



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 08 CASE NO. 191G TYPE OF ACCIDENT One Vehicle Rollover

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.)

V1 was traveling south on a four lane divided concrete interstate in the right lane. As V1 negotiated a left curve in the wet roadway, V1 began to rotate counterclockwise. V1 slid off right side of roadway through a grassy berm where due to change in surfaces, V1 rolled four quarter turns coming to rest upright facing southeast.

B. VEHICLE PROFILE(S)

Vehicle No.	Class of Vehicle	Year/Make/Model	Most Severe Damage		Component Failure
			Damage Plane	Severity Description	
1	Passenger Van	88 /Ford/Club Wagon	Roof	Moderate	3rd Seat Anchor

C. PERSON PROFILE(S)

Vehicle No.	Person Role	Seat Position	Restraint Use	Most Severe Injury			
				Body Region	Lesion	AIS	Injury Source
1	Driver	Front/Left	L & S		NOT INJURED		
1	Passenger	Front/Right	L & S		NOT INJURED		
1	Passenger	2nd/Left	Lap		NOT INJURED		
1	Passenger	2nd/Right	Lap		NOT INJURED		
1	Passenger	3rd/Middle	Lap		NOT INJURED		

DO NOT SANITIZE THIS FORM



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

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

ACCIDENT COLLISION DIAGRAM

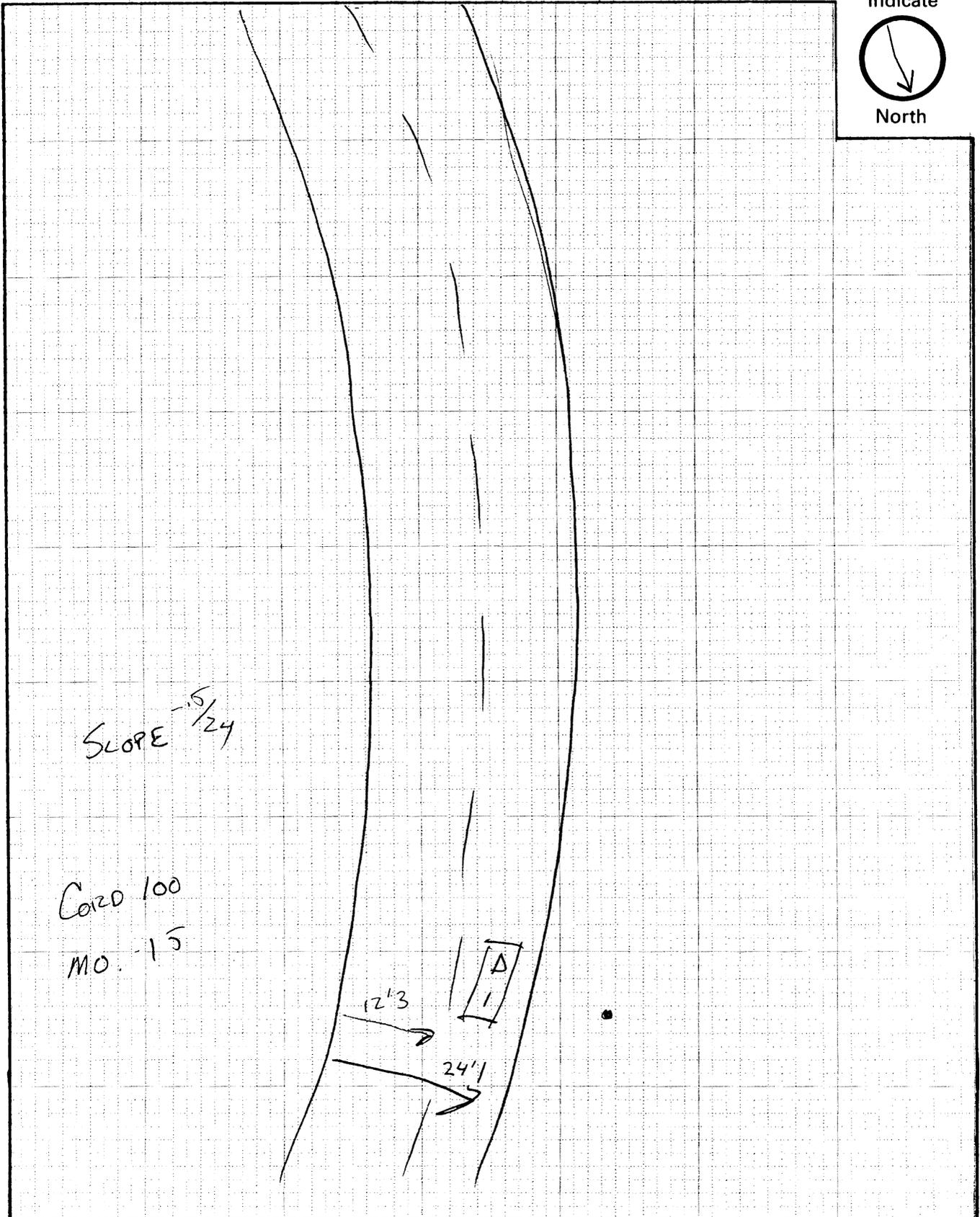
PSU No. 08

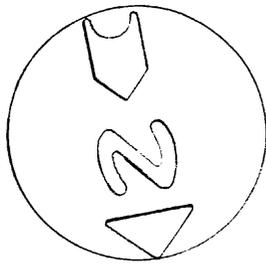
Case Number - Stratum 1919

Indicate



North





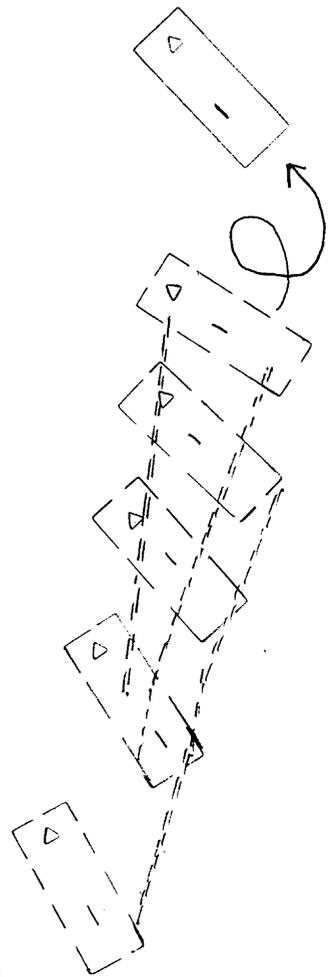
POB 1916

1:20

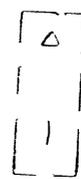
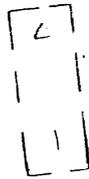
ROAD SURFACE: CONCRETE

ROAD CONDITION: WET

ROAD GRADIENT: $-\frac{5}{24}$
 -29%



EMBANKMENT



RP 20' N ↓ LIGHT STANDARD #



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

ACCIDENT COLLISION MEASUREMENT TABLE

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

Primary Sampling Unit Number 08 Case Number - Stratum 1916

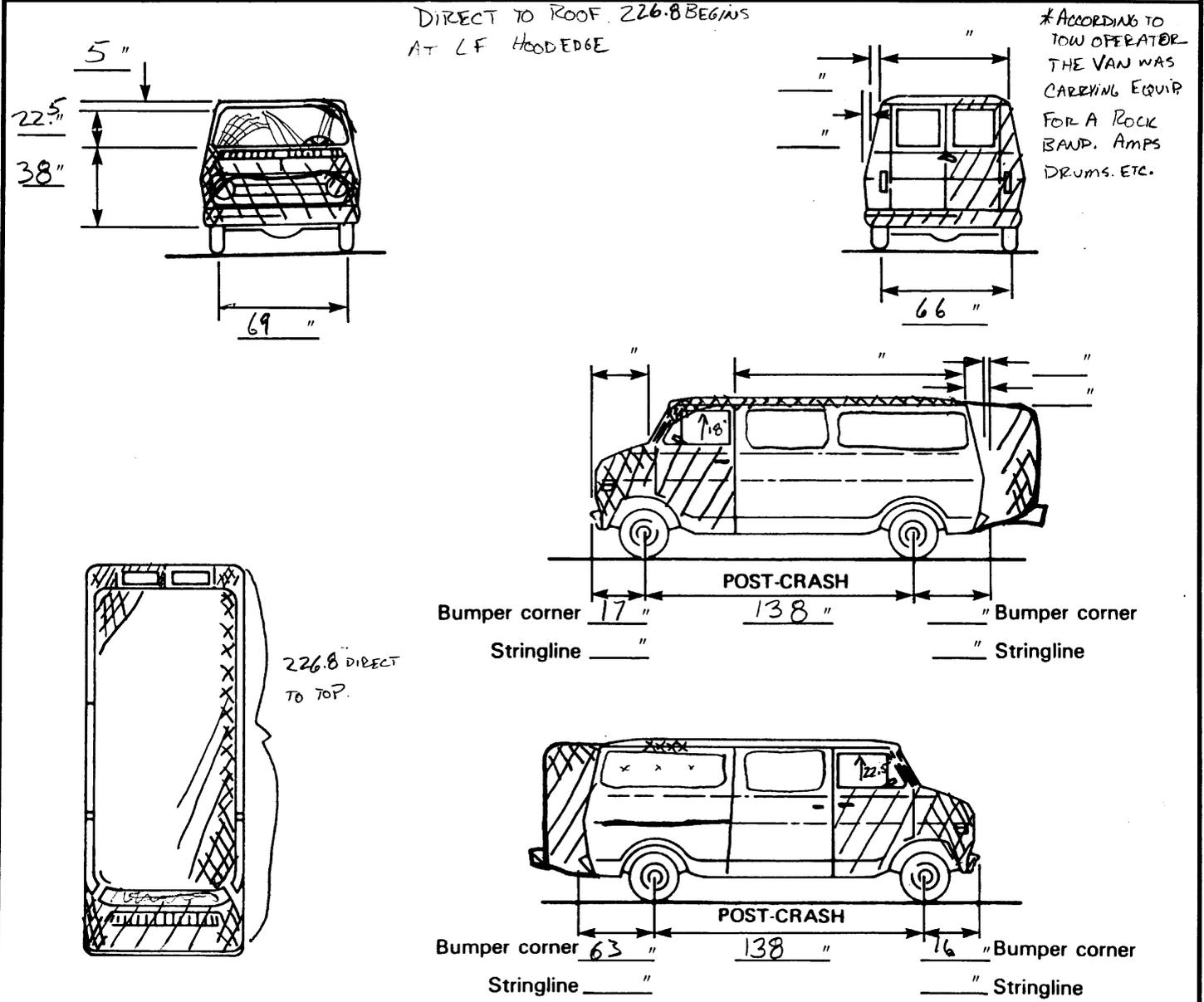
ACCIDENT COLLISION DIAGRAM:		CRASH DATA
<p>LEVEL I PHYSICAL EVIDENCE ABSENT</p> <p>To be accomplished when there is no physical evidence present at the scene:</p> <ul style="list-style-type: none"> *approximate vehicle orientation at impact and final rest *applicable road/roadway delineation (e.g., curbs/edge lines, lane markings, median markings, pavement markings, etc.) *applicable traffic controls (e.g., speed limit) *north arrow placed on diagram *sketch required 	<p>LEVEL II (Cont'd) accomplished when physical evidence is present:</p> <ul style="list-style-type: none"> *document reference point and reference line relative to physical features present at the scene *scaled documentation of all accident induced physical evidence *scaled documentation of all roadside objects contacted *roadway surface type and condition of applicable roadways *grade measurements for all applicable roadways *scaled representations of the vehicle(s) at pre-impact, impact, and final rest based upon either: <ul style="list-style-type: none"> a) physical evidence, or b) reconstructed accident dynamics 	<p>VEH. #1 VEH. #2 VEH. #3</p> <p>Heading Angle <u>998</u> _____ _____</p> <p>Surface Type <u>CONCRETE</u> _____ _____</p> <p>Surface Condition <u>WET</u> _____ _____</p> <p>Grade Measurement (v/h) <u>-5/24</u> _____ _____ <u>-2%</u></p>
<p>LEVEL II PHYSICAL EVIDENCE PRESENT</p> <p>In addition to the Level I tasks noted above, the following must be</p>		

Reference Point: LIGHT STANDARD _____ Reference Line: W. RD EDGE _____
W. RD SIDE _____ _____

Item	Distance and Direction from Reference Point	Distance and Direction from Reference Line
✓ TRP	AT	35'5 W.
✓ RR BEG	137'1 S	15'9 W
✓ LR BEG	155 S	16'5 W
✓ IP RR	155 S	22'5 W
✓ RF BEG	162'3 S	16' W
✓ IP LR	162'3 S	18'6 W
✓ IP RR	162'3 S	24'7 W
✓ RR ENDS AT HILLSIDE	182'7 S	34'2 W
✓ LR ENDS AT " "	196'8 S	34' W
✓ RF ENDS.	202'8 S	23'9 W
✓ APPROX FRP V ₁	225'7 S	30'2 W

VEHICLE DAMAGE SKETCH

TIRE – WHEEL DAMAGE a. Rotation physically restricted RF <u>1</u> LF <u>2</u> RR <u>2</u> LR <u>2</u> (1) Yes (2) No (8) NA (9) Unk.		ORIGINAL SPECIFICATIONS Wheelbase <u>138</u> Overall Length <u>226.8</u> Maximum Width <u>79.8</u> Curb Weight <u>5504</u> Average Track <u>67.5</u> Front Overhang <u>25</u> Rear Overhang <u>63.8</u> Engine Size: cyl./ displ. <u>7.5L/V8/460</u> Undeformed End Width <u>74</u>		WHEEL STEER ANGLES (For locked front wheels or displaced rear axles only) RF \pm <u>2</u> $^{\circ}$ LF \pm <u>0</u> $^{\circ}$ RR \pm <u>0</u> $^{\circ}$ LR \pm <u>0</u> $^{\circ}$ Within ± 5 degrees	
TYPE OF TRANSMISSION <input type="checkbox"/> Manual <input checked="" type="checkbox"/> Automatic		DRIVE WHEELS <input type="checkbox"/> FWD <input checked="" type="checkbox"/> RWD <input type="checkbox"/> 4WD		Approximate * Cargo Weight <u>500</u>	



NOTES: Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewall, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page. Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.



1. Primary Sampling Unit Number 08

2. Case Number—Stratum 1919

3. Vehicle Number 01

INTEGRITY

4. Passenger Compartment Integrity 06

(00) No integrity loss

Yes, Integrity Was Lost Through

(01) Windshield

(02) Door (side)

(03) Door/hatch (rear)

(04) Roof

(05) Roof glass

(06) Side window

(07) Rear window

(08) Roof and roof glass

(09) Windshield and door (side)

(10) Windshield and roof

(11) Side and rear window

(98) Other combination of above (specify):

(99) Unknown

Door, Tailgate Or Hatch Opening

5. LF 3 6. RF 1 7. LR 0 8. RR 1 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 0 17. RF 0 18. LR 0 19. RR 0

20. BL 0 21. Roof 0 22. Other 0

(0) No glazing damage from impact forces

(2) Glazing in place and cracked from impact forces

(3) Glazing in place and holed from impact forces

(4) Glazing out-of-place (cracked or not) and not holed from impact forces

(5) Glazing out-of-place and holed from impact forces

(6) Glazing disintegrated from impact forces

(7) Glazing removed prior to accident

(8) No glazing

(9) Unknown if damaged

Glazing Damage from Occupant Contact

23. WS 0 24. LF 0 25. RF 0 26. LR 0 27. RR 0

28. BL 0 29. Roof 0 30. Other 0

(0) No occupant contact to glazing or no glazing

(1) Glazing contacted by occupant but no glazing damage

(2) Glazing in place and cracked by occupant contact

(3) Glazing in place and holed by occupant contact

(4) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact

(5) Glazing out-of-place by occupant contact and holed by occupant contact

(6) Glazing disintegrated by occupant contact

(9) Unknown if contacted by occupant

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

Type of Window/Windshield Glazing

31. WS 1 32. LF 0 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 0 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

OCCUPANT AREA INTRUSION

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

	Location of Intrusion	Intruding Component	Magnitude of Intrusion	Dominant Crush Direction
1st	47. <u>11</u>	48. <u>13</u>	49. <u>3</u>	50. <u>1</u>
2nd	51. <u>11</u>	52. <u>12</u>	53. <u>2</u>	54. <u>1</u>
3rd	55. <u>11</u>	56. <u>15</u>	57. <u>2</u>	58. <u>1</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. _____

LOCATION OF INTRUSION

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

(98) Other enclosed area (specify): _____

(99) Unknown

INTRUDING COMPONENT

Interior Components

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

Exterior Components

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

MAGNITUDE OF INTRUSION

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

DOMINANT CRUSH DIRECTION

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

STEERING COLUMN WORKING DIAGRAMS

STEERING COLUMN COLLAPSE

Steering Column Shear Module Movement



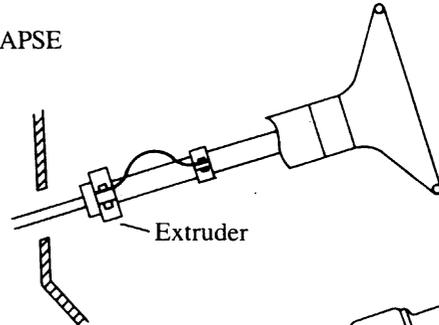
SHEAR CAPSULE

Left —

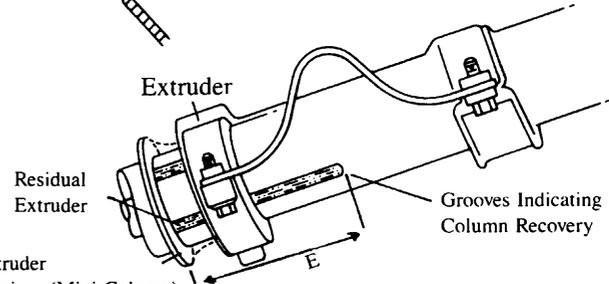


Right — V = _____"

Direction and Magnitude of Steering Column Movement



Extruder



Extruder

Residual Extruder

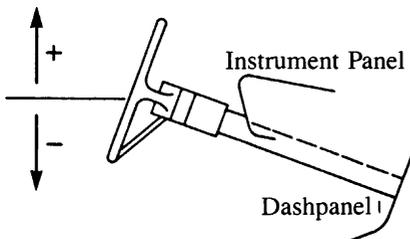
Grooves Indicating Column Recovery

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

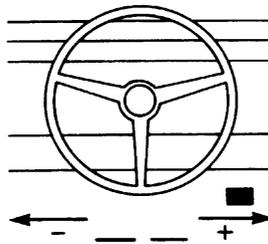
E = _____

STEERING COLUMN MOVEMENT

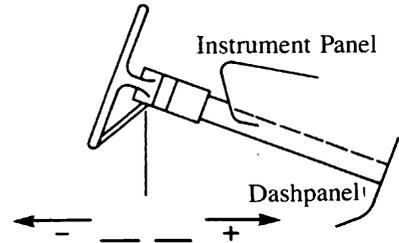
Vertical Movement



Lateral Movement



Longitudinal Movement



	COMPARISON VALUE	—	DAMAGED VALUE	=	MOVEMENT
VERTICAL		—		=	
LATERAL		—		=	
LONGITUDINAL		—		=	

STEERING RIM/SPOKE DEFORMATION

COMPARISON VALUE	—	DAMAGED VALUE	=	DEFORMATION
	—		=	
	—		=	

STEERING COLUMN

87. Steering Column Type 1

- (1) Fixed column
- (2) Tilt column
- (3) Telescoping column
- (4) Tilt and telescoping column
- (8) Other column type (specify):

(9) Unknown

88. Steering Column Collapse Due to Occupant Loading ∅∅

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

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

Estimated movement from observation

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

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

Direction And Magnitude of Steering Column Movement

89. Vertical Movement + ∅∅

90. Lateral Movement + ∅∅

91. Longitudinal Movement + ∅∅

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

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

Estimated movement from observation

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

- (__97) Apparent movement > 1 inch but cannot be measured or estimated
- (__99) Unknown

92. Steering Rim/Spoke Deformation ∅

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 ∅∅

- (00) No steering rim deformation

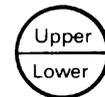
Quarter Sections

- (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 ∅ 26,000

26339 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: ODOMETER

95. Instrument Panel Damage from Occupant Contact 1

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

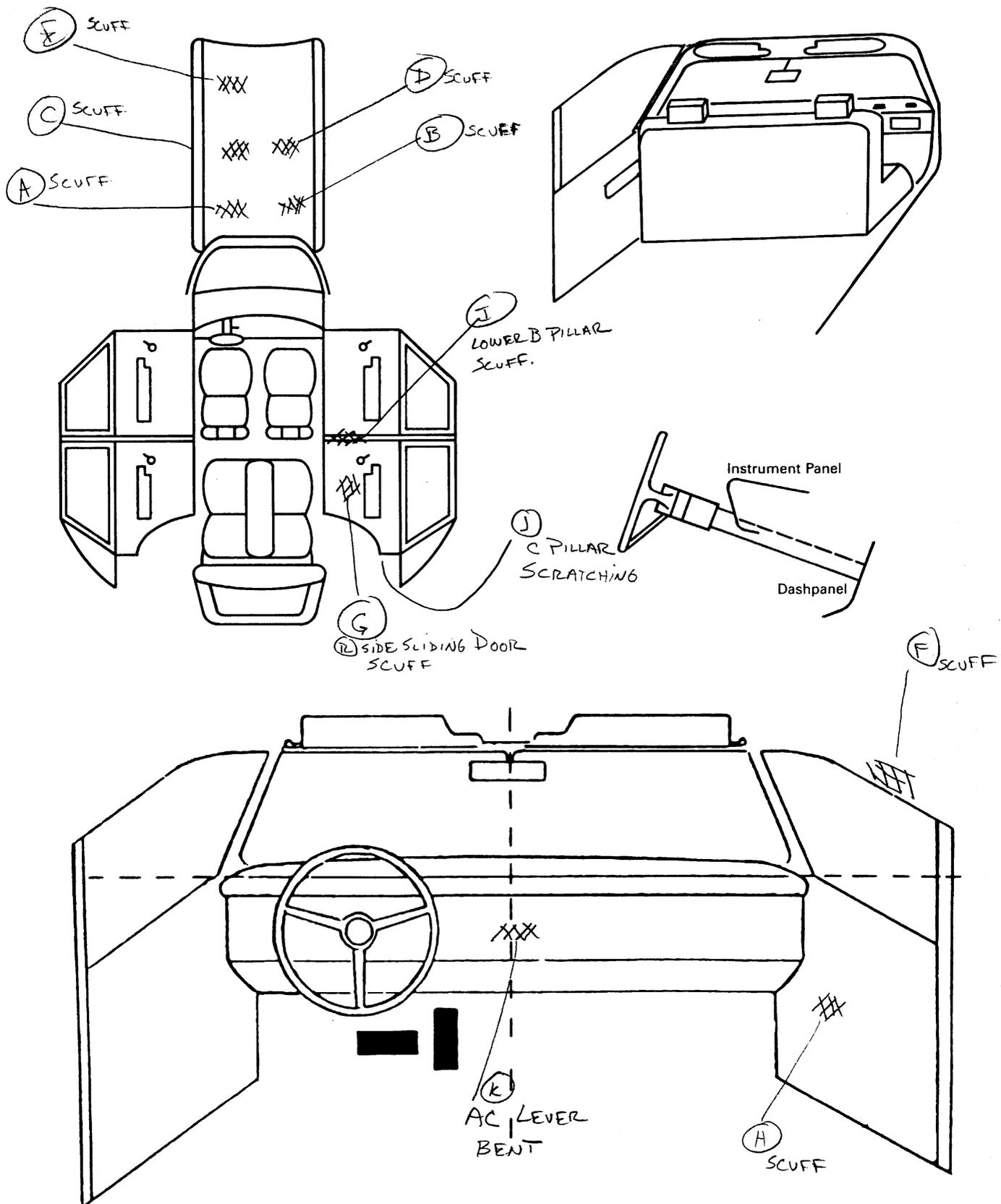
96. Knee Bolsters Deformed from Occupant Contact 8

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

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

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

VEHICLE INTERIOR SKETCHES



POINTS OF OCCUPANT CONTACT

Contact	Interior Component Contacted	Occupant No. If Known	Body Region If Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	54	1	HEAD	SCUFF + HAIR	1
B	54	2	↓	↓	1
C	54	3	↓	↓	1
D	54	4	↓	↓	1
E	54	5	↓	↓	1
F	53	2	HEAD	SCUFF	1
G	37	4	(R) SIDE	SCUFF	1
H	30	2	(R) SIDE	SCUFF	1
I	31	4	FEET	SCUFF - DENT	1
J	34	5	(R) SIDE	SCUFF	1
K	10	1	UNKNOWN	AC VENT BROKEN	1
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

RIGHT SIDE

- (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):

- (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):
C PILLAR
- (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):
SLIDING DOOR

INTERIOR

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

- (44) Head restraint system
- (45) Air cushion
- (46) Other occupants (specify):

- (47) Interior loose objects

- (48) Child safety seat (specify):

- (49) Other interior object (specify):

ROOF

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

FLOOR

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

REAR

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

CONFIDENCE LEVEL OF CONTACT POINT

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

AUTOMATIC RESTRAINTS

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

		Left	Center	Right
F I R S T	Availability			
	Function			
	Failure			

Automatic (Passive) Restraint System Availability

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

Automatic (Passive) Restraint Function

- (0) Not equipped/not available

Automatic Belt

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

Air Bag

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

Did Automatic (Passive) Restraint Fail

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

MANUAL RESTRAINTS

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

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

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

		Left	Center	Right
FIRST	Availability	4	∅	4
	Use	∅4	∅∅	∅4
	Failure Modes	1	∅	1
SECOND	Availability	3	3	3
	Use	∅3	∅3	∅3
	Failure Modes	1	∅	1
THIRD	Availability	3	3	3
	Use	∅3	∅3	∅3
	Failure Modes	∅	1	∅
OTHER	Availability	/		
	Use	/		
	Failure Modes	/		

Manual (Active) Belt System Availability

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

(9) Unknown

Manual (Active) Belt System Use

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

- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used – type unknown

(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) Manual belt failure(s) (encode all that apply above)
 - [A] Torn webbing (stretched webbing not included)
 - [B] Broken buckle or latchplate
 - [C] Upper anchorage separated
 - [D] Other anchorage separated (specify):

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

(9) Unknown

CHILD SAFETY SEAT FIELD ASSESSMENT

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

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

<p>1. Type of Child Safety Seat</p> <p>(0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): _____</p> <p>(8) Unknown child safety seat type (9) Unknown if child safety seat used</p> <p>2. Child Safety Seat Orientation</p> <p>(00) No child safety seat</p> <p>Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (03) Other orientation (specify): _____</p> <p>(04) Unknown orientation</p> <p>Designed for Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): _____</p> <p>(19) Unknown orientation</p> <p>Unknown Design or Orientation for This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): _____</p> <p>(29) Unknown orientation</p> <p>(99) Unknown if child safety seat used</p>	<p>3. Child Safety Seat Harness Usage</p> <p>4. Child Safety Seat Shield Usage</p> <p>5. Child Safety Seat Tether Usage</p> <p>Note: Options Below Are Used for Variables 3-5.</p> <p>(00) No child safety seat</p> <p>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</p> <p>Designed with Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used</p> <p>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</p> <p>(99) Unknown if child safety seat used</p> <p>6. Child Safety Seat Make/Model (Specify make/model and occupant number)</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
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HEAD RESTRAINTS/SEAT EVALUATION

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

		Left	Center	Right
FIRST	Head Restraint Type/Damage	∅	∅	∅
	Seat Type	∅8	∅∅	∅8
	Seat Performance	1	∅	1
SECOND	Head Restraint Type/Damage	∅	∅	∅
	Seat Type	∅3	∅3	∅3
	Seat Performance	1	1	1
THIRD	Head Restraint Type/Damage	∅	∅	∅
	Seat Type	∅3	∅3	∅3
	Seat Performance	1	1	2 I
OTHER	Head Restraint Type/Damage	/	/	/
	Seat Type	/	/	/
	Seat Performance	/	/	/

Head Restraint Type/Damage by Occupant at This Occupant Position

- (0) No head restraints
- (1) Integral – no damage
- (2) Integral – damaged during accident
- (3) Adjustable – no damage
- (4) Adjustable – damaged during accident
- (5) Add-on – no damage
- (6) Add-on – damaged during accident
- (8) Other (specify): _____
- (9) Unknown

Seat Type (This Occupant Position)

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

Seat Performance (This Occupant Position)

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

[I] Other (specify): ANCHOR TO FLOOR FAILED

(9) Unknown

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

EJECTION/ENTRAPMENT DATA

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

EJECTION No [] Yes []

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

Occupant Number						
Ejection						
Ejection Area						
Ejection Medium						
Medium Status						

Ejection

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

Ejection Area

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

(7) Roof

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

- (9) Unknown

Ejection Medium

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

(5) Integral structure

- (8) Other medium (specify):

- (9) Unknown

Medium Status (Immediately Prior to Impact)

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

ENTRAPMENT No [] Yes []

Describe entrapment mechanism: _____

Component(s): _____

(Note in vehicle interior diagram)

08191600000011 [REDACTED] 881.1310000000000122050000001 [REDACTED] 88 [REDACTED] 88
 08191600010012 [REDACTED] 881.1310000000000113N3100N
 08191601000021 1.13 0000000008812474211FBJS3165JH [REDACTED] 15509655990210505055
 05010400997997599 99 99999901
 08191601000031 1.13 000000000013100TDD001
 011380
 08191601000041 1.13 00000000006310110000020000080000000001000000010000000
 08191601000042 1.13 000000000111331111221111521
 100 00 00 00000026188
 08191601010051 1.13 0000000002517115011100000040491000400810000000000000000
 0000000000000
 08191601020051 1.13 0000000002617216021300000040491000400810000000000000000
 0000000000000
 08191601030051 1.13 0000000002417017022100000030391000300310000000000000000
 0000000000000
 08191601040051 1.13 0000000002217116022300000030391000300310000000000000000
 0000000000000
 08191601050051 1.13 0000000002217215523200000030391000300320000000000000000
 0000000000000
 08191688888888 [REDACTED] 881.121000000000YY0101YYY0501Y00000000000000000000000000000000
 00000000
 08191699999999 [REDACTED] 881.121000
 00000000

1988 NATIONAL ACCIDENT SAMPLING SYSTEM

ERROR SUMMARY SCREEN

08/89

[REDACTED]

1989

CURRENT VERSION: 1.13

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



PSU 08-191G (1988) #1
Best Available



PSU 08-191G (1988) #2
Best Available



PSU 08-191G (1988) #3
Best Available



PSU08-191G (1988) #4
Best Available



PSU 08-191G(1988) #5



PSU 08-191G(1988) #6



PSU06-191G (1988) #7



FSU 08-191G (1988) #8



PSU 08-191G (1988) #9



PSU 08-191G (1988) #10



PSU 08-191G (1988) # 11



PSU 08-191G (1988) #12



PSU 08-191G(1988) #13
Best Available



PSU 09-191G(1988) #14



PSU 08-191G(1988) #15



PSU 08-191G(1988) #16



PSU08-191G(1988) #17



PSU 08-191G(1988) #18



PSU 08-191G (1988) # 19



PSU 08-191G(1988) #20



PSU 08-191G(1988) #21



PSU 08-191G(1988) #22



PSU 08-191G(1988) #23



PSU 08-191G(1988) #24



PSU 08-191G(1988) #25



PSU 08-191 G(1988) #26



PSU 08-191G(1988) #27



PSU 06-191G(1988) #28



PSU 08-191G(1988) #29



PSU 08-191G(1988) #30



PSU 08-191G(1988) #31



FSU 08-191G(1988) #32



PSU 08-191G(1988) #33



PSU 08-191G(1988) #34



PSU 08-191G(1988) #35



PSU 08-191G(1988) #36



PSU 08-191G(1988) #37



PSU 08-191G(1988) #38



PSU 08-191G(1968) #39