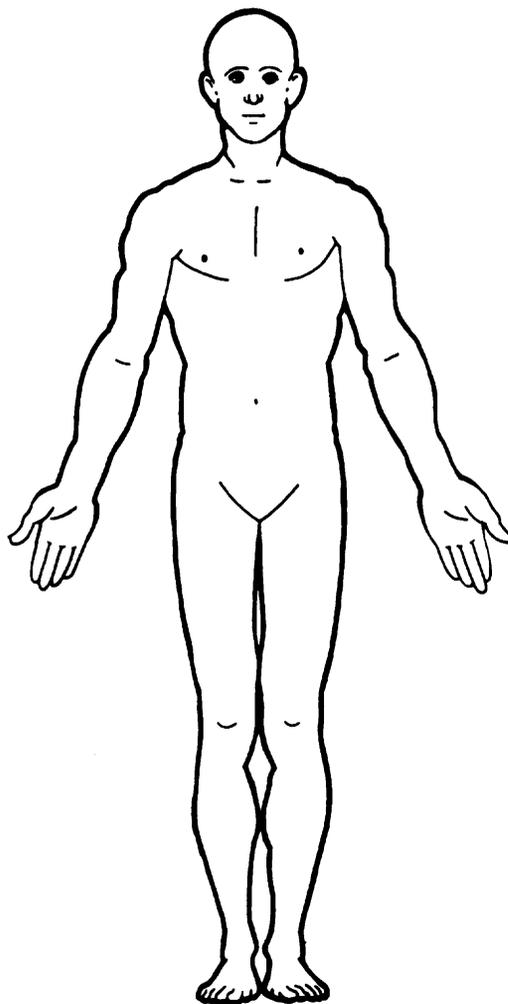
Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than twenty injuries have been documented, encode the balance on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

	Source of Injury Data	O.I.C. - A.I.S.					Injury Source	Injury Source Confidence Level	Direct/Indirect Injury	Occupant Area Intrusion No.
		Body Region	Aspect	Lesion	System Organ	A.I.S. Severity				
1st	5. <u>2</u>	6. <u>H</u>	7. <u>L</u>	8. <u>U</u>	9. <u>B</u>	10. <u>43</u>	11. <u>97</u>	12. <u>9</u>	13. <u>7</u>	14. <u>00</u>
2nd	15. <u>2</u>	16. <u>H</u>	17. <u>L</u>	18. <u>C</u>	19. <u>B</u>	20. <u>3</u>	21. <u>97</u>	22. <u>9</u>	23. <u>7</u>	24. <u>00</u>
2 3rd	25. <u>2</u>	26. <u>H</u>	27. <u>L</u>	28. <u>U</u>	29. <u>B</u>	30. <u>4</u>	31. <u>97</u>	32. <u>9</u>	33. <u>7</u>	34. <u>00</u>
3 4th	35. <u>2</u>	36. <u>M</u>	37. <u>R</u>	38. <u>L</u>	39. <u>L</u>	40. <u>4</u>	41. <u>97</u>	42. <u>9</u>	43. <u>7</u>	44. <u>00</u>
5th	45. <u>2</u>	46. <u>C</u>	47. <u>R</u>	48. <u>F</u>	49. <u>S</u>	50. <u>3</u>	51. <u>97</u>	52. <u>9</u>	53. <u>7</u>	54. <u>00</u>
4 6th	55. <u>2</u>	56. <u>C</u>	57. <u>KB</u>	58. <u>F</u>	59. <u>S</u>	60. <u>5</u>	61. <u>97</u>	62. <u>9</u>	63. <u>7</u>	64. <u>00</u>
5 7th	65. <u>2</u>	66. <u>H</u>	67. <u>P</u>	68. <u>L</u>	69. <u>I</u>	70. <u>1</u>	71. <u>97</u>	72. <u>9</u>	73. <u>7</u>	74. <u>00</u>
6 8th	75. <u>2</u>	76. <u>MH</u>	77. <u>RW</u>	78. <u>SK</u>	79. <u>XB</u>	80. <u>5</u>	81. <u>97</u>	82. <u>9</u>	83. <u>7</u>	84. <u>00</u>
9th	85. <u>2</u>	86. <u>A</u>	87. <u>L</u>	88. <u>U</u>	89. <u>B</u>	90. <u>3</u>	91. <u>97</u>	92. <u>9</u>	93. <u>7</u>	94. <u>00</u>
10th	95. ___	96. ___	97. ___	98. ___	99. ___	100. ___	101. ___	102. ___	103. ___	104. ___
11th	105. ___	106. ___	107. ___	108. ___	109. ___	110. ___	111. ___	112. ___	113. ___	114. ___
12th	115. ___	116. ___	117. ___	118. ___	119. ___	120. ___	121. ___	122. ___	123. ___	124. ___
13th	125. ___	126. ___	127. ___	128. ___	129. ___	130. ___	131. ___	132. ___	133. ___	134. ___
14th	135. ___	136. ___	137. ___	138. ___	139. ___	140. ___	141. ___	142. ___	143. ___	144. ___
15th	145. ___	146. ___	147. ___	148. ___	149. ___	150. ___	151. ___	152. ___	153. ___	154. ___
16th	155. ___	156. ___	157. ___	158. ___	159. ___	160. ___	161. ___	162. ___	163. ___	164. ___
17th	165. ___	166. ___	167. ___	168. ___	169. ___	170. ___	171. ___	172. ___	173. ___	174. ___
18th	175. ___	176. ___	177. ___	178. ___	179. ___	180. ___	181. ___	182. ___	183. ___	184. ___
19th	185. ___	186. ___	187. ___	188. ___	189. ___	190. ___	191. ___	192. ___	193. ___	194. ___
20th	195. ___	196. ___	197. ___	198. ___	199. ___	200. ___	201. ___	202. ___	203. ___	204. ___



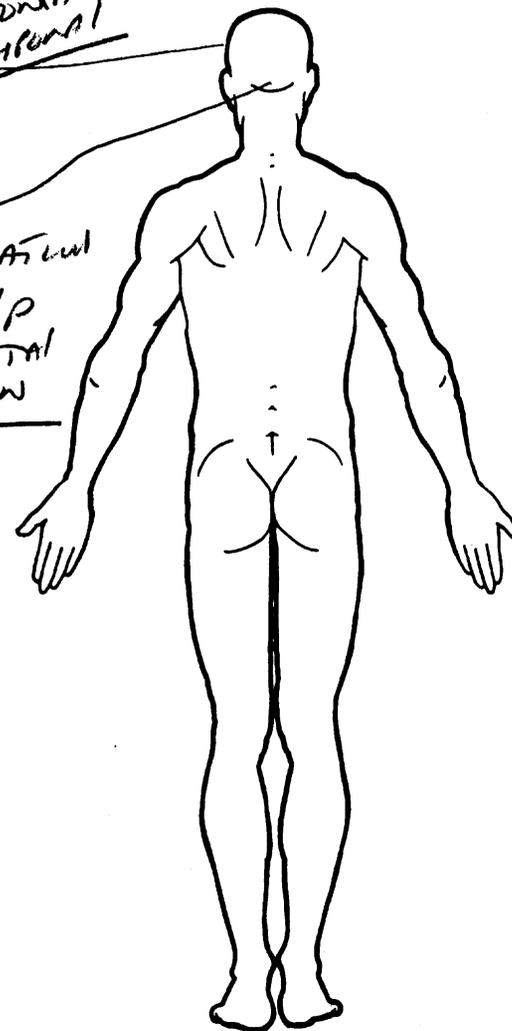
## OFFICIAL INJURY DATA – SOFT TISSUE INJURIES

Indicate the *Location, Lesion, 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.)



SUBDURAL  
HEMATOMA  
① TEMPORAL

LACERATION  
SCALP  
OCCIPITAL  
REGION



**SOURCE OF INJURY DATA**

**OFFICIAL**

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

**UNOFFICIAL**

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

- (26) Left side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail
- (27) Other left side object (specify): \_\_\_\_\_

**RIGHT SIDE**

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A pillar
- (33) Right B pillar
- (34) Other right pillar (specify): \_\_\_\_\_
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, roof side rail
- (37) Other right side object (specify): \_\_\_\_\_

**INTERIOR**

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify): \_\_\_\_\_
- (44) Head restraint system
- (45) Air cushion
- (46) Other occupants (specify): \_\_\_\_\_
- (47) Interior loose objects
- (48) Child safety seat (specify): \_\_\_\_\_
- (49) Other interior object (specify): \_\_\_\_\_

**ROOF**

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

**FLOOR**

- (56) Floor including toe pan
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

**REAR**

- (60) Backlight (rear window)
- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify): \_\_\_\_\_

**EXTERIOR OF OCCUPANT'S VEHICLE**

- (65) Hood
- (66) Outside hardware (e.g., outside mirror, antenna)
- (67) Other exterior surface or tires (specify): \_\_\_\_\_
- (68) Unknown exterior objects

**EXTERIOR OF OTHER MOTOR VEHICLE**

- (70) Front bumper
- (71) Hood edge
- (72) Other front of vehicle (specify): \_\_\_\_\_
- (73) Hood
- (74) Hood ornament
- (75) Windshield, roof rail, A-pillar
- (76) Side surface
- (77) Side mirrors
- (78) Other side protrusions (specify): \_\_\_\_\_

- (79) Rear surface
- (80) Undercarriage
- (81) Tires and wheels
- (82) Other exterior of other motor vehicle (specify): \_\_\_\_\_

**OTHER VEHICLE OR OBJECT IN THE ENVIRONMENT**

- (84) Ground
- (85) Other vehicle or object (specify): \_\_\_\_\_
- (86) Unknown vehicle or object

**NONCONTACT INJURY**

- (90) Fire in vehicle
- (91) Flying glass
- (92) Other noncontact injury source (specify): \_\_\_\_\_
- (97) Injured, unknown source

**INJURY SOURCE**

**FRONT**

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add-on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A-pillar, instrument panel, or mirror (passenger side only)
- (16) Other front object (specify): \_\_\_\_\_

**LEFT SIDE**

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A pillar
- (23) Left B pillar
- (24) Other left pillar (specify): \_\_\_\_\_
- (25) Left side window glass or frame

**INJURY SOURCE CONFIDENCE LEVEL**

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

**DIRECT/INDIRECT INJURY**

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

**OCCUPANT INJURY CLASSIFICATION**

**O.I.C. Body Region**

- (M) Abdomen
- (Q) Ankle-foot
- (A) Arm (upper)
- (B) Back-thoracolumbar spine
- (C) Chest
- (E) Elbow
- (F) Face
- (R) Forearm
- (H) Head-skull
- (U) Injured, unknown region
- (K) Knee
- (L) Leg (lower)
- (Y) Lower limb(s) (whole or unknown part)
- (N) Neck-cervical spine
- (P) Pelvic-hip
- (S) Shoulder
- (T) Thigh
- (X) Upper limb(s) (whole or unknown part)
- (O) Whole body

(W) Wrist-hand

**Aspect of Injury**

- (A) Anterior-front
- (C) Central
- (I) Inferior-lower
- (U) Injured, unknown aspect
- (L) Left
- (P) Posterior-back
- (R) Right
- (S) Superior-upper
- (W) Whole region

**Lesion**

- (A) Abrasion
- (M) Amputation
- (V) Avulsion
- (B) Burn
- (K) Concussion
- (C) Contusion
- (N) Crush

(G) Detachment, separation

- (D) Dislocation
- (F) Fracture
- (Z) Fracture and dislocation
- (U) Injured, unknown lesion
- (L) Laceration
- (O) Other
- (P) Perforation, puncture
- (R) Rupture
- (S) Sprain
- (T) Strain
- (E) Total severance, transection

**System/Organ**

- (W) All systems in region
- (A) Arteries-veins
- (B) Brain
- (D) Digestive
- (E) Ears
- (O) Eye
- (H) Heart
- (U) Injured, unknown system

(I) Integumentary

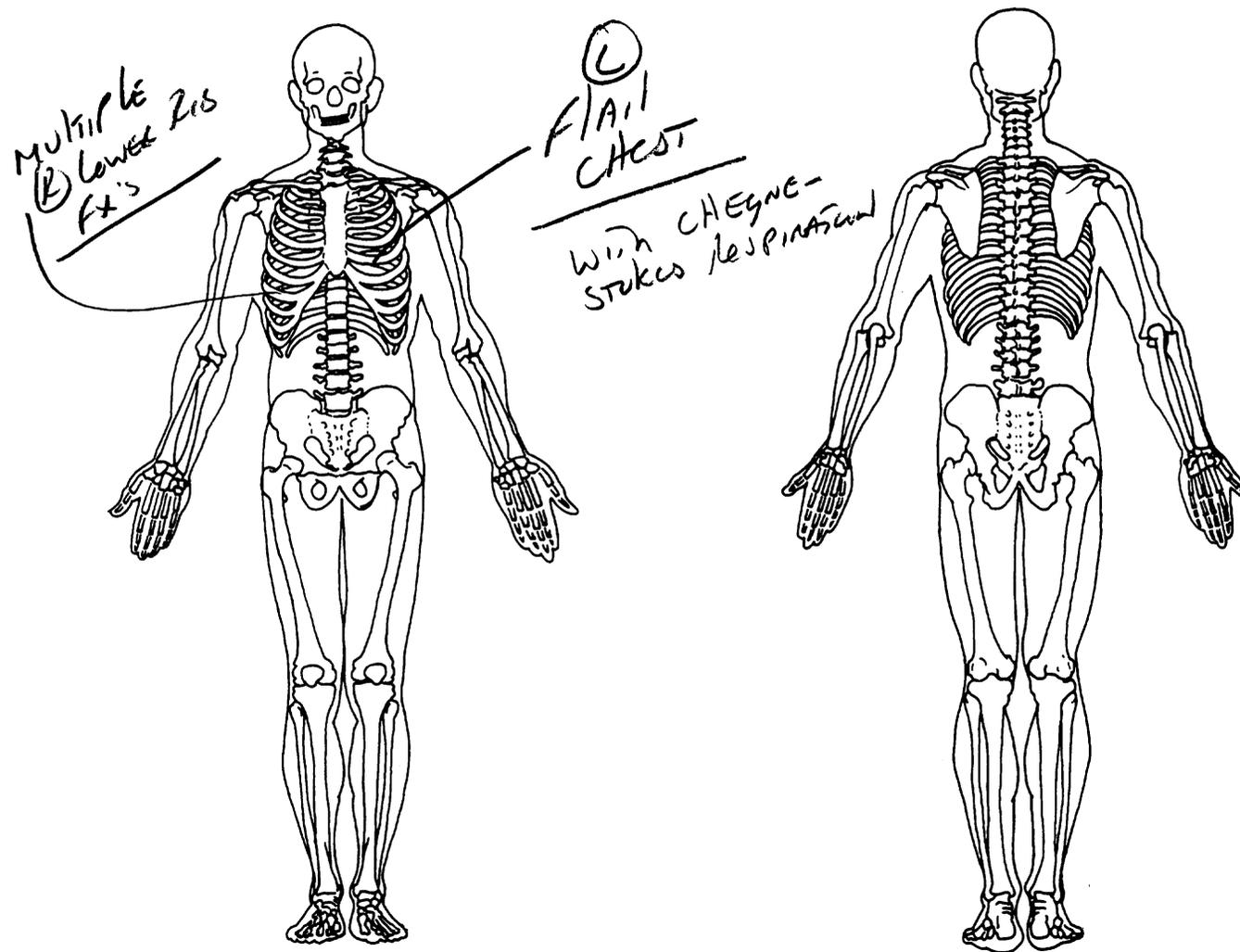
- (J) Joints
- (K) Kidneys
- (L) Liver
- (M) Muscles
- (N) Nervous system
- (P) Pulmonary-lungs
- (R) Respiratory
- (S) Skeletal
- (C) Spinal cord
- (Q) Spleen
- (T) Thyroid, other endocrine gland
- (G) Urogenital
- (V) Vertebrae

**Abbreviated Injury Scale**

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

# OFFICIAL INJURY DATA – SKELETAL INJURIES

Indicate the *Location, Lesion, 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, Lesion, 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.)

INTRACEREBRAL HEMATOMA LEFT LATERAL VENTRICLE

PATIENT WAS UNCONSCIOUS & NEVER GAINED CONSCIOUSNESS UNRESPONSIVE TO ANY STIMULI

CONTUSION @ TEMPORAL LOBE

SUBARACHNOID HEMORRHAGE

SEVERE CEREBRAL INJURY CAUSING BRAIN DEATH

LARGE LACERATION TO LIVER

PRONOUNCED BRAIN DEAD AT 6-2-88 1415PM

SUBDURAL HEMATOMA



## OCCUPANT INJURY FORM

1. Primary Sampling Unit Number 10      3. Vehicle Number 02  
 2. Case Number—Stratum 077B      4. Occupant Number 02

### 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 twenty injuries have been documented, encode the balance on the Occupant Injury Supplement.

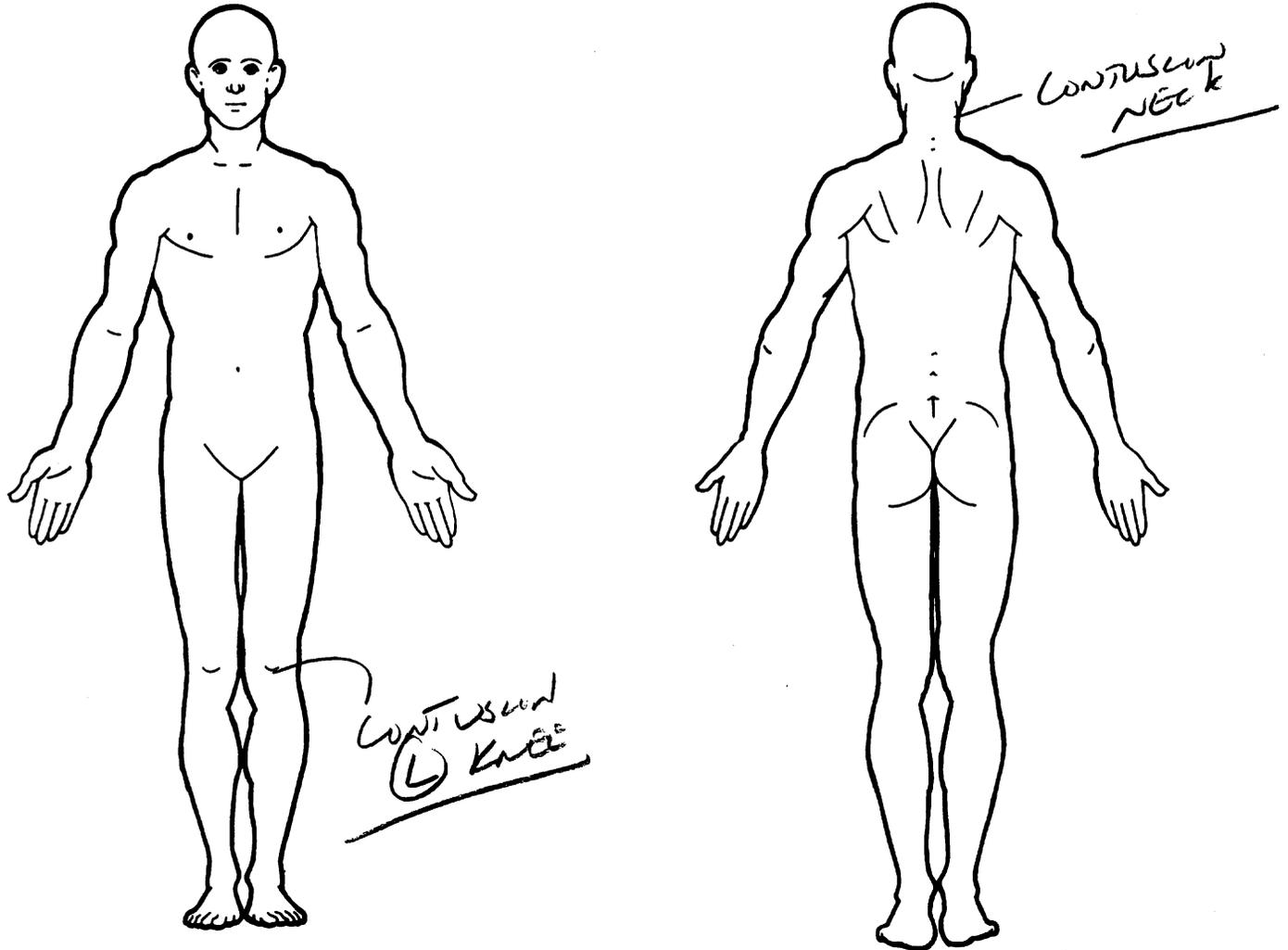
	Source of Injury Data	O.I.C.—A.I.S.					Injury Source	Injury Source Confidence Level	Direct/Indirect Injury	Occupant Area Intrusion No.
		Body Region	Aspect	Lesion	System Organ	A.I.S. Severity				
1st	5. <u>3</u>	6. <u>L</u>	7. <u>R</u>	8. <u>F</u>	9. <u>S</u>	10. <u>2</u>	11. <u>97</u>	12. <u>9</u>	13. <u>7</u>	14. <u>00</u>
2nd	15. <u>3</u>	16. <u>L</u>	17. <u>R</u>	18. <u>F</u>	19. <u>S</u>	20. <u>2</u>	21. <u>97</u>	22. <u>9</u>	23. <u>7</u>	24. <u>00</u>
3rd	25. <u>3</u>	26. <u>K</u>	27. <u>L</u>	28. <u>C</u>	29. <u>I</u>	30. <u>1</u>	31. <u>97</u>	32. <u>9</u>	33. <u>7</u>	34. <u>00</u>
4th	35. <u>3</u>	36. <u>N</u>	37. <u>U</u>	38. <u>C</u>	39. <u>I</u>	40. <u>1</u>	41. <u>97</u>	42. <u>9</u>	43. <u>7</u>	44. <u>00</u>
5th	45. ___	46. ___	47. ___	48. ___	49. ___	50. ___	51. ___	52. ___	53. ___	54. ___
6th	55. ___	56. ___	57. ___	58. ___	59. ___	60. ___	61. ___	62. ___	63. ___	64. ___
7th	65. ___	66. ___	67. ___	68. ___	69. ___	70. ___	71. ___	72. ___	73. ___	74. ___
8th	75. ___	76. ___	77. ___	78. ___	79. ___	80. ___	81. ___	82. ___	83. ___	84. ___
9th	85. ___	86. ___	87. ___	88. ___	89. ___	90. ___	91. ___	92. ___	93. ___	94. ___
10th	95. ___	96. ___	97. ___	98. ___	99. ___	100. ___	101. ___	102. ___	103. ___	104. ___
11th	105. ___	106. ___	107. ___	108. ___	109. ___	110. ___	111. ___	112. ___	113. ___	114. ___
12th	115. ___	116. ___	117. ___	118. ___	119. ___	120. ___	121. ___	122. ___	123. ___	124. ___
13th	125. ___	126. ___	127. ___	128. ___	129. ___	130. ___	131. ___	132. ___	133. ___	134. ___
14th	135. ___	136. ___	137. ___	138. ___	139. ___	140. ___	141. ___	142. ___	143. ___	144. ___
15th	145. ___	146. ___	147. ___	148. ___	149. ___	150. ___	151. ___	152. ___	153. ___	154. ___
16th	155. ___	156. ___	157. ___	158. ___	159. ___	160. ___	161. ___	162. ___	163. ___	164. ___
17th	165. ___	166. ___	167. ___	168. ___	169. ___	170. ___	171. ___	172. ___	173. ___	174. ___
18th	175. ___	176. ___	177. ___	178. ___	179. ___	180. ___	181. ___	182. ___	183. ___	184. ___
19th	185. ___	186. ___	187. ___	188. ___	189. ___	190. ___	191. ___	192. ___	193. ___	194. ___
20th	195. ___	196. ___	197. ___	198. ___	199. ___	200. ___	201. ___	202. ___	203. ___	204. ___

Multiple Occupant Injuries



## OFFICIAL INJURY DATA – SOFT TISSUE INJURIES

Indicate the *Location, Lesion, 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.)



**SOURCE OF INJURY DATA**

**OFFICIAL**

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

**UNOFFICIAL**

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

(26) Left side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail

(27) Other left side object (specify): \_\_\_\_\_

**RIGHT SIDE**

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A pillar
- (33) Right B pillar
- (34) Other right pillar (specify): \_\_\_\_\_

- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, roof side rail
- (37) Other right side object (specify): \_\_\_\_\_

**INTERIOR**

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify): \_\_\_\_\_

- (44) Head restraint system
- (45) Air cushion
- (46) Other occupants (specify): \_\_\_\_\_
- (47) Interior loose objects
- (48) Child safety seat (specify): \_\_\_\_\_
- (49) Other interior object (specify): \_\_\_\_\_

**ROOF**

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

**FLOOR**

- (56) Floor including toe pan
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

**REAR**

- (60) Backlight (rear window)
- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify): \_\_\_\_\_

**EXTERIOR OF OCCUPANT'S VEHICLE**

- (65) Hood
- (66) Outside hardware (e.g., outside mirror, antenna)
- (67) Other exterior surface or tires (specify): \_\_\_\_\_
- (68) Unknown exterior objects

**EXTERIOR OF OTHER MOTOR VEHICLE**

- (70) Front bumper
- (71) Hood edge
- (72) Other front of vehicle (specify): \_\_\_\_\_
- (73) Hood
- (74) Hood ornament
- (75) Windshield, roof rail, A-pillar
- (76) Side surface
- (77) Side mirrors
- (78) Other side protrusions (specify): \_\_\_\_\_

- (79) Rear surface
- (80) Undercarriage
- (81) Tires and wheels
- (82) Other exterior of other motor vehicle (specify): \_\_\_\_\_

**(83) Unknown exterior of other motor vehicle**

**OTHER VEHICLE OR OBJECT IN THE ENVIRONMENT**

- (84) Ground
- (85) Other vehicle or object (specify): \_\_\_\_\_

- (86) Unknown vehicle or object

**NONCONTACT INJURY**

- (90) Fire in vehicle
- (91) Flying glass
- (92) Other noncontact injury source (specify): \_\_\_\_\_

- (97) Injured, unknown source

**INJURY SOURCE**

**FRONT**

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add-on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A-pillar, instrument panel, or mirror (passenger side only)
- (16) Other front object (specify): \_\_\_\_\_

**LEFT SIDE**

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A pillar
- (23) Left B pillar
- (24) Other left pillar (specify): \_\_\_\_\_
- (25) Left side window glass or frame

**INJURY SOURCE CONFIDENCE LEVEL**

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

**DIRECT/INDIRECT INJURY**

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

**OCCUPANT INJURY CLASSIFICATION**

**O.I.C. Body Region**

- (M) Abdomen
- (Q) Ankle-foot
- (A) Arm (upper)
- (B) Back-thoracolumbar spine
- (C) Chest
- (E) Elbow
- (F) Face
- (R) Forearm
- (H) Head-skull
- (U) Injured, unknown region
- (K) Knee
- (L) Leg (lower)
- (Y) Lower limb(s) (whole or unknown part)
- (N) Neck-cervical spine
- (P) Pelvic-hip
- (S) Shoulder
- (T) Thigh
- (X) Upper limb(s) (whole or unknown part)
- (O) Whole body

(W) Wrist-hand

**Aspect of Injury**

- (A) Anterior-front
- (C) Central
- (I) Inferior-lower
- (U) Injured, unknown aspect
- (L) Left
- (P) Posterior-back
- (R) Right
- (S) Superior-upper
- (W) Whole region

**Lesion**

- (A) Abrasion
- (M) Amputation
- (V) Avulsion
- (B) Burn
- (K) Concussion
- (C) Contusion
- (N) Crush

- (G) Detachment, separation
- (D) Dislocation
- (F) Fracture
- (Z) Fracture and dislocation
- (U) Injured, unknown lesion
- (L) Laceration
- (O) Other
- (P) Perforation, puncture
- (R) Rupture
- (S) Sprain
- (T) Strain
- (E) Total severance, transection

**System/Organ**

- (W) All systems in region
- (A) Arteries-veins
- (B) Brain
- (D) Digestive
- (E) Ears
- (O) Eye
- (H) Heart
- (U) Injured, unknown system

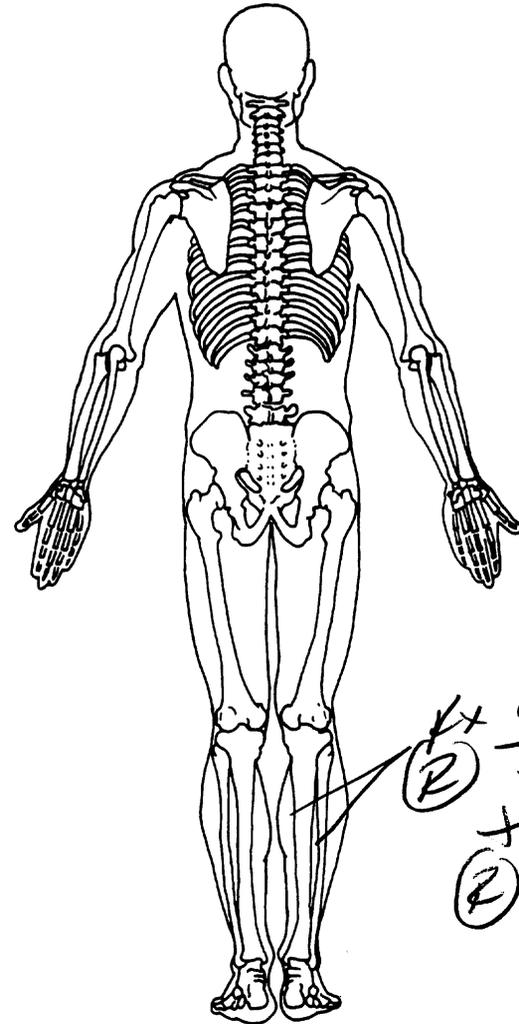
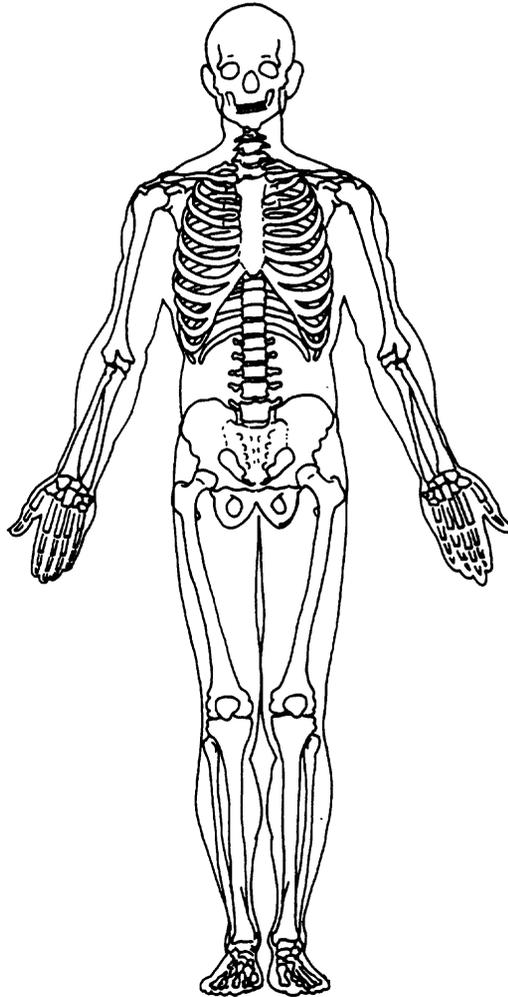
- (I) Integumentary
- (J) Joints
- (K) Kidneys
- (L) Liver
- (M) Muscles
- (N) Nervous system
- (P) Pulmonary-lungs
- (R) Respiratory
- (S) Skeletal
- (C) Spinal cord
- (Q) Spleen
- (T) Thyroid, other endocrine gland
- (G) Urogenital
- (V) Vertebrae

**Abbreviated Injury Scale**

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

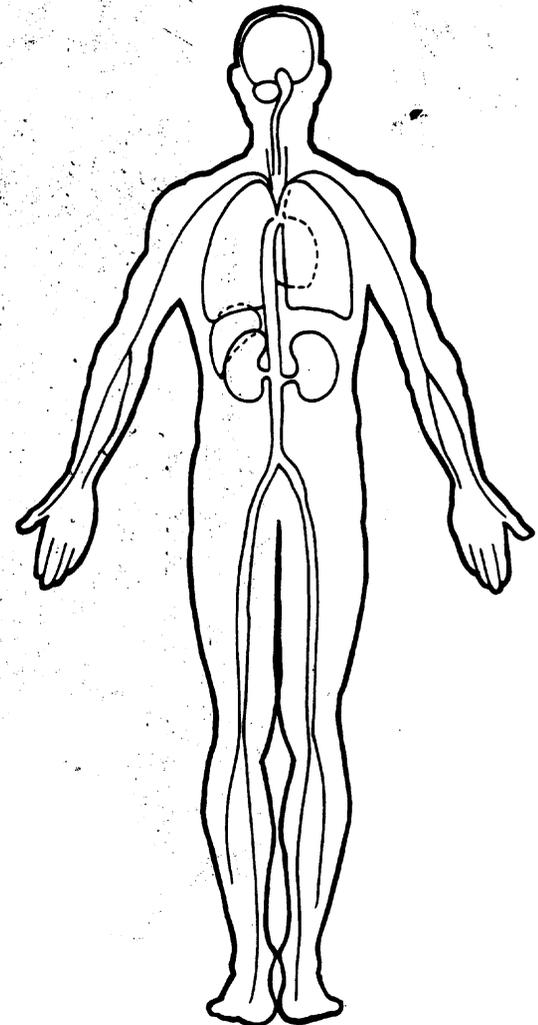
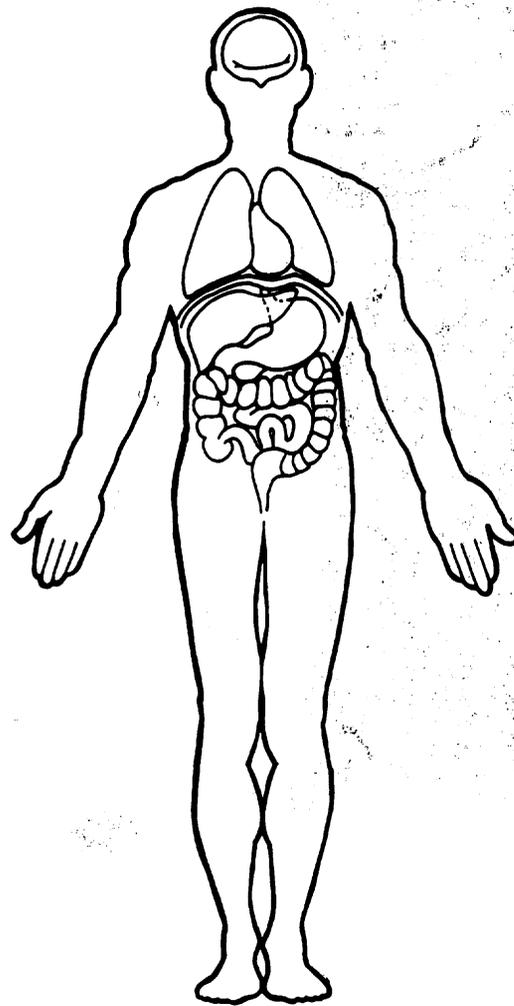
# OFFICIAL INJURY DATA – SKELETAL INJURIES

Indicate the *Location, Lesion, 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

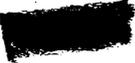
Indicate the *Location, Lesion, Detail* (size, depth, fracture type; head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





# UPDATE FORM

1. Primary Sampling Unit Number 10  
 2. Case Number - Stratum 087 B  
 3. Vehicle Number 02  
 4. Occupant Number 02

RECEIVED  1988

Driver or Occupant Name: \_\_\_\_\_

Address: \_\_\_\_\_

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

(Sanitize this section prior to Update submission.)

## INJURY DATA CODED ON INITIAL SUBMISSION

O.I.C. - A.I.S.										Injury Source		Direct/Indirect Injury		Occupant Area Intrusion No.	
Source of Injury Data	Body Region	Aspect	Lesion	System Organ	A.I.S. Severity	Injury Source	Injury Source	Confidence Level	Direct/Indirect Injury	Occupant Area Intrusion No.					
1st	5. <u>3</u>	6. <u>L</u>	7. <u>R</u>	8. <u>F</u>	9. <u>S</u>	10. <u>2</u>	11. <u>97</u>	12. <u>9</u>	13. <u>7</u>	14. <u>00</u>					
2nd	15. <u>3</u>	16. <u>L</u>	17. <u>R</u>	18. <u>F</u>	19. <u>S</u>	20. <u>2</u>	21. <u>97</u>	22. <u>9</u>	23. <u>7</u>	24. <u>00</u>					
3rd	25. <u>3</u>	26. <u>K</u>	27. <u>L</u>	28. <u>C</u>	29. <u>I</u>	30. <u>1</u>	31. <u>97</u>	32. <u>9</u>	33. <u>7</u>	34. <u>00</u>					
4th	35. <u>3</u>	36. <u>N</u>	37. <u>V</u>	38. <u>C</u>	39. <u>I</u>	40. <u>1</u>	41. <u>97</u>	42. <u>9</u>	43. <u>7</u>	44. <u>00</u>					
5th	45. _____	46. _____	47. _____	48. _____	49. _____	50. _____	51. _____	52. _____	53. _____	54. _____					
6th	55. _____	56. _____	57. _____	58. _____	59. _____	60. _____	61. _____	62. _____	63. _____	64. _____					
7th	65. _____	66. _____	67. _____	68. _____	69. _____	70. _____	71. _____	72. _____	73. _____	74. _____					
8th	75. _____	76. _____	77. _____	78. _____	79. _____	80. _____	81. _____	82. _____	83. _____	84. _____					
9th	85. _____	86. _____	87. _____	88. _____	89. _____	90. _____	91. _____	92. _____	93. _____	94. _____					
10th	95. _____	96. _____	97. _____	98. _____	99. _____	100. _____	101. _____	102. _____	103. _____	104. _____					

NOTE: If necessary, keep copy of original Occupant Injury form and submit as part of update.

## UPDATED CASE INFORMATION

	INITIAL SUBMISSION	FINAL		INITIAL SUBMISSION	FINAL
GV12. Alcohol Test Results for Driver	<u>96</u>	<u>96</u>	OA35. Treatment - Mortality	<u>04</u>	<u>04</u>
OA05. Occupant's Age	<u>02</u>	<u>02</u>	OA36. Type of Medical Facility (for Initial Treatment)	<u>1</u>	<u>1</u>
OA06. Occupant's Sex	<u>2</u>	<u>2</u>	OA37. Hospital Stay	<u>00</u>	<u>00</u>
OA07. Occupant's Height	<u>99</u>	<u>99</u>	OA38. Working Days Lost	<u>97</u>	<u>97</u>
OA08. Occupant's Weight	<u>999</u>	<u>999</u>	OA39. Time to Death	<u>00</u>	<u>00</u>
OA17. Manual (Active) Belt System Availability	<u>0</u>	<u>0</u>	OA40. 1st Medically Reported Cause of Death	<u>00</u>	<u>00</u>
OA18. Manual (Active) Belt System Use	<u>00</u>	<u>00</u>	OA41. 2nd Medically Reported Cause of Death	<u>00</u>	<u>00</u>
OA21. Automatic (Passive) Restraint System Availability	<u>0</u>	<u>0</u>	OA42. 3rd Medically Reported Cause of Death	<u>00</u>	<u>00</u>
OA22. Automatic (Passive) Restraint Function	<u>0</u>	<u>0</u>	OA43. Number of Recorded Injuries for This Occupant	<u>04</u>	<u>04</u>

**INJURY DATA**

Record below the actual injuries sustained by this occupant that were identified from the unofficial and official sources prior to initial case submission **and from subsequently** acquired medical data. Remember not to double count an injury just because it was identified from two different sources.

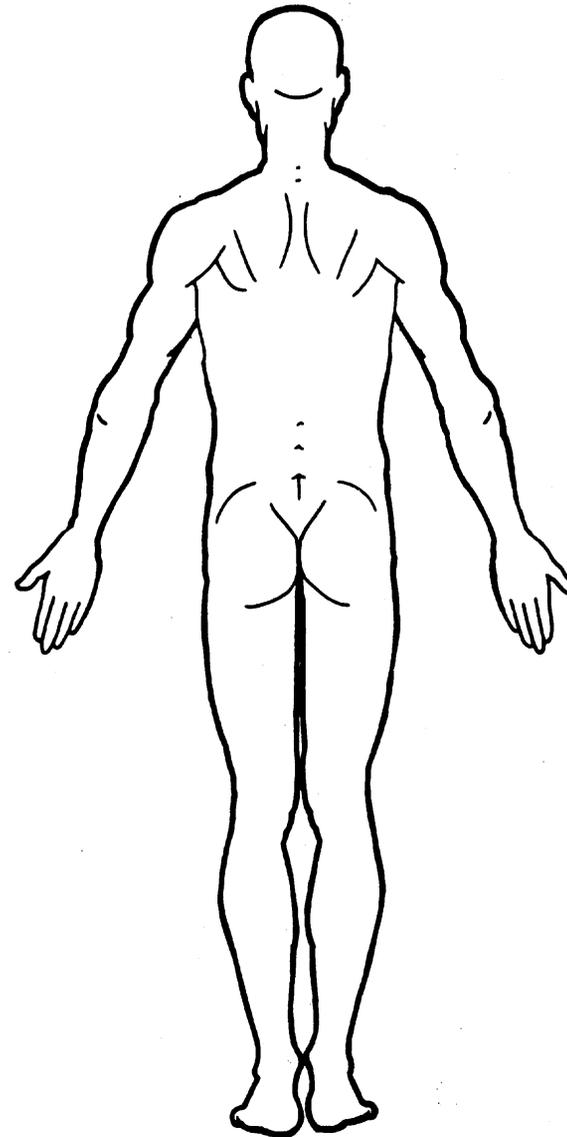
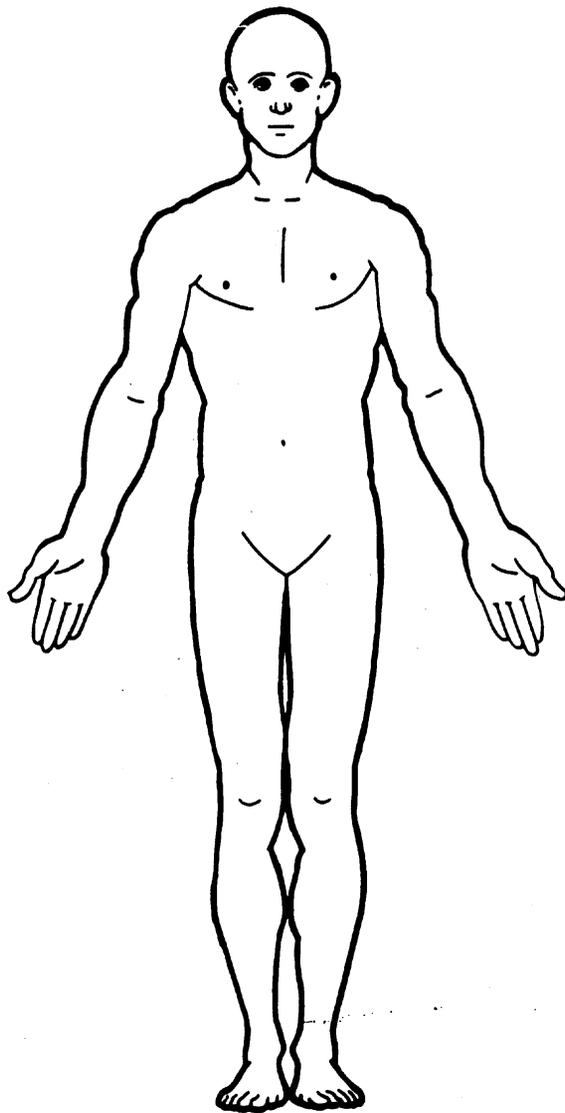
	Source of Injury Data	O.I.C. – A.I.S.					Injury Source	Injury Source Confidence Level	Direct/Indirect Injury	Occupant Area Intrusion No.
		Body Region	Aspect	Lesion	System Organ	A.I.S. Severity				
1st	5. ___	6. ___	7. ___	8. ___	9. ___	10. ___	11. ___	12. ___	13. ___	14. ___
2nd	15. ___	16. ___	17. ___	18. ___	19. ___	20. ___	21. ___	22. ___	23. ___	24. ___
3rd	25. ___	26. ___	27. ___	28. ___	29. ___	30. ___	31. ___	32. ___	33. ___	34. ___
4th	35. ___	36. ___	37. ___	38. ___	39. ___	40. ___	41. ___	42. ___	43. ___	44. ___
5th	45. ___	46. ___	47. ___	48. ___	49. ___	50. ___	51. ___	52. ___	53. ___	54. ___
6th	55. ___	56. ___	57. ___	58. ___	59. ___	60. ___	61. ___	62. ___	63. ___	64. ___
7th	65. ___	66. ___	67. ___	68. ___	69. ___	70. ___	71. ___	72. ___	73. ___	74. ___
8th	75. ___	76. ___	77. ___	78. ___	79. ___	80. ___	81. ___	82. ___	83. ___	84. ___
9th	85. ___	86. ___	87. ___	88. ___	89. ___	90. ___	91. ___	92. ___	93. ___	94. ___
10th	95. ___	96. ___	97. ___	98. ___	99. ___	100. ___	101. ___	102. ___	103. ___	104. ___
11th	105. ___	106. ___	107. ___	108. ___	109. ___	110. ___	111. ___	112. ___	113. ___	114. ___
12th	115. ___	116. ___	117. ___	118. ___	119. ___	120. ___	121. ___	122. ___	123. ___	124. ___
13th	125. ___	126. ___	127. ___	128. ___	129. ___	130. ___	131. ___	132. ___	133. ___	134. ___
14th	135. ___	136. ___	137. ___	138. ___	139. ___	140. ___	141. ___	142. ___	143. ___	144. ___
15th	145. ___	146. ___	147. ___	148. ___	149. ___	150. ___	151. ___	152. ___	153. ___	154. ___
16th	155. ___	156. ___	157. ___	158. ___	159. ___	160. ___	161. ___	162. ___	163. ___	164. ___
17th	165. ___	166. ___	167. ___	168. ___	169. ___	170. ___	171. ___	172. ___	173. ___	174. ___
18th	175. ___	176. ___	177. ___	178. ___	179. ___	180. ___	181. ___	182. ___	183. ___	184. ___
19th	185. ___	186. ___	187. ___	188. ___	189. ___	190. ___	191. ___	192. ___	193. ___	194. ___
20th	195. ___	196. ___	197. ___	198. ___	199. ___	200. ___	201. ___	202. ___	203. ___	204. ___

**If greater than 20 injuries, code additional on Occupant Injury Data Supplement.**



# OFFICIAL INJURY DATA – SOFT TISSUE INJURIES

Indicate the *Location, Lesion, 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.)



## SOURCE OF INJURY DATA

### OFFICIAL

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

### UNOFFICIAL

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

## INJURY SOURCE

### FRONT

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add-on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A-pillar, instrument panel, or mirror (passenger side only)
- (16) Other front object (specify): \_\_\_\_\_

### LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A pillar
- (23) Left B pillar
- (24) Other left pillar (specify): \_\_\_\_\_
- (25) Left side window glass or frame

- (26) Left side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail
- (27) Other left side object (specify): \_\_\_\_\_

### RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A pillar
- (33) Right B pillar
- (34) Other right pillar (specify): \_\_\_\_\_
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, roof side rail
- (37) Other right side object (specify): \_\_\_\_\_

### INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify): \_\_\_\_\_
- (44) Head restraint system
- (45) Air cushion
- (46) Other occupants (specify): \_\_\_\_\_
- (47) Interior loose objects
- (48) Child safety seat (specify): \_\_\_\_\_
- (49) Other interior object (specify): \_\_\_\_\_

### ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

### FLOOR

- (56) Floor including toe pan
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

### REAR

- (60) Backlight (rear window)
- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify): \_\_\_\_\_

### EXTERIOR OF OCCUPANT'S VEHICLE

- (65) Hood
- (66) Outside hardware (e.g., outside mirror, antenna)
- (67) Other exterior surface or tires (specify): \_\_\_\_\_
- (68) Unknown exterior objects

### EXTERIOR OF OTHER MOTOR VEHICLE

- (70) Front bumper
- (71) Hood edge
- (72) Other front of vehicle (specify): \_\_\_\_\_

- (73) Hood
- (74) Hood ornament
- (75) Windshield, roof rail, A-pillar
- (76) Side surface
- (77) Side mirrors
- (78) Other side protrusions (specify): \_\_\_\_\_

- (79) Rear surface
- (80) Undercarriage
- (81) Tires and wheels
- (82) Other exterior of other motor vehicle (specify): \_\_\_\_\_

- (83) Unknown exterior of other motor vehicle

### OTHER VEHICLE OR OBJECT IN THE ENVIRONMENT

- (84) Ground
- (85) Other vehicle or object (specify): \_\_\_\_\_

- (86) Unknown vehicle or object

### NONCONTACT INJURY

- (90) Fire in vehicle
- (91) Flying glass
- (92) Other noncontact injury source (specify): \_\_\_\_\_

- (97) Injured, unknown source

## INJURY SOURCE CONFIDENCE LEVEL

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

## DIRECT/INDIRECT INJURY

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

## OCCUPANT INJURY CLASSIFICATION

### O.I.C. Body Region

- (M) Abdomen
- (Q) Ankle-foot
- (A) Arm (upper)
- (B) Back-thoracolumbar spine
- (C) Chest
- (E) Elbow
- (F) Face
- (R) Forearm
- (H) Head-skull
- (U) Injured, unknown region
- (K) Knee
- (L) Leg (lower)
- (Y) Lower limb(s) (whole or unknown part)
- (N) Neck-cervical spine
- (P) Pelvic-hip
- (S) Shoulder
- (T) Thigh
- (X) Upper limb(s) (whole or unknown part)
- (O) Whole body

### (W) Wrist-hand

### Aspect of Injury

- (A) Anterior-front
- (C) Central
- (I) Inferior-lower
- (U) Injured, unknown aspect
- (L) Left
- (P) Posterior-back
- (R) Right
- (S) Superior-upper
- (W) Whole region

### Lesion

- (A) Abrasion
- (M) Amputation
- (V) Avulsion
- (B) Burn
- (K) Concussion
- (C) Contusion
- (N) Crush

### (G) Detachment, separation

- (D) Dislocation
- (F) Fracture
- (Z) Fracture and dislocation
- (U) Injured, unknown lesion
- (L) Laceration
- (O) Other
- (P) Perforation, puncture
- (R) Rupture
- (S) Sprain
- (T) Strain
- (E) Total severance, transection

### System/Organ

- (W) All systems in region
- (A) Arteries-veins
- (B) Brain
- (D) Digestive
- (E) Ears
- (O) Eye
- (H) Heart
- (U) Injured, unknown system

### (I) Integumentary

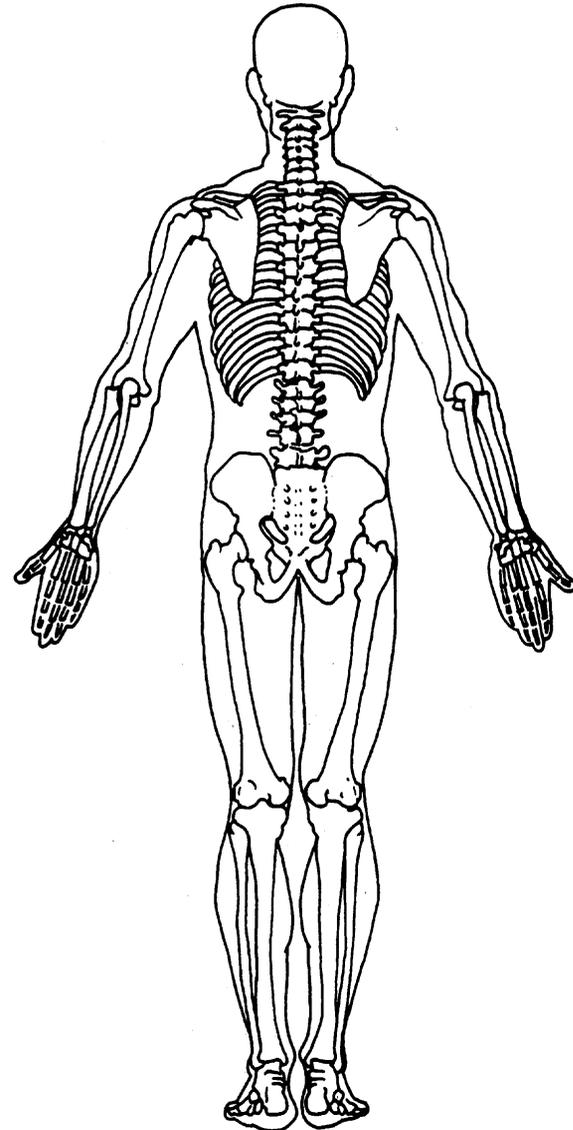
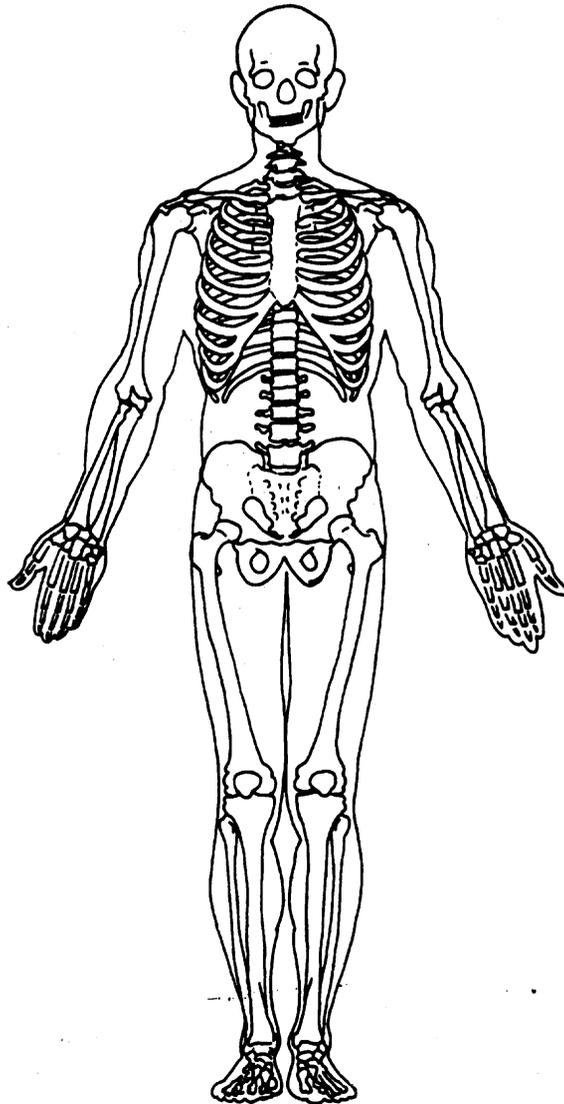
- (J) Joints
- (K) Kidneys
- (L) Liver
- (M) Muscles
- (N) Nervous system
- (P) Pulmonary-lungs
- (R) Respiratory
- (S) Skeletal
- (C) Spinal cord
- (Q) Spleen
- (T) Thyroid, other endocrine gland
- (G) Urogenital
- (V) Vertebrae

### Abbreviated Injury Scale

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

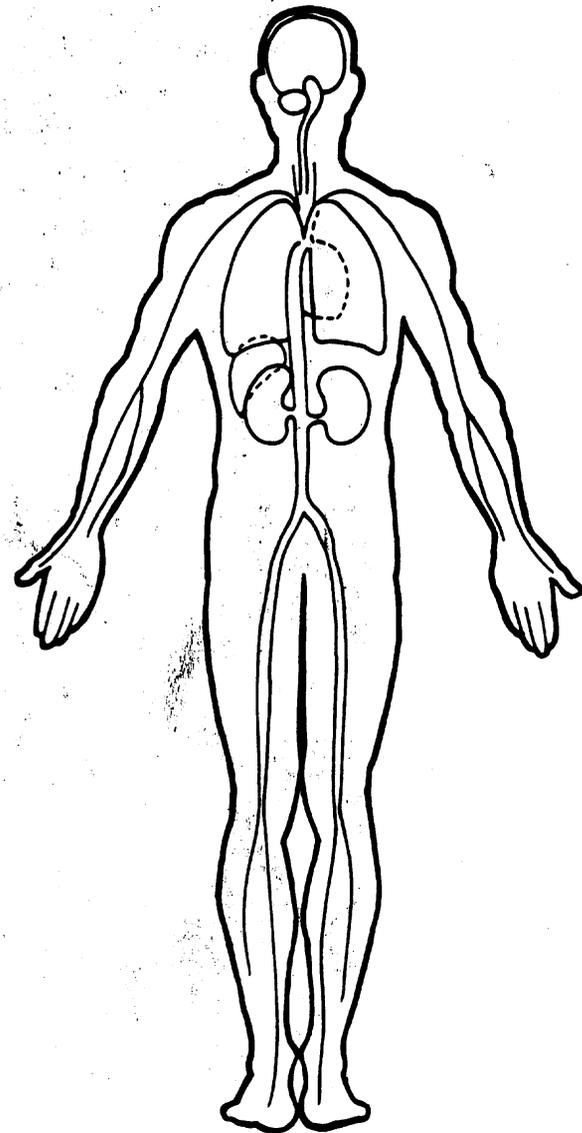
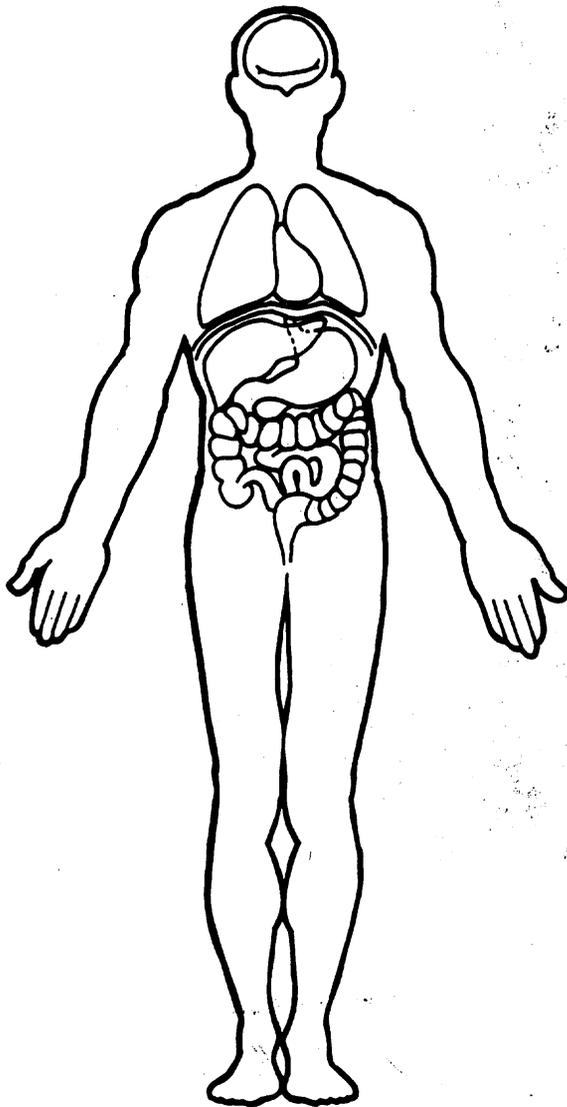
## OFFICIAL INJURY DATA – SKELETAL INJURIES

Indicate the *Location, Lesion, 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, Lesion, 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.)





## 1988 NATIONAL ACCIDENT SAMPLING SYSTEM

## ERROR SUMMARY SCREEN

*approved*  
[REDACTED] 1988

CURRENT VERSION: 1.12

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	0	Y
Vehicle Exterior	0	0	0	Y
Vehicle Interior	0	0	0	Y
Occupant Assessment	0	0	0	Y
Occupant Injury	0	0	0	Y
Total Intet Errors		0	2	
Total Case Errors	0	0	2	



SLIDE INDEX

Primary Sampling Unit Number <u>10</u>			Case Number--Stratum <u>077B</u>
Slide No.	Vehicle No.	Direction of Picture	Description of Slide Subject Matter
1-8	1	SB	APPROACH VEH #1
9-10	1	SB	AREA IMPACT VEH #2
11-21	1	S	TRAJECTORY TO TRIP POINT
22-23	1	S	TRIP POINT
24-28	1	S	TRAJECTORY TO FAP VEH #1
29-30	1	S	VEH #1 - AS FAP
31	1	W	LATERAL VIEW OF FAP
32	1	E	LATERAL VIEW OF FAP
33-34	1	NE	LOOKING BACK FROM FAP
35	1	N	VEH #1 OPPOSITE TRAVEL
36-38	2	S	APPROACH VEH #2
39	2	S	AREA IMPACT VEH #2
40-45	2	S	TRAJECTORY TO FAP
46-47	2	SE	VEH #2 AS FAP
48	2	NE	LATERAL VIEW AS FAP
49-50	2	N	VEH #2 OPPOSITE TRAVEL
51-91	1	-	EXTERIOR VEH #1
92-128	1	-	INTERIOR VEH #1
129-168	2	-	EXTERIOR VEH #2
169-207	2	-	INTERIOR VEH #2





PSU 10-077B (1988) #1



PSU 10-077B (1988) #2



PSU 10-077B (1988) #3



PSU 10-077B (1988) #4



PSU 10-077B (1988) #5



PSU 10-077B (1988) #6



**PSU 10-077B (1988) #7**



PSU 10-077B (1988) #8



PSU 10-077B (1988) #9



PSU 10-077B (1988) #10



PSU 10-077B (1988) #11



**PSU 10-077B (1988) #12**



PSU 10-077B (1988) #13



**PSU 10-077B (1988) #14**



**PSU 10-077B (1988) #15**



PSU 10-077B (1988) #16



PSU 10-077B (1988) #17



PSU 10-077B (1988) #18



PSU 10-077B (1988) #19



PSU 10-077B (1988) #20



PSU 10-077B (1988) #21



PSU 10-077B (1988) #22



PSU 10-077B (1988) #23



PSU 10-077B (1988) #24



**PSU 10-077B (1988) #25**



**PSU 10-077B (1988) #26**



PSU 10-077B (1988) #27



PSU 10-077B (1988) #28



**PSU 10-077B (1988) #29**



PSU 10-077B (1988) #30



PSU 10-077B (1988) #31



PSU 10-077B (1988) #32



PSU 10-077B (1988) #33



**PSU 10-077B (1988) #34**



PSU 10-077B (1988) #35



PSU 10-077B (1988) #36



PSU 10-077B (1988) #37



PSU 10-077B (1988) #38



**PSU 10-077B (1988) #39**



**PSU 10-077B (1988) #40**



**PSU 10-077B (1988) #41**



PSU 10-077B (1988) #42



PSU 10-077B (1988) #43



PSU 10-077B (1988) #44



**PSU 10-077B (1988) #45**



PSU 10-077B (1988) #46



PSU 10-077B (1988) #47



PSU 10-077B (1988) #48



PSU 10-077B (1988) #49



PSU 10-077B (1988) #50



PSU 10-077B (1988) #51



**PSU 10-077B (1988) #52**



**PSU 10-077B (1988) #53**



PSU 10-077B (1988) #54



**PSU 10-077B (1988) #55**



**PSU 10-077B (1988) #56**



**PSU 10-077B (1988) #57**



**PSU 10-077B (1988) #58**



**PSU 10-077B (1988) #59**



**PSU 10-077B (1988) #60**



**PSU 10-077B (1988) #61**



PSU 10-077B (1988) #62



**PSU 10-077B (1988) #63**



**PSU 10-077B (1988) #64**



**PSU 10-077B (1988) #65**



PSU 10-077B (1988) #66



**PSU 10-077B (1988) #67**



PSU 10-077B (1988) #68



**PSU 10-077B (1988) #69**



**PSU 10-077B (1988) #70**



PSU 10-077B (1988) #71



PSU 10-077B (1988) #72



PSU 10-077B (1988) #73



PSU 10-077B (1988) #74



**PSU 10-077B (1988) #75**



**PSU 10-077B (1988) #76**



PSU 10-077B (1988) #77



**PSU 10-077B (1988) #78**



**PSU 10-077B (1988) #79**



**PSU 10-077B (1988) #80**



PSU 10-077B (1988) #81



PSU 10-077B (1988) #82



PSU 10-077B (1988) #83



PSU 10-077B (1988) #84



PSU 10-077B (1988) #85



PSU 10-077B (1988) #86



PSU 10-077B (1968) #67



PSU 10-077B (1988) #88



PSU 10-077B (1988) #89



PSU 10-077B (1988) #90



PSU 10-077B (1988) #91



**PSU 10-077B (1988) #92**



PSU 10-077B (1988) #93



**PSU 10-077B (1988) #94**



PSU 10-077B (1988) #95



PSU 10-077B (1988) #98



PSU 10-077B (1988) #97



PSU 10-077B (1988) #98



PSU 10-077B (1988) #99



PSU 10-077B (1988) #100



PSU 10-077B (1988) #101



PSU 10-077B (1988) #102



PSU 10-077B (1988) #103



PSU 10-077B (1988) #104



PSU 10-077B (1988) #105



PSU 10-077B (1988) #106



PSU 10-077B (1988) #107



PSU 10-077B (1988) #108



PSU 10-077B (1988) #109



PSU 10-077B (1988) #110



PSU 10-077B (1988) #111



PSU 10-077B (1988) #112



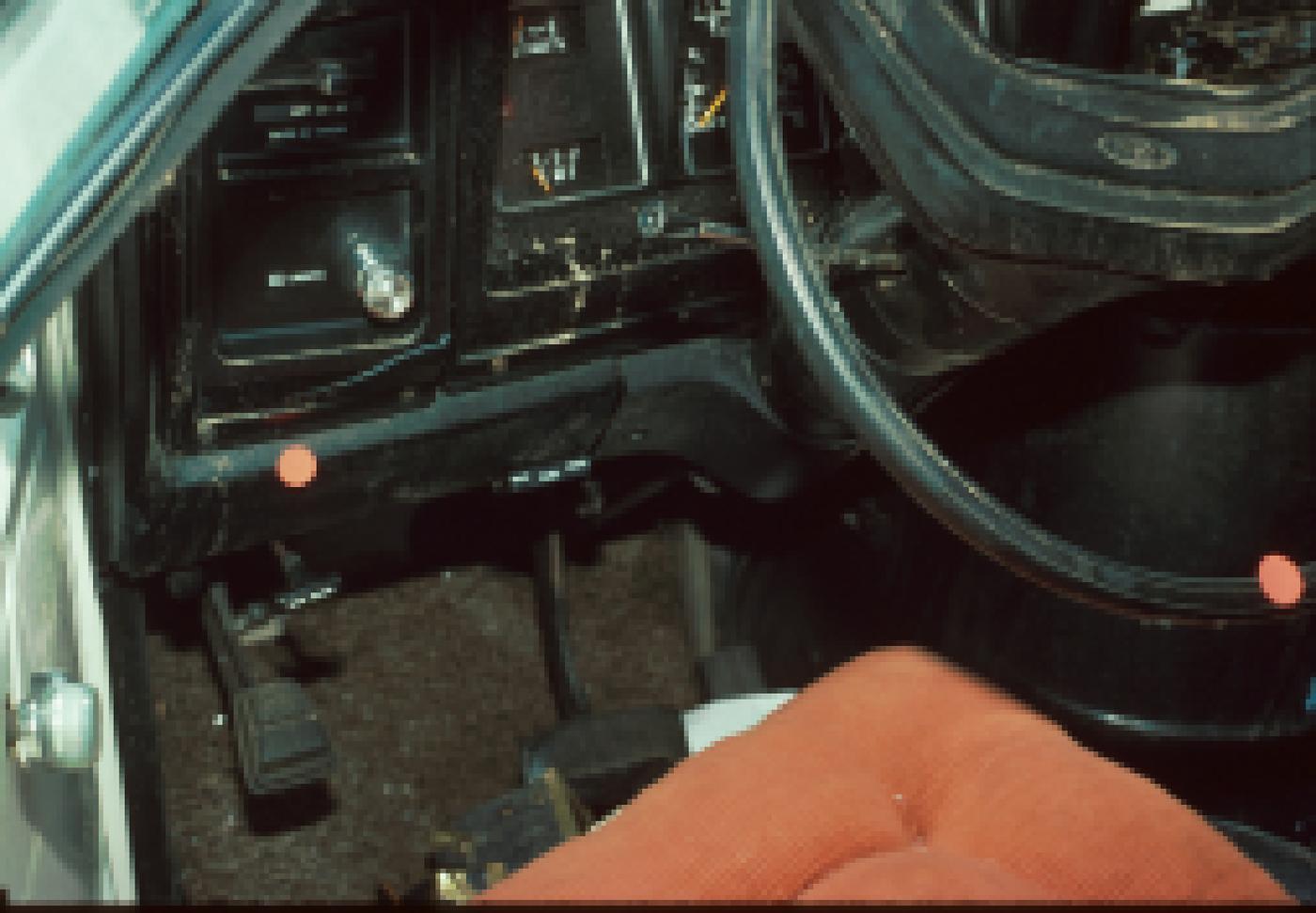
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PSU 10-077B (1988) #114



PSU 10-077B (1988) #115



PSU 10-077B (1988) #116



PSU 10-077B (1988) #117



PSU 10-077B (1988) #118



PSU 10-077B (1988) #119



**PSU 10-077B (1988) #120**



PSU 10-077B (1988) #121



PSU 10-077B (1988) #122



PSU 10-077B (1988) #123



PSU 10-077B (1988) #124



PSU 10-077B (1988) #125



PSU 10-077B (1988) #126



PSU 10-077B (1988) #127



PSU 10-077B (1988) #128



**PSU 10-077B (1988) #129**



PSU 10-077B (1988) #130



PSU 10-077B (1989) #131



PSU 10-077B (1988) #132



**PSU 10-077B (1988) #133**



**PSU 10-077B (1969) #134**



PSU 10-077B (1988) #135



**PSU 10-077B (1988) #136**



PSU 10-077B (1988) #137



PSU 10-077B (1988) #138



PSU 10-077B (1988) #139



**PSU 10-077B (1988) #140**



PSU 10-077B (1988) #141



PSU 10-077B (1988) #142



PSU 10-077B (1988) #143



PSU 10-077B (1988) #144



**PSU 10-077B (1988) #145**



PSU 10-077B (1988) #146



**PSU 10-077B (1988) #147**



PSU 10-077B (1988) #148



PSU 10-077B (1988) #149



PSU 10-077B (1988) #150



PSU 10-077B (1988) #151



PSU 10-077B (1988) #152



PSU 10-077B (1988) #153



PSU 10-077B (1988) #154



PSU 10-077B (1988) #155



PSU 10-077B (1988) #156



**PSU 10-077B (1988) #157**



**PSU 10-077B (1988) #158**



**PSU 10-077B (1988) #159**



PSU 10-077B (1988) #160



PSU 10-077B (1988) #161



PSU 10-077B (1988) #162



**PSU 10-077B (1988) #163**



PSU 10-077B (1988) #164



PSU 10-077B (1988) #185



PSU 10-077B (1988) #168



PSU 10-077B (1988) #167



**PSU 10-077B (1988) #168**



PSU 10-077B (1988) #160



PSU 10-077B (1988) #170



PSU 10-077B (1988) #171



PSU 10-077B (1988) #172



PSU 10-077B (1988) #173



PSU 10-077B (1988) #174



PSU 10-077B (1988) #175



PSU 10-077B (1988) #176



PSU 10-077B (1988) #177



PSU 10-077B (1988) #178



PSU 10-077B (1988) #179



PSU 10-077B (1988) #180



PSU 10-077B (1988) #181



PSU 10-077B (1988) #182



PSU 10-077B (1988) #183



PSU 10-077B (1988) #184



PSU 10-077B (1988) #185



FSU 10-077B (1988) #186



**PSU 10-077B (1988) #187**



PSU 10-077B (1988) #188



PSU 10-077B (1988) #189



PSU 10-077B (1988) #190



PSU 10-077B (1988) #191



PSU 10-077B (1988) #192



PSU 10-077B (1988) #193



PSU 10-077B (1988) #194



PSU 10-077B (1988) #195



**PSU 10-077B (1988) #196**



PSU 10-077B (1988) #197



PSU 10-077B (1988) #198



PSU 10-077B (1988) #199



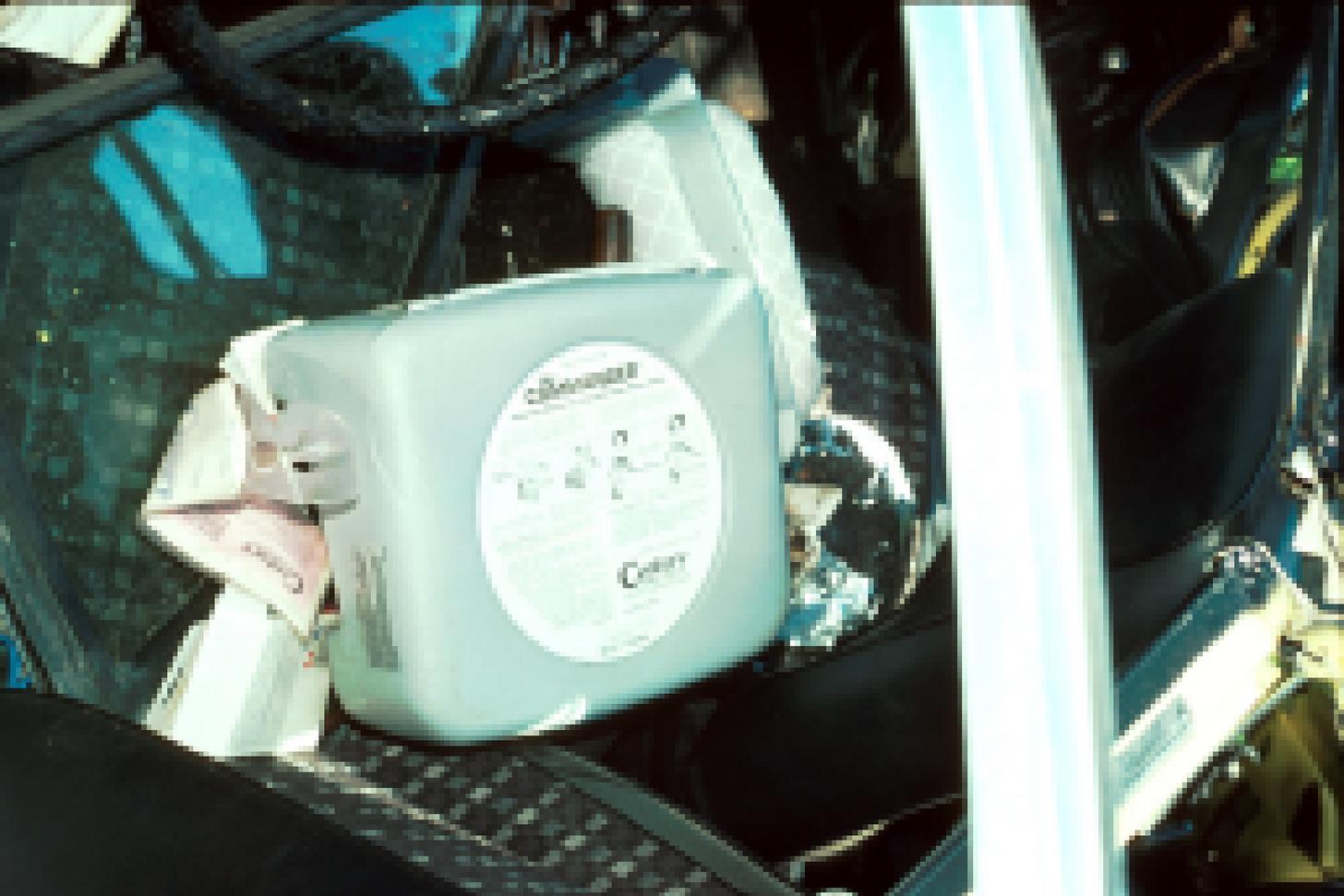
PSU 10-077B (1988) #200



PSU 10-077B (1988) #201



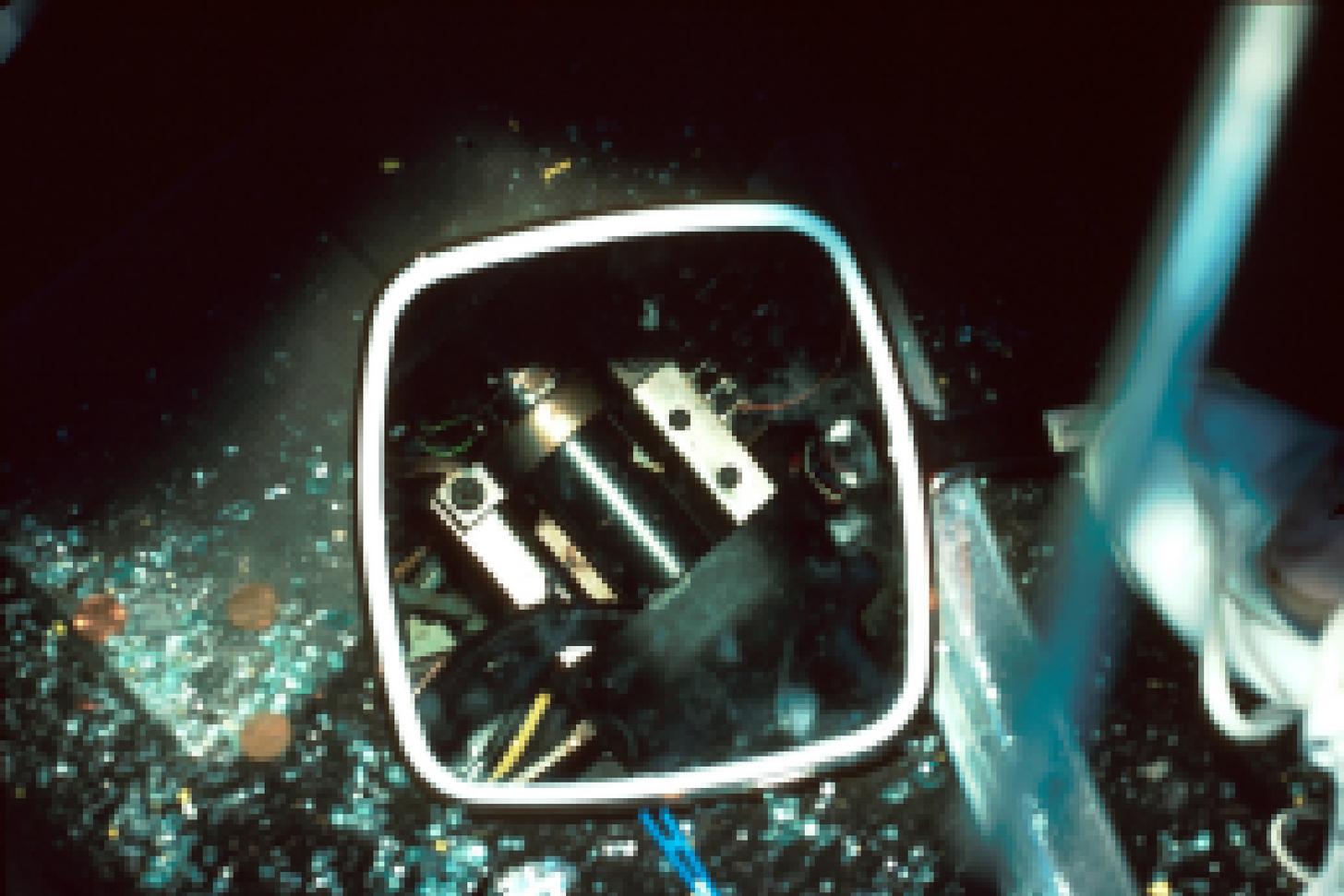
PSU 10-077B (1988) #202



PSU 10-077B (1988) #203



**PSU 10-077B (1988) #204**



PSU 10-077B (1988) #205



PSU 10-077B (1988) #206



PSU 10-077B (1988) #207