



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 13 CASE NO. 248B TYPE OF ACCIDENT car/car/head-on

## 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.)

Vehicle #1 was n.e. bound crossing over a w lane bridge, lost control on ice, rotated ccw and crossed center line striking S.W. bound vehicle #2 nearly head on. Driver of vehicle #1 was completely ejected as back 1/2 of vehicle body was torn from frame. He was not restrained and struck guardrail causing fatal injuries.

## B. VEHICLE PROFILE(S)

Vehicle No.	Class of Vehicle	Year/Make/Model	Most Severe Damage		Component Failure
			Damage Plane	Severity Description	
1	utility vehicle	77 international scout	front	moderate to severe	Back 1/2 of body torn from frame due to excess rust
2	utility veh	82 Toyota land cruiser wagon	front	moderate to 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	L front	none	head	massive trauma	5	guardrail
2	driver	L front	L&S	unknown			

**DO NOT SANITIZE THIS FORM**



# ACCIDENT FORM

1. Primary Sampling Unit Number 13  
2. Case Number - Stratum 248B

## SPECIAL STUDIES - INDICATORS

Check (✓) each special study (SS12-SS16 below) that has been completed; code 1 for the checked special studies and 0 for the special studies not checked.

## IDENTIFICATION

3. Number of General Vehicle Forms Submitted 02  
4. Date of Accident (Month, Day, Year) 1 9 2  
5. Time of Accident 1848  
Code reported military time of accident.  
NOTE: Midnight = 2400  
Unknown = 9999

6. 0 SS12 Not Active  
7. 0 SS13 Not Active  
8. 0 SS14 Fatal AOPS  
9. 0 SS15 \_\_\_\_\_  
10. 0 SS16 \_\_\_\_\_

## NUMBER OF EVENTS

11. Number of Recorded Events in This Accident 03  
~~04~~  
Code the number of events which occurred in this accident.

## ACCIDENT EVENTS

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

Accident Event Sequence Number	Vehicle Number	Class Of Vehicle	General Area of Damage	Vehicle Number or Object Contacted	Class Of Vehicle	General Area of Damage
12. <u>0 1</u>	13. <u>01</u>	14. <u>12</u>	15. <u>F</u>	16. <u>02</u>	17. <u>12</u>	18. <u>F</u>
19. <u>0 2</u>	20. <u>01</u>	21. <u>12</u>	22. <u>R</u>	23. <u>02</u>	24. <u>12</u>	25. <u>L</u>
26. <u>0 3</u>	27. <u>02</u>	28. <u>12</u>	29. <u>R</u>	30. <u>56</u>	31. <u>00</u>	32. <u>0</u>
33. <u>0 4</u>	34. <del>02</del>	35. <u>12</u>	36. <del>R</del>	37. <del>03</del>	38. <del>00</del>	39. <del>0</del>
40. <u>0 5</u>	41. _____	42. _____	43. _____	44. _____	45. _____	46. _____

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

### CODES FOR CLASS OF VEHICLE

- (00) Not a motor vehicle
- (01) Subcompact/mini (wheelbase < 100 inches)
- (02) Compact (wheelbase = 100 – 104 inches)
- (03) Intermediate (wheelbase = 105 – 109 inches)
- (04) Full size (wheelbase = 110 – 114 inches)
- (05) Largest (wheelbase ≥ 115 inches)
- (09) Unknown passenger car size
- (11) Compact utility vehicle
- (12) Large utility vehicle (≤ 10,000 lbs GVWR)
- (13) Passenger van (≤ 10,000 lbs GVWR)
- (14) Other van (≤ 10,000 lbs GVWR)
- (15) Pickup truck (≤ 10,000 lbs GVWR)
- (18) Other truck (≤ 10,000 lbs GVWR)
- (19) Unknown light truck type
- (20) School bus
- (21) Other bus
- (22) Truck (> 10,000 lbs GVWR)
- (23) Tractor without trailer
- (24) Tractor-trailer(s)
- (25) Motored cycle
- (28) Other vehicle
- (99) Unknown

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

#### CDS APPLICABLE AND OTHER VEHICLES

- (O) Not a motor vehicle
- (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back
- (T) Top
- (U) Undercarriage
- (9) Unknown

#### TDC APPLICABLE VEHICLES

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

### CODES FOR VEHICLE NUMBER OR OBJECT CONTACTED

#### (01-30) – Vehicle Number

#### Noncollision

- (31) Overturn – rollover
- (32) Fire or explosion
- (33) Jackknife
- (34) Other intraunit damage (specify):

(35) Noncollision injury

(38) Other noncollision (specify):

(39) Noncollision – details unknown

#### Collision With Fixed Object

- (41) Tree (≤ 4 inches in diameter)
- (42) Tree (> 4 inches in diameter)
- (43) Shrubbery or bush
- (44) Embankment

(45) Breakaway pole or post (any diameter)

#### Nonbreakaway Pole or Post

- (50) Pole or post (≤ 4 inches in diameter)
- (51) Pole or post (> 4 inches but ≤ 12 inches in diameter)
- (52) Pole or post (> 12 inches in diameter)
- (53) Pole or post (diameter unknown)

(54) Concrete traffic barrier

(55) Impact attenuator

(56) Other traffic barrier (includes guardrail) (specify):

(57) Fence

(58) Wall

(59) Building

(60) Ditch or culvert

(61) Ground

(62) Fire hydrant

(63) Curb

(64) Bridge

(68) Other fixed object (specify):

(69) Unknown fixed object

#### Collision with Nonfixed Object

(71) Motor vehicle not in-transport

(72) Pedestrian

(73) Cyclist or cycle

(74) Other nonmotorist or conveyance

(75) Vehicle occupant

(76) Animal

(77) Train

(78) Trailer, disconnected in transport

(88) Other nonfixed object (specify):

(89) Unknown nonfixed object

(98) Other event (specify):

(99) Unknown event or object



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

NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

# ACCIDENT COLLISION DIAGRAM

PSU No. 13

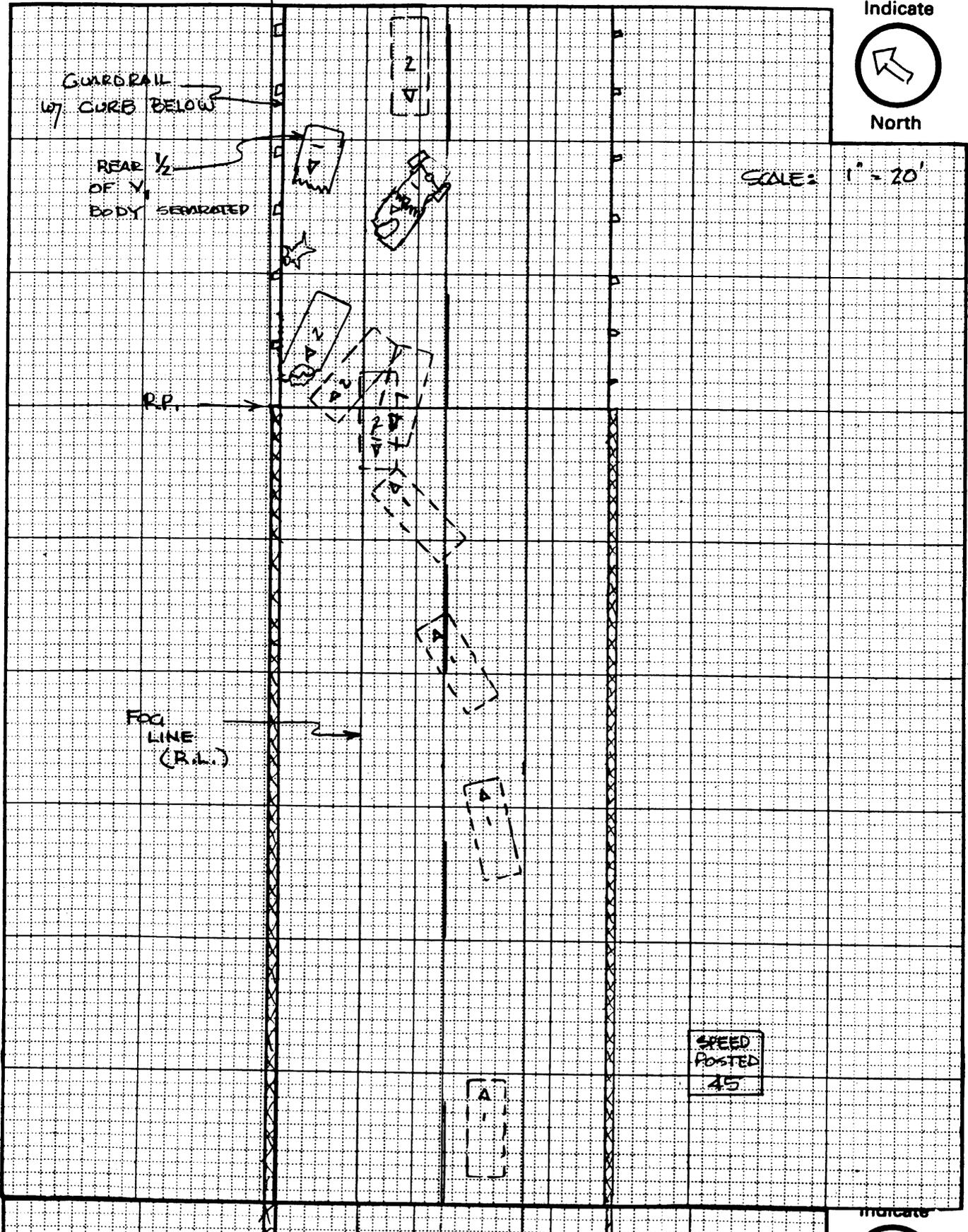
Case Number - Stratum 248B

Indicate



North

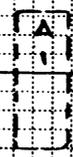
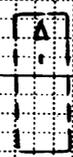
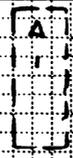
SCALE: 1" = 20'



Indicate

SPEED  
POSTED  
45

2 of 2











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

**OTHER DATA**

## 56. Driver's Zip Code

- (00000) Driver not present  
 (00001) Driver not a resident of U.S. or territories  
 Code actual 5-digit zip code  
 (99999) Unknown

## 57. Driver's Race/Ethnic Origin

- (0) Driver not present  
 (1) White (non-Hispanic)  
 (2) Black (non-Hispanic)  
 (3) White (Hispanic)  
 (4) Black (Hispanic)  
 (5) American Indian, Eskimo or Aleut  
 (6) Asian or Pacific Islander  
 (8) Other (specify):  
 (9) Unknown

## 58. Vehicle Special Use (This Trip)

- (0) No special use  
 (1) Taxi  
 (2) Vehicle used as school bus  
 (3) Vehicle used as other bus  
 (4) Military  
 (5) Police  
 (6) Ambulance  
 (7) Hearse  
 (8) Fire truck or car  
 (9) Unknown

**ROLLOVER DATA**

If GV07 (Body Type)  $\neq$  1-49, leave GV59-GV63 blank.  
 If GV24 (Rollover) = 0, then GV59-GV63 must equal 0.  
 If GV24 = 9, then GV59-GV63 must equal 9.

## 59. Rollover Initiation Type

- (0) No rollover  
 (1) Trip-over  
 (2) Flip-over  
 (3) Turn-over  
 (4) Climb-over  
 (5) Fall-over  
 (6) Bounce-over  
 (7) Collision with another vehicle  
 (8) Other rollover initiation type specify:  
 (9) Unknown rollover initiation type

## 60. Location of Rollover Initiation

- (0) No rollover  
 (1) On roadway  
 (2) On shoulder—paved  
 (3) On shoulder—unpaved  
 (4) On roadside or divided trafficway median  
 (9) Unknown

## 61. Rollover Initiation Object Contacted

## 62. Location on Vehicle Where Initial Principal Tripping Force Is Applied

- (0) No rollover  
 (1) Wheels/tires  
 (2) Side plane  
 (3) End plane  
 (4) Undercarriage  
 (5) Other location on vehicle (specify):  
 (8) Non-contact rollover forces (specify):  
 (9) Unknown

## 63. Direction of Initial Roll

- (0) No rollover  
 (1) Roll right - primarily about the longitudinal axis  
 (2) Roll left - primarily about the longitudinal axis  
 (5) End-over-end (i.e., primarily about the lateral axis)  
 (9) Unknown roll direction

**PRECRASH DATA**

## 64. Pre-Event Movement (Prior to Recognition of Critical Event)

- (01) Going straight  
 (02) Slowing or stopping in traffic lane  
 (03) Starting in traffic lane  
 (04) Stopped in traffic lane  
 (05) Passing or overtaking another vehicle  
 (06) Disabled or parked in travel lane  
 (07) Leaving a parking position  
 (08) Entering a parking position  
 (09) Turning right  
 (10) Turning left  
 (11) Making a U-turn  
 (12) Backing up (other than for parking position)  
 (13) Negotiating a curve  
 (14) Changing lanes  
 (15) Merging  
 (16) Successful avoidance maneuver to a previous critical event  
 (97) Other (specify):  
 (98) No driver present  
 (99) Unknown

## CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

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

**Noncollision**

(31) Turn-over — fall-over  
 (33) Jackknife

**Collision With Fixed Object**

(41) Tree ( $\leq$  4 inches in diameter)  
 (42) Tree ( $>$  4 inches in diameter)  
 (43) Shrubbery or bush  
 (44) Embankment

(45) Breakaway pole or post (any diameter)

**Nonbreakaway Pole or Post**

(50) Pole or post ( $\leq$  4 inches in diameter)  
 (51) Pole or post ( $>$  4 inches but  $\leq$  12 inches in diameter)  
 (52) Pole or post ( $>$  12 inches in diameter)  
 (53) Pole or post (diameter unknown)

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

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

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

**Collision with Nonfixed Object**

(71) Motor vehicle not in-transport  
 (76) Animal  
 (77) Train  
 (78) Trailer, disconnected in transport  
 (88) Other nonfixed object (specify):

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

(98) Other event (specify):

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



# EXTERIOR VEHICLE FORM

1. Primary Sampling Unit Number <u>13</u>	3. Vehicle Number <u>01</u>
2. Case Number - Stratum <u>248B</u>	

## VEHICLE IDENTIFICATION

VIN G0052GCD403 XXXXXXXXXX Model Year 77

Vehicle Make (specify): INTERNATIONAL Vehicle Model (specify): SCOUT

## 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	20" R. of LF corn to RF	whole front

## 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.

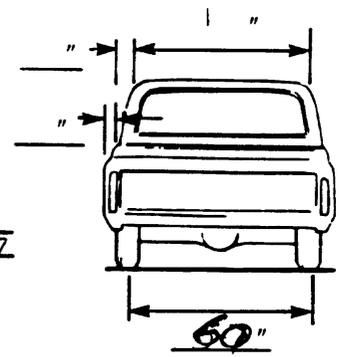
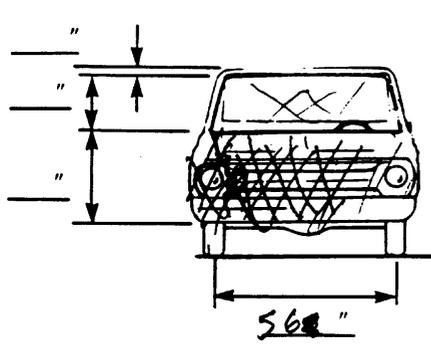
Free space value is defined as the distance between the baseline and the original body contour taken at the individual C locations. This may include the following: bumper lead, bumper taper, side protrusion, side taper, etc. Record the value for each C-measurement and maximum crush.

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

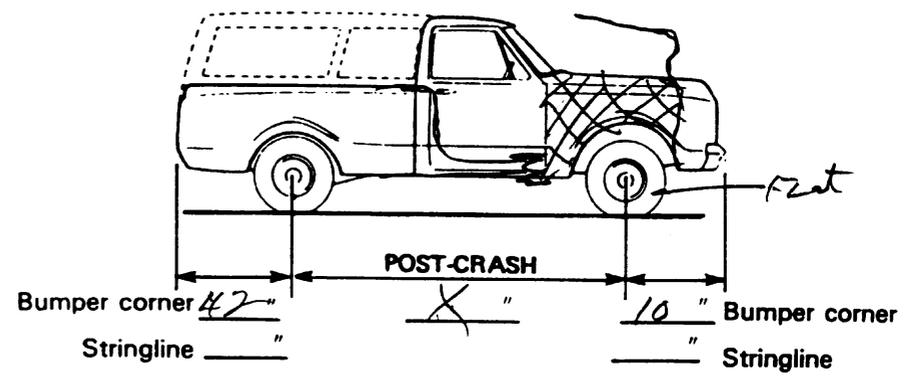
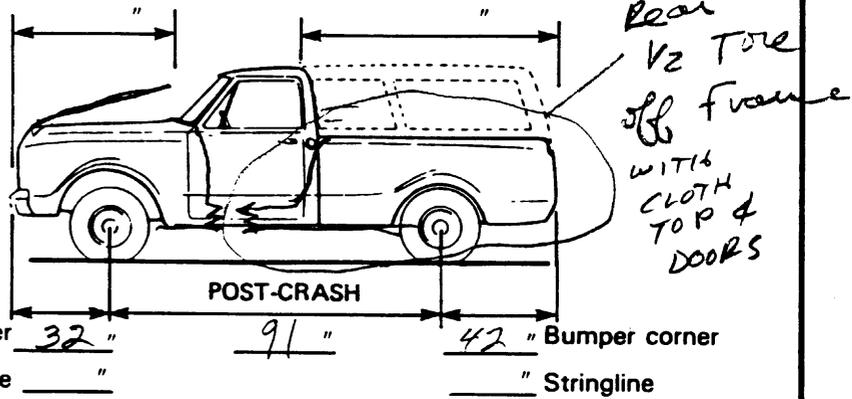
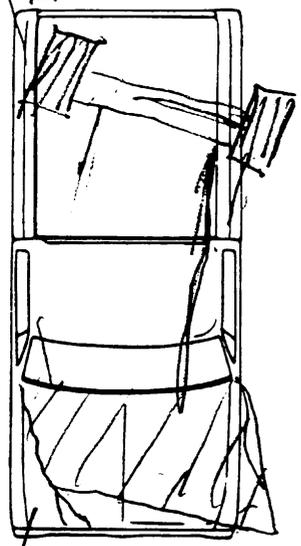
Specific Impact Number	Plane of Impact C-Measurements	Direct Damage		Field L	C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	C <sub>6</sub>	±D
		Width (CDC)	Max Crush								
		46		66							

**VEHICLE DAMAGE SKETCH**

<b>TIRE – WHEEL DAMAGE</b> a. Rotation physically restricted RF <u>2</u> LF <u>2</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>2</u> RR <u>2</u> LR <u>2</u>		<b>ORIGINAL SPECIFICATIONS</b> Wheelbase <u>100</u> Overall Length <u>166.7</u> Maximum Width <u>70</u> Curb Weight <u>3691</u> Average Track <u>57.1</u> Front Overhang <u>24</u> Rear Overhang <u>42.2</u> Engine Size: cyl./ displ. <u>8-304</u> Undeformed End Width <u>66</u>		<b>WHEEL STEER ANGLES</b> (For locked front wheels or displaced rear axles only) RF ± <u>    </u> ° LF ± <u>    </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 type="checkbox"/> RWD <input checked="" type="checkbox"/> 4WD		Approximate Cargo Weight <u>    </u>	



CLOTH TOP & DOORS TORE OFF WITH BODY FROM BASE OF "A" PILLAR BACK



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





# INTERIOR VEHICLE FORM

1. Primary Sampling Unit Number 13  
2. Case Number - Stratum 248B  
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 (back door)
- (04) Roof
- (05) Roof glass
- (06) Side window
- (07) Rear window (backlight)
- (08) Roof and roof glass
- (09) Windshield and door (side)
- (10) Windshield and roof
- (11) Side and rear window (side window and backlight)
- (12) Windshield and side window
- (13) Door and side window
- (98) Other combination of above (specify):  
WHOLE BODY TORE OFF FRAME
- (99) Unknown FROM "A" PILLAR BACK

Door, Tailgate or Hatch Opening 2  
5. LF X 6. RF X 7. LR 0 8. RR 0 9. TG/H X

- (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):  
ALL CAME OFF WITH RAG
- (9) Unknown TOP

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

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

- (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):  
CRACKS DOORS
- (9) Unknown

## GLAZING

Glazing Damage from Impact Forces 9 9  
15. WS 2 16. LF X 17. RF X 18. LR X 19. RR X  
20. BL X 21. Roof 8 22. Other 8

- (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 IV31 Through IV46 As 0

Type of Window/Windshield Glazing

31. WS X 32. LF X 33. RF 4 34. LR 4 35. RR 4  
36. BL 4 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 Precrash Glazing Status

39. WS / 40. LF 0 41. RF / 42. LR / 43. RR /  
44. BL / 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

2nd Review:

1st Review: 15

MASS CODING CHANGE

2nd Review:

1st Review: 12

MASS CODING CHANGE

2nd Review:

1st Review: 15

MASS CODING CHANGE

2nd Review:

1st Review: 15

MASS CODING CHANGE

2nd Review:

1st Review: 12

MASS CODING CHANGE



**OCCUPANT AREA INTRUSION**

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

**INTRUDING COMPONENT**

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

*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 (side)
- (12) Roof (or convertible top)
- (13) Roof side rail
- (14) Windshield
- (15) Windshield header
- (16) Window frame
- (17) Floor pan (includes sill)
- (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 door/panel (e.g., tailgate)
- (26) Other interior component (specify): \_\_\_\_\_

- (27) Side panel - forward of the A-pillar
- (28) Side panel - rear of the A-pillar

*Exterior Components*

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

**LOCATION OF INTRUSION****Front Seat**

- (11) Left
- (12) Middle
- (13) Right

**Fourth Seat**

- (41) Left
- (42) Middle
- (43) Right

**Second Seat**

- (21) Left
- (22) Middle
- (23) Right

- (97) Catastrophic
- (98) Other enclosed area (specify) \_\_\_\_\_

(99) Unknown

**Third Seat**

- (31) Left
- (32) Middle
- (33) Right

**MAGNITUDE OF INTRUSION**

- (1)  $\geq 1$  inch but  $< 3$  inches
- (2)  $\geq 3$  inches but  $< 6$  inches
- (3)  $\geq 6$  inches but  $< 12$  inches
- (4)  $\geq 12$  inches but  $< 18$  inches
- (5)  $\geq 18$  inches but  $< 24$  inches
- (6)  $\geq 24$  inches
- (7) Catastrophic
- (9) Unknown

**DOMINANT CRUSH DIRECTION**

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

# STEERING RIM/SPOKE DEFORMATION

COMPARISON VALUE

-

DAMAGE VALUE

=

DEFORMATION

-

=

-

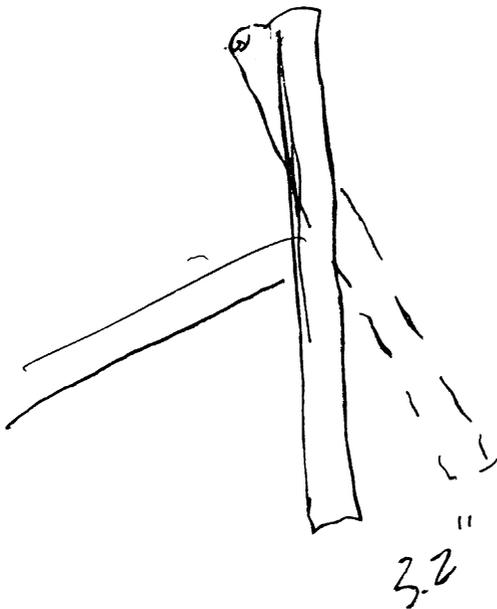
=

-

=

-

=



**STEERING COLUMN**

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

88. Blank X X  
 (This variable is left blank so that numbering consistency can be maintained with the 1988-91 CDS.)

89. Blank X X X  
 (This variable is left blank so that numbering consistency can be maintained with the 1988-91 CDS.)

90. Blank X X X  
 (This variable is left blank so that numbering consistency can be maintained with the 1988-91 CDS.)

91. Blank X X X  
 (This variable is left blank so that numbering consistency can be maintained with the 1988-91 CDS.)

92. Steering Rim/Spoke Deformation 3  
 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  
 Deformation ~~06~~  
 (00) No steering rim deformation

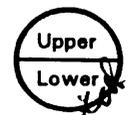
*Quarter Sections*

- (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 130,000  
30025  
 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: ODOM - & Personal Knowledge

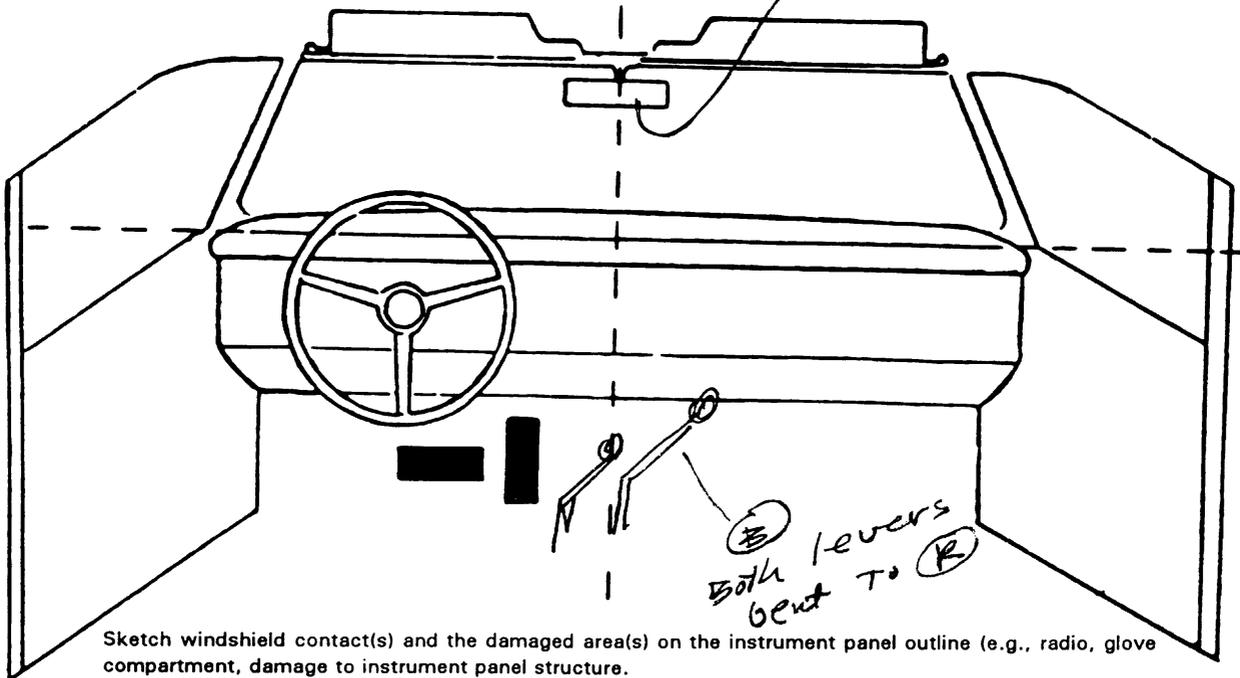
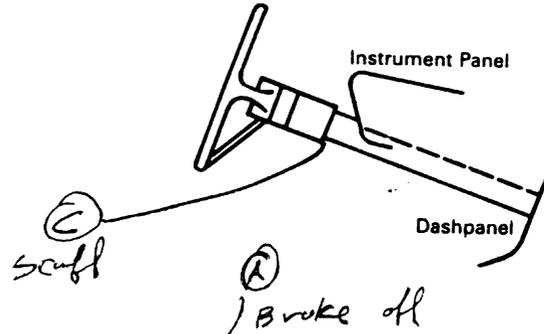
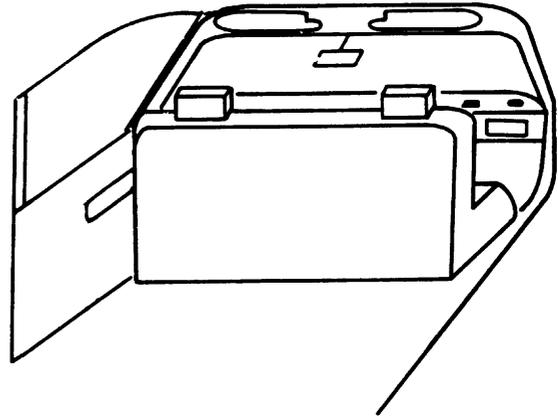
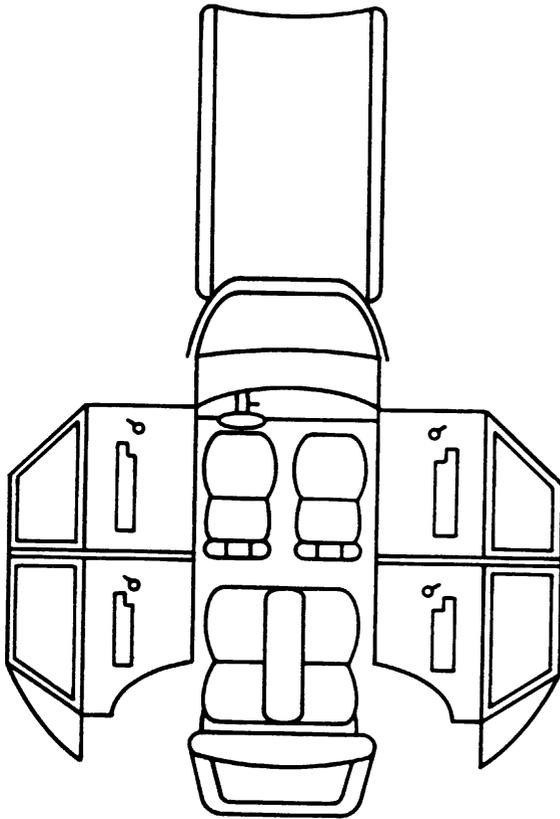
95. Instrument Panel Damage from Occupant Contact? 0  
 (0) No  
 (1) Yes  
 (9) Unknown

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

VEHICLE INTERIOR SKETCHES

Note area of ejection/entrapment



Sketch windshield contact(s) and the damaged area(s) on the instrument panel outline (e.g., radio, glove compartment, damage to instrument panel structure).  
Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.  
Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

**POINTS OF OCCUPANT CONTACT**

Contact	Interior Component Contacted	Occupant No. If Known	Body Region If Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	02	1		broke OFF	2
B	57	1	Leys?	LEVERS BENT TO RIGHT	1
C	07	1	L Knee	Scuff under column	1
D					
E					
F					
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**

- (28) Left side window sill
- (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): \_\_\_\_\_
- (38) Right side window sill

**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 bag
- (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
- (9) Unknown

## AUTOMATIC RESTRAINTS

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

### AIR BAGS

		Left	Right
<b>F I R S T</b>	Availability/Function	0	0
	Deployment	0	0
	Failure	0	0

<p><b>Air Bag System Availability/Function</b></p> <p>(0) Not equipped/not available (1) Air bag</p> <p><i>Non-functional</i></p> <p>(2) Air bag disconnected (specify): _____</p> <p>(3) Air bag not reinstalled _____</p> <p>(9) Unknown</p>	<p><b>Air Bag System Deployment</b></p> <p>(0) Not equipped/not available (1) Air bag deployed during accident (as a result of impact) (2) Air bag deployed inadvertently just prior to accident (3) Air bag deployed, accident sequence undetermined (4) Nondeployed (5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (9) Unknown</p>	<p><b>Did Air Bag System Fail?</b></p> <p>(0) Not equipped/not available (1) No (2) Yes (specify): _____ (9) Unknown</p>
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### AUTOMATIC BELTS

		Left	Right
<b>F I R S T</b>	Availability/Function	0	0
	Use	0	0
	Type	0	0
	Proper Use	0	0
	Failure Modes	0	0

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

**MANUAL RESTRAINTS**

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

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

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

		Left	Center	Right
FIRST	Availability	3	0	3
	Use	00	00	00
	Failure Modes	0	0	0
SECOND	Availability	0	0	0
	Use	00	00	00
	Failure Modes	0	0	0
THIRD	Availability	0	0	0
	Use	00	00	00
	Failure Modes	0	0	0
OTHER	Availability	0	0	0
	Use	00	00	00
	Failure Modes	0	0	0

**Manual (Active) Belt System Availability**

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

*Integral Belt Partially Destroyed*

- (6) Shoulder belt (lap belt destroyed/removed)
- (7) Lap belt (shoulder belt destroyed/removed)

(8) Other belt (specify): \_\_\_\_\_

(9) Unknown

**Manual (Active) Belt System Use**

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperable (specify): \_\_\_\_\_
- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used - type unknown

(08) Other belt used (specify): \_\_\_\_\_

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

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

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

## CHILD SAFETY SEAT FIELD ASSESSMENT

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

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

- 1. Type of Child Safety Seat**  
 (0) No child safety seat  
 (1) Infant seat  
 (2) Toddler seat  
 (3) Convertible seat  
 (4) Booster seat  
 (7) Other type child safety seat (specify):  
 \_\_\_\_\_  
 (8) Unknown child safety seat type  
 (9) Unknown if child safety seat used
- 2. Child Safety Seat Orientation**  
 (00) No child safety seat  
 Designed for Rear Facing for This Age/Weight  
 (01) Rear facing  
 (02) Forward facing  
 (08) Other orientation (specify):  
 \_\_\_\_\_  
 (09) Unknown orientation  
 Designed for Forward Facing for This Age/Weight  
 (11) Rear facing  
 (12) Forward facing  
 (18) Other orientation (specify):  
 \_\_\_\_\_  
 (19) Unknown orientation  
 Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight  
 (21) Rear facing  
 (22) Forward facing  
 (28) Other orientation (specify):  
 \_\_\_\_\_  
 (29) Unknown orientation  
 (99) Unknown if child safety seat used

- 3. Child Safety Seat Harness Usage**
- 4. Child Safety Seat Shield Usage**
- 5. Child Safety Seat Tether Usage**  
 Note: Options Below Are Used for Variables 3-5.  
 (00) No child safety seat  
 Not Designed with Harness/Shield/Tether  
 (01) After market harness/shield/tether added, not used  
 (02) After market harness/shield/tether used  
 (03) Child safety seat used, but no after market harness/shield/tether added  
 (09) Unknown if harness/shield/tether added or used  
 Designed With Harness/Shield/Tether  
 (11) Harness/shield/tether not used  
 (12) Harness/shield/tether used  
 (19) Unknown if harness/shield/tether used  
 Unknown If Designed With Harness/Shield/Tether  
 (21) Harness/shield/tether not used  
 (22) Harness/shield/tether used  
 (29) Unknown if harness/shield/tether used  
 (99) Unknown if child safety seat used
- 6. Child Safety Seat Make/Model**  
 (Specify make/model and occupant number)  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**HEAD RESTRAINTS/SEAT EVALUATION**

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

		Left	Center	Right
FIRST	Head Restraint Type/Damage	1	0	1
	Seat Type	01	<del>00</del>	01
	Seat Performance	8	0	8
	Seat Orientation	1	0	1
SECOND	Head Restraint Type/Damage	0	0	0
	Seat Type	03	03	03
	Seat Performance	<del>0</del>	<del>0</del>	<del>0</del>
	Seat Orientation	1	1	1
THIRD	Head Restraint Type/Damage	0	0	0
	Seat Type	<del>00</del>	<del>00</del>	<del>00</del>
	Seat Performance	0	0	0
	Seat Orientation	0	0	0
OTHER	Head Restraint Type/Damage	0	0	0
	Seat Type	<del>00</del>	<del>00</del>	<del>00</del>
	Seat Performance	0	0	0
	Seat Orientation	0	0	0

**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) No seat
- (01) Bucket
- (02) Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions
- (05) Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., column supported)
- (09) Other seat type (specify): \_\_\_\_\_
- (10) Box mounted seat (i.e., van type)
- (99) Unknown

**Seat Performance (this Occupant Position)**

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

**Seat Orientation (this Occupant Position)**

- (0) No seat
- (1) Forward facing seat
- (2) Rear facing seat
- (3) Side facing seat (inward)
- (4) Side facing seat (outward)
- (8) Other (specify): \_\_\_\_\_
- (9) Unknown

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

**EJECTION/ENTRAPMENT DATA**

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

EJECTION No [ ] Yes [X]

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

DRIVER WAS EJECTED OUT R F DOOR -  
(THIS VEH. HAD A CLOTH TOP & DOORS WHICH SEPARATED WITH REAR 1/2 OF VEH. BODY)

Occupant Number	1					
Ejection	1					
(Note on Vehicle Interior Sketch) Ejection Area	3					
Ejection Medium	1					
Medium Status	2					

**Ejection**

- (1) Complete ejection
- (1) 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 [X] Yes [ ]

Describe entrapment mechanism: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

(Note in vehicle interior diagram)

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

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

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

31. Child Safety Seat Harness Usage 00
32. Child Safety Seat Shield Usage 00
33. Child Safety Seat Tether Usage 00
- Note: Options below applicable to Variables OA31-OA33.
- (00) No child safety seat

**CHILD SAFETY SEAT**

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

29. Type of Child Safety Seat 0
- (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

- 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

PSU NUMBER	<u>13</u>
CASE NUMBER	<u>2483</u>
VEHICLE NUMBER	<u>01</u>
OCCUPANT NUMBER	<u>01</u>

# OCCUPANT INJURY FORM

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

ENTIRE FORM

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



# UPDATE FORM

1. Primary Sampling Unit Number	<u>13</u>	Driver or Occupant Name: <u>[REDACTED]</u>
2. Case Number - Stratum	<u>248B</u>	Address: _____
3. Vehicle Number	<u>01</u>	_____
4. Occupant Number	<u>01</u>	Other Information: <u>Need autopsy</u>

1993  
AUT

(Sanitize this section prior to Update submission.)

## UPDATED CASE INFORMATION

	INITIAL SUBMISSION	UPDATED INFORMATION		INITIAL SUBMISSION	UPDATED INFORMATION
GV12. Alcohol Test Result Result for Driver	<u>96</u>	<u>22</u>	OA21. Air Bag System Availability/Function	<u>0</u>	<u>0</u>
GV39. Other Drug Specimen Test Type for Driver	<u>0</u>	<u>0</u>	OA22. Air Bag System Deployment	<u>0</u>	<u>0</u>
GV40.-GV41. Narcotic Drug	<u>0</u>	<u>00</u>	OA35. Treatment - Mortality	<u>1</u>	<u>1</u>
GV42.-GV43. Depressant Drug	<u>0</u>	<u>00</u>	OA36. Type of Medical Facility (for Initial Treatment)	<u>2</u>	<u>2</u>
GV44.-GV45. Stimulant Drug	<u>0</u>	<u>00</u>	OA37. Hospital Stay	<u>00</u>	<u>00</u>
GV46.-GV47. Hallucinogen Drug	<u>0</u>	<u>00</u>	OA38. Working Days Lost	<u>62</u>	<u>62</u>
GV48.-GV49. Cannabinoid Drug	<u>0</u>	<u>00</u>	OA39. Time to Death	<u>12</u>	<u>12</u>
GV50.-GV51. Phencyclidine (PCP)	<u>0</u>	<u>00</u>	OA40. 1st Medically Reported Cause of Death	<u>01</u>	<u>01</u>
GV52.-GV53. Inhalant Drug	<u>0</u>	<u>00</u>	OA41. 2nd Medically Reported Cause of Death	<u>00</u>	<u>05</u>
GV54.-GV55. Other Drug (Excluding Nicotine, Aspirin, Alcohol, Drugs Administered Post-Crash)	<u>0</u>	<u>00</u>	OA42. 3rd Medically Reported Cause of Death	<u>00</u>	<u>00</u>
GV56. Driver's Zip Code	<u>[REDACTED]</u>	<u>[REDACTED]</u>	OA43. Number of Recorded Injuries for This Occupant	<u>03</u>	<u>19</u>
GV57. Driver's Race/Ethnic Origin	<u>1</u>	<u>1</u>	OA44. Automatic (Passive) Belt System Availability/Function	<u>0</u>	<u>0</u>
OA05. Occupant's Age	<u>57</u>	<u>57</u>	OA45. Automatic (Passive) Belt System Use	<u>0</u>	<u>0</u>
OA06. Occupant's Sex	<u>1</u>	<u>1</u>	OA50. Glasgow Coma Scale (GCS) Score	<u>02</u>	<u>02</u>
OA07. Occupant's Height	<u>70</u>	<u>70</u>	OA51. Was the Occupant Given Blood?	<u>1</u>	<u>1</u>
OA08. Occupant's Weight	<u>190</u>	<u>180</u>	OA52. Arterial Blood Gases (ABG) - HCO <sub>3</sub>	<u>01</u>	<u>01</u>
OA17. Manual (Active) Belt System Availability	<u>3</u>	<u>3</u>	_____	_____	_____
OA18. Manual (Active) Belt System Use	<u>00</u>	<u>00</u>	_____	_____	_____

## STATUS OF LOG INJURY INFORMATION

	INITIAL SUBMISSION	UPDATED INFORMATION		INITIAL SUBMISSION	UPDATED INFORMATION
<b>OAL12. Injury Treatment Status</b>	<u>3</u>	<u>3</u>			
<b>OAL13. Injury Information</b>					
<b>Official</b>					
a. Autopsy (invasive examination)	<u>B</u> _____	_____ <u>11</u>			
b. Post-ER medical record which includes information about death based on non-invasive examination	<u>B</u> _____	_____ <u>11</u>			
c. Admission record/summary or admission/discharge face sheet	<u>B</u> _____	_____ <u>11</u>			
d. Discharge summary	<u>B</u> _____	_____ <u>11</u>			
e. Operative report	<u>B</u> _____	_____ <u>11</u>			
f. Radiographic record(s) post ER visit	<u>B</u> _____	_____ <u>11</u>			
g. History and physical examination and/or consultation records	<u>B</u> _____	_____ <u>11</u>			
h. Emergency room records	<u>B</u> _____	_____ <u>11</u>			
i. Radiographic record(s) associated with ER visit	<u>B</u> _____	_____ <u>11</u>			
j. Private physician	<u>B</u> _____	_____ <u>11</u>			
<b>Unofficial</b>					
k. Lay coroner	<u>B</u> _____	_____ <u>11</u>			
l. EMS record	<u>B</u> _____	_____ <u>11</u>			
m. Interviewee	<u>B</u> _____	_____ <u>11</u>			
n. Other source (specify):	<u>B</u> _____	<u>B</u> _____			
o. Police report	<u>B</u> _____	<u>B</u> _____			
<b>OAL14. Medical Facility Code</b>				<u>02</u>	<u>02</u>
<b>OIL07. Date Official Medical Data Obtained</b>				<u>1/19/92</u>	<u>1/19/92</u>

## INJURY DATA CODED ON INITIAL SUBMISSION

	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>H</u>	7. <u>W</u>	8. <u>K</u>	9. <u>B</u>	10. <u>5</u>	11. <u>85</u>	12. <u>1</u>	13. <u>1</u>	14. <u>00</u>
2nd	15. <u>3</u>	16. <u>H</u>	17. <u>S</u>	18. <u>L</u>	19. <u>I</u>	20. <u>1</u>	21. <u>85</u>	22. <u>1</u>	23. <u>1</u>	24. <u>00</u>
3rd	25. <u>7</u>	26. <u>F</u>	27. <u>W</u>	28. <u>C</u>	29. <u>I</u>	30. <u>1</u>	31. <u>85</u>	32. <u>2</u>	33. <u>1</u>	34. <u>00</u>
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. ___

Note: Keep a photocopy of the following original submitted pages when applicable: Exterior Vehicle Form pages 2, 3, 4; Interior Vehicle Form pages 1-reverse, 2, 4, 5; Occupant Injury Form pages 2, 3, 3-reverse; Interview Form pages 3, 4, 5.

INJURY DATA

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

Source of Injury Data	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>H</u>	7. <u>I</u>	8. <u>F</u>	9. <u>S</u>	10. <u>3</u>	11. <u>85</u> GUARDRAIL	12. <u>1</u>	13. <u>1</u>	14. <u>00</u>
2nd - 15. <u>1</u>	16. <u>H</u>	17. <u>L</u>	18. <u>L</u>	19. <u>B</u>	20. <u>4</u>	21. <u>85</u>	22. <u>1</u>	23. <u>1</u>	24. <u>00</u>
3rd - 25. <u>1</u>	26. <u>C</u>	27. <u>B</u>	28. <u>F</u>	29. <u>S</u>	30. <u>3</u> <del>4</del>	31. <u>85</u>	32. <u>X</u>	33. <u>1</u>	34. <u>00</u>
4th - 35. <u>1</u>	36. <u>C</u>	37. <u>L</u>	38. <u>L</u>	39. <u>P</u>	40. <u>2</u>	41. <u>85</u> <del>92</del> RIB	42. <u>X</u>	43. <u>2</u> <del>1</del>	44. <u>00</u>
5th - 45. <u>1</u>	46. <u>N</u>	47. <u>P</u>	48. <u>F</u>	49. <u>S</u>	50. <u>2</u>	51. <u>85</u> GUARDRAIL	52. <u>1</u>	53. <u>X</u>	54. <u>00</u>
6th - 55. <u>1</u>	56. <u>F</u>	57. <u>W</u> <del>A</del>	58. <u>L</u>	59. <u>I</u>	60. <u>2</u>	61. <u>85</u>	62. <u>X</u>	63. <u>1</u>	64. <u>00</u>
7th - 65. <u>1</u>	66. <u>F</u>	67. <u>S</u> <del>A</del>	68. <u>C</u>	69. <u>I</u>	70. <u>1</u>	71. <u>85</u>	72. <u>X</u>	73. <u>1</u>	74. <u>00</u>
8th - 75. <u>1</u>	76. <u>F</u>	77. <u>S</u> <del>A</del>	78. <u>A</u>	79. <u>I</u>	80. <u>1</u>	81. <u>85</u>	82. <u>X</u>	83. <u>1</u>	84. <u>00</u>
9th - 85. <u>L</u>	86. <u>F</u>	87. <u>L</u>	88. <u>C</u>	89. <u>O</u>	90. <u>1</u>	91. <u>85</u>	92. <u>X</u>	93. <u>1</u>	94. <u>00</u>
10th - 95. <u>L</u>	96. <u>F</u>	97. <u>R</u>	98. <u>C</u>	99. <u>O</u>	100. <u>1</u>	101. <u>85</u>	102. <u>X</u>	103. <u>1</u>	104. <u>00</u>

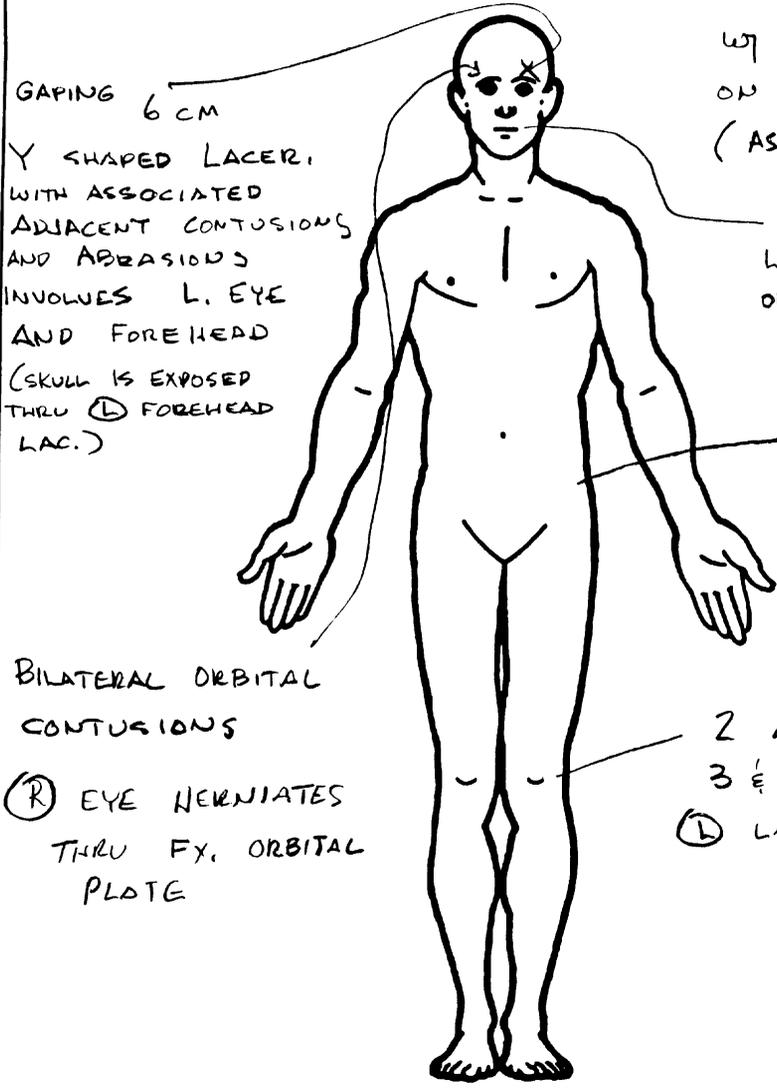
If greater than 10 injuries, continue on reverse side. If greater than 25 injuries, code additional on Occupant Injury Data Supplement.



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.)

ALL DATA FROM AUTOPSY

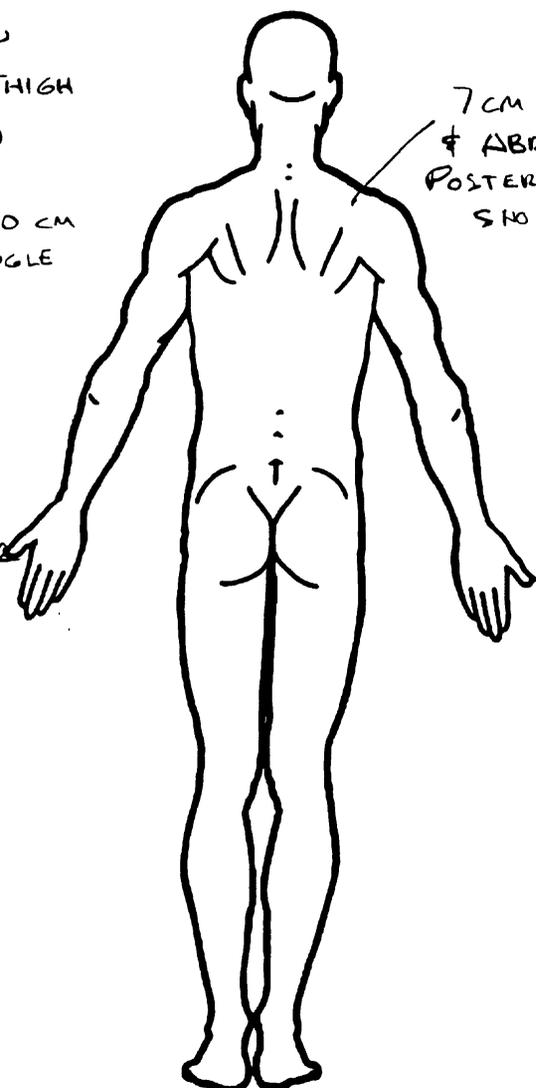


2 CM CONTUSION W/ CENTRAL ABRASION ON ANTERIOR MID THIGH (ASPECT UNSPECIFIED)

NUMEROUS 1.5-3.0 CM LAC. INVOLVE (L) ANGLE OF MOUTH AND LIP

2 CM. CONT. ON (L) SIDE OF ABDOMEN IN AREA OF ANTERIOR ILIAC CREST

2 ABRASIONS 3 & 4 CM ON (L) LAT. KNEE



7 CM CONTUS. & ABRASION ON POSTERIOR (R) SHOULDER

**SOURCE OF INJURY DATA**

**OFFICIAL**

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

**UNOFFICIAL**

- (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): \_\_\_\_\_
- (28) Left side window sill

**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): \_\_\_\_\_
- (38) Right side window sill

**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 bag
- (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): \_\_\_\_\_

**REAR SURFACE**

- (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): \_\_\_\_\_
- (93) Air bag exhaust gases
- (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

**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

**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 limbs(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
- (B) Bilateral (rib fracture only)
- (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
- (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

Restrained?

No

Yes

Blood Alcohol Level (mg/dl)

BAL = 219

Glasgow Coma Scale Score

GCSS =     

Units of Blood Given

Units =     

Arterial Blood Gases

pH =     

PO<sub>2</sub> =     

PCO<sub>2</sub> =     

HCO<sub>3</sub> =     

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.)

Both orbital plates and the cribriform plate are fractured; fragmented brain tissue is present within the frontal + sphenoidal sinuses.

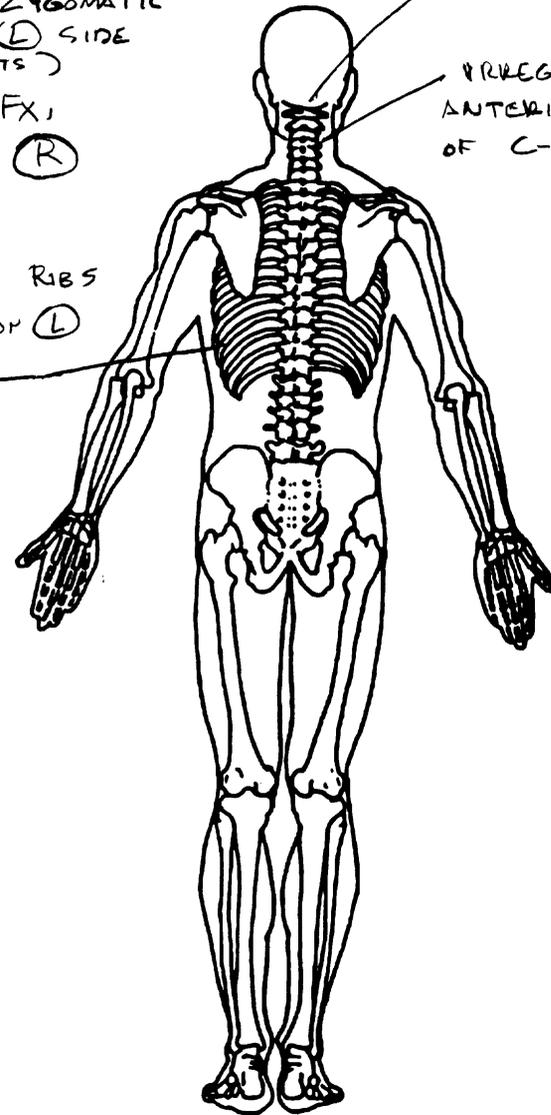
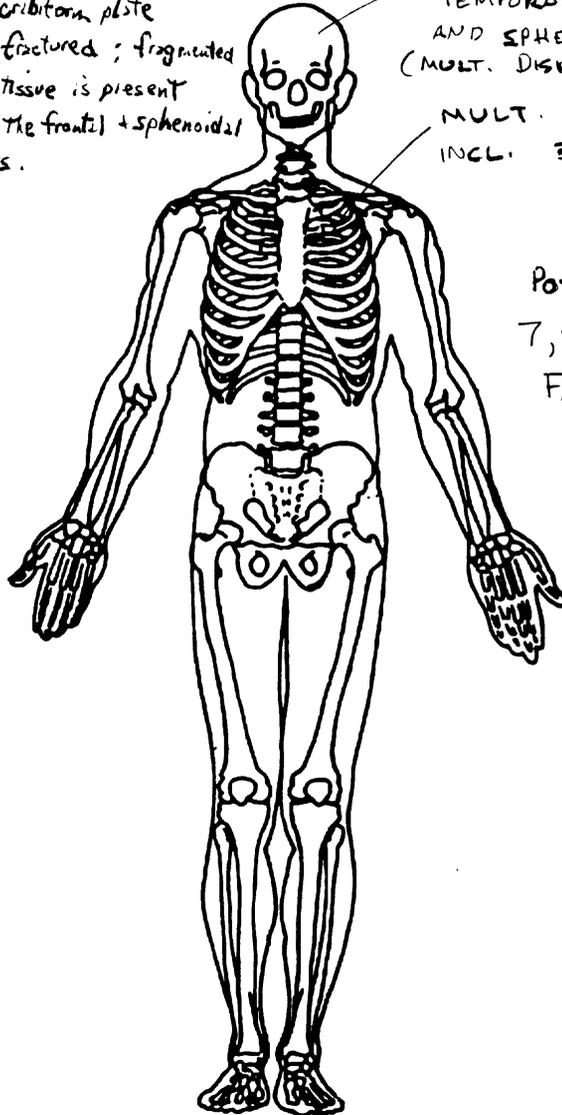
SKULL FX. INVOLV. FRONTAL TEMPORAL, PARIETAL, ZYGOMATIC AND SPHENOID BONES (L) SIDE (MULT. DISPLACED FRAGMENTS)

MULT. ACUTE RIB FX, INCL. 3, 4 & 5 ON (R)

POSTEROLATERAL RIBS 7, 8, 9 & 10 OF (L) FX.

Fx. SELLA TURCICA

IRREGULAR ANTERIOR FX. OF C-3 OR C-4



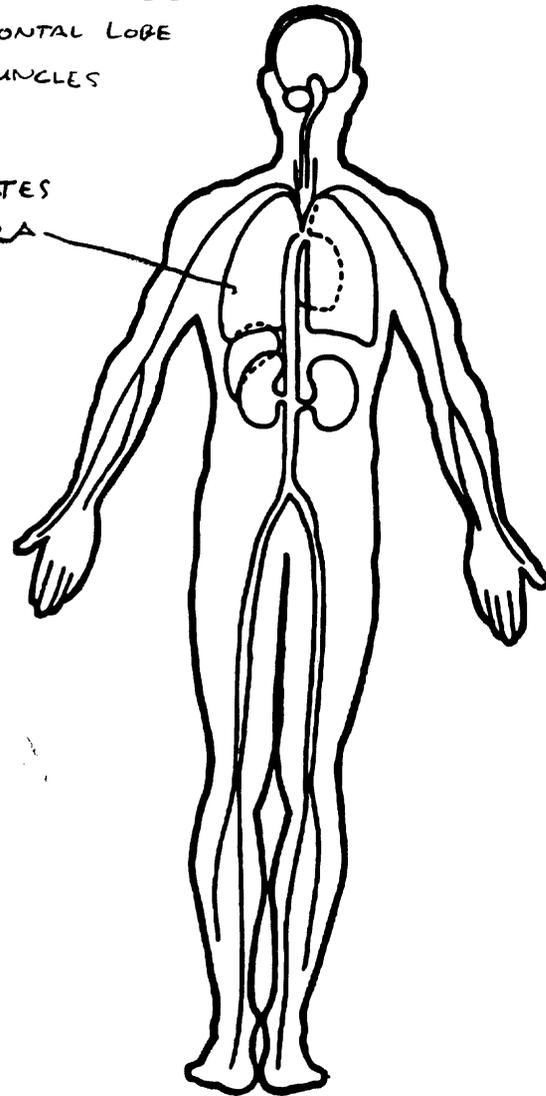
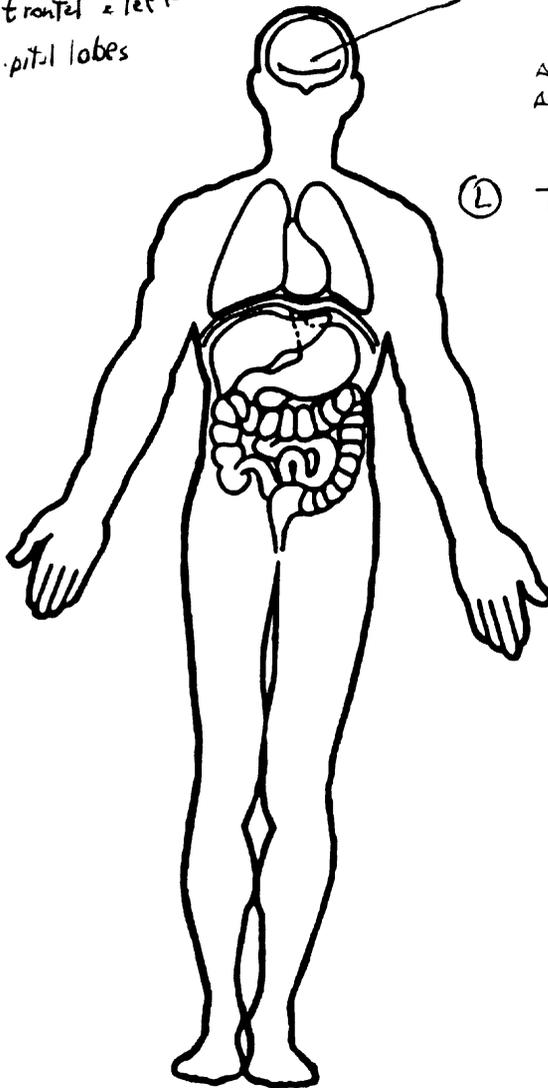
# OFFICIAL INJURY DATA — INTERNAL INJURIES

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.)

subarachnoid hemorrhage  
in frontal & left  
occipital lobes

LACERATED BRAIN  
MOST PROMINANT IN INFERIOR  
ASPECT OF (L) FRONTAL LOBE  
ALSO CEREBRAL PEDUNCLES  
ARE LACERATED

(L) 7<sup>TH</sup> RIB PENETRATES  
PARIETAL PLEURA



**OCCUPANT RELATED**

16. Driver Presence in Vehicle 1  
 (0) Driver not present  
 (1) Driver present  
 (9) Unknown
17. Number of Occupants This Vehicle 01  
 (00-96) Code actual number of occupants for this vehicle  
 (97) 97 or more  
 (99) Unknown
18. Number of Occupant Forms Submitted 01

24. Rollover 0  
 (0) No rollover (no overturning)
- Rollover (primarily about the longitudinal axis)*  
 (1) Rollover, 1 quarter turn only  
 (2) Rollover, 2 quarter turns  
 (3) Rollover, 3 quarter turns  
 (4) Rollover, 4 or more quarter turns (specify):  
 \_\_\_\_\_
- (5) Rollover--end-over-end (i.e., primarily about the lateral axis)  
 (9) Rollover (overturn), details unknown

**VEHICLE WEIGHT ITEMS**

19. Vehicle Curb Weight 04000  
4010 Code weight to nearest 100 pounds.  
 (010) Less than 1050 pounds  
 (135) 13,500 pounds or more  
 (999) Unknown
- Source: \_\_\_\_\_
20. Vehicle Cargo Weight 0100  
100 Code weight to nearest 100 pounds.  
 (00) Less than 50 pounds  
 (97) 9,650 pounds or more  
 (99) Unknown

**OVERRIDE/UNDERRIDE (THIS VEHICLE)**

25. Front Override/Underride (this Vehicle) 4 ~~0~~
26. Rear Override/Underride (this Vehicle) 0
- (0) No override/underride, or not an end-to-end impact
- Override (see specific CDC)*  
 (1) 1st CDC  
 (2) 2nd CDC  
 (3) Other not automated CDC (specify):  
 \_\_\_\_\_
- Underride (see specific CDC)*  
 (4) 1st CDC  
 (5) 2nd CDC  
 (6) Other not automated CDC (specify):  
 \_\_\_\_\_
- (7) Medium/heavy truck or bus override  
 (9) Unknown

**RECONSTRUCTION DATA**

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

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

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

27. Heading Angle For This Vehicle 230
28. Heading Angle For Other Vehicle 000

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

**OTHER DATA**

56. Driver's Zip Code

- (00000) Driver not present
- (00001) Driver not a resident of U.S. or territories
- Code actual 5-digit zip code
- (99999) Unknown

57. Driver's Race/Ethnic Origin

- (0) Driver not present
- (1) White (non-Hispanic)
- (2) Black (non-Hispanic)
- (3) White (Hispanic)
- (4) Black (Hispanic)
- (5) American Indian, Eskimo or Aleut
- (6) Asian or Pacific Islander
- (8) Other (specify):
- (9) Unknown

9

58. Vehicle Special Use (This Trip)

- (0) No special use
- (1) Taxi
- (2) Vehicle used as school bus
- (3) Vehicle used as other bus
- (4) Military
- (5) Police
- (6) Ambulance
- (7) Hearse
- (8) Fire truck or car
- (9) Unknown

0

**ROLLOVER DATA**

If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank.  
If GV24 (Rollover) = 0, then GV59-GV63 must equal 0.  
If GV24 = 9, then GV59-GV63 must equal 9.

59. Rollover Initiation Type

- (0) No rollover
- (1) Trip-over
- (2) Flip-over
- (3) Turn-over
- (4) Climb-over
- (5) Fall-over
- (6) Bounce-over
- (7) Collision with another vehicle
- (8) Other rollover initiation type specify):
- (9) Unknown rollover initiation type

0

60. Location of Rollover Initiation

- (0) No rollover
- (1) On roadway
- (2) On shoulder—paved
- (3) On shoulder—unpaved
- (4) On roadside or divided trafficway median
- (9) Unknown

0

61. Rollover Initiation Object Contacted

00

62. Location on Vehicle Where Initial Principal Tripping Force Is Applied

0

- (0) No rollover
- (1) Wheels/tires
- (2) Side plane
- (3) End plane
- (4) Undercarriage
- (5) Other location on vehicle (specify):
- (8) Non-contact rollover forces (specify):
- (9) Unknown

63. Direction of Initial Roll

0

- (0) No rollover
- (1) Roll right - primarily about the longitudinal axis
- (2) Roll left - primarily about the longitudinal axis
- (5) End-over-end (i.e., primarily about the lateral axis)
- (9) Unknown roll direction

**PRECRASH DATA**

64. Pre-Event Movement (Prior to Recognition of Critical Event)

01

- (01) Going straight
- (02) Slowing or stopping in traffic lane
- (03) Starting in traffic lane
- (04) Stopped in traffic lane
- (05) Passing or overtaking another vehicle
- (06) Disabled or parked in travel lane
- (07) Leaving a parking position
- (08) Entering a parking position
- (09) Turning right
- (10) Turning left
- (11) Making a U-turn
- (12) Backing up (other than for parking position)
- (13) Negotiating a curve
- (14) Changing lanes
- (15) Merging
- (16) Successful avoidance maneuver to a previous critical event
- (97) Other (specify):
- (98) No driver present
- (99) Unknown

## CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

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

### Noncollision

- (31) Turn-over — fall-over
- (33) Jackknife

### Collision With Fixed Object

- (41) Tree ( $\leq$  4 inches in diameter)
- (42) Tree ( $>$  4 inches in diameter)
- (43) Shrubbery or bush
- (44) Embankment

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

### Nonbreakaway Pole or Post

- (50) Pole or post ( $\leq$  4 inches in diameter)
- (51) Pole or post ( $>$  4 inches but  $\leq$  12 inches in diameter)
- (52) Pole or post ( $>$  12 inches in diameter)
- (53) Pole or post (diameter unknown)

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

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

- 
- (69) Unknown fixed object

### Collision with Nonfixed Object

- (71) Motor vehicle not in-transport
- (76) Animal
- (77) Train
- (78) Trailer, disconnected in transport
- (88) Other nonfixed object (specify):

- 
- (89) Unknown nonfixed object

- (98) Other event (specify):

- 
- (99) Unknown event or object



# EXTERIOR VEHICLE FORM

1. Primary Sampling Unit Number <u>13</u>	3. Vehicle Number <u>02</u>
2. Case Number - Stratum <u>248B</u>	

## VEHICLE IDENTIFICATION

VIN JT3FJ60G5C0 XXXXXXXXXX Model Year 82  
 Vehicle Make (specify): TOYOTA Vehicle Model (specify): LAND CRUISER WAGON

## 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
<u>01</u>	<u>CTR OF VEH. TO L.F. CORN.</u>	<u>ENTIRE FRONT</u>
<u>02</u>	<u>30" AFT L.R. AXLE TO L.R. CORN.</u>	<u>14" AFT TO L.R. CORN.</u>
<u>03</u>	<u>22" AFT FR AXLE TO F.R. CORNER</u>	<u>Same</u>

## 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.

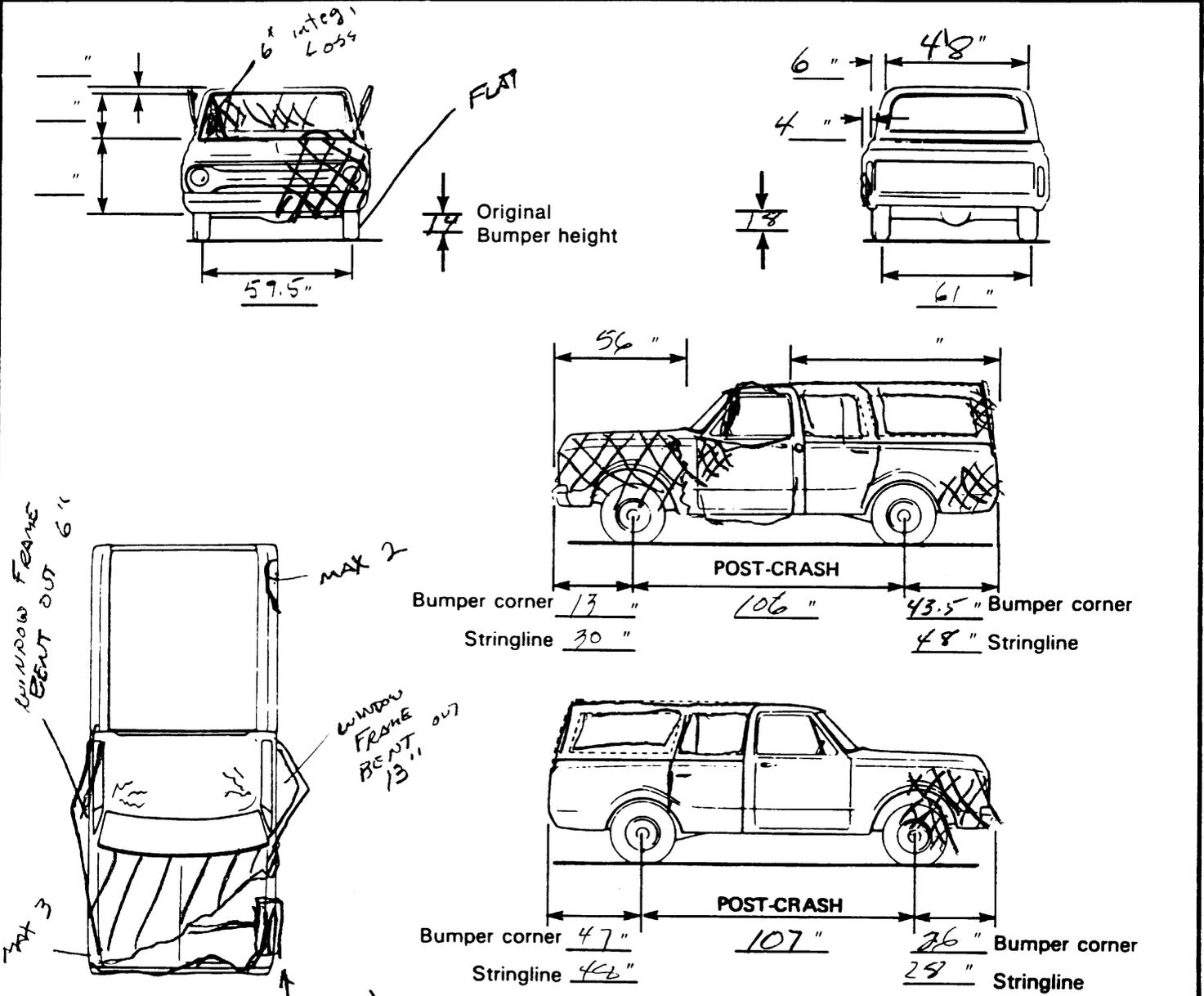
Free space value is defined as the distance between the baseline and the original body contour taken at the individual C locations. This may include the following: bumper lead, bumper taper, side protrusion, side taper, etc. Record the value for each C-measurement and maximum crush.

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

Specific Impact Number	Plane of Impact C-Measurements	Direct Damage		Field L	C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	C <sub>6</sub>	±D
		Width (CDC)	Max Crush								
<u>1</u>	<u>F. Bumper</u>	<u>26</u>	<u>18</u>	<u>55</u>	<u>18</u>	<u>5.2</u>	<u>6.4</u>	<u>1.5</u>	<u>1.4</u>	<u>1.4</u>	<u>-13</u>
	<u>14" ABOVE</u>				<u>49</u>	<u>29</u>	<u>15.5</u>	<u>6</u>	<u>3.5</u>	<u>5.5</u>	
	<u>FREE</u>				<u>3</u>	<u>3</u>	<u>2</u>	<u>3</u>	<u>3</u>	<u>3</u>	
	<u>RESIDUAL</u>		<u>46</u>		<u>46</u>	<u>26</u>	<u>12.5</u>	<u>3</u>	<u>.5</u>	<u>2.5</u>	
					<u>34</u>						
	<u>AVERAGE</u>		<u>32</u>		<u>32</u>	<u>15.5</u>	<u>9.3</u>	<u>2</u>	<u>.3</u>	<u>2</u>	
					<u>26</u>						
<u>2</u>	<u>MID DOOR HT.</u>	<u>15"</u>	<u>4.5</u>	<u>30"</u>	<u>3</u>	<u>4.5</u>	<u>3.5</u>	<u>2</u>	<u>1.5</u>	<u>0</u>	<u>-76</u>
<u>3</u>	<u>MID DOOR HT.</u>	<u>48"</u>	<u>11</u>	<u>45"</u>	<u>0</u>	<u>1.2</u>	<u>1</u>	<u>2.5</u>	<u>6.5</u>	<u>11</u>	<u>+56</u>

**VEHICLE DAMAGE SKETCH**

<b>TIRE – WHEEL DAMAGE</b> a. Rotation physically restricted RF <u>2</u> LF <u>2</u> RR <u>2</u> LR <u>2</u> (1) Yes (2) No (8) NA (9) Unk.		b. Tire deflated RF <u>2</u> LF <u>1</u> RR <u>2</u> LR <u>2</u>		<b>ORIGINAL SPECIFICATIONS</b> Wheelbase <u>107.5</u> Overall Length <u>187.1</u> Maximum Width <u>4</u> Curb Weight <u>4010</u> Average Track <u>61</u> Front Overhang <u>30</u> Rear Overhang <u>48</u> Engine Size: cyl./ displ. <u>6-285 CID</u> Undeformed End Width <u>67</u>		<b>WHEEL STEER ANGLES</b> (For locked front wheels or displaced rear axles only) RF ± <u>X</u> ° LF ± <u>X</u> ° RR ± <u>X</u> ° LR ± <u>X</u> ° Within ± 5 degrees	
<b>TYPE OF TRANSMISSION</b> <input checked="" type="checkbox"/> Manual <input type="checkbox"/> Automatic				<b>DRIVE WHEELS</b> <input type="checkbox"/> FWD <input type="checkbox"/> RWD <input checked="" type="checkbox"/> 4WD		Approximate Cargo Weight <u>100</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.





# INTERIOR VEHICLE FORM

1. Primary Sampling Unit Number 13  
 2. Case Number - Stratum 24 8 B  
 3. Vehicle Number 02

## INTEGRITY

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

Yes, Integrity Was Lost Through

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

Door, Tailgate or Hatch Opening

5. LF 2 6. RF 3 7. LR 1 8. RR 3 9. TG/H 1

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

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 0 14. TG/H 0

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

Door, Tailgate or Hatch Came Open During Collision

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

## GLAZING

Glazing Damage from Impact Forces

15. WS 2 16. LF 6 17. RF 0 18. LR 0 19. RR 0  
 20. BL 0 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 IV31 Through IV46 As 0

Type of Window/Windshield Glazing

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

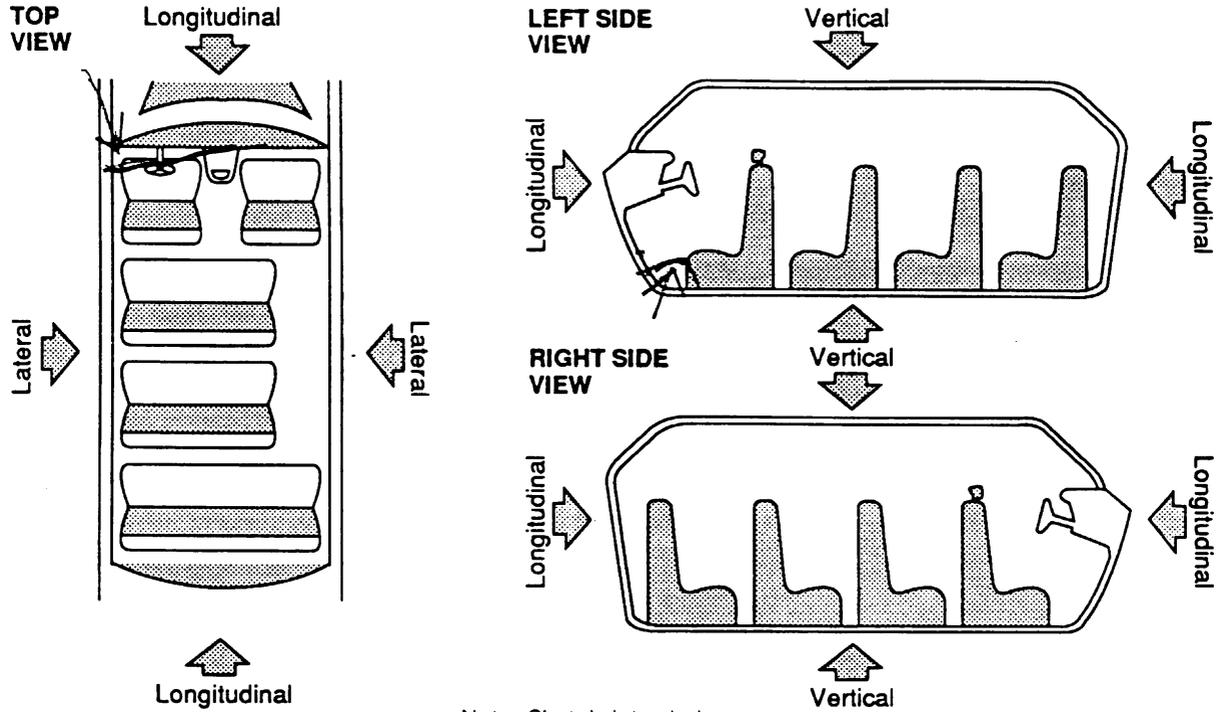
(0) No glazing contact and no damage, or no glazing  
 (1) AS-1 - Laminated  
 (2) AS-2 - Tempered  
 (3) AS-3 - Tempered-tinted  
 (4) AS-14 - Glass/Plastic  
 (8) Other (specify):  
 \_\_\_\_\_  
 (9) Unknown

Window Precrash Glazing Status

39. WS 1 40. LF 2 41. RF 0 42. LR 0 43. RR 0  
 44. BL 0 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 WORKSHEET



Note: Sketch intruded areas

LOCATION OF INTRUSION	INTRUDED COMPONENT	COMPARISON VALUE	INTRUDED VALUE	INTRUSION	DOMINANT CRUSH DIRECTION
11	Inst Panel	29	21	8	Long
11	Floor	19	9.5	9.5	Vert
11	Toe Pan	26	16	10	Long
		-		=	
		-		=	
		-		=	
		-		=	
		-		=	
		-		=	
		-		=	
		-		=	
		-		=	
		-		=	
		-		=	
		-		=	
		-		=	

**OCCUPANT AREA INTRUSION**

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

	Location of Intrusion	Intruding Component	Magnitude of Intrusion	Dominant Crush Direction
1st	47. <u>11</u>	48. <u>05</u>	49. <u>3</u>	50. <u>2</u>
2nd	51. <u>11</u>	52. <u>17</u>	53. <u>3</u>	54. <u>1</u>
3rd	55. <u>11</u>	56. <u>09</u>	57. <u>3</u>	58. <u>2</u>
4th	59. _____	60. _____	61. _____	62. _____
5th	63. _____	64. _____	65. _____	66. _____
6th	67. _____	68. _____	69. _____	70. _____
7th	71. _____	72. _____	73. _____	74. _____
8th	75. _____	76. _____	77. _____	78. _____
9th	79. _____	80. _____	81. _____	82. _____
10th	83. _____	84. _____	85. _____	86. _____

**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 (side)
- (12) Roof (or convertible top)
- (13) Roof side rail
- (14) Windshield
- (15) Windshield header
- (16) Window frame
- (17) Floor pan (includes sill)
- (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 door/panel (e.g., tailgate)
- (26) Other interior component (specify): \_\_\_\_\_

- (27) Side panel - forward of the A-pillar
- (28) Side panel - rear of the A-pillar

*Exterior Components*

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

**LOCATION OF INTRUSION**

- Front Seat
- (11) Left
  - (12) Middle
  - (13) Right

- Fourth Seat
- (41) Left
  - (42) Middle
  - (43) Right

- Second Seat
- (21) Left
  - (22) Middle
  - (23) Right

- (97) Catastrophic
- (98) Other enclosed area (specify) \_\_\_\_\_

- Third Seat
- (31) Left
  - (32) Middle
  - (33) Right

- (99) Unknown

**MAGNITUDE OF INTRUSION**

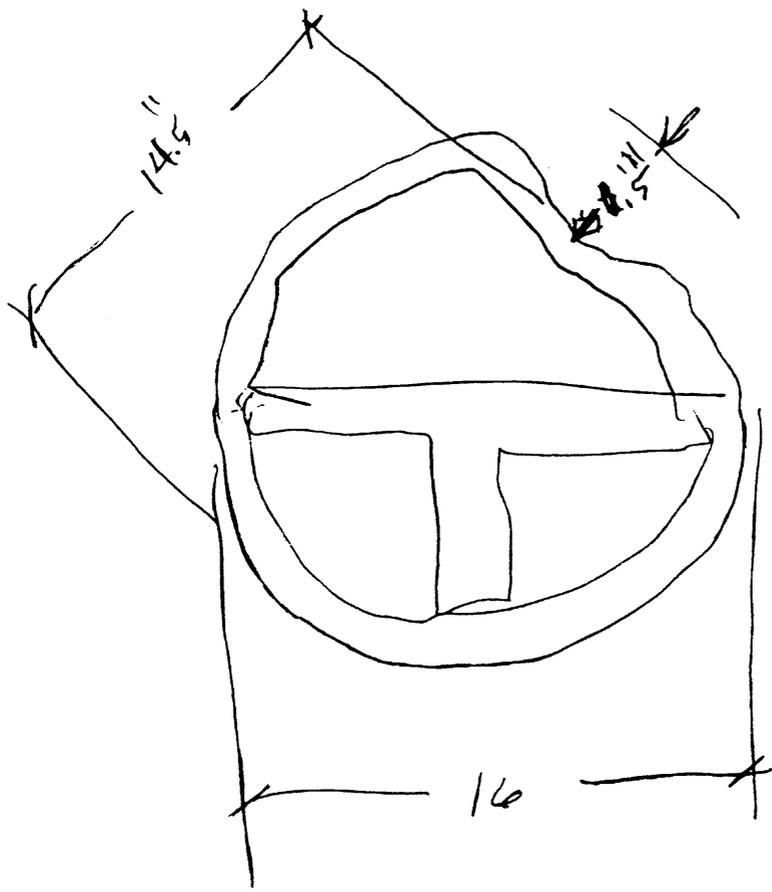
- (1) ≥ 1 inch but < 3 inches
- (2) ≥ 3 inches but < 6 inches
- (3) ≥ 6 inches but < 12 inches
- (4) ≥ 12 inches but < 18 inches
- (5) ≥ 18 inches but < 24 inches
- (6) ≥ 24 inches
- (7) Catastrophic
- (9) Unknown

**DOMINANT CRUSH DIRECTION**

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

# STEERING RIM/SPOKE DEFORMATION

COMPARISON VALUE	-	DAMAGE VALUE	=	DEFORMATION
	-		=	
	-		=	
	-		=	
	-		=	



**STEERING COLUMN**

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

88. Blank X X  
 (This variable is left blank so that numbering consistency can be maintained with the 1988-91 CDS.)

89. Blank X X X  
 (This variable is left blank so that numbering consistency can be maintained with the 1988-91 CDS.)

90. Blank X X X  
 (This variable is left blank so that numbering consistency can be maintained with the 1988-91 CDS.)

91. Blank X X X  
 (This variable is left blank so that numbering consistency can be maintained with the 1988-91 CDS.)

92. Steering Rim/Spoke Deformation 2  
1.5 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

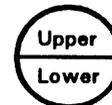
*Quarter Sections*

- (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 138,000  
138242 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: ODOM

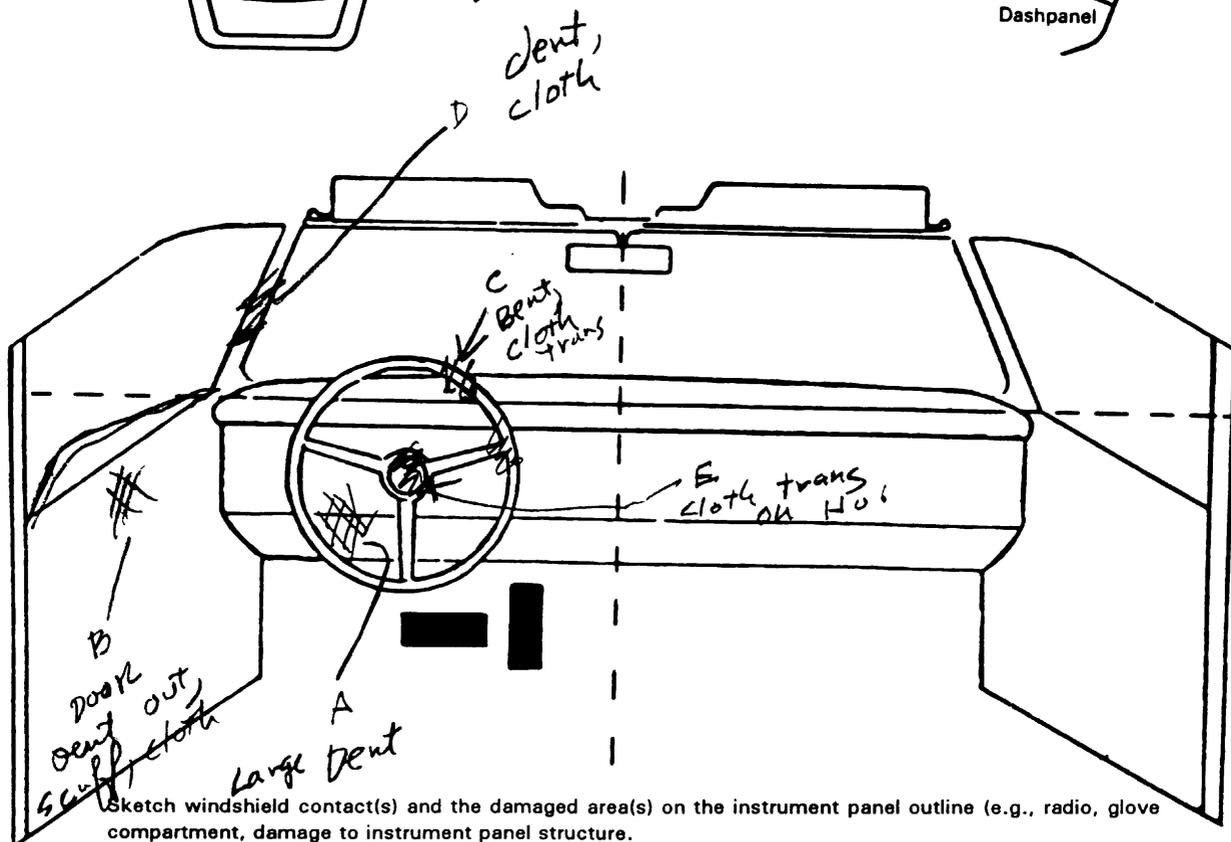
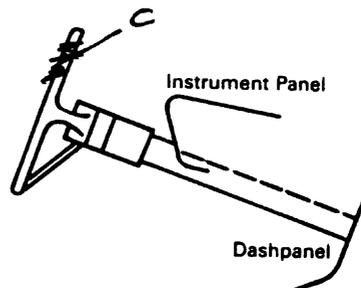
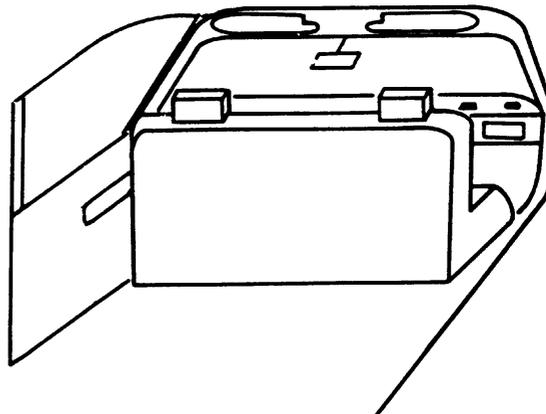
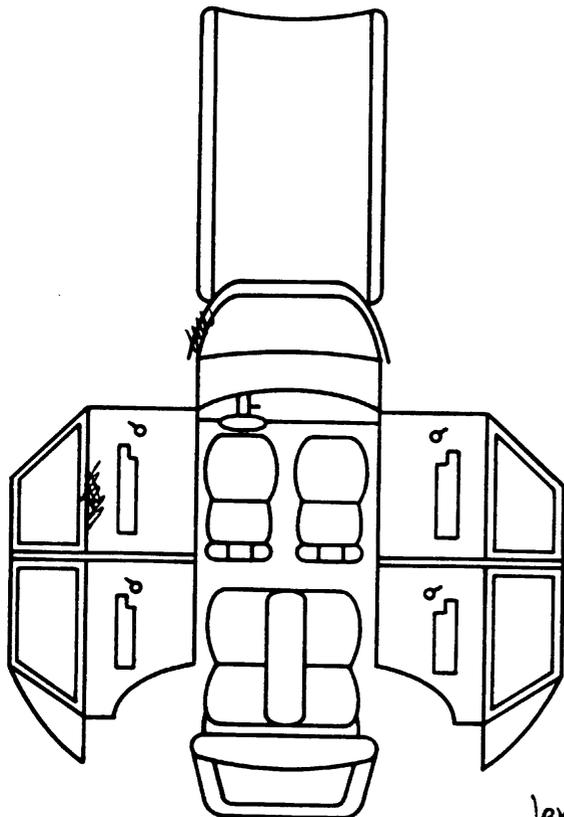
95. Instrument Panel Damage from Occupant Contact? 1  
 (0) No  
 (1) Yes  
 (9) Unknown

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

### VEHICLE INTERIOR SKETCHES

Note area of ejection/entrapment



Sketch windshield contact(s) and the damaged area(s) on the instrument panel outline (e.g., radio, glove compartment, damage to instrument panel structure).  
 Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.  
 Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

**POINTS OF OCCUPANT CONTACT**

Contact	Interior Component Contacted	Occupant No. If Known	Body Region If Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	09	1	Knee	LARGE DENT	1
B	20	1	L. ARM	DOOR BENT OUT, CLOTH TRANS.	1
C	04	1		bent RIM, CLOTH TRANS	1
D	22	1		Dent, cloth trans.	1
E	05	1		CLOTH TRANS	1
F					
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**

- (28) Left side window sill
- (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): \_\_\_\_\_
- (38) Right side window sill

**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 bag
- (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
- (9) Unknown

## AUTOMATIC RESTRAINTS

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

### AIR BAGS

		Left	Right
<b>F I R S T</b>	Availability/Function	0	0
	Deployment	0	0
	Failure	0	0

**Air Bag System Availability/Function**

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

**Air Bag System Deployment**

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

**Did Air Bag System Fail?**

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

### AUTOMATIC BELTS

		Left	Right
<b>F I R S T</b>	Availability/Function	0	0
	Use	0	0
	Type	0	0
	Proper Use	0	0
	Failure Modes	0	0

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

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

**Automatic (Passive) Belt System Use**

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

**Automatic (Passive) Belt System Type**

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

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

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

*Automatic Belt Used Improperly*

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

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

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

**MANUAL RESTRAINTS**

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

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

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

		Left	Center	Right
FIRST	Availability	4	0	4
	Use	04	00	04
	Failure Modes	1	0	1
SECOND	Availability	3	3	3
	Use	99	99	99
	Failure Modes	1	1	1
THIRD	Availability	0	0	0
	Use	00	00	00
	Failure Modes	0	0	0
OTHER	Availability	0	0	0
	Use	00	00	00
	Failure Modes	0	0	0

**Manual (Active) Belt System Availability**

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

*Integral Belt Partially Destroyed*

- (6) Shoulder belt (lap belt destroyed/removed)
- (7) Lap belt (shoulder belt destroyed/removed)

(8) Other belt (specify): \_\_\_\_\_

(9) Unknown

**Manual (Active) Belt System Use**

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperable (specify): \_\_\_\_\_
- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used - type unknown

(08) Other belt used (specify): \_\_\_\_\_

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

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

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

## CHILD SAFETY SEAT FIELD ASSESSMENT

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

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

**1. Type of Child Safety Seat**

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

**2. Child Safety Seat Orientation**

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

Designed for Forward Facing for This Age/Weight

- (11) Rear facing
- (12) Forward facing
- (18) Other orientation (specify): \_\_\_\_\_
- (19) Unknown orientation

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

- (21) Rear facing
- (22) Forward facing
- (28) Other orientation (specify): \_\_\_\_\_
- (29) Unknown orientation
- (99) Unknown if child safety seat used

**3. Child Safety Seat Harness Usage**

**4. Child Safety Seat Shield Usage**

**5. Child Safety Seat Tether Usage**

Note: Options Below Are Used for Variables 3-5.

(00) No child safety seat

Not Designed with Harness/Shield/Tether

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

Designed With Harness/Shield/Tether

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

Unknown If Designed With Harness/Shield/Tether

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

(99) Unknown if child safety seat used

**6. Child Safety Seat Make/Model**

(Specify make/model and occupant number)

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### HEAD RESTRAINTS/SEAT EVALUATION

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

		Left	Center	Right
FIRST	Head Restraint Type/Damage	3	0	3
	Seat Type	01	00	01
	Seat Performance	1	0	1
	Seat Orientation	1	0	1
SECOND	Head Restraint Type/Damage	0	0	0
	Seat Type	05	05	05
	Seat Performance	1	1	1
	Seat Orientation	1	1	1
THIRD	Head Restraint Type/Damage	0	0	0
	Seat Type	00	00	00
	Seat Performance	0	0	0
	Seat Orientation	0	0	0
OTHER	Head Restraint Type/Damage	0	0	0
	Seat Type	00	00	00
	Seat Performance	0	0	0
	Seat Orientation	0	0	0

**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) No seat
- (01) Bucket
- (02) Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions
- (05) Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., column supported)
- (09) Other seat type (specify): \_\_\_\_\_

(10) Box mounted seat (i.e., van type)  
 (99) Unknown

**Seat Performance (this Occupant Position)**

- (0) No seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed specify: \_\_\_\_\_
- (4) Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify): \_\_\_\_\_

(7) Combination of above (specify): \_\_\_\_\_

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

(9) Unknown \_\_\_\_\_

**Seat Orientation (this Occupant Position)**

- (0) No seat
- (1) Forward facing seat
- (2) Rear facing seat
- (3) Side facing seat (inward)
- (4) Side facing seat (outward)
- (8) Other (specify): \_\_\_\_\_

(9) Unknown \_\_\_\_\_

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

\_\_\_\_\_

**EJECTION/ENTRAPMENT DATA**

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

**EJECTION**      No  Yes [ ]

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

**Ejection**

- (1) Complete ejection
- (1) 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)

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

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

**CHILD SAFETY SEAT**

28. Child Safety Seat Make/Model 000
- (000) No child safety seat
  - Applicable codes are found in your NASS CDS Data Collection, Coding and Editing
  - (950) Built-in child safety seat
  - (997) Other make/model (specify): \_\_\_\_\_
  - (998) Unknown make/model
  - (999) Unknown if child safety seat used
29. Type of Child Safety Seat 0
- (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

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

31. Child Safety Seat Harness Usage 00
32. Child Safety Seat Shield Usage 00
33. Child Safety Seat Tether Usage 00
- Note: Options below applicable to Variables OA31-OA33.
- (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

PSU NUMBER	<u>13</u>
CASE NUMBER	<u>2483</u>
VEHICLE NUMBER	<u>02</u>
OCCUPANT NUMBER	<u>01</u>

# OCCUPANT INJURY FORM

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

ENTIRE FORM

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



GENERAL VEHICLE Vehicle: 1

11

INTRA ERRORS

BEST AVAILABLE COPY

T GV12 equals 05-49, then REPORTED ALCOHOL should equal 1.

OGG0191 2 If ALCOHOL TEST  
GG0192 PRESENCE GV11

0

INTERIOR VEHICLE Vehicle: 1

11

INTRA ERRORS

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

OCC0531 2 \*\*\*\*\* THIS CASE SHOWS A D  
CC0532 \*\*\*\*\* CHECK YOUR DATA AND  
CC0533 DOOR LEFT FRONT IV05 equal  
CC0534 or IV06 equals 2 or IV09 e

0

OCCUPANT ASSESSMENT Vehicle: 2 Occupant: 1

11

INTRA ERRORS

T OA35 equals 9, then HOSPITAL STAY OA37 should equal

OHH1021 2 If TREATMENT  
HH1022 99.

01

INTER ERRORS

LT USE OHT0141 2 If INJURY SOURCE OI11(n) equals 41 or 43 and MANUAL BE  
ual 1 or HT0142 OA18 equals 00, then AUTOMATIC BELT USE OA45 should eq  
HT0143 3. GV=01 OA=01 OI=12

HT0201 2 If INJURY SOURCE OI11(n) equals 41 or 43 and AUTOMATIC BELT USE  
HT0202 OA45 equals 0, then MANUAL BELT USE OA18 should equal 03-05 or  
HT0203 13-15. GV=01 OA=01 OI=12

HT0181 2 If 3rd CAUSE OF DEATH OA42 equals 01-96, then BODY REGION  
HT0182 OI06(OA42), SYSTEM/ORGAN OI09(OA42) and A.I.S. SEVERITY  
HT0183 OI10(OA42) should be related according to Table A-13.  
HT0184 GV=01 OA=01 OI=05

PSU13  
CASE 248B  
CURRENT VERSION: 5.03

ERROR SUMMARY SCREEN

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FORM NAME	NUMBER OF DOLLAR SIGNS	NUMBER OF LEVEL 1 ERRORS	NUMBER OF LEVEL 2 ERRORS	VERSION NUMBER CONSISTENT
Accident	0	0	0	Y
General Vehicle	0	0	1	Y
Vehicle Exterior	0	0	0	Y
Vehicle Interior	0	0	1	Y
Occupant Assessment	0	0	1	Y
Occupant Interior	0	0	0	Y
Total Inter Errors		0	3	
Total Case Errors	0	0	6	







**PSU 13-248B (1992) #1**



PSU 13-248B (1992) #2



PSU 13-248B (1992) #3



PSU 13-248B (1992) #4



**PSU 13-248B (1982) #5**



PSU 13-248B (1992) #8



PSU 13-2488 (1992) #7



PSU 13-248B (1992) #6



PSU 13-248B (1992) #9



PSU 13-2488 (1992) #10



**PSU 13-248B (1992) #11**



**PSU 13-248B (1992) #12**



**PSU 13-248B (1992) #13**



PSU 13-2488 (1992) #14



**PSU 13-248B (1992) #15**



PSU 13-248B (1992) #16



**PSU 13-246B (1992) #17**



PSU 13-248B (1992) #18



PSU 13-248B (1992) #19



PSU 13-248B (1992) #20



PSU 13-246B (1992) #21



PSU 13-248B (1992) #22



PSU 13-248B (1992) #23



**PSU 13-248B (1992) #24**



PSU 13-248B (1992) #25



PSU 13-248B (1992) #26



PSU 13-248B (1992) #27



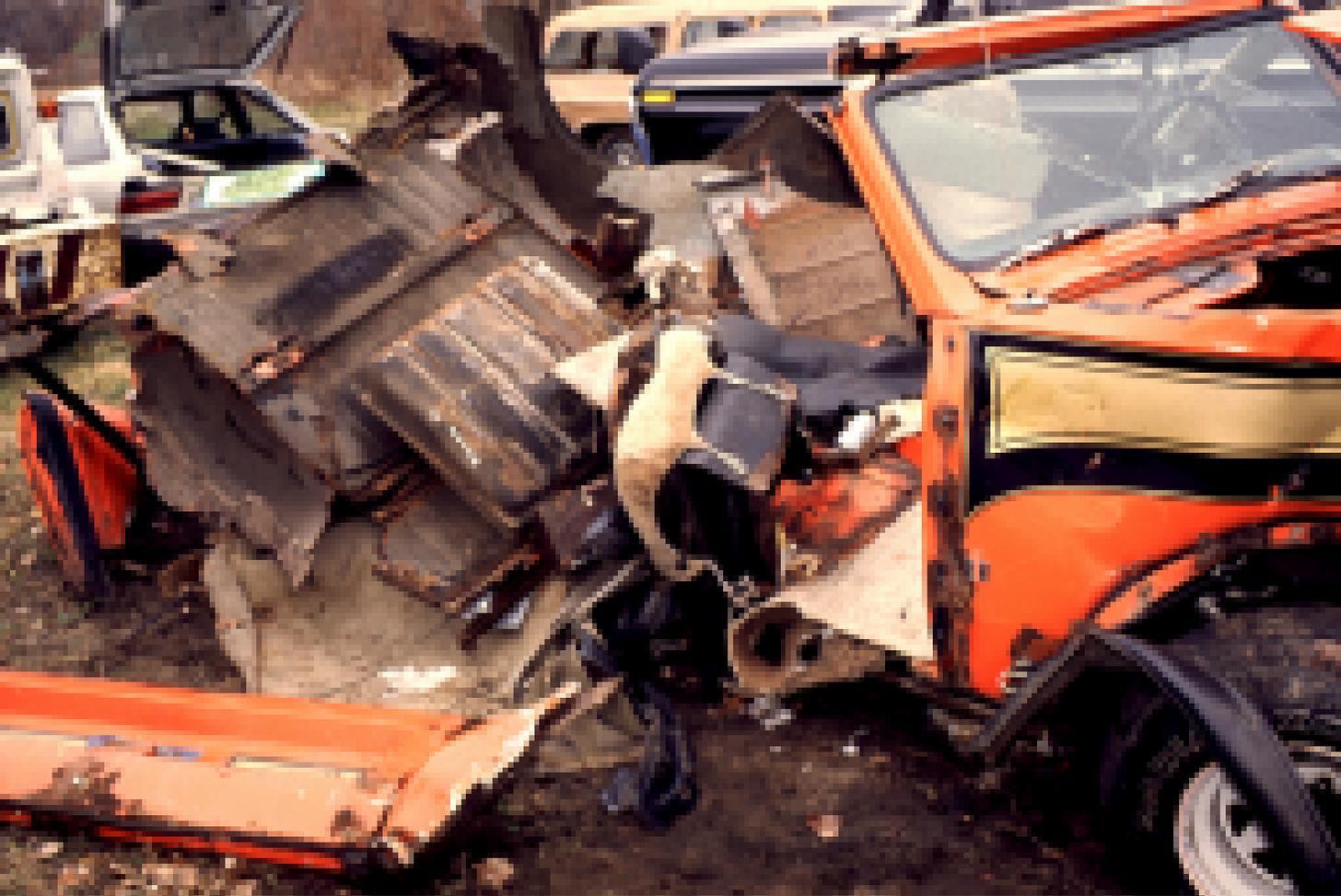
PSU 13-248B (1992) #28



PSU 13-248B (1992) #29



PSU 13-248B (1992) #30



**PSU 13-248B (1992) #31**



PSU 13-248B (1992) #32



PSU 13-248B (1992) #33



PSU 13-248B (1992) #34



**PSU 13-248B (1992) #35**



PSU 13-248B (1992) #36



**PSU 13-248B (1992) #37**



**PSU 13-248B (1992) #38**



PSU 13-248B (1992) #39



**PSU 13-248B (1992) #40**



**PSU 13-248B (1992) #41**  
**Best Available**



PSU 13-248B (1992) #42



**PSU 13-248B (1992) #43**  
**Best Available**



**PSU 13-240B (1992) #44**



**PSU 13-248B (1992) #45**



**PSU 13-248B (1992) #46**



PSU 13-248B (1992) #47



**PSU 13-248B (1982) #48**



PSU 13-248B (1992) #49



**PSU 13-248B (1992) #50**  
**Best Available**



**PSU 13-246B (1992) #51  
Best Available**



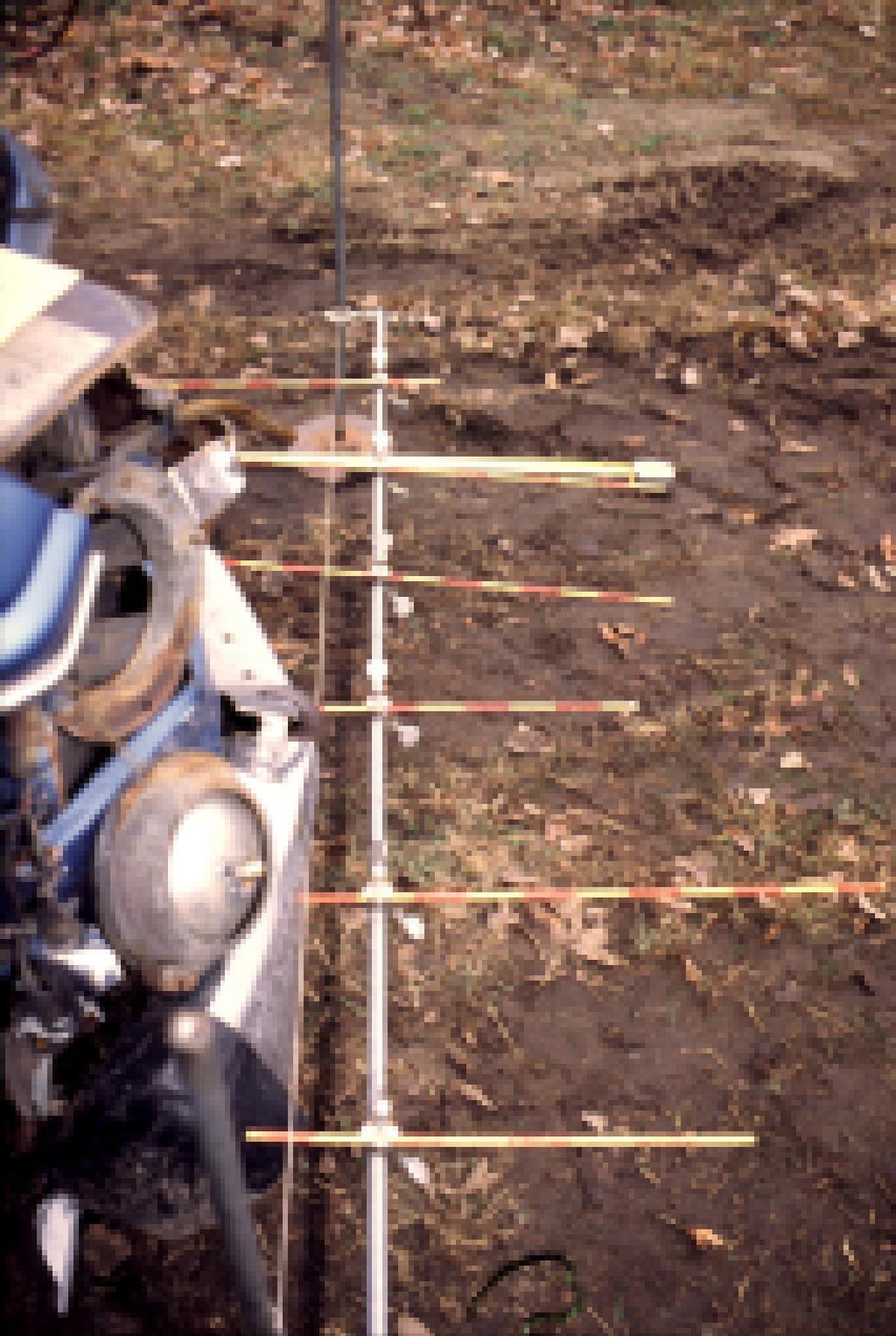
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**Best Available**



**PSU 13-248B (1992) #53**  
**Best Available**



**PSU 13-248B (1992) #54  
Best Available**



**PSU 13-248B (1992) #55**  
**Best Available**



**PSU 13-248B (1992) #56**  
**Best Available**



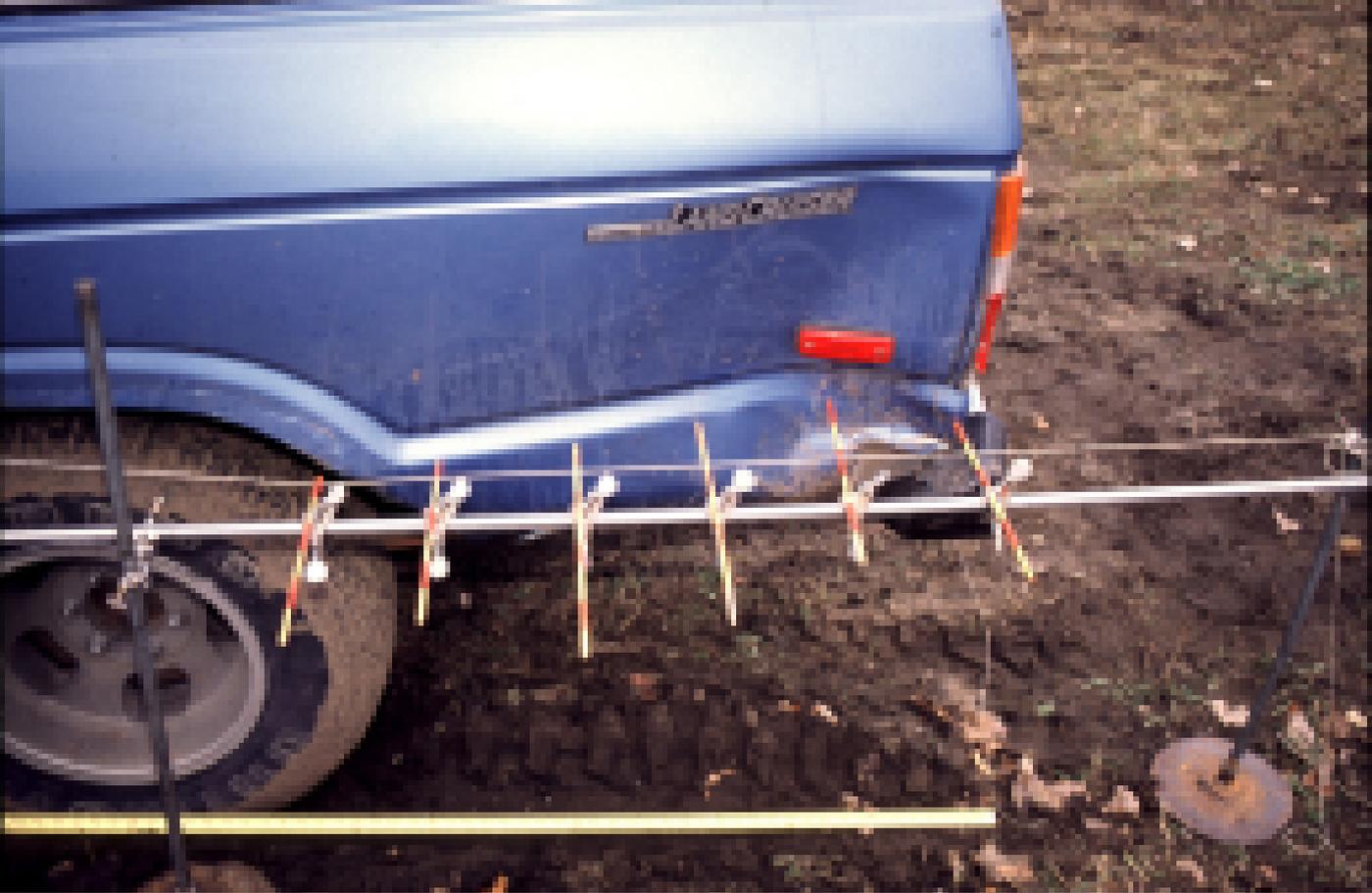
**PSU 13-248B (1992) #57**  
**Best Available**



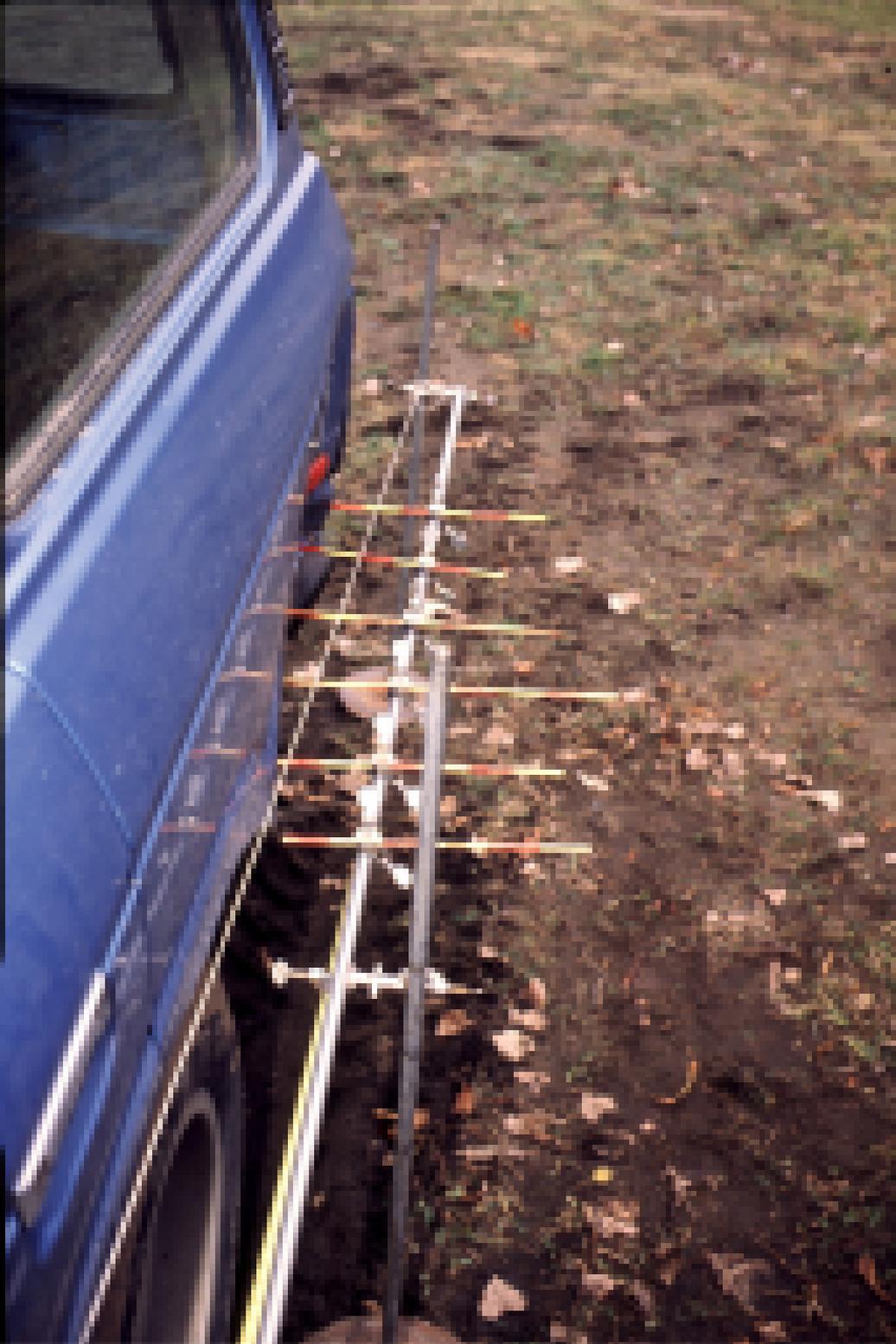
**PSU 13-2488 (1992) #58**  
**Best Available**



**PSU 13-2488 (1992) #59**  
**Best Available**



PSU 13-248B (1992) #60  
Best Available



PSU 13-248B (1992) #61



PSU 13-248B (1992) #62



**PSU 13-2486 (1992) #63**  
**Best Available**



**PSU 13-248B (1992) #64**  
**Best Available**



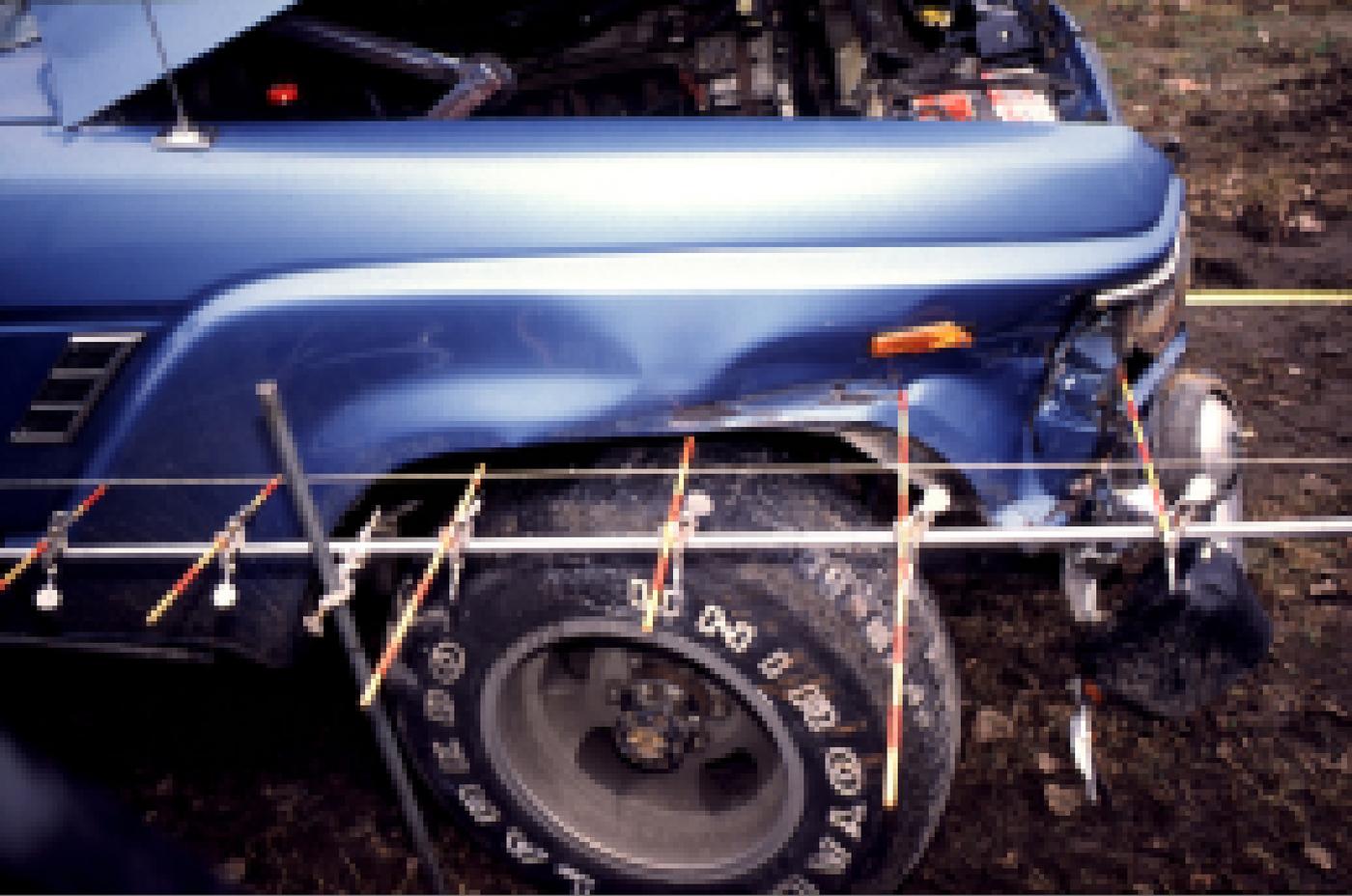
PSU 13-248B (1992) #65



**PSU 13-248B (1992) #66**



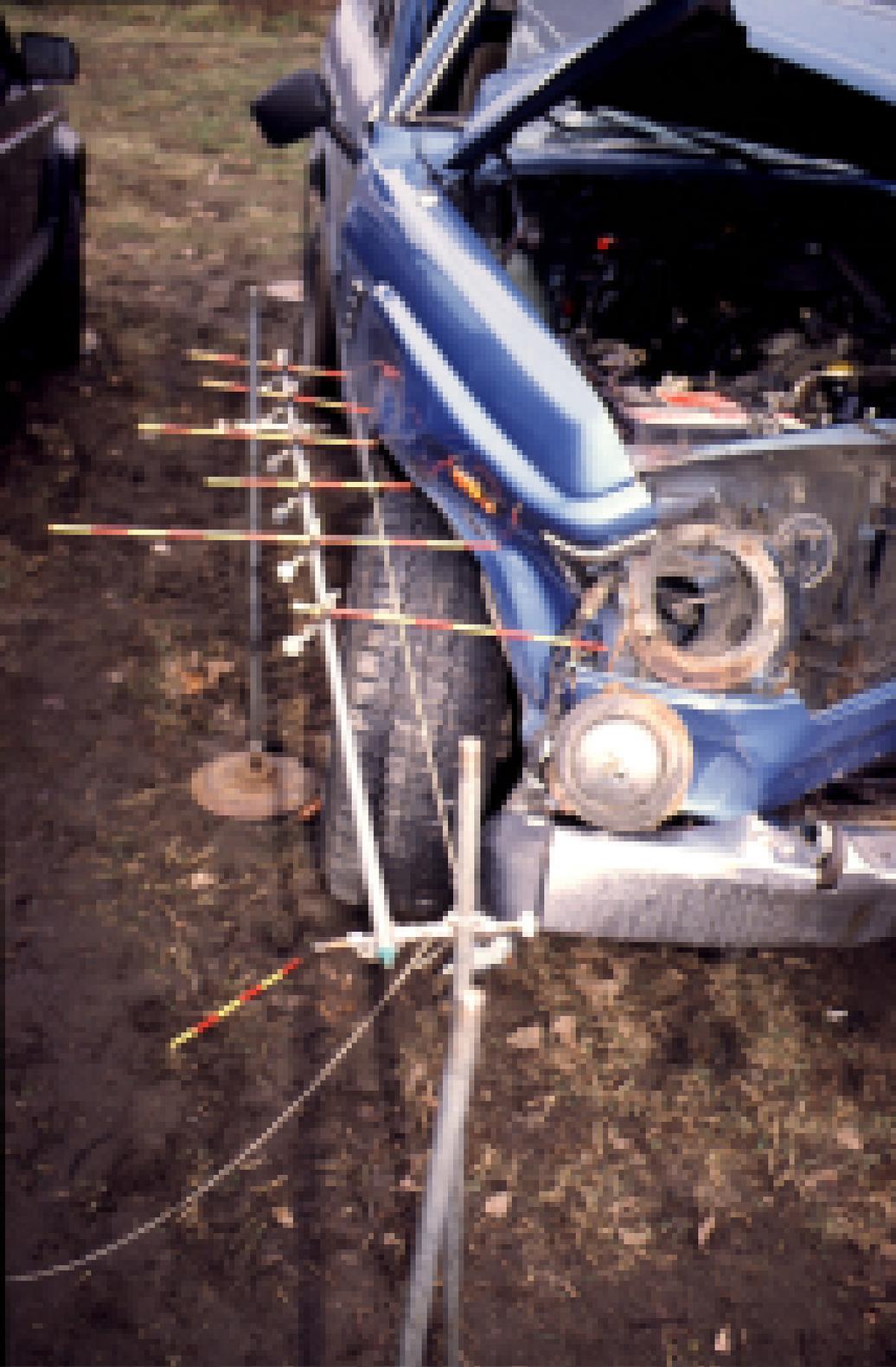
PSU 13-240B (1992) #67



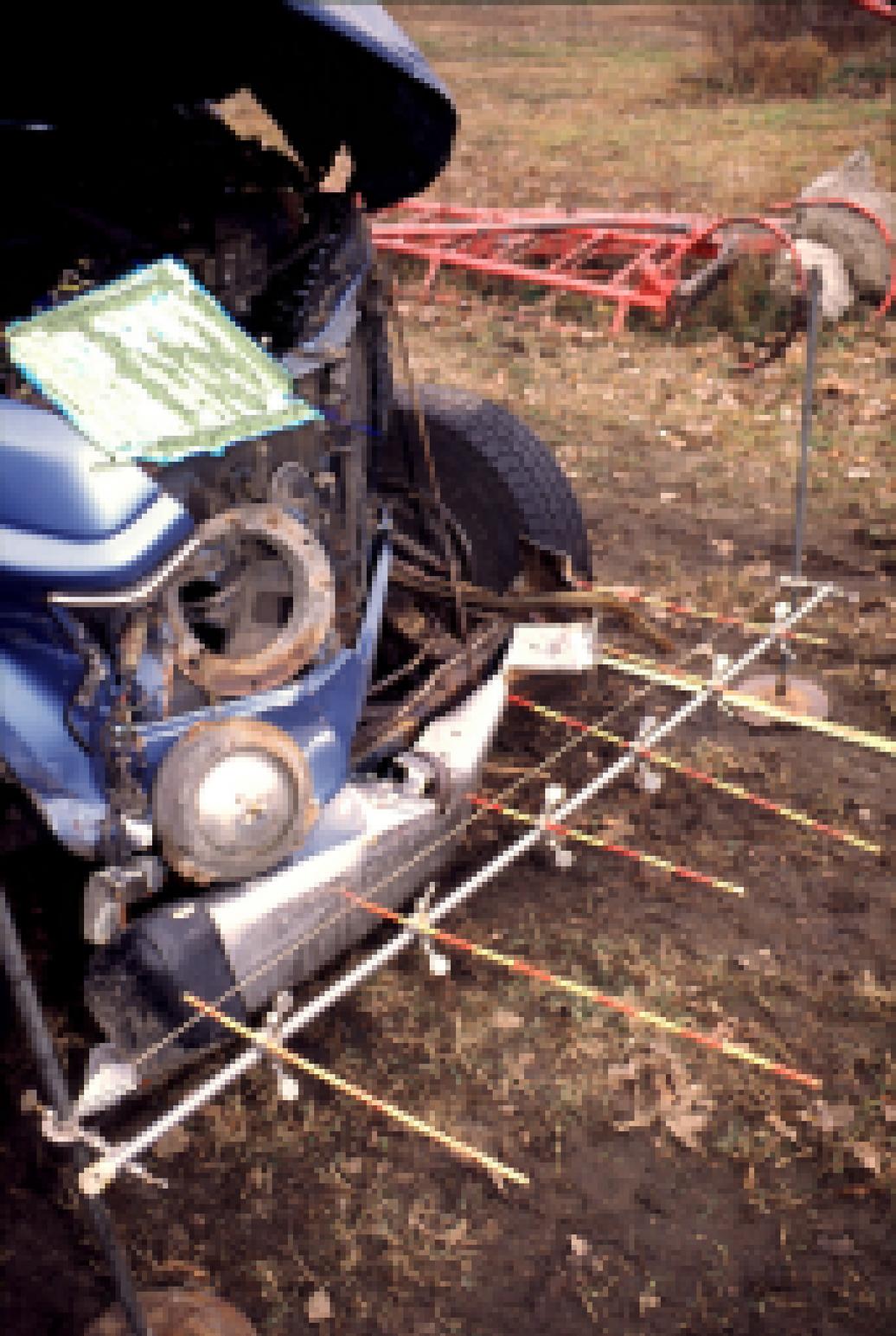
**PSU 13-248B (1992) #68**  
**Best Available**



PSU 13-248B (1992) #69



PSU 13-2486 (1992) #70



**PSU 13-248B (1992) #71**  
**Best Available**



**PSU 13-248B (1992) #72**  
**Best Available**



**PSU 13-248B (1992) #73**



PSU 13-248B (1992) #74



**PSU 13-248B (1992) #75**



**PSU 13-24BB (1992) #76**  
**Best Available**



**PSU 13-248B (1992) #77**



**PSU 13-240B (1992) #78**

**Best Available**



PSU 13-248B (1992) #79



**PSU 13-246B (1992) #80**



PSU 13-248B (1992) #81



**PSU 13-248B (1992) #82**



PSU 13-248B (1992) #83



**PSU 13-248B (1992) #84**

**Best Available**



PSU 13-248B (1992) #85



PSU 13-248B (1992) #86



PSU 13-248B (1992) #87



PSU 13-248B (1992) #08



**PSU 13-248B (1992) #88**



PSU 13-248B (1992) #90



PSU 13-248B (1992) #91



PSU 13-248B (1992) #92