



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

U.S. Department
of Transportation

**National Highway
Traffic Safety
Administration**

Dear Crash Data Researchers/Users:

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

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

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

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AUTO SAFETY HOTLINE
(800) 424-9393
Wash. D.C. Area 366-0123



CASE SUMMARY

PSU 48 CASE NO. 024A TYPE OF ACCIDENT _____

A. DESCRIPTION OF THE ACCIDENT SEQUENCE AND ACCIDENT PECULIARITIES

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

(SEE ATTACHED)

B. VEHICLE PROFILE(S)

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

DO NOT SANITIZE THIS FORM

C. PERSON PROFILE(S)

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

Body Region

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

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

Injury Type

Abrasion
 Amputation
 Avulsion
 Burn
 Concussion
 Contusion
 Crush
 Detachment, separation
 Dislocation

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

Abbreviated Injury Scale

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

DO NOT SANITIZE THIS FORM

PSU48

1996 Case Summary Form

CASE 024A

TYPE OF ACCIDENT: CAR - RUN OFF ROAD

A. DESCRIPTION OF THE ACCIDENT SEQUENCE AND ACCIDENT PECULIARITIES

V1 WAS TRAVELING EAST ON A 4-LANE DIVIDED ROADWAY WHICH CURVED SLIGHTLY TO THE LEFT. ICE PATCHES WERE ON THE ROADWAY WHICH CAUSED V1 TO LOSE CONTROL AND DEPART THE LEFT SIDE OF THE ROADWAY IN A SLIGHT CW ROTATION. V1 STRUCK A TREE WITH ITS LEFT SIDE BEHIND THE LEFT REAR TIRE. V1 THEN BEGAN TO ROTATE CCW AS IT STRUCK A TREE WITH ITS LEFT SIDE CONTACTING THE VEHICLE FROM THE AREA OF THE LEFT FRONT AXLE BACK. VI CONTINUED ITS CCW ROTATION STRIKING A TREE WITH ITS FRONT AND COMING TO REST AFTER STRIKING A 4TH TREE WITH ITS RIGHT SIDE. THE DRIVER OF V1 , PROTECTED BY A DEPLOYED AIRBAG AND AN AUTOMATIC SHOULDER BELT, WAS PRONOUNCED DEAD UPON ARRIVAL AT THE TRAUMA CENTER. V1 WAS TOWED DUE TO DISABLING DAMAGE.

01

PSU48

1996 Case Summary Form

CASE 024A

TYPE OF ACCIDENT: CAR - RUN OFF ROAD

B. VEHICLE PROFILE(S)

V e h. No	Class of Vehicle	Year/Make/ Model	Most Severe Damage Based on Vehicle Inspection		
			Damage Plane	Severity Descr.	Component Failure
1	INTERMEDIATE	93/NISSAN/MAXIMA	LEFT	SEVERE	LF & LR DOOR HINGE/ STRUCTURE FAILURE

01

PSU48

1996 Case Summary Form

CASE 024A

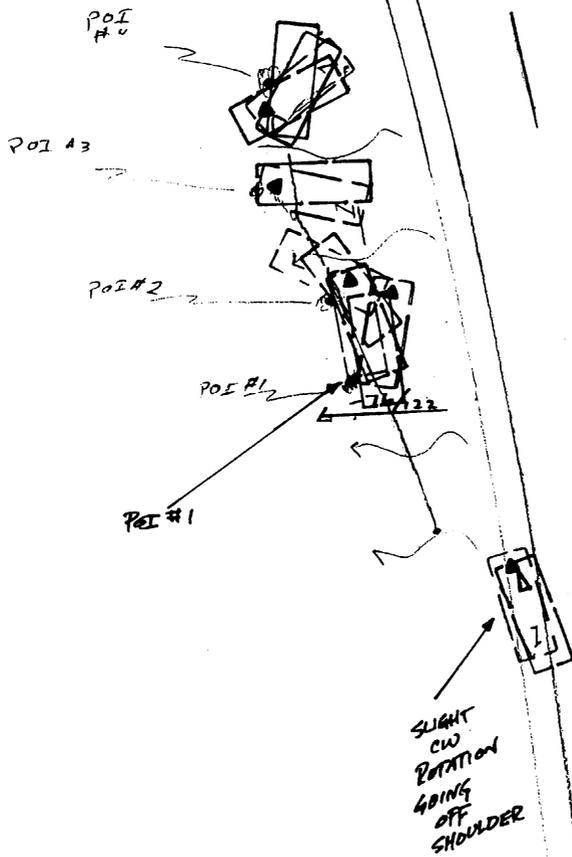
TYPE OF ACCIDENT: CAR - RUN OFF ROAD

C. PERSON PROFILE(S)

Most Severe Injury
(TO BE COMPLETED BY ZONE CENTER)

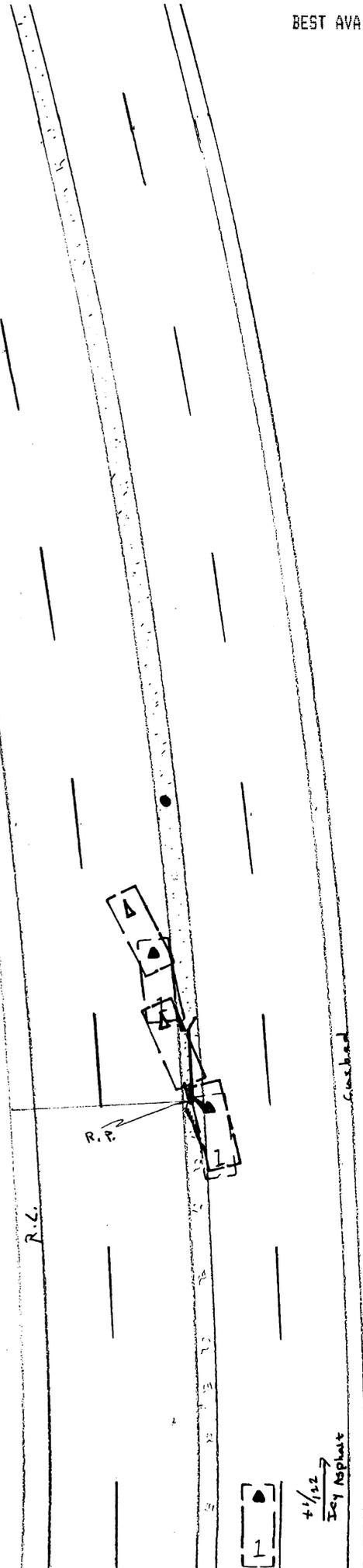
V e h. No	Person Role	Seat Positon	Restraint Use	Body Region	Injury Type	Most Severe Injury (TO BE COMPLETED BY ZONE CENTER)	
						A I S	Injury Source
1	DRIVER	FL	AUTO SHLD AIR BAG	HEAD ONLY	CRUSH	6	TREE

0



Scale: 1/250
 P48.024A

◁ Z ▷



1

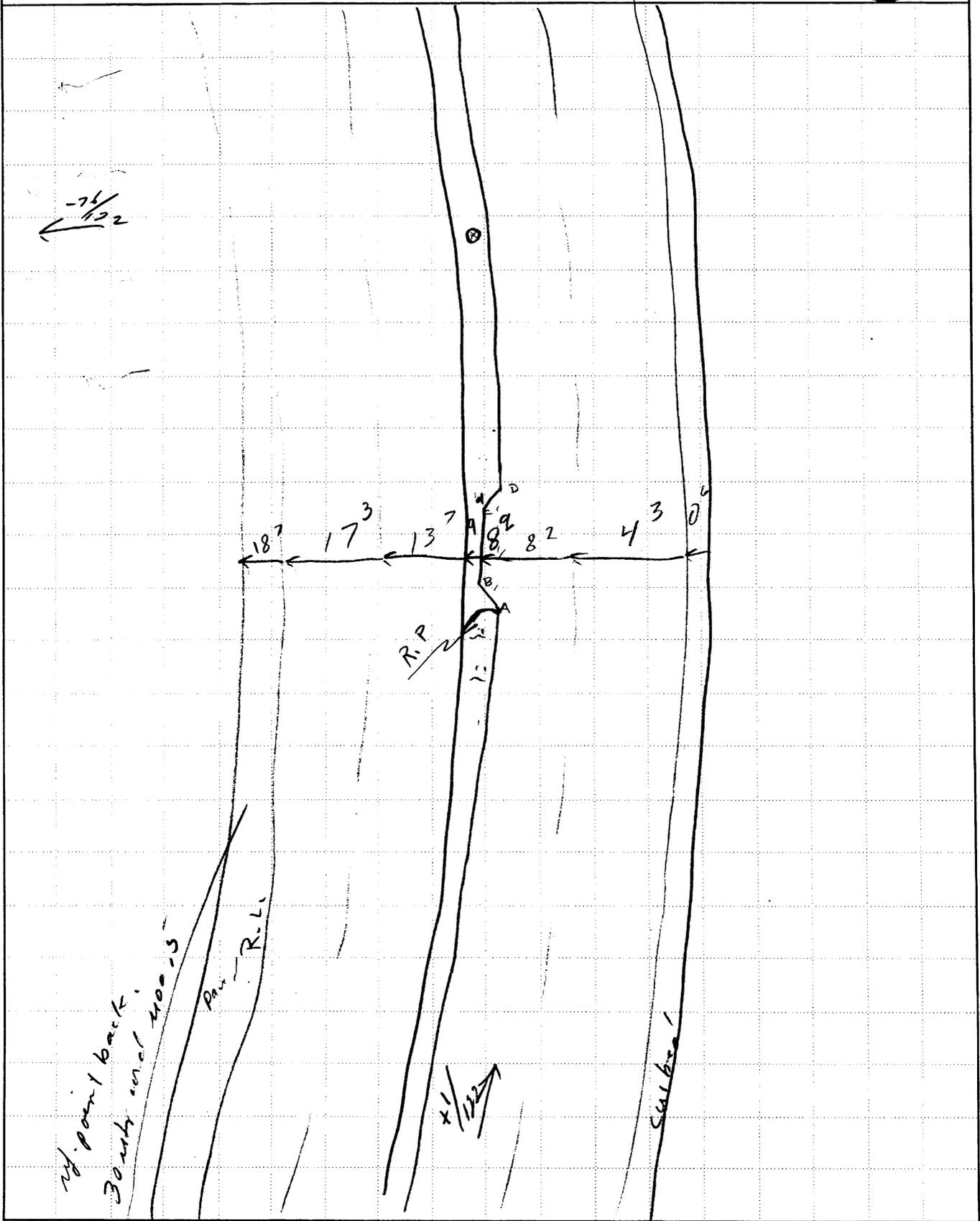
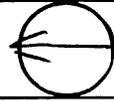


ACCIDENT COLLISION DIAGRAM

PSU No. 48

Case Number - Stratum 094A

Indicate
North





ACCIDENT COLLISION MEASUREMENT TABLE

Primary Sampling Unit Number 48

Case Number - Stratum 024A

ACCIDENT COLLISION DIAGRAM

Document the physical plant:

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

Document vehicle dynamics including:

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

CRASH DATA

	VEH. #1	VEH. #2	VEH. #3
Heading Angle	<u>270</u>	___	___
Surface Type	<u>Asphalt</u>	___	___
Surface Condition	<u>Icy</u>	___	___
Coefficient of Friction	<u>.25</u>	___	___
Grade (v/h) Measurement (between impact and final rest)	___	___	___
Grade (v/h) Measurement (at location of rollover initiation)	___	___	___
Grade (v/h) Measurement (at pre-crash location)	<u>+1/22</u>	___	___

Reference Point: end of grass median

Reference line: (2) roadway edge

Item	Distance and Direction from Reference Point	Distance and Direction from Reference Line
✓ Tire Mark #1 Begs + Ends	3 ⁰ W / 05 ^W	9' 8"
✓ Scuffs on Median #1	0 ³ W / 07 ^E	8 ⁰ 7 ²
✓ 2	3 ⁹ E / 5 ⁴ E	8 ⁴ 8 ⁰
✓ 3	4 ⁴ E / 8 ⁵ E	8 ⁶ 7 ²
✓ Drainage Ditch A B C D	05 ^W -0- / 3 ⁸ E / 4 ⁶	9' / 8" / 8 ⁴ / 9'
✓ Manhole cover	16 ⁹	8 ³ 5
(F) ✓ Tire Mark Begs	36 ⁵	4 ⁰ N
✓ Tree #1 / Loc. Tire Mark	42 ⁸ / 42 ⁸	65 / 5 ⁴ N
✓ #2 / " " "	46 ⁴ / 46 ⁴	67 / 6 ¹
✓ Tire Mark Splits	50 [?]	7 ⁻⁶
✓ End LF Bumper Scraping?	52 ⁰	8 ⁴
✓ End RR LF	53 ⁵	7 ¹
✓ Tree #3	52 ⁰	8 ⁶

Tree #4
HS Form 431A (1/96)
Maybe near? (over) 34⁵
49⁰ - 5¹⁰ 48⁷ - 48



ACCIDENT FORM

1. Primary Sampling Unit Number 48
2. Case Number - Stratum 024A

IDENTIFICATION

3. Number of General Vehicle Forms Submitted 01
4. Date of Accident (Month, Day, Year) [REDACTED] 19 6
5. Time of Accident 0822
Code reported military time of accident.
NOTE: Midnight = 2400
Unknown = 9999

SPECIAL STUDIES - INDICATORS

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

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

NUMBER OF EVENTS

11. Number of Recorded Events in This Accident 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 in the right columns.

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

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

CODES FOR CLASS OF VEHICLE

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

(36) Noncollision injury
(38) Other noncollision (specify):

(39) Noncollision – details unknown

Collision With Fixed Object
(41) Tree (≤ 10 cm in diameter)
(42) Tree (> 10 cm in diameter)
(43) Shrubbery or bush
(44) Embankment
(45) Breakaway pole or post (any diameter)

Nonbreakaway Pole or Post
(50) Pole or post (≤ 10 cm in diameter)
(51) Pole or post (> 10 cm but ≤ 30 cm in diameter)
(52) Pole or post (> 30 cm in diameter)
(53) Pole or post (diameter unknown)

(54) Concrete traffic barrier
(55) Impact attenuator
(56) Other traffic barrier (includes guardrail)
(specify): _____ | (57) Fence
(58) Wall
(59) Building
(60) Ditch or culvert
(61) Ground
(62) Fire hydrant
(63) Curb
(64) Bridge
(68) Other fixed object (specify):

(69) Unknown fixed object

Collision with Nonfixed Object
(70) Passenger car, light truck, van, or other vehicle
not in-transport
(71) Medium/heavy truck or bus not in-transport
(72) Pedestrian
(73) Cyclist or cycle
(74) Other nonmotorist or conveyance

(75) Vehicle occupant
(76) Animal
(77) Train
(78) Trailer, disconnected in transport
(79) Object fell from vehicle in-transport
(88) Other nonfixed object (specify):

(89) Unknown nonfixed object
(98) Other event (specify):

(99) Unknown event or object |
|---|---|

OCCUPANT RELATED

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

AIR BAG RELATED

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

VEHICLE WEIGHT ITEMS

- 43. Vehicle Curb Weight 1,420
 Code weight to nearest 10 kilograms.
 (045) Less than 454 kilograms
 (612) 6,124 kilograms or more
 (999) Unknown
3,139 lbs X .4536 = 1,424 kgs
 Source: _____

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

ROLLOVER DATA

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

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

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

Noncollision

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

Collision With Fixed Object

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

(45) Breakaway pole or post (any diameter)

Nonbreakaway Pole or Post

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

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

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

(69) Unknown fixed object

Collision with Nonfixed Object

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

(89) Unknown nonfixed object

(98) Other event (specify):

(99) Unknown event or object

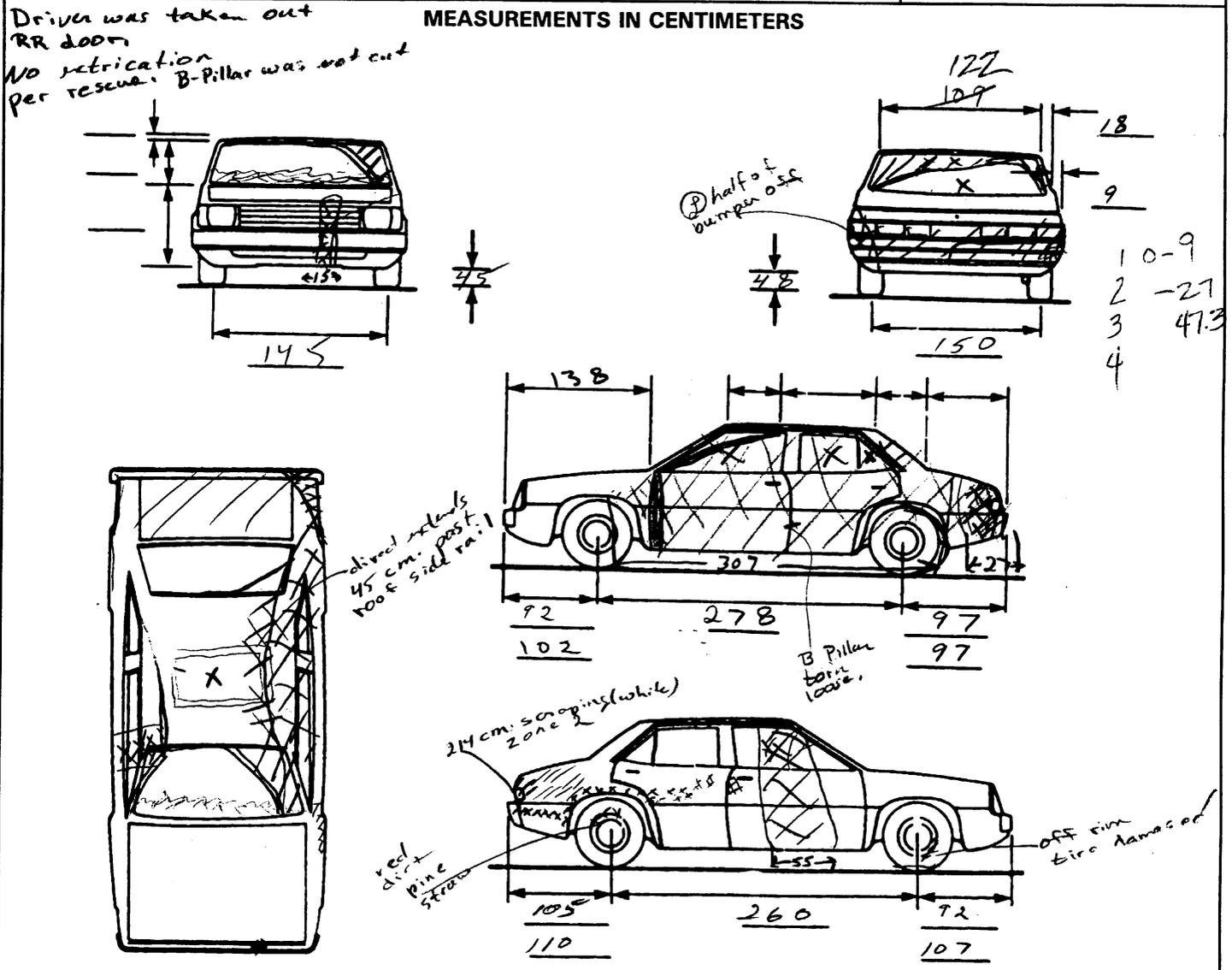
ORIGINAL SPECIFICATIONS WORK SHEET

Wheelbase	<u>104.3</u>	inches	x 2.54	=	<u>264.9</u>	cm
Overall Length	<u>187.4</u>	inches	x 2.54	=	<u>476.5</u>	cm
Maximum Width	<u>69.3</u>	inches	x 2.54	=	<u>176</u> 163.3	cm
Curb Weight	<u>3,139</u>	pounds	x .4536	=	<u>1424</u>	kg
Average Track	<u>59.1</u>	inches	x 2.54	=	<u>150</u>	cm
Front Overhang	_____	inches	x 2.54	=	_____	cm
Rear Overhang	_____	inches	x 2.54	=	_____	cm
Undeformed End Width	_____	inches	x 2.54	=	_____	cm
Engine Size: cyl./displ.	_____	cc	x .001	=	_____	L
	_____	CID	x .0164	=	_____	L

57.4
58.7

VEHICLE DAMAGE SKETCH

<p>TIRE—WHEEL DAMAGE</p> <p>a. Rotation physically restricted</p> <p>RF <u>2</u> LF <u>2</u> RR <u>2</u> LR <u>1</u></p> <p>b. Tire deflated</p> <p>RF <u>1</u> LF <u>2</u> RR <u>2</u> LR <u>1</u></p> <p>(1) Yes (2) No (8) NA (9) Unk.</p>	<p>ORIGINAL SPECIFICATIONS</p> <p>Wheelbase <u>265</u> cm</p> <p>Overall Length <u>477</u> cm</p> <p>Maximum Width <u>176</u> 163 cm</p> <p>Curb Weight <u>1424</u> kg</p> <p>Average Track <u>150</u> cm</p> <p>Front Overhang <u>102</u> cm</p> <p>Rear Overhang <u>110</u> cm</p> <p>Undeformed End Width <u>145</u> cm</p> <p>Engine Size: cyl./displ. <u>6 cyl. 3.4</u> L</p>	<p>WHEEL STEER ANGLES (For locked front wheels or displaced rear axles only)</p> <p>RF ± _____ ° LF ± _____ ° RR ± _____ ° LR ± <u>0</u> °</p> <p>Within ± 5 degrees</p>
<p>TYPE OF TRANSMISSION</p> <p><input type="checkbox"/> Manual <input type="checkbox"/> Automatic</p> <p>END SHIFT ≥ 10 CM</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>DRIVE WHEELS</p> <p><input checked="" type="checkbox"/> FWD <input type="checkbox"/> RWD <input type="checkbox"/> 4WD</p> <p>Approximate Cargo Weight <u>0</u> kg</p>	



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

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

CDC WORKSHEET

CODES FOR OBJECT CONTACTED

(01-30) — Vehicle Number

Noncollision

- (31) Overturn — rollover (excludes end-over-end)
- (32) Rollover—end-over-end
- (33) Fire or explosion
- (34) Jackknife
- (35) Other intraunit damage (specify): _____

(36) Noncollision injury

(38) Other noncollision (specify): _____

(39) Noncollision — details unknown

Collision With Fixed Object

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

(45) Breakaway pole or post (any diameter)

Nonbreakaway Pole or Post

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

(54) Concrete traffic barrier

(55) Impact attenuator

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

(57) Fence

(58) Wall

(59) Building

(60) Ditch or culvert

(61) Ground

(62) Fire hydrant

(63) Curb

(64) Bridge

(68) Other fixed object (specify): _____

(69) Unknown fixed object

Collision with Nonfixed Object

(70) Passenger car, light truck, van, or other vehicle not in-transport

(71) Medium/heavy truck or bus not in-transport

(72) Pedestrian

(73) Cyclist or cycle

(74) Other nonmotorist or conveyance

(75) Vehicle occupant

(76) Animal

(77) Train

(78) Trailer, disconnected in transport

(79) Object fell from vehicle in-transport

(88) Other nonfixed object (specify): _____

(89) Unknown nonfixed object

(98) Other event (specify): _____

(99) Unknown event or object

DEFORMATION CLASSIFICATION BY EVENT NUMBER

Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force (degrees)	Incremental Value of Shift	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
01✓	42	180 - 40	00	L	B	E	E	0302
02✓	42	180 - 20	00	L	D	A	W	0305
03✓	42	180 + 10	00	F	L	E	N	01
04✓	42	90	00	R	P	A	W	03
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—

0305 Basket direct to Pt. DEFINED

COLLISION DEFORMATION CLASSIFICATION

HIGHEST DELTA "V"

Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
4. <u>04</u>	5. <u>42</u>	6. <u>03</u>	7. <u>R</u>	8. <u>P</u>	9. <u>A</u>	10. <u>W</u>	11. <u>03</u>

Second Highest Delta "V"

12. <u>02</u>	13. <u>42</u>	14. <u>11</u>	15. <u>L</u>	16. <u>D</u>	17. <u>A</u>	18. <u>W</u>	19. <u>05</u> <u>03</u>
---------------	---------------	---------------	--------------	--------------	--------------	--------------	----------------------------

CRUSH PROFILE IN CENTIMETERS

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

HIGHEST DELTA "V"

20. L	21. C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	22. ±D
<u>255</u>	<u>000</u>	<u>004</u>	<u>010</u>	<u>027</u>	<u>009</u>	<u>000</u>	<u>024</u> ⁺

Second Highest Delta "V"

23. L	24. C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	25. ±D
<u>300</u>	<u>006</u>	<u>008</u>	<u>009</u>	<u>009</u>	<u>002</u>	<u>000</u>	<u>033</u> ⁺

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

27. Direct Damage Width
(For highest severity impact) 055
 _____ Code to the nearest centimeter
 (250) 250 centimeters or more
 (999) Unknown

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

29. Original Average Track Width 150
 _____ Code to the nearest centimeter
 (185) 185 centimeters or more
 (999) Unknown
 _____ inches X 2.54 = _____ centimeters
from specs

FUEL SYSTEM

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

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

32. Is This A Multi-Stage Manufactured Vehicle And/Or A Certified Altered Vehicle? 0
 (0) No post manufacturer modifications
 (1) Yes - post manufacturer modifications (specify): _____

 (Include photograph of CERTIFICATION PLACARD in case report)
 (9) Unknown if vehicle is modified

35. Location of Fuel Tank-1 Filler Cap 2

36. Location of Fuel Tank-2 Filler Cap 0

- (0) No fuel tank
- (1) On back plane
- (2) Aft of center of the rear wheels (rear axle) on left side plane
- (3) Aft of center of the rear wheels (rear axle) on right side plane
- (4) Forward of center of the rear wheels (rear axle) on left side plane
- (5) Forward of center of the rear wheels (rear axle) on right side plane
- (6) Over the center of the rear wheels (rear axle) on left side plane
- (7) Over the center of the rear wheels (rear axle) on right side plane
- (8) Other (specify): _____
- (9) Unknown

37. Type of Fuel Tank-1 1

38. Type of Fuel Tank-2 0

- (0) No fuel tank (electrical vehicle)
- (1) Metallic
- (2) Non-metallic
- (9) Unknown

39. Location of Fuel Tank-1 4

40. Location of Fuel Tank-2 0

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

41. Damage to Fuel Tank-1 1

42. Damage to Fuel Tank-2 0

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

FIRE OCCURRENCE

33. Fire Occurrence 0
 (0) No fire

 Yes, fire occurred
 (1) Minor
 (2) Major
 (9) Unknown

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

43. Leakage Location of Fuel System-1 1

44. Leakage Location of Fuel System-2 0

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

Primary Area Of Leakage

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

45. Fuel Type-1 01

46. Fuel Type-2 00

Single Fuel Type

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

Electric Powered or Electric/Solar Powered Vehicles

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

(98) Other Hybrid (specify): _____

(99) Unknown fuel type

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

(0) No (one or two tanks only)

Yes - More Than Two Tanks

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

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

(3) Yes -- damage to an additional tank or filler cap and there is fuel system leakage (specify the following):

Type of tank _____

Tank location _____

Filler cap location _____

Tank damage _____

Location of leakage _____

Type of fuel _____

(9) Unknown if more than two tanks

COMMENTS

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

(GV10=0)

DO NOT COMPLETE THE INTERIOR VEHICLE FORM.



1. Primary Sampling Unit Number 48
 2. Case Number - Stratum 024A
 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):
W/S - roof - side & back glass
- (99) Unknown

Door, Tailgate or Hatch Opening

5. LF 2 6. RF 3 7. LR 2 8. RR 1 9. TG/H 0

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

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

10. LF 2 11. RF 0 12. LR 5 13. RR 0 14. TG/H 0

- (0) No door/gate/hatch or door not opened
- Door, Tailgate or Hatch Came Open During Collision
- (1) Door operational (no damage)
 - (2) Latch/striker failure due to damage
 - (3) Hinge failure due to damage
 - (4) Door structure failure due to damage
 - (5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage
 - (6) Latch/striker and hinge failure due to damage
 - (8) Other failure (specify):
 - (9) Unknown

GLAZING

Type of Window/Windshield Glazing

15. WS 1 16. LF 2 17. RF 2 18. LR 2 19. RR 2
 20. BL 2 21. Roof 3 22. Other 2

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

Window Precrash Glazing Status

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

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

Glazing Damage from Impact Forces

31. WS 2 32. LF 6 33. RF 6 34. LR 6 35. RR 1
 36. BL 6 37. Roof 6 38. Other 6

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

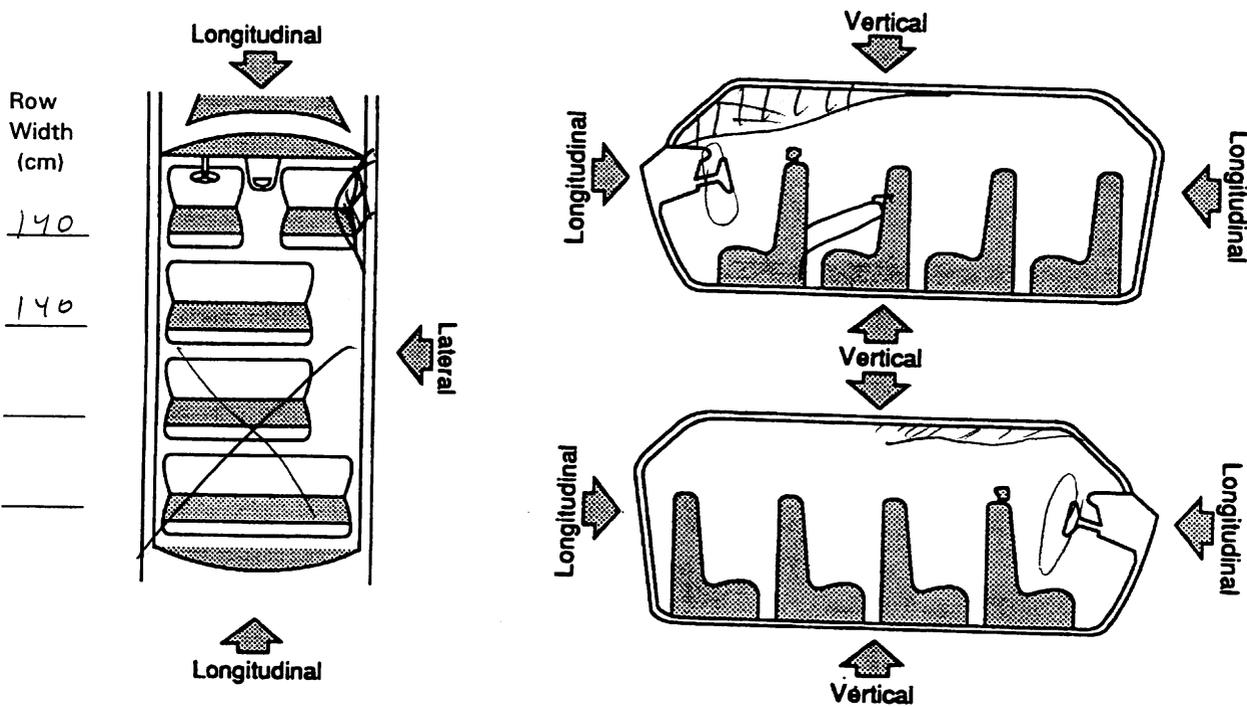
Glazing Damage from Occupant Contact

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

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

INTRUSION WORKSHEET

NOTE: SKETCH INTRUDED AREAS



LOCATION OF INTRUSION	INTRUDED COMPONENT	(All Measurements Are In Centimeters)			DOMINANT CRUSH DIRECTION
		COMPARISON VALUE	INTRUDED VALUE	INTRUSION	
11 + 12 → W/S Header		95	46	④ 49	Vert ↑
	Roof	100	50	③ 50	
	" Side Rail	95	46	⑥ 49	
	A-Pillar	95	46	⑦ 49	
	B- "	63	45	18	
21	Fra Seat Back	80	29	① 51	
22	" " "	80	29	② 51	Long
13	Door	65	40	⑩ 25	Lat
13	Roof Side R.	60	45	15	Lat ↑
	A Pillar	60	45	15	
21	B2 Header	32	20	12	vert
22		32	20	12	"
23		32	22	12	"
21	Roof Side Rail	95	68	⑨ 27	
	Roof	100	72	⑧ 28	

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>21</u>	48. <u>20</u>	49. <u>5</u>	50. <u>2</u>
2nd	51. <u>22</u>	52. <u>20</u>	53. <u>5</u>	54. <u>2</u>
3rd	55. <u>11</u>	56. <u>13</u>	57. <u>5</u>	58. <u>1</u>
4th	59. <u>11</u>	60. <u>16</u>	61. <u>5</u>	62. <u>1</u>
5th	63. <u>12</u>	64. <u>16</u>	65. <u>5</u>	66. <u>1</u>
6th	67. <u>11</u>	68. <u>14</u>	69. <u>5</u>	70. <u>1</u>
7th	71. <u>11</u>	72. <u>06</u>	73. <u>5</u>	74. <u>1</u>
8th	75. <u>21</u>	76. <u>13</u>	77. <u>3</u>	78. <u>1</u>
9th	79. <u>21</u>	80. <u>14</u>	81. <u>3</u>	82. <u>1</u>
10th	83. <u>13</u>	84. <u>11</u>	85. <u>3</u>	86. <u>3</u>

LOCATION OF INTRUSION

Front Seat

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

Second Seat

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

Third Seat

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

Fourth Seat

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

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

Exterior Components

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

MAGNITUDE OF INTRUSION

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

DOMINANT CRUSH DIRECTION

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

STEERING COLUMN

INSTRUMENT PANEL

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

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

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

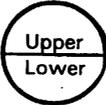
90. Steering Rim/Spoke Deformation 0 0
 Code actual measured
 deformation to the nearest centimeter
 (00) No steering rim deformation
 (01-14) Actual measured value in centimeters
 (15) 15 centimeters or more
 (98) Observed deformation cannot be measured
 (99) Unknown

91. Location of Steering Rim/Spoke Deformation 0 0
 (00) No steering rim deformation

Quarter Sections
 (01) Section A
 (02) Section B
 (03) Section C
 (04) Section D



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




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

92. Odometer Reading 0 6 8,000
 _____ kilometers
 Code to the nearest 1,000 kilometers
 (000) No odometer
 (001) Less than 1,500 kilometers
 (500) 499,500 kilometers or more
 (999) Unknown
042,222 miles X 1.6093 = 67,948 kilometers
 Source: VI

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

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

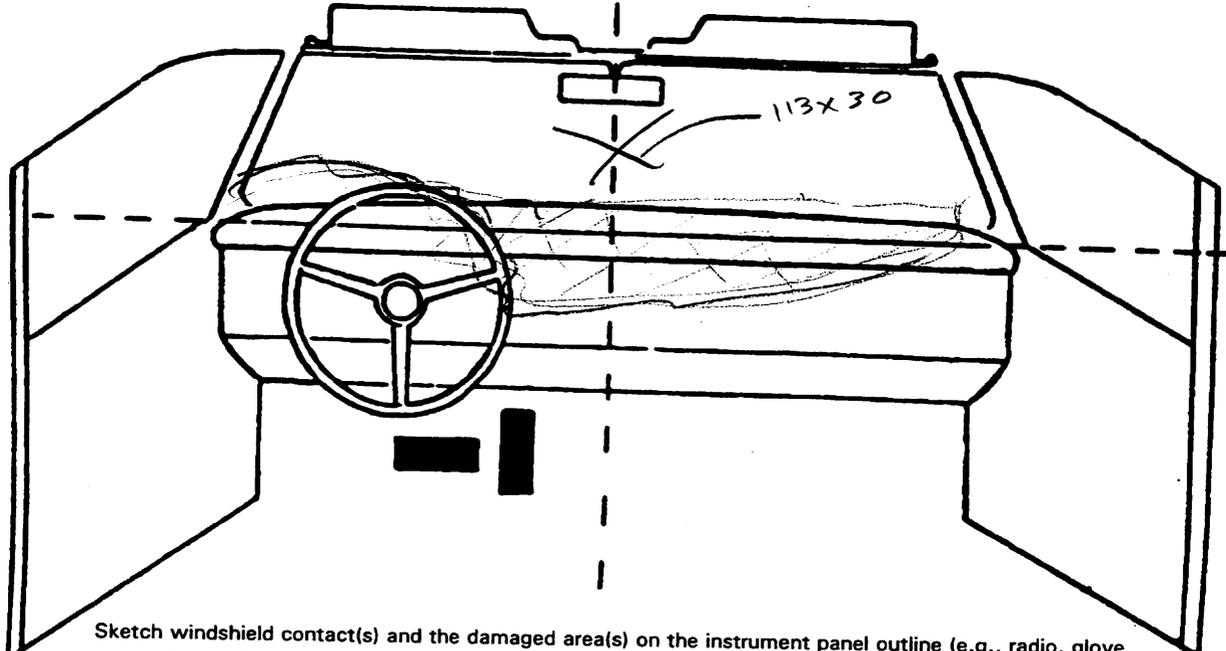
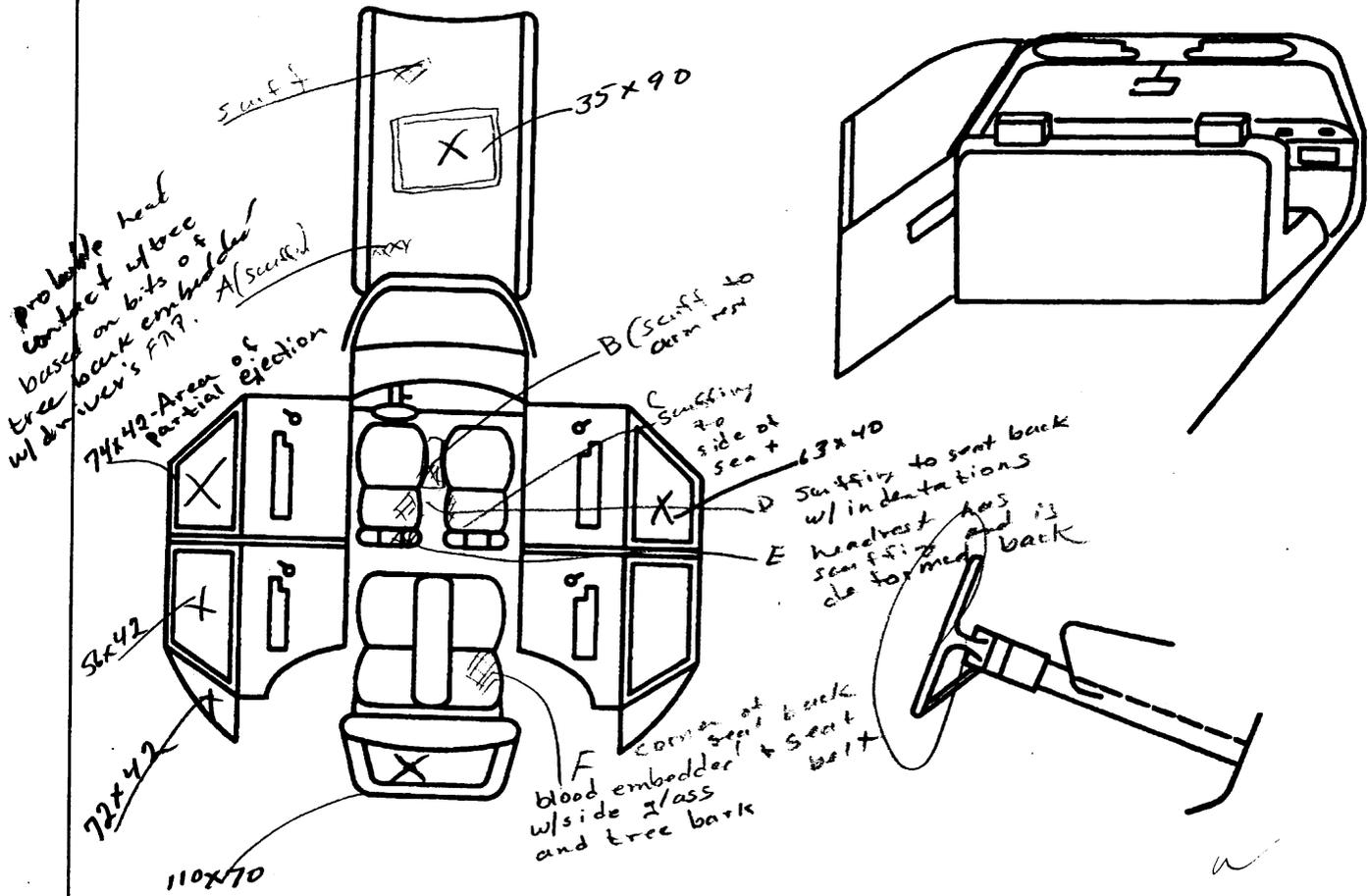
95. Knee Bolsters Deformed from Occupant Contact? 1
 (0) No knee bolster
 (1) No deformation
 (2) Yes - deformation
 (9) Unknown

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

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

VEHICLE INTERIOR SKETCHES

Note area of ejection/entrapment



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

POINTS OF OCCUPANT CONTACT

Contact	Interior Component Contacted	Occupant No. If Known	Body Region If Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	205	1	Head	Scuffs	3
B	163	1	Side	Scuffs	2
C	151	1	"	Scuffs	2
D	151	1	Back	Scuffs w/ indentations, deformed	1
E	155	1	Head	Scuffs / deformed back	1
F	151	1	Head	Blood w/ embedded tree bark + side glass	1
G					
H					
I					
J					
K					
L					
M					
N					

CODES FOR INTERIOR COMPONENTS

FRONT

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

LEFT SIDE

- (051) Left side interior surface, excluding hardware or armrests
- (052) Left side hardware or armrest
- (053) Left A (A1/A2)-pillar
- (054) Left B-pillar
- (055) Other left pillar (specify): _____
- (056) Left side window glass
- (057) Left side window frame
- (058) Left side window sill
- (059) Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.
- (060) Other left side object (specify): _____
- RIGHT SIDE**
- (101) Right side interior surface, excluding hardware or armrests
- (102) Right side hardware or armrest
- (103) Right A (A1/A2)-pillar
- (104) Right B-pillar
- (105) Other right pillar (specify): _____
- (106) Right side window glass
- (107) Right side window frame
- (108) Right side window sill
- (109) Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.
- (110) Other right side object (specify): _____

INTERIOR

- (151) Seat, back support
- (152) Belt restraint webbing/buckle
- (153) Belt restraint B-pillar or door frame attachment point
- (154) Other restraint system component (specify): _____
- (155) Head restraint system
- (160) Other occupants (specify): _____
- (161) Interior loose objects
- (162) Child safety seat (specify): _____
- (163) Other interior object (specify): Arm Rest
- AIR BAG**
- (170) Air bag-driver side
- (175) Air bag compartment cover-driver side
- (180) Air bag-passenger side
- (185) Air bag compartment cover-passenger side
- (190) Other air bag (specify) _____
- (195) Other air bag compartment cover (specify) _____

ROOF

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

FLOOR

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

REAR

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

ADAPTIVE (ASSISTIVE) DRIVING EQUIPMENT

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

CONFIDENCE LEVEL OF CONTACT POINT

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

MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form. If a child safety seat is present, encode the data on the back of this page 11. If the vehicle has automatic restraints available, encode the appropriate data on page 6.

		Left	Center	Right
FIRST	A-Availability	3	0	3
	B-Evidence of usage	00	00	00
	C-Used in this crash?	0	0	0
	D-Proper Use	0	0	0
	E-Failure Modes	0	0	0
	F-Anchorage Adjustment	0	0	0
SECOND	A-Availability	4	3	4
	B-Evidence of usage	00	00	00
	C-Used in this crash?	0	0	0
	D-Proper Use	0	0	0
	E-Failure Modes	0	0	0
	F-Anchorage Adjustment	1	0	1
OTHER	A-Availability			
	B-Evidence of usage			
	C-Used in this crash?			
	D-Proper Use			
	E-Failure Modes			
	F-Anchorage Adjustment			

A-Manual (Active) Belt System Availability

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

Integral Belt Partially Destroyed

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

B/C-Manual (Active) Belt System Use

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

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

D-Proper Use of Manual (Active) Belts

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

Belt Used Improperly

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

E-Manual (Active) Belt Failure Modes During Accident

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

F-Shoulder Belt Upper Anchorage Adjustment

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

Adjustable shoulder Belt Upper Anchorage

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

↓ lap belt was fully recoiled until researcher pulled it out to examine. It will not re-coil!

AUTOMATIC RESTRAINTS

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

AIR BAGS

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

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

AUTOMATIC BELTS

		Left	Right
F I R S T	A-Availability/Function	/	/
	B-Use	/	0
	C-Type	2	2
	D-Proper Use	/	0
	E-Failure Modes	/	0

- | | | |
|--|--|---|
| <p>A-Automatic (Passive) Belt System Availability/Function</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>D-Proper Use of Automatic (Passive) Belt System</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): _____</p> <p>(8) Other improper use of automatic belt system (specify): _____
(9) Unknown</p> | <p>E-Automatic (Passive) Belt Failure Modes During Accident</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): _____</p> <p>(6) Broken retractor
(7) Combination of above (specify): _____
(8) Other automatic belt failure (specify): _____
(9) Unknown</p> |
| <p>B-Automatic (Passive) Belt System Use</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>C-Automatic (Passive) Belt System Type</p> <p>(0) Not equipped/not available
(1) Non-motorized system
(2) Motorized system
(9) Unknown</p> | | |

FIRST SEAT FRONTAL AIR BAGS

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

	Driver	Passenger
A-Type of air bag?	1	
B-Flaps open at tear points?	2	0
C-Flaps damaged?	2	
D-Air bag damaged?	03	
E-Source of air bag damage	glasses	
F-Air bag tethered?	2	
G-Air bag have vent ports?	2	
H-Other occupant contact air bag?	1	
I-Occupant wearing eyewear?	2	

A-Type of Air Bag

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

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

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

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

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

D-Was There Damage To The Air Bag?

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

Yes - Air Bag Damage

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

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

E-Source of Air Bag Damage

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

F-Was The Air Bag Tethered?

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

G-Did The Air Bag Have Vent Ports?

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

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

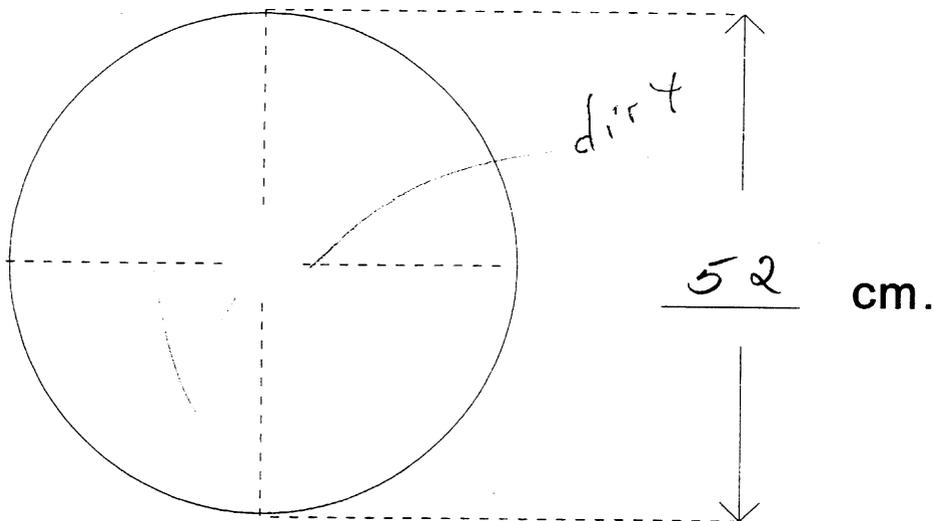
- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if other occupant contact to air bag
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

I-Was This Occupant Wearing Eye-wear?

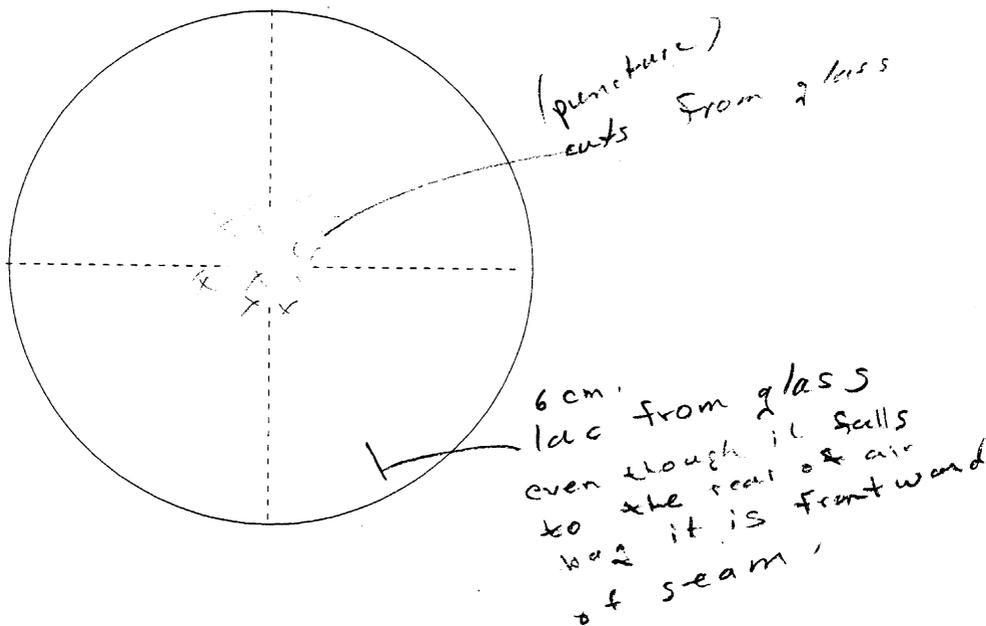
- (0) Not equipped/not available
- (1) No
- (2) Eyeglasses/sunglasses
- (3) Contact lenses
- (4) Deployed, unknown if eyewear worn
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

DRIVER AIR BAG DAMAGE AND CONTACT SKETCHES

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



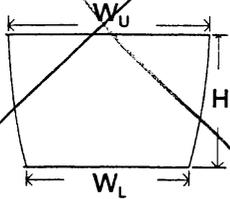
2. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Back)



DRIVER AIR BAG SKETCHES (Cont'd)

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

width (W_U) _____ width (W_L) _____
 height (H) _____

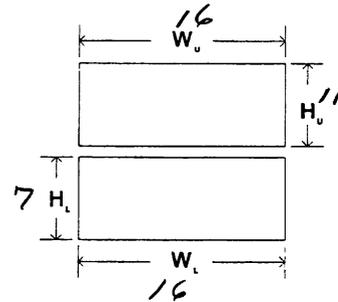


4. DRIVER AIR BAG MODULE COVER FLAP SIZE (DOUBLE)

a. Upper Flap b. Lower Flap

width (W_U) _____ width (W_L) _____

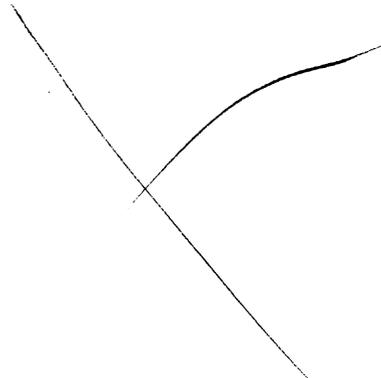
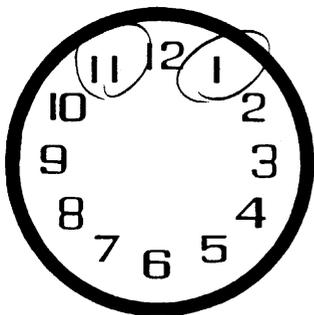
height (H_U) _____ height (H_L) _____



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

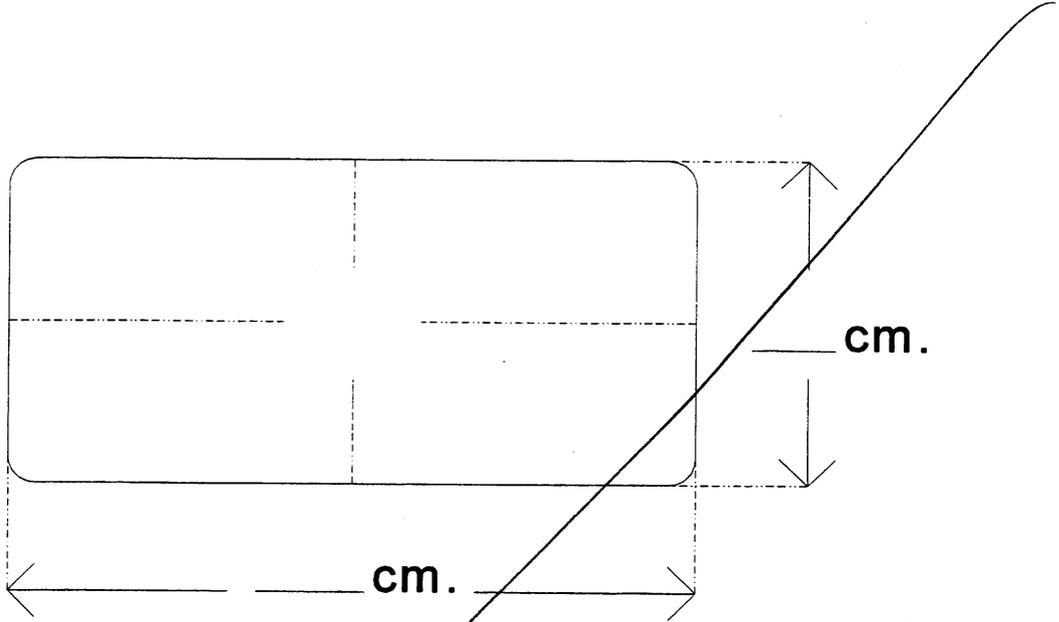
6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS

7. SKETCH LOCATION OF CIRCULAR AIR BAG VENT PORTS

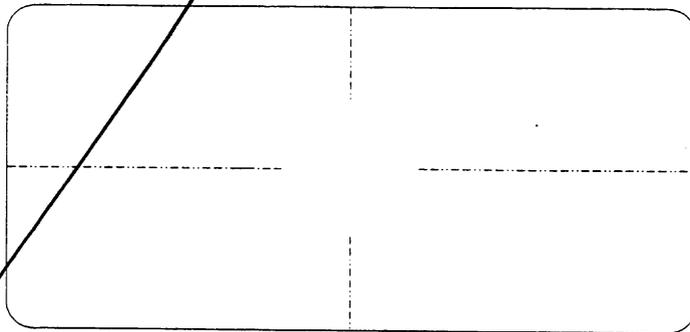


PASSENGER AIR BAG DAMAGE AND CONTACT SKETCHES

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



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

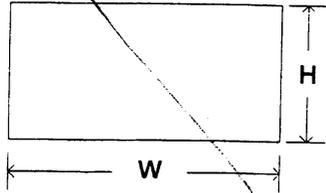


PASSENGER AIR BAG SKETCHES (Cont'd)

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

width (W) _____

height (H) _____



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

a. Upper Flap

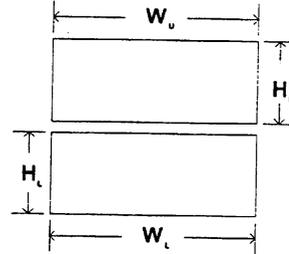
b. Lower Flap

width (W_U) _____

width (W_L) _____

height (H_U) _____

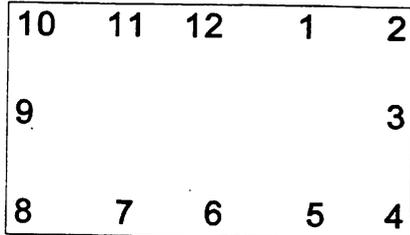
height (H_L) _____



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

6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS

7. SKETCH LOCATION OF RECTANGULAR AIR BAG VENT PORTS



"OTHER" AIR BAG DAMAGE AND CONTACT SKETCHES

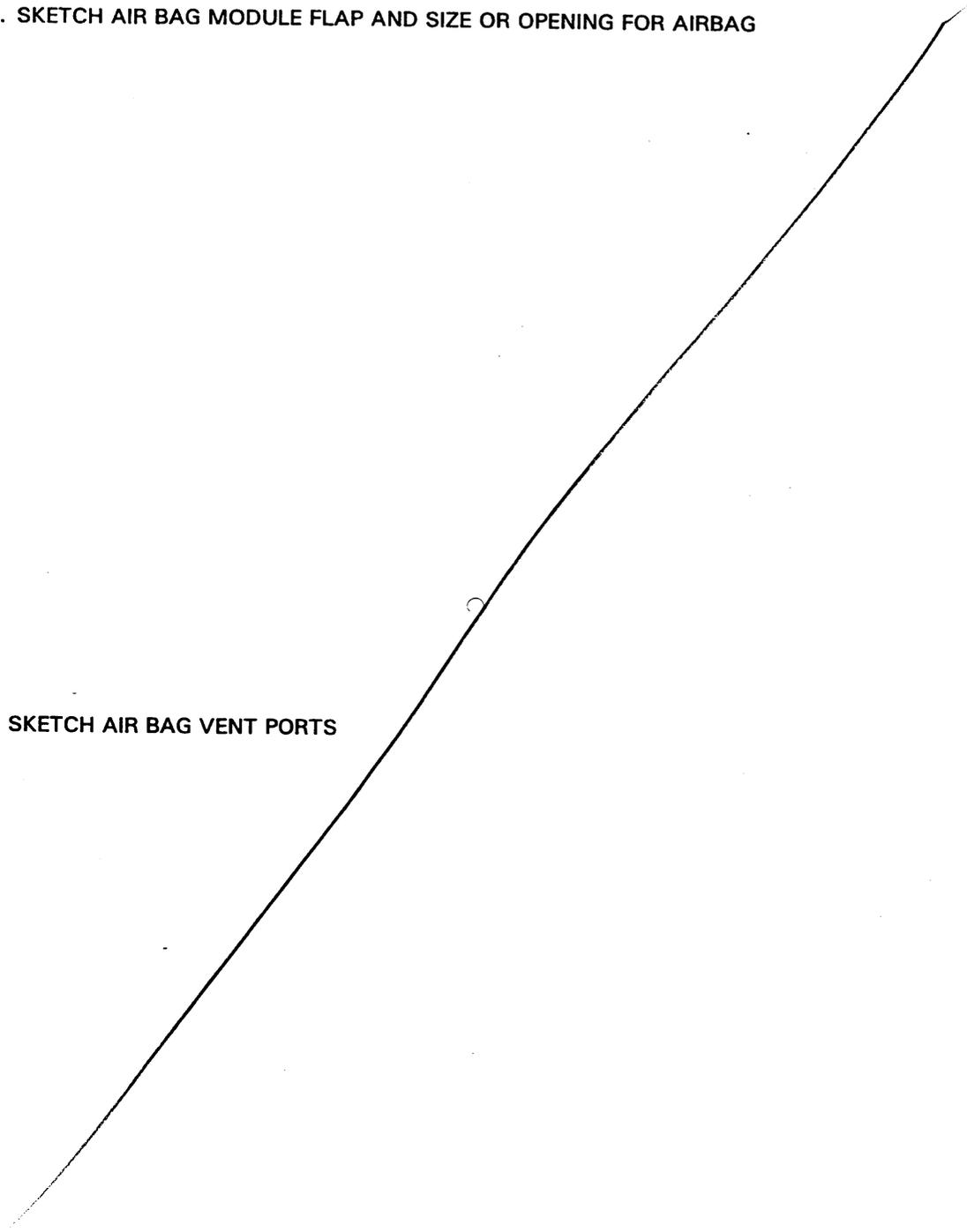
1. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Front)

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

"OTHER" AIR BAG SKETCHES (Cont'd)

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

4. SKETCH AIR BAG VENT PORTS



HEAD RESTRAINTS/SEAT EVALUATION

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

		Left	Center	Right
F I R S T	A-Head Restraint Type/Damage	4	0	3
	B-Seat Type	01	0	01
	C-Seat Orientation	1	0	1
	D-Seat Track Position	6	0	6
	E-Seat Back Incline Pre/Post Impact	fully reclined now 21		23
	F-Seat Performance	5	0	1
S E C O N D	A-Head Restraint Type/Damage	1	0	1
	B-Seat Type	03	03	03
	C-Seat Orientation	1	1	1
	D-Seat Track Position	1	1	1
	E-Seat Back Incline Pre/Post Impact	01	01	01
	F-Seat Performance	6	1	1
T H I R D	A-Head Restraint Type/Damage			
	B-Seat Type			
	C-Seat Orientation			
	D-Seat Track Position			
	E-Seat Back Incline Pre/Post Impact			
	F-Seat Performance			
O T H E R	A-Head Restraint Type/Damage			
	B-Seat Type			
	C-Seat Orientation			
	D-Seat Track Position			
	E-Seat Back Incline Pre/Post Impact			
	F-Seat Performance			

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

HEAD RESTRAINTS/SEAT EVALUATION

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

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

B-Seat Type (this Occupant Position)

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

C-Seat Orientation (this Occupant Position)

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

D-Seat Track Adjusted Position Prior To Impact

- (0) Occupant not seated or no seat

- (1) Non-adjustable seat track

Adjustable Seat Track

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

E-Seat Back Incline Prior and Post Impact

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

Upright prior to impact

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

Slightly reclined prior to impact

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

Completely reclined prior to impact

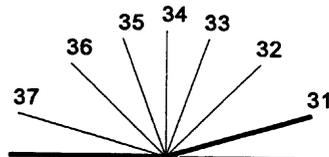
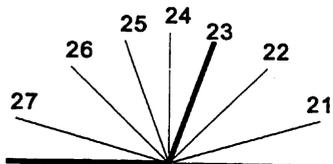
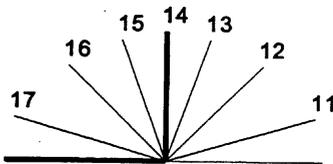
- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown

F-Seat Performance (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed (specify): _____

- (4) Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify): seat back cushion pushed to R
- (7) Combination of above (specify): _____

- (8) Other (specify): _____
- (9) Unknown



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

CHILD SAFETY SEAT FIELD ASSESSMENT

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

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

1. Type of Child Safety Seat

- (0) No child safety seat
- (1) Infant seat
- (2) Toddler seat
- (3) Convertible seat
- (4) Booster seat
- (7) Other type child safety seat (specify):

- (8) Unknown child safety seat type
- (9) Unknown if child safety seat used

2. Child Safety Seat Orientation

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

- (09) Unknown orientation

Designed for Forward Facing for This Age/Weight

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

- (19) Unknown orientation

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

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

- (29) Unknown orientation

(99) Unknown if child safety seat used

3. Child Safety Seat Harness Usage

4. Child Safety Seat Shield Usage

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

Not Designed with Harness/Shield/Tether

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

Designed With Harness/Shield/Tether

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

Unknown If Designed With Harness/Shield/Tether

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

(99) Unknown if child safety seat used

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

EJECTION/ENTRAPMENT DATA

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

EJECTION No [] Yes []

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

occ. contact in rear seat has bits of side glass and tree
bank mixed with which appear to have been on
occupants head prior to contact w/seat??

Occupant Number	1					
Ejection	2					
(Note on Vehicle Interior Sketch) Ejection Area	2					
Ejection Medium	4					
Medium Status	2					

Ejection

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

Ejection Area

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

(7) Roof

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

- (9) Unknown

Ejection Medium

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

LF side Glass

(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 on vehicle interior sketch)



OCCUPANT ASSESSMENT FORM

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number	<u>48</u>
2. Case Number - Stratum	<u>024A</u>
3. Vehicle Number	<u>01</u>
4. Occupant Number	<u>01</u>

OCCUPANT'S CHARACTERISTICS

5. Occupant's Age POB 31
Code actual age at time of accident.
(00) Less than one year old (specify by month): _____
(97) 97 years and older
(99) Unknown

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

7. Occupant's Height 183
Code actual height to the nearest centimeter.
(999) Unknown

72 inches X 2.54 = 182.8 centimeters

8. Occupant's Weight 094
Code actual weight to the nearest kilogram.
(999) Unknown

208 pounds X .4536 = 94.3 kilograms

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

OCCUPANT'S SEATING

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

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

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

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

(97) In or on unenclosed area
(98) Other seat (specify): _____
(99) Unknown

11. Occupant's Posture 2
(0) Normal posture

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

EJECTION/ENTRAPMENT

12. Ejection 2

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

13. Ejection Area 2

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

14. Ejection Medium 4

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

15. Medium Status (Immediately Prior To Impact) 2

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

16. Entrapment 0

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

17. Occupant Mobility 2

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

BELT SYSTEM FUNCTION

18. Manual (Active) Belt System Availability 3

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

Integral Belt Partially Destroyed

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

(9) Unknown19. Manual (Active) Belt System Use 00

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

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

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

20. Proper Use of Manual (Active) Belts 0

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

Belt Used Improperly

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

(8) Other improper use of manual belt system (specify):(9) Unknown21. Manual (Active) Belt Failure Modes During Accident 0

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

(6) Broken retractor(7) Combination of above (specify):(8) Other manual belt failure (specify):(9) Unknown22. Manual Shoulder Belt Upper Anchorage Adjustment 0

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

Adjustable shoulder Belt Upper Anchorage

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

23. Automatic (Passive) Belt System Availability/Function 1

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

Non-functional

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

24. Automatic (Passive) Belt System Use 1

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

25. Automatic (Passive) Belt System Type 2

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

26. Proper Use of Automatic (Passive) Belt System 1

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

Automatic Belt Used Improperly

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

automatic shoulder belt used improperly with child safety seat (specify):(8) Other improper use of automatic belt system (specify):(9) Unknown27. Automatic (Passive) Belt Failure Modes During Accident 1

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

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

POLICE REPORTED RESTRAINT USE

AIR BAG SYSTEM FUNCTION

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

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

Check the Primary Source Used In Determining Belt Use.

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

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

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

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

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

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

FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION

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

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

Yes

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

36. Type of Air Bag 1

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

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

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

(9) Unknown

38. Air Bag Deployment Accident Event Sequence Number 02

- (00) Not equipped/not available
Code the accident event sequence number that initiated the air bag deployment

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

39. CDC For Air Bag Deployment Impact 2

- (0) Not equipped/not available
(1) Highest delta V
(2) Second highest delta V
(3) Other non-coded delta V (specify):

- (6) Deployed, unknown event
(7) Not deployed
(8) Unknown if deployed
(9) Unknown

40. Longitudinal Component of Delta V For Air Bag Deployment Impact 014

- (000) Not equipped/not available 018
Code the value of the delta V for the impact that initiated the air bag deployment

- (996) Deployment, unknown longitudinal Delta V
(997) Not deployed
(998) Unknown if deployed
(999) Unknown

41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? 2

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

42. Were Air Bag Module Cover Flap(s) Damaged? 1

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

43. Was There Damage To The Air Bag? 01

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

Yes - Air Bag Damage

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

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

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

44. Source of Air Bag Damage 96
 (00) Not equipped/not available
 (01) Not damaged 01
 (02) Object worn by occupant, (specify):

 (03) Object carried by occupant, (specify):

 (04) Adaptive/assistive controls, (specify):

 (05) Fire in vehicle
 (06) Thermal burns
 (07) Rescue or emergency efforts
 (88) Other damage source (specify):
Glass

 (95) Damaged, unknown source
 (96) Deployed, unknown if damaged
 (97) Not deployed
 (98) Unknown if deployed
 (99) Unknown
45. Was The Air Bag Tethered? 2
 (0) Not equipped/not available
 (1) No
 (2) Yes (specify number of tether straps):
2

 (3) Deployed, unknown if tethered
 (7) Not deployed
 (8) Unknown if deployed
 (9) Unknown
46. Did The Air Bag Have Vent Ports? 1
 (0) Not equipped/not available
 (1) No
 (2) Yes (specify number of vent ports):
2

 (3) Deployed, unknown if vent ports present
 (7) Not deployed
 (8) Unknown if deployed
 (9) Unknown
47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? 1
 (0) Not equipped/not available
 (1) No
 (2) Yes (specify):

 (3) Deployed, unknown if other occupant contact to air bag
 (7) Not deployed
 (8) Unknown if deployed
 (9) Unknown
48. Was This Occupant Wearing Eye-wear? 1
 (0) Not air bag equipped/air bag not available
 (1) No
 (2) Eyeglasses/sunglasses
 (3) Contact lenses
 (4) Deployed, unknown if eyewear worn
 (7) Not deployed
 (8) Unknown if deployed
 (9) Unknown

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

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

 (99) Unknown
51. Seat Orientation (this Occupant Position) 1
 (0) Occupant not seated or no seat
 (1) Forward facing seat
 (2) Rear facing seat
 (3) Side facing seat (inward)
 (4) Side facing seat (outward)
 (8) Other (specify):

 (9) Unknown
52. Seat Track Adjusted Position Prior To Impact 6
 (0) Occupant not seated or no seat
 (1) Non-adjustable seat track

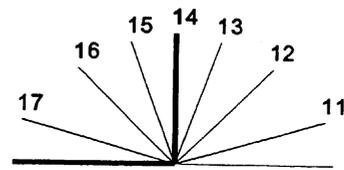
Adjustable Seat Track
 (2) Seat at forward most track position
 (3) Seat between forward most and middle track positions
 (4) Seat at middle track position
 (5) Seat between middle and rear most track positions
 (6) Seat at rear most track position
 (9) Unknown

HEAD RESTRAINT AND SEAT EVALUATION *continued*

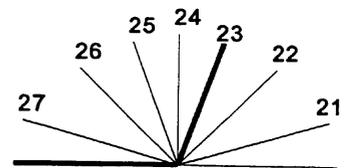
53. Seat Back Incline Prior and Post Impact 21
 (00) Occupant not seated or no seat
 (01) Not adjustable

Upright prior to impact

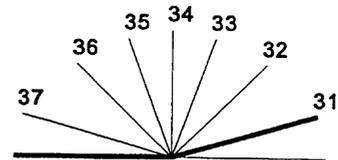
- (11) Moved to completely rearward position
 (12) Moved to rearward midrange position
 (13) Moved to slightly rearward position
 (14) Retained pre-impact position
 (15) Moved to slightly forward position
 (16) Moved to forward midrange position
 (17) Moved to completely forward position

***Slightly reclined prior to impact***

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

***Completely reclined prior to impact***

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



54. Seat Performance (this Occupant Position) 5

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

CHILD SAFETY SEAT

55. Child Safety Seat Make/Model 000
 (000) No child safety seat

Applicable codes are found in your NASS CDS
 Data Collection, Coding and Editing
 (950) Built-in child safety seat
 (997) Other make/model (specify):

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

56. Type of Child Safety Seat 0

- (0) No child safety seat
 (1) Infant seat
 (2) Toddler seat
 (3) Convertible seat
 (4) Booster seat - with shield
 (5) Booster seat - without shield
 (7) Other type child safety seat (specify):

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

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

Designed for Rear Facing for This Age/Weight

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

 (09) Unknown orientation

Designed For Forward Facing for This Age/Weight

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

 (19) Unknown orientation

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

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

 (29) Unknown orientation

(99) Unknown if child safety seat used

58. Child Safety Seat Harness Usage 00

59. Child Safety Seat Shield Usage 00

60. Child Safety Seat Tether Usage 00

Note: Options below applicable to
 Variables OA58-OA60.

(00) No child safety seat

Not Designed With Harness/Shield/Tether

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

Designed With Harness/Shield/Tether

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

Unknown If Designed With Harness/Shield/Tether

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

(99) Unknown if child safety seat used

INJURY CONSEQUENCES61. Injury Severity (Police Rating) 4

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

62. Treatment - Mortality 1

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

Nonfatal

- (3) Hospitalization
- (4) Transported and released
- (5) Treatment at scene - nontransported
- (6) Treatment later
- (7) Treatment - other (specify):

- (8) Transported to a medical facility-unknown if treated
- (9) Unknown

63. Type Of Medical Facility (for Initial Treatment) 1

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

- (9) Unknown

64. Hospital Stay 00

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

65. Working Days Lost 62

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

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

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

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

67. 1st Medically Reported Cause of Death 01

68. 2nd Medically Reported Cause of Death 00

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

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

(99) Unknown

70. Number of Recorded Injuries for This Occupant 07
 ___ Code the actual number of injuries recorded for this occupant.
 (00) No recorded injuries
 (97) Injured, details unknown
 (99) Unknown if injured

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

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

73. Arterial Blood Gases (ABG) - HCO₃ 01
 (00) Not injured
 (01) Injured, ABGs not measured or reported
 (02-50) Code the actual value of the HCO₃
 (96) ABGs reported, HCO₃ unknown
 (97) Injured, details unknown
 (99) Unknown if injured

BELT USE DETERMINATION

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

OCCUPANT INJURY FORM

1. Primary Sampling Unit Number <u>48</u>	3. Vehicle Number <u>01</u>
2. Case Number - Stratum <u>024A</u>	4. Occupant Number <u>01</u>

INJURY DATA

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

	A.I.S. - 90										Injury Source Confidence Level	Direct/Indirect Injury	Occupant Area Intrusion Number
	Source of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source					
1st	5. <u>2</u>	6. <u>1</u>	7. <u>1</u>	8. <u>30</u>	9. <u>00</u>	10. <u>6</u>	11. <u>0</u>	12. <u>598</u>	13. <u>1</u>	14. <u>1</u>	15. <u>00</u>		
2nd	16. <u>2</u>	17. <u>5</u>	18. <u>9</u>	19. <u>06</u>	20. <u>02</u>	21. <u>1</u>	22. <u>2</u>	23. <u>051</u>	24. <u>2</u>	25. <u>1</u>	26. <u>97</u>		
3rd	27. <u>2</u>	28. <u>7</u>	29. <u>9</u>	30. <u>06</u>	31. <u>02</u>	32. <u>1</u>	33. <u>2</u>	34. <u>051</u>	35. <u>2</u>	36. <u>1</u>	37. <u>97</u>		
4th	38. <u>3</u>	39. <u>8</u>	40. <u>9</u>	41. <u>02</u>	42. <u>02</u>	43. <u>1</u>	44. <u>1</u>	45. <u>010</u>	46. <u>2</u>	47. <u>1</u>	48. <u>00</u>		
5th	49. <u>3</u>	50. <u>4</u>	51. <u>9</u>	52. <u>06</u>	53. <u>02</u>	54. <u>1</u>	55. <u>1</u>	56. <u>697</u>	57. <u>9</u>	58. <u>7</u>	59. <u>99</u>		
6th	60. <u>3</u>	61. <u>7</u>	62. <u>5</u>	63. <u>18</u>	64. <u>00</u>	65. <u>2</u>	66. <u>2</u>	67. <u>051</u>	68. <u>2</u>	69. <u>1</u>	70. <u>97</u>		
7th	71. <u>3</u>	72. <u>4</u>	73. <u>9</u>	74. <u>02</u>	75. <u>02</u>	76. <u>1</u>	77. <u>2</u>	78. <u>051</u>	79. <u>2</u>	80. <u>1</u>	81. <u>97</u>		
8th	82. <u> </u>	83. <u> </u>	84. <u> </u>	85. <u> </u>	86. <u> </u>	87. <u> </u>	88. <u> </u>	89. <u> </u>	90. <u> </u>	91. <u> </u>	92. <u> </u>		
9th	93. <u> </u>	94. <u> </u>	95. <u> </u>	96. <u> </u>	97. <u> </u>	98. <u> </u>	99. <u> </u>	100. <u> </u>	101. <u> </u>	102. <u> </u>	103. <u> </u>		
10th	104. <u> </u>	105. <u> </u>	106. <u> </u>	107. <u> </u>	108. <u> </u>	109. <u> </u>	110. <u> </u>	111. <u> </u>	112. <u> </u>	113. <u> </u>	114. <u> </u>		

INJURY SOURCES

FRONT

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

LEFT SIDE

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

RIGHT SIDE

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

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

INTERIOR

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

AIR BAG

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

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

- (195) Other air bag compartment cover (specify): _____

ROOF

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

FLOOR

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

REAR

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

ADAPTIVE (ASSISTIVE) DRIVING EQUIPMENT

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

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

EXTERIOR OF OCCUPANT'S VEHICLE

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

EXTERIOR OF OTHER MOTOR VEHICLE

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

OTHER VEHICLE OR OBJECT IN THE ENVIRONMENT

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

NONCONTACT INJURY

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

OFFICIAL INJURY DATA — SOFT TISSUE INJURIES

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

Restrained?

No
 Yes

Blood Alcohol Level (mg/dl)

BAL = 0

Glasgow Coma Scale Score

GCSS = 7

Units of Blood Given

Units = 0

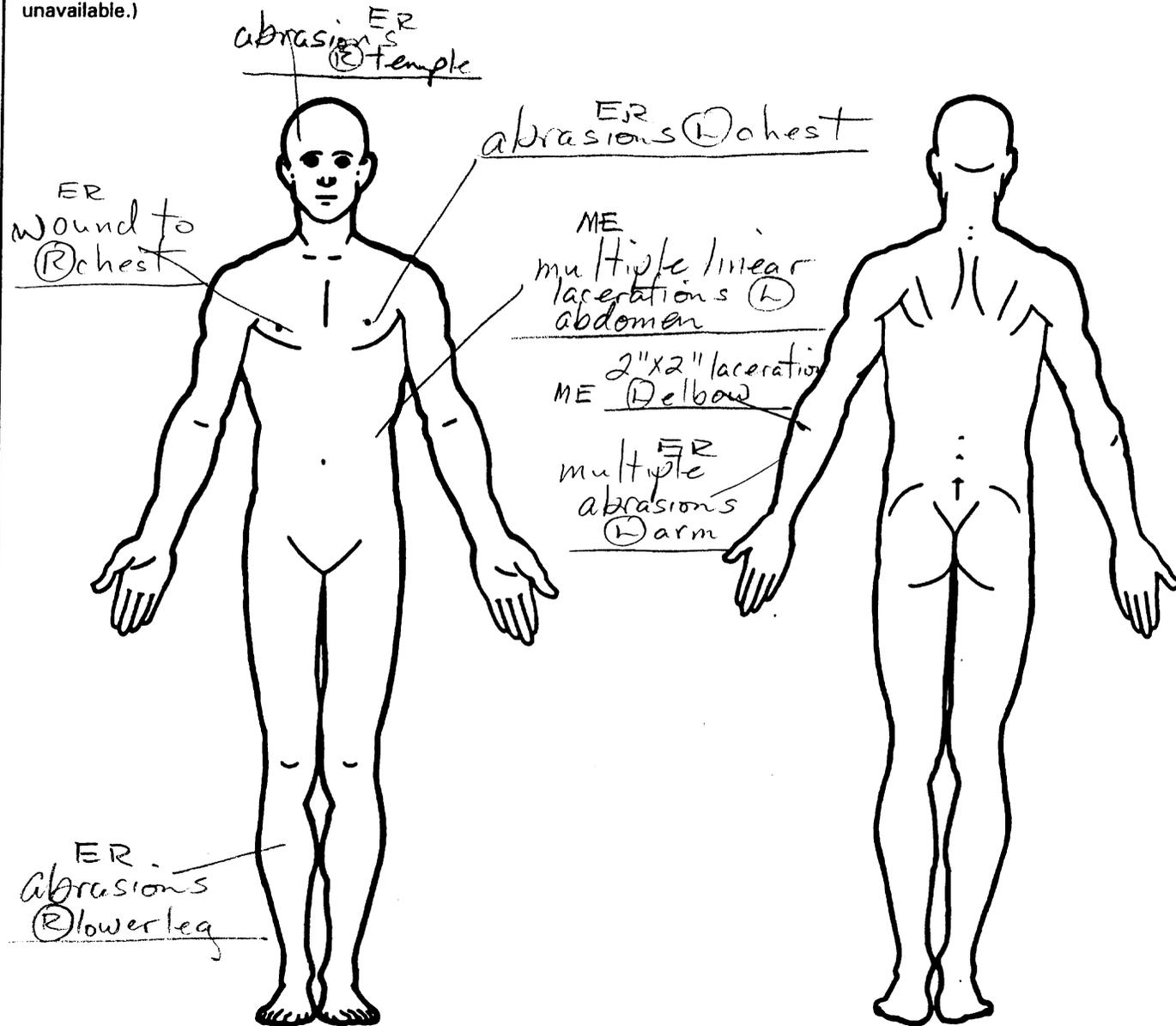
Arterial Blood Gases

pH = /

PO₂ = /

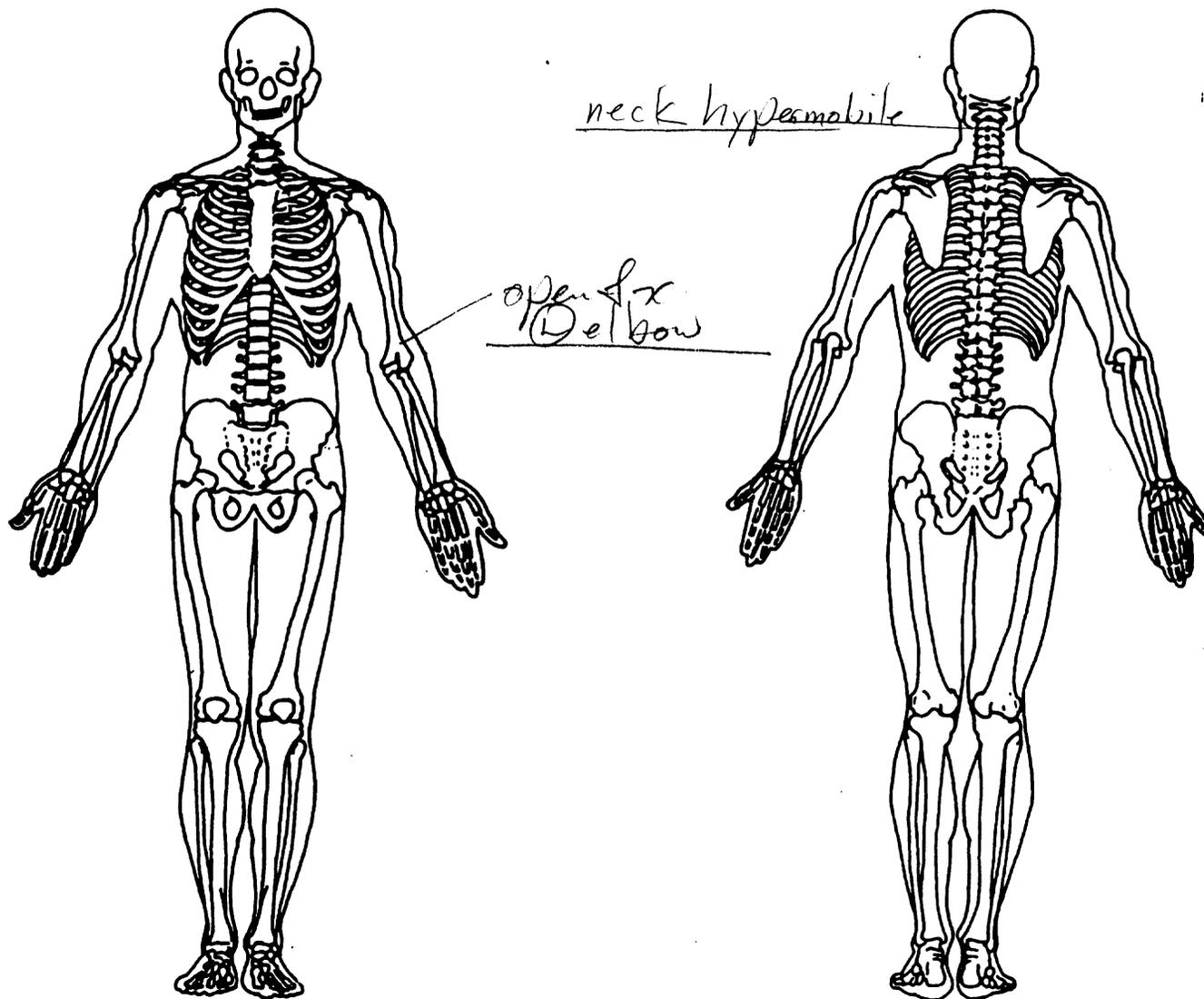
PCO₂ = /

HCO₃ = /



OFFICIAL INJURY DATA — SKELETAL INJURIES

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

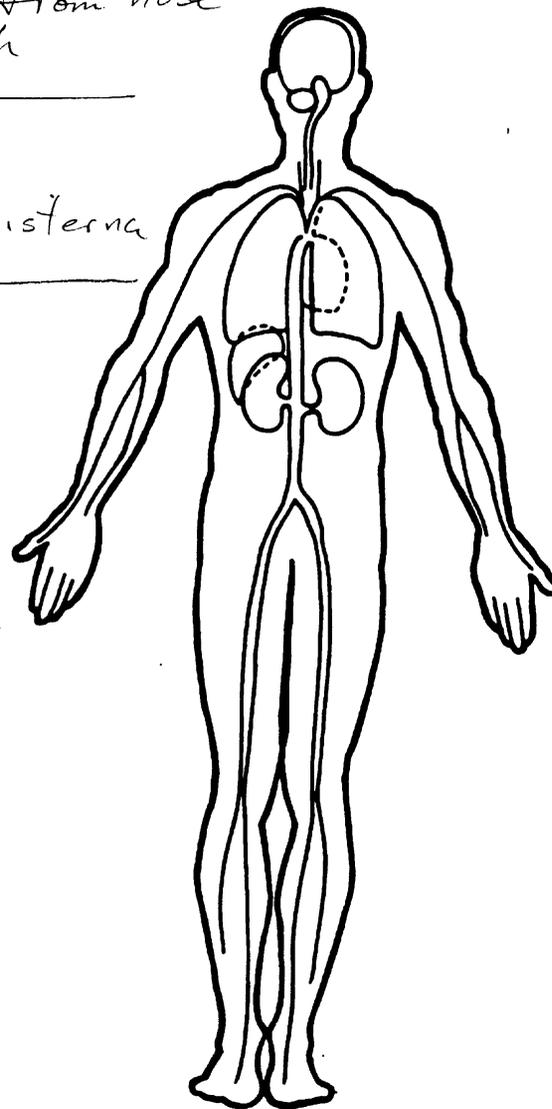
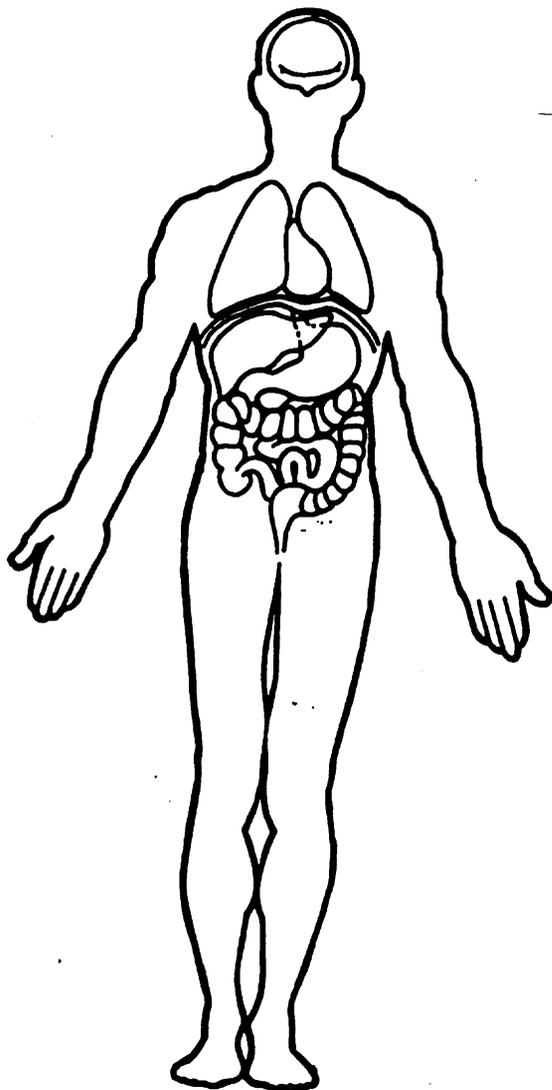


OFFICIAL INJURY DATA — INTERNAL INJURIES

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

Cerebral Trauma
ER Brain material NFBs
oozing from nose
+ mouth

Blood from cisterna
magna





SMASH PROGRAM SUMMARY

(All Measurements in Metric)

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

Identifying Title

48

Primary
Sampling Unit

^{4th highest}
024A

Case No.-Stratum

01

Accident Event
Sequence No.

██████████ 96

Date (Month, day, year) of Run

GENERAL INFORMATION

VEHICLE 1

NASS Vehicle Number

01

Year

1993

Make

Nissan

Model

Maxima

Body Style

4S

CDC

11 L B E 3 2

PDOF

⊕ 40°

Heading Angle

⊙ 85°

VEHICLE 2

NASS Vehicle Number

Year

Make

Model

Body Style

CDC

PDOF

Heading Angle

BARRIER

VEHICLE SPECIFICATIONS

VEHICLE 1

Wheelbase

265 cm

Overall Length

477 cm

Overall Width

176 ~~763~~ cm

Weight

1424 + 94 + - = 1518 kg

Curb Occupant(s) Cargo

Engine Displacement

3.4 L

Drive System

FWD

Size

3

Stiffness

3

VEHICLE 2

Wheelbase

Overall Length

Overall Width

Weight

_____ + _____ + _____ = _____ kg

Curb Occupant(s) Cargo

Engine Displacement

Drive System

Size

Stiffness

DAMAGE INFORMATION

VEHICLE 1

Damage Known?

Damage Length

Damage Offset

Crush Depth:

C1 14 cm

C2 18 cm

C3 23 cm

C4 15 cm

C5 10 cm

C6 2 cm

VEHICLE 2

Damage Known?

Damage Length

Damage Offset

Crush Depth:

C1 _____ cm

C2 _____ cm

C3 _____ cm

C4 _____ cm

C5 _____ cm

C6 _____ cm

Summary of Results Using Damage

48-024A BARRIER ON EVENT 1

Speed Change
(Damage)

Vehicle #1

Total 8 km/h (5 mph)
 Longitudinal -6 km/h (-4 mph)
 Latitudinal 5 km/h (3 mph)
 PDOF Angle -40 °
 Energy Dissipated = 12049 Joules (8885 Ft-Lb)
 Barrier Equivalent Speed = 8.1 km/h (5.0 mph)
 Calculated using crush coefficients entered by the user.

Vehicle #2

Total 0 km/h (0 mph)
 Longitudinal 0 km/h (0 mph)
 Latitudinal 0 km/h (0 mph)
 PDOF Angle 0 °
 Energy Dissipated = 0 Joules (0 Ft-Lb)
 Barrier Equivalent Speed = 0.0 km/h (0.0 mph)
 Calculated using size and stiffness categories.

General Information

	Vehicle #1	Vehicle #2
Year	1993	1900
Make	NISSAN	
Model	MAXIMA	
CDC	11LBEE2	BARRIER
Side Damaged	L	
PODF Angle	-40 °	0 °
Heading Angle	85 °	0 °

Calculation method: Vehicle's Crush Coeff. Size and Stiffness

Size Category	**	11
Stiffness Category	**	11
Vehicle Weight	**	453592 kgs (999999 lbs)
d0 crush coeff.	102.20 sqrt(N)	***** sqrt(N)
d1 crush coeff.	7.25 sqrt(N)/cm	***** sqrt(N)/cm

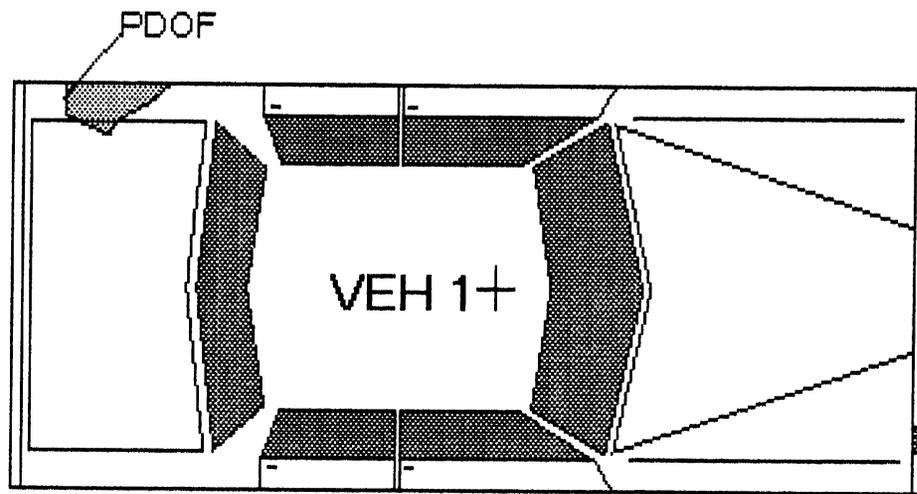
Damage Information

Vehicle Damage Known	Vehicle #1	Vehicle #2
	-----	-----
	Yes	Yes
Crush Length	53.0 cm (21 in)	0.0 cm (0 in)
C1	14.0 cm (6 in)	0.0 cm (0 in)
C2	18.0 cm (7 in)	0.0 cm (0 in)
C3	23.0 cm (9 in)	0.0 cm (0 in)
C4	15.0 cm (6 in)	0.0 cm (0 in)
C5	10.0 cm (4 in)	0.0 cm (0 in)
C6	2.0 cm (1 in)	0.0 cm (0 in)
D	-222.9 cm (-88 in)	0.0 cm (0 in)
D'	-227.1 cm (-89 in)	0.0 cm (0 in)

Vehicle Dimensions

	Vehicle #1	Vehicle #2
	-----	-----
Length	477.0 cm (188 in)	0.0 cm (0 in)
Width	176.0 cm (69 in)	0.0 cm (0 in)
Wheelbase	265.0 cm (104 in)	254.0 cm (100 in)
Weight	1518 kgs (3347 lbs)	453592 kgs (999999 lbs)
CG to Front of Veh	228.1 cm (90 in)	127.0 cm (50 in)
Engine Displacement	3.4 liters	0.0 liters
Moment of Inertia bs)	312038 kgs (27619 lbs)	29375740821 kgs (2600101632 1
Vehicle Mass	1518 kgs (8.7 lb-s ² /in)	453515 kgs (2600.1 lb-s ² /in)

1993 NISSAN MAXIMA





SMASH PROGRAM SUMMARY

(All Measurements In Metric)

Identifying Title			
<u>48</u>	<u>024A</u>	<u>02</u>	<u>PR [REDACTED] 196</u>
Primary Sampling Unit	Case No.-Stratum	Accident Event Sequence No.	Date (Month, day, year) of Run

GENERAL INFORMATION

VEHICLE 1		VEHICLE 2	
NASS Vehicle Number	<u>01</u>	NASS Vehicle Number	_____
Year	<u>1993</u>	Year	_____
Make	<u>Nissan</u>	Make	_____
Model	<u>Maxima</u>	Model	_____
Body Style	<u>4S</u>	Body Style	_____
CDC	<u>112DAW83</u>	CDC	<u>BARRIER</u>
PDOF	\ominus <u>20°</u>	PDOF	\pm _____°
Heading Angle	\oplus <u>70°</u>	Heading Angle	\pm _____°

VEHICLE SPECIFICATIONS

VEHICLE 1		VEHICLE 2	
Wheelbase	<u>265</u> cm	Wheelbase	_____ cm
Overall Length	<u>477</u> cm	Overall Length	_____ cm
Overall Width	<u>176</u> <u>163</u> cm	Overall Width	_____ cm
Weight	<u>1424</u> + <u>94</u> + _____ = <u>1518</u> kg	Weight	_____ + _____ + _____ = _____ kg
Curb Occupant(s) Cargo		Curb Occupant(s) Cargo	
Engine Displacement	<u>3.4 L</u>	Engine Displacement	_____ L
Drive System	<u>FWD</u>	Drive System	_____
Size	<u>3</u>	Size	_____
Stiffness	<u>3</u>	Stiffness	_____

DAMAGE INFORMATION

VEHICLE 1		VEHICLE 2	
Damage Known?	<u>Y</u>	Damage Known?	<u>Y</u>
Damage Length	<u>300</u> cm	Damage Length	_____ cm
Damage Offset	\ominus <u>33</u> cm	Damage Offset	\pm _____ cm
Crush Depth:		Crush Depth:	
C1	<u>6</u> cm	C1	_____ cm
C2	<u>8</u> cm	C2	_____ cm
C3	<u>9</u> cm	C3	_____ cm
C4	<u>9</u> cm	C4	_____ cm
C5	<u>2</u> cm	C5	_____ cm
C6	<u>0</u> cm	C6	_____ cm

Summary of Results Using Damage

48-024A BARRIER ON EVENT 2

Speed Change
(Damage)

Vehicle #1

Total 19 km/h (12 mph)
 Longitudinal -18 km/h (-11 mph)
 Latitudinal 7 km/h (4 mph)
 PDOF Angle -20 °
 Energy Dissipated = 33207 Joules (24489 Ft-Lb)
 Barrier Equivalent Speed = 19.4 km/h (12.0 mph)
 Calculated using crush coefficients entered by the user.

Vehicle #2

Total 0 km/h (0 mph)
 Longitudinal 0 km/h (0 mph)
 Latitudinal 0 km/h (0 mph)
 PDOF Angle 0 °
 Energy Dissipated = 0 Joules (0 Ft-Lb)
 Barrier Equivalent Speed = 0.0 km/h (0.0 mph)
 Calculated using size and stiffness categories.

General Information

	Vehicle #1 -----	Vehicle #2 -----
Year	1993	1900
Make	NISSAN	
Model	MAXIMA	
CDC	11LDAW3	BARRIER
Side Damaged	L	
PODF Angle	-20 °	0 °
Heading Angle	70 °	0 °

Calculation method: Vehicle's Crush Coeff. Size and Stiffness

Size Category	**	11
Stiffness Category	**	11
Vehicle Weight	**	453592 kgs (999999 lbs)
d0 crush coeff.	102.20 sqrt(N)	***** sqrt(N)
d1 crush coeff.	7.25 sqrt(N)/cm	***** sqrt(N)/cm

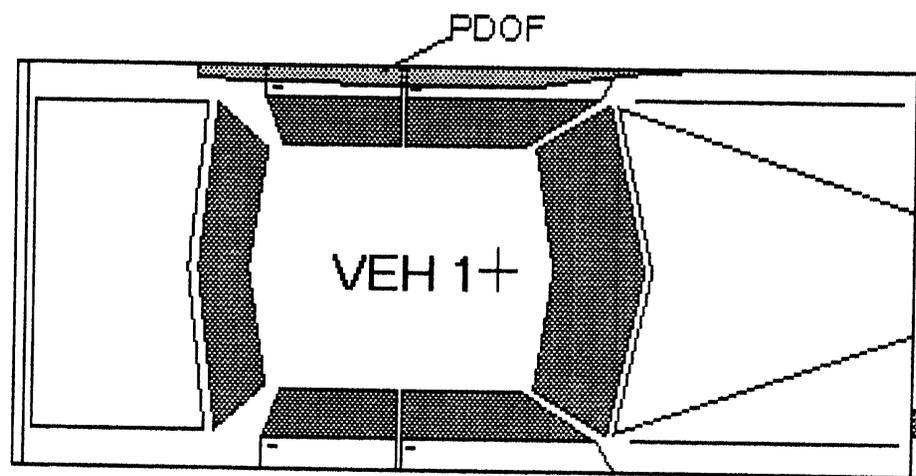
Damage Information

Vehicle Damage Known	Vehicle #1	Vehicle #2
	----- Yes	----- Yes
Crush Length	300.0 cm (118 in)	0.0 cm (0 in)
C1	6.0 cm (2 in)	0.0 cm (0 in)
C2	8.0 cm (3 in)	0.0 cm (0 in)
C3	9.0 cm (4 in)	0.0 cm (0 in)
C4	9.0 cm (4 in)	0.0 cm (0 in)
C5	2.0 cm (1 in)	0.0 cm (0 in)
C6	0.0 cm (0 in)	0.0 cm (0 in)
D	-32.9 cm (-13 in)	0.0 cm (0 in)
D'	-62.9 cm (-25 in)	0.0 cm (0 in)

Vehicle Dimensions

	Vehicle #1	Vehicle #2
	-----	-----
Length	477.0 cm (188 in)	0.0 cm (0 in)
Width	176.0 cm (69 in)	0.0 cm (0 in)
Wheelbase	265.0 cm (104 in)	254.0 cm (100 in)
Weight	1518 kgs (3347 lbs)	453592 kgs (999999 lbs)
CG to Front of Veh	228.1 cm (90 in)	127.0 cm (50 in)
Engine Displacement	3.4 liters	0.0 liters
Moment of Inertia bs)	312038 kgs (27619 lbs)	29375740821 kgs (2600101632 1
Vehicle Mass	1518 kgs (8.7 lb-s ² /in)	453515 kgs (2600.1 lb-s ² /in)

1993 NISSAN MAXIMA



48-024A BARRIER ON EVENT 2
1996



SMASH PROGRAM SUMMARY

(All Measurements in Metric)

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

Identifying Title

48

Primary Sampling Unit

024A

Case No.-Stratum

03

Accident Event Sequence No.

196

Date (Month, day, year) of Run

3rd highest 4V

RC

GENERAL INFORMATION

VEHICLE 1

NASS Vehicle Number 01
Year 1993
Make Nissan
Model Maxima
Body Style 4S
CDC 12 FLEW1
PDOF 0 10°
Heading Angle ± 355°

VEHICLE 2

NASS Vehicle Number _____
Year _____
Make _____
Model _____
Body Style _____
CDC BARRIER
PDOF ± _____°
Heading Angle ± _____°

VEHICLE SPECIFICATIONS

VEHICLE 1

Wheelbase 265 cm
Overall Length 477 cm
Overall Width 176 ~~163~~ cm
Weight 1424 + 94 + - = 1518 kg
Curb Occupant(s) Cargo
Engine Displacement 3.4 L
Drive System FWD
Size 3
Stiffness 3

VEHICLE 2

Wheelbase _____ cm
Overall Length _____ cm
Overall Width _____ cm
Weight _____ kg
Curb Occupant(s) Cargo
Engine Displacement _____ L
Drive System _____
Size _____
Stiffness _____

DAMAGE INFORMATION

VEHICLE 1

Damage Known? Y
Damage Length 145 cm
Damage Offset 0 35 cm
Crush Depth:
C1 0 cm
C2 1 cm
C3 0 cm
C4 0 cm
C5 0 cm
C6 0 cm

VEHICLE 2

Damage Known? Y
Damage Length _____ cm
Damage Offset ± _____ cm
Crush Depth:
C1 _____ cm
C2 _____ cm
C3 _____ cm
C4 _____ cm
C5 _____ cm
C6 _____ cm

48-024A BARRIER ON EVENT 3

Speed Change
(Damage)

Vehicle #1
 Total 11 km/h (7 mph)
 Longitudinal -11 km/h (-7 mph)
 Latitudinal -2 km/h (-1 mph)
 PDOF Angle 10 °
 Energy Dissipated = 8124 Joules (5991 Ft-Lb)
 Barrier Equivalent Speed = 11.1 km/h (6.9 mph)
 Calculated using crush coefficients entered by the user.

Vehicle #2
 Total 0 km/h (0 mph)
 Longitudinal 0 km/h (0 mph)
 Latitudinal 0 km/h (0 mph)
 PDOF Angle 0 °
 Energy Dissipated = 0 Joules (0 Ft-Lb)
 Barrier Equivalent Speed = 0.0 km/h (0.0 mph)
 Calculated using size and stiffness categories.

General Information

	Vehicle #1	Vehicle #2
Year	1993	1900
Make	NISSAN	
Model	MAXIMA	
CDC	12FLEN1	BARRIER
Side Damaged	F	
PODF Angle	10 °	0 °
Heading Angle	355 °	0 °

Calculation method: Vehicle's Crush Coeff. Size and Stiffness

Size Category	**	11
Stiffness Category	**	11
Vehicle Weight	**	453592 kgs (999999 lbs)
d0 crush coeff.	102.20 sqrt(N)	***** sqrt(N)
d1 crush coeff.	7.25 sqrt(N)/cm	***** sqrt(N)/cm

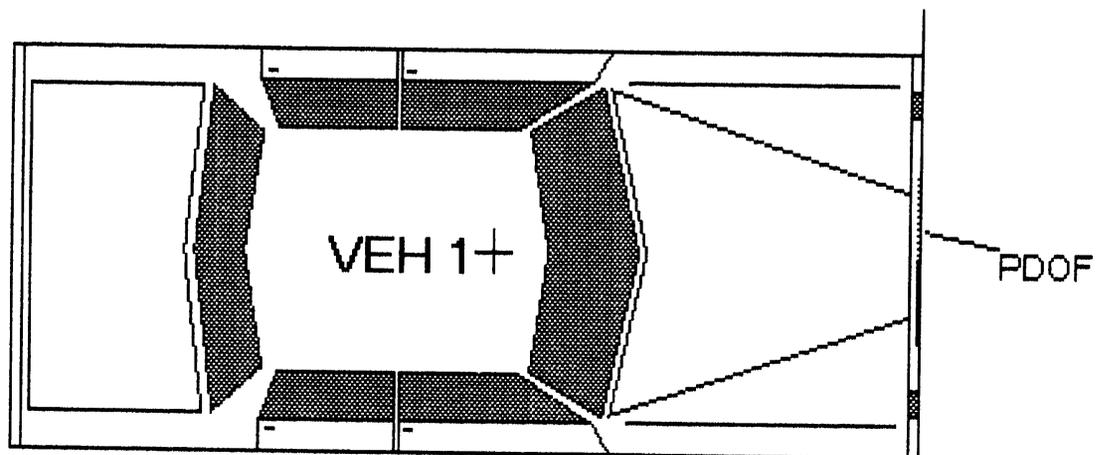
Damage Information

Vehicle Damage Known	Vehicle #1	Vehicle #2
	----- Yes	----- Yes
Crush Length	145.0 cm (57 in)	0.0 cm (0 in)
C1	0.0 cm (0 in)	0.0 cm (0 in)
C2	1.0 cm (0 in)	0.0 cm (0 in)
C3	0.0 cm (0 in)	0.0 cm (0 in)
C4	0.0 cm (0 in)	0.0 cm (0 in)
C5	0.0 cm (0 in)	0.0 cm (0 in)
C6	0.0 cm (0 in)	0.0 cm (0 in)
D	-34.8 cm (-14 in)	0.0 cm (0 in)
D'	-10.6 cm (-4 in)	0.0 cm (0 in)

Vehicle Dimensions

	Vehicle #1	Vehicle #2
	-----	-----
Length	477.0 cm (188 in)	0.0 cm (0 in)
Width	176.0 cm (69 in)	0.0 cm (0 in)
Wheelbase	265.0 cm (104 in)	254.0 cm (100 in)
Weight	1518 kgs (3347 lbs)	453592 kgs (999999 lbs)
CG to Front of Veh	228.1 cm (90 in)	127.0 cm (50 in)
Engine Displacement	3.4 liters	0.0 liters
Moment of Inertia bs)	312038 kgs (27619 lbs)	29375740821 kgs (2600101632 1
Vehicle Mass	1518 kgs (8.7 lb-s ² /in)	453515 kgs (2600.1 lb-s ² /in)

1993 NISSAN MAXIMA



48-024A BARRIER ON EVENT 3
1996



SMASH PROGRAM SUMMARY

(All Measurements In Metric)

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

Identifying Title Invest 4V PC [REDACTED]

48 024A 04 [REDACTED] 196

Primary Sampling Unit Case No.-Stratum Accident Event Sequence No. Date (Month, day, year) of Run

GENERAL INFORMATION

VEHICLE 1		VEHICLE 2	
NASS Vehicle Number	<u>01</u>	NASS Vehicle Number	_____
Year	<u>1993</u>	Year	_____
Make	<u>Nissan</u>	Make	_____
Model	<u>Maxima</u>	Model	_____
Body Style	<u>4S</u>	Body Style	_____
CDC	<u>03 RPAW3</u>	CDC	<u>BARRIER</u>
PDOF	<u>90°</u>	PDOF	± _____°
Heading Angle	<u>± 333°</u>	Heading Angle	± _____°

VEHICLE SPECIFICATIONS

VEHICLE 1		VEHICLE 2	
Wheelbase	<u>265</u> cm	Wheelbase	_____ cm
Overall Length	<u>477</u> cm	Overall Length	_____ cm
Overall Width	<u>176</u> <u>163</u> cm	Overall Width	_____ cm
Weight	<u>1424 + 94 + - = 1518</u> kg	Weight	_____ + _____ + _____ = _____ kg
Curb Occupant(s) Cargo		Curb Occupant(s) Cargo	
Engine Displacement	<u>3.4</u> L	Engine Displacement	_____ L
Drive System	<u>FWD</u>	Drive System	_____
Size	<u>3</u>	Size	_____
Stiffness	<u>3</u>	Stiffness	_____

DAMAGE INFORMATION

VEHICLE 1		VEHICLE 2	
Damage Known?	<u>Y</u>	Damage Known?	<u>Y</u>
Damage Length	<u>255</u> cm	Damage Length	_____ cm
Damage Offset	<u>24</u> cm	Damage Offset	± _____ cm
Crush Depth:		Crush Depth:	
C1	<u>0</u> cm	C1	_____ cm
C2	<u>4</u> cm	C2	_____ cm
C3	<u>10</u> cm	C3	_____ cm
C4	<u>27</u> cm	C4	_____ cm
C5	<u>9</u> cm	C5	_____ cm
C6	<u>0</u> cm	C6	_____ cm

024A.CR4

Speed Change (Damage)

✓ OK

Vehicle #1

Total 21 km/h (13 mph)
 Longitudinal 0 km/h (0 mph)
 Latitudinal -21 km/h (-13 mph)
 PDOF Angle 90 °
 Energy Dissipated = 28728 Joules (21186 Ft-Lb)
 Barrier Equivalent Speed = 21.2 km/h (13.2 mph)
 Calculated using crush coefficients entered by the user.

Vehicle #2

Total 0 km/h (0 mph)
 Longitudinal 0 km/h (0 mph)
 Latitudinal 0 km/h (0 mph)
 PDOF Angle 0 °
 Energy Dissipated = 0 Joules (0 Ft-Lb)
 Barrier Equivalent Speed = 0.0 km/h (0.0 mph)
 Calculated using size and stiffness categories.

General Information

	Vehicle #1	Vehicle #2
Year	1993	1900
Make	NISSAN	
Model	MAXIMA	
CDC	03RPAW3	BARRIER
Side Damaged	R	
PDof Angle	90 °	0 °
Heading Angle	0 °	0 °

Calculation method:	Vehicle's Crush Coeff.	Size and Stiffness
Size Category	**	11
Stiffness Category	**	11
Vehicle Weight	**	453592 kgs (999999 lbs)
d0 crush coeff.	63.32 sqrt(N)	***** sqrt(N)
d1 crush coeff.	7.50 sqrt(N)/cm	***** sqrt(N)/cm

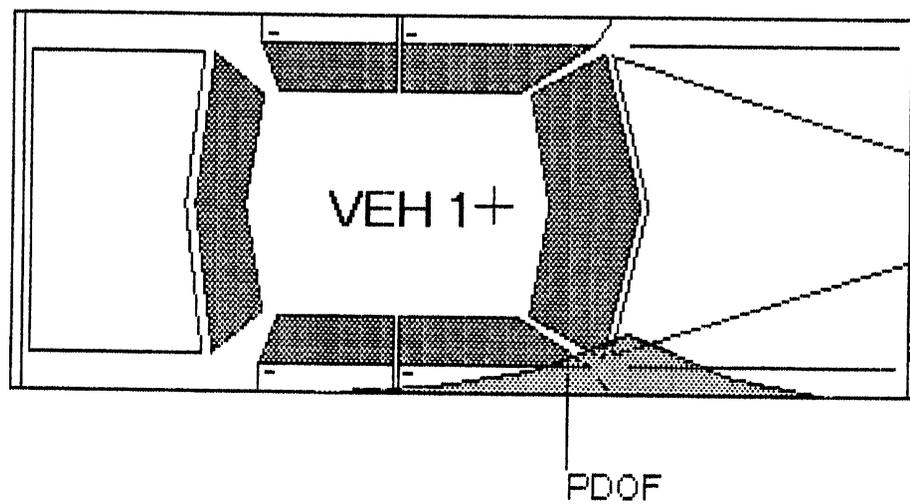
Damage Information

Vehicle Damage Known	Vehicle #1		Vehicle #2	
	Yes		Yes	
Crush Length	255.0 cm (100 in)		0.0 cm (0 in)	
C1	0.0 cm (0 in)		0.0 cm (0 in)	
C2	4.0 cm (2 in)		0.0 cm (0 in)	
C3	10.0 cm (4 in)		0.0 cm (0 in)	
C4	27.0 cm (11 in)		0.0 cm (0 in)	
C5	9.0 cm (4 in)		0.0 cm (0 in)	
D	0.0 cm (0 in)		0.0 cm (0 in)	
D'	24.0 cm (9 in)		0.0 cm (0 in)	
	40.3 cm (16 in)		0.0 cm (0 in)	

Vehicle Dimensions

	Vehicle #1	Vehicle #2
Length	477.0 cm (188 in)	0.0 cm (0 in)
Width	163.0 cm (64 in)	0.0 cm (0 in)
Wheelbase	265.0 cm (104 in)	254.0 cm (100 in)
Weight	1518 kgs (3347 lbs)	453592 kgs (999999 lbs)
CG to Front of Veh	228.1 cm (90 in)	127.0 cm (50 in)
Engine Displacement	3.4 liters	0.0 liters
Moment of Inertia	312038 kgs (27619 lbs)	29375740821 kgs (2600101632 lbs)
Vehicle Mass	1518 kgs (8.7 lb-s ² /in)	453515 kgs (2600.1 lb-s ² /in)

1993 NISSAN MAXIMA



INTERIOR VEHICLE Vehicle: 1

11

INTRA ERRORS

OCC0531 2 ***** THIS CASE SHOWS A DOOR OR HATCH OR GATE OPENING *****
 CC0532 ***** CHECK YOUR DATA AND IF CORRECT, NOTIFY YOUR ZONE *****
 CC0533 DOOR LEFT FRONT IV05 equals 2 or IV06 equals 2 or IV07 equals 2
 CC0534 or IV08 equals 2 or IV09 equals 2.

0

OCCUPANT ASSESSMENT Vehicle: 1 Occupant: 1

11

INTRA ERRORS

OHH1271 2 ***** THIS CASE SHOWS EJECTION WITH RESTRAINT USAGE. *****
 HH1272 ***** CHECK YOUR DATA AND IF CORRECT, NOTIFY YOUR ZONE *****
 HH1273 EJECTION OA12 is equal to 1-3 and ((MANUAL BELT USE OA19 does
 HH1274 not equal 00, 01 or 99) or
 HH1275 (FRONTAL AIR BAG SYSTEM DEPLOYMENT OA31 does not equal 0, 7 or
 HH1276 9) or (AUTOMATIC BELT USE OA24 does not equal 0, 2 or 9)).

HH2001 2 If AIR BAG AVAILABILITY/FUNCTION OA30 equals 1-3, then AUTOMATIC
 HH2002 BELT AVAILABILITY OA23 should equal 0.

011

INTER ERRORS

OEHO011 2 If TREATMENT OA62 equals 1, then 1st DEFORMATION EXTENT EV11
 EH0012 should be greater than 03. GV=01 OA=01

01

PSU48

CASE 024A

CURRENT VERSION: 9.00

ERROR SUMMARY SCREEN

96

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

0



PSU 48-024A (1996) #1



PSU 48-024A (1996) #2



PSU 48-024A (1996) #3



PSU 48-024A (1986) #4



PSU 48-024A (1996) #5



PSU 48-024A (1996) #6



PSU 48-024A (1996) #7



PSU 48-024A (1996) #8



FSU 48-024A (1996) #9



PSU 48-024A (1986) #10



PSU 48-024A (1996) #11



PSU 48-024A (1996) #12



PSU 48-024A (1996) #13



PSU 48-024A (1996) #14



PSU 48-024A (1998) #15



PSU 48-024A (1996) #16



PSU 48-024A (1996) #17



PSU 48-024A (1996) #18



PSU 46-024A (1996) #19



PSU 48-024A (1996) #20



PSU 48-024A (1996) #21



PSU 48-024A (1996) #22



PSU 48-024A (1996) #23



PSU 48-024A (1996) #24



PSU 48-024A (1996) #25



PSU 48-024A (1986) #26



PSU 48-024A (1996) #27



PSU 48-024A (1996) #28



PSU 48-024A (1996) #29



PSU 48-024A (1996) #30



PSU 48-024A (1996) #31



PSU 48-024A (1996) #32



PSU 46-024A (1996) #33



FSU 48-024A (1996) #34



PSU 48-024A (1996) #35



PSU 48-024A (1996) #36



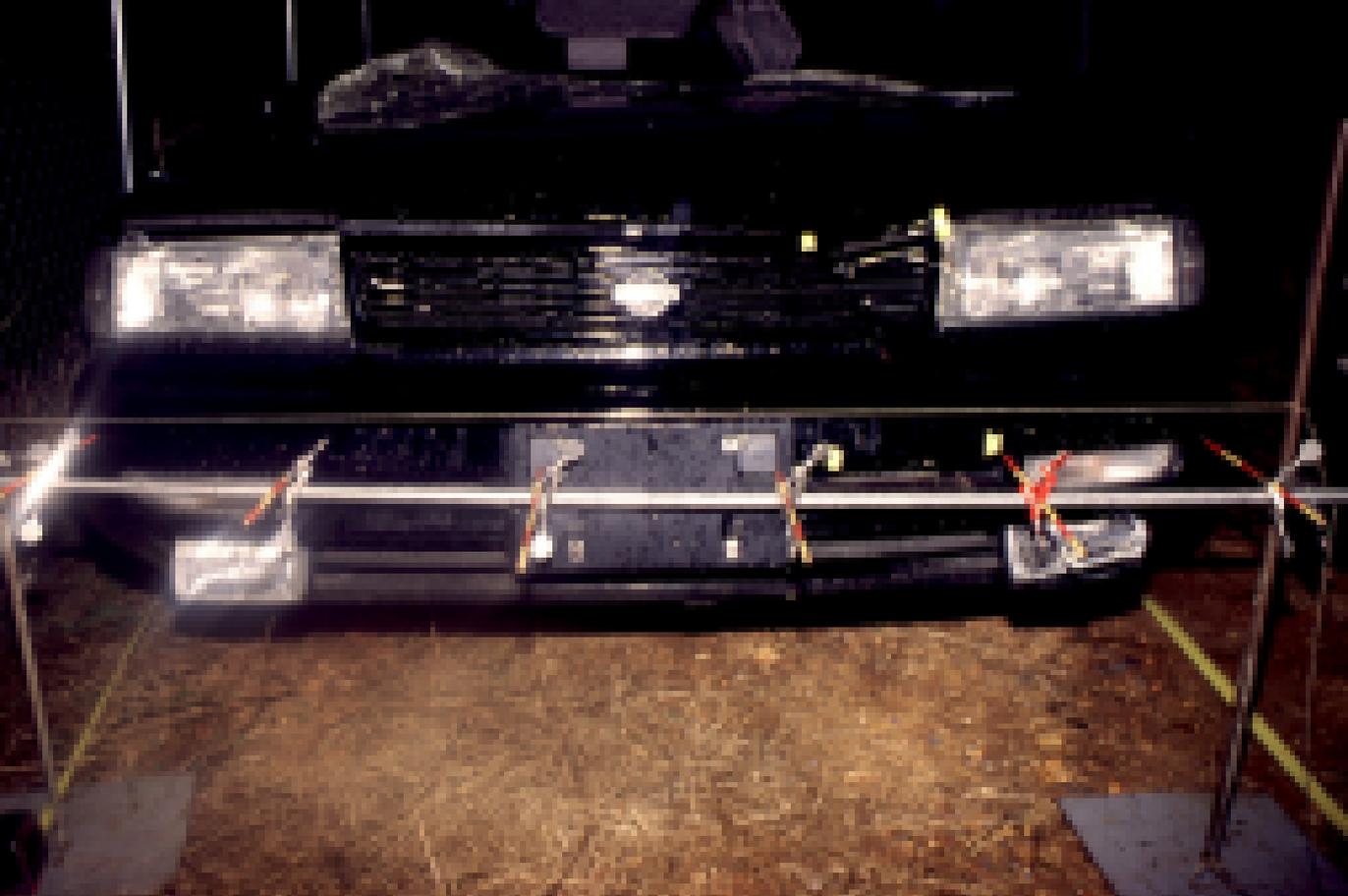
PSU 48-024A (1996) #37



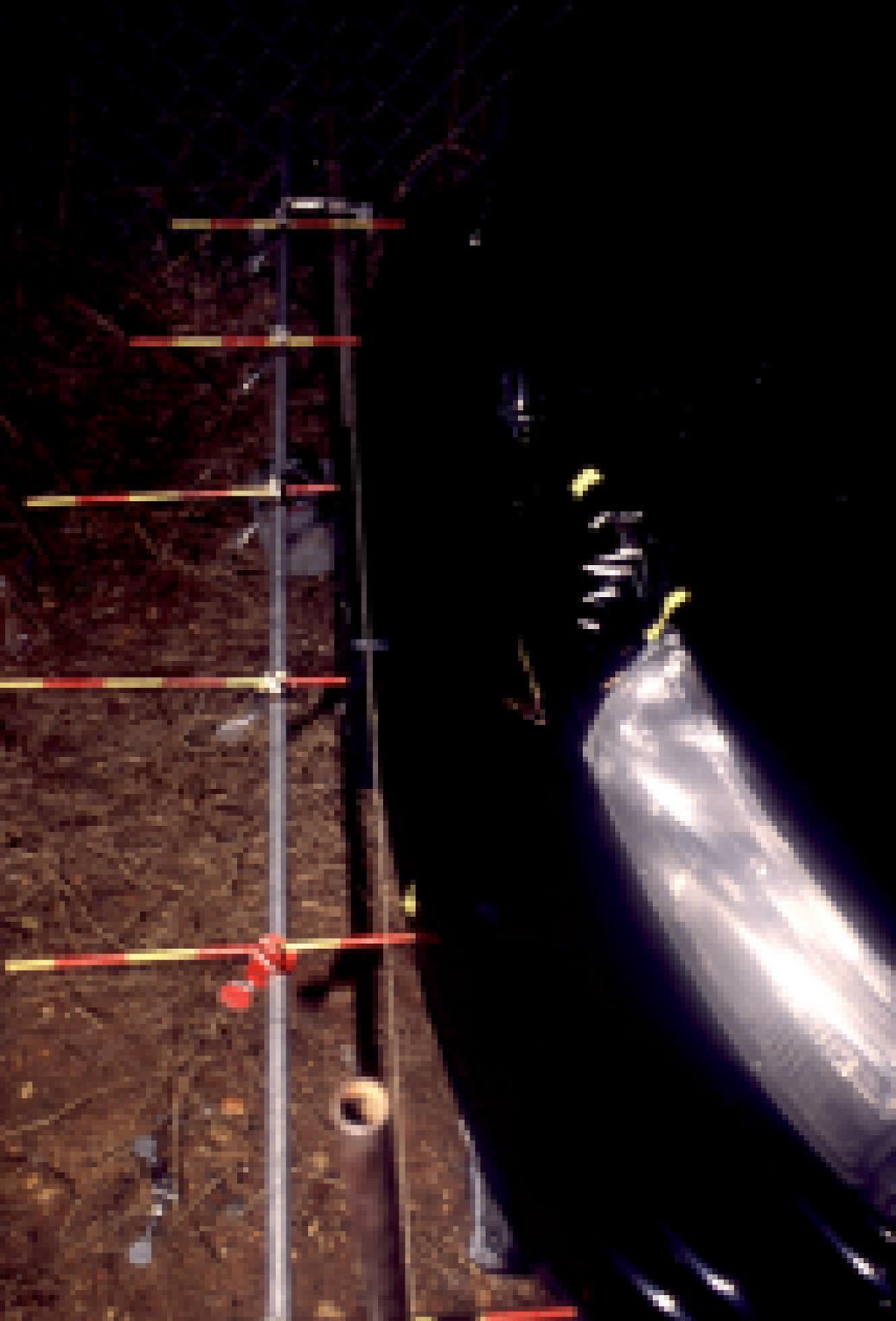
PSU 48-024A (1996) #38



PSU 48-024A (1996) #39



PSU 48-024A (1996) #40
Best Available



PSU 48-024A (1996) #41



PSU 48-024A (1998) #42



PSU 48-024A (1996) #43



PSJ 48-024A (1996) #44



PSU 48-024A (1996) #45



PSU 48-024A (1996) #46
Best Available



PSU 48-024A (1996) #47
Best Available



PSU 48-024A (1996) #48



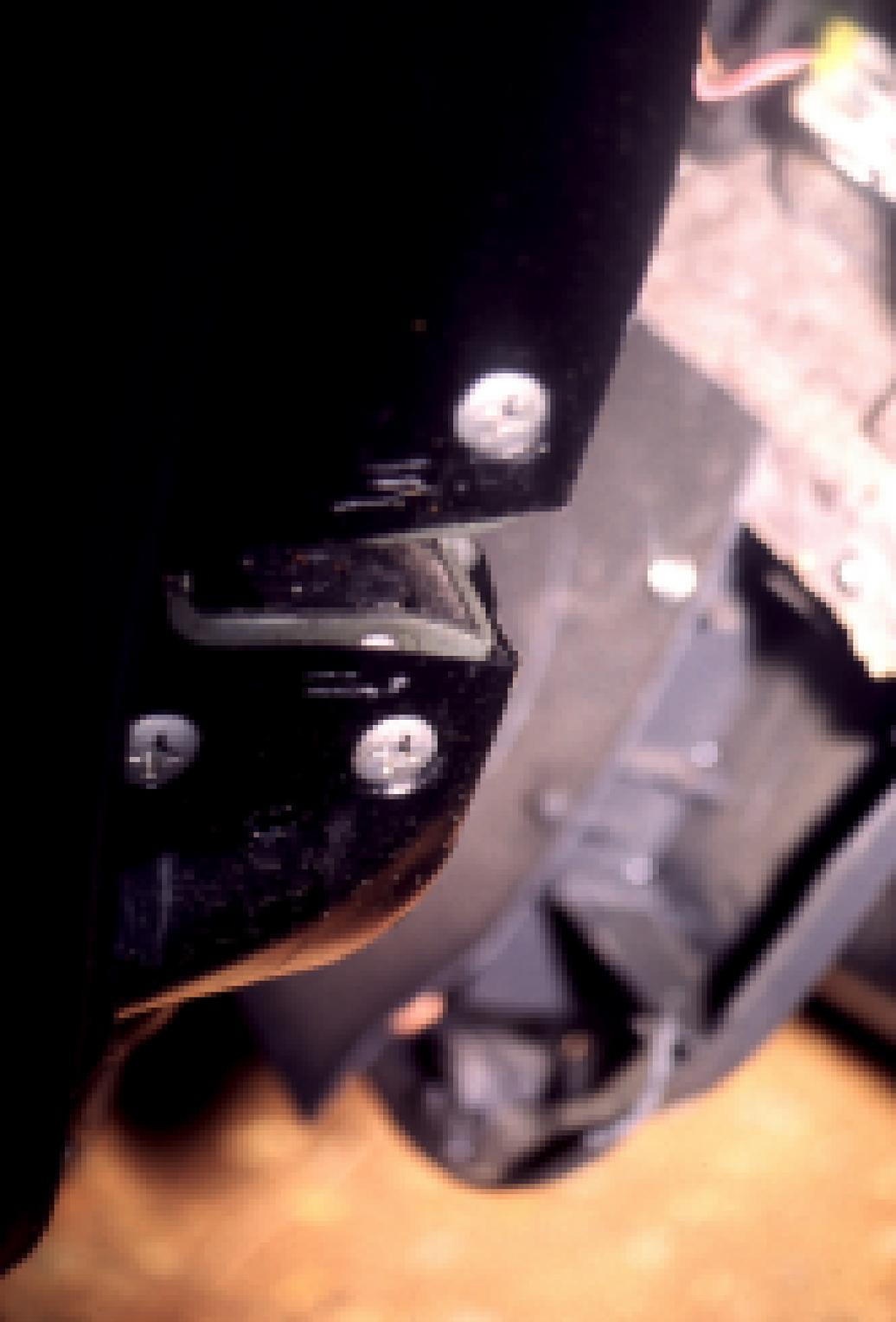
PSU 48-024A (1996) #49



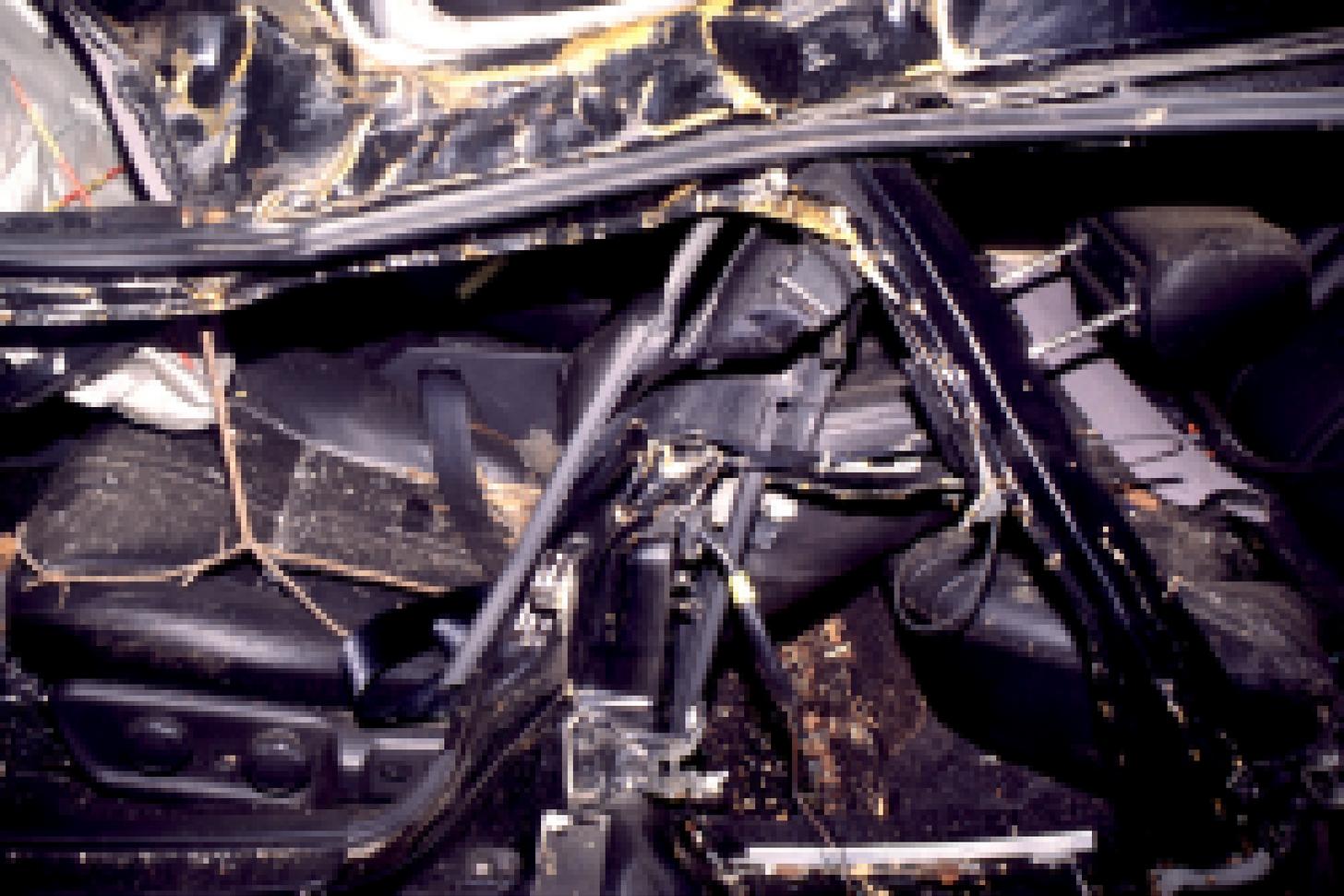
PSU 48-024A (1996) #50



PSU 48-024A (1996) #51



PSU 48-024A (1996) #52



PSU 48-024A (1986) #53



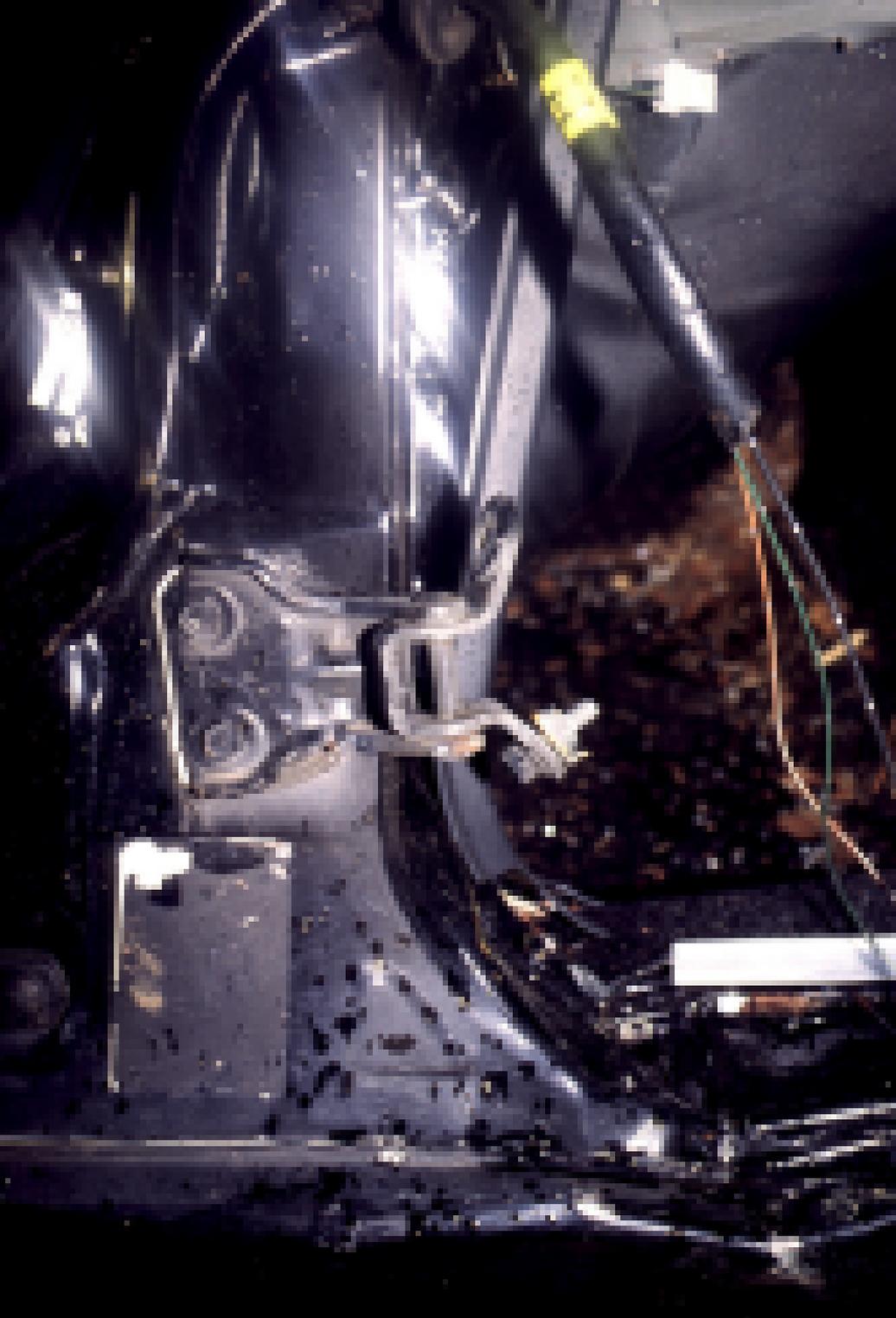
PSU 48-024A (1996) #54



PSU 48-024A (1998) #55



PSU 48-024A (1996) #56



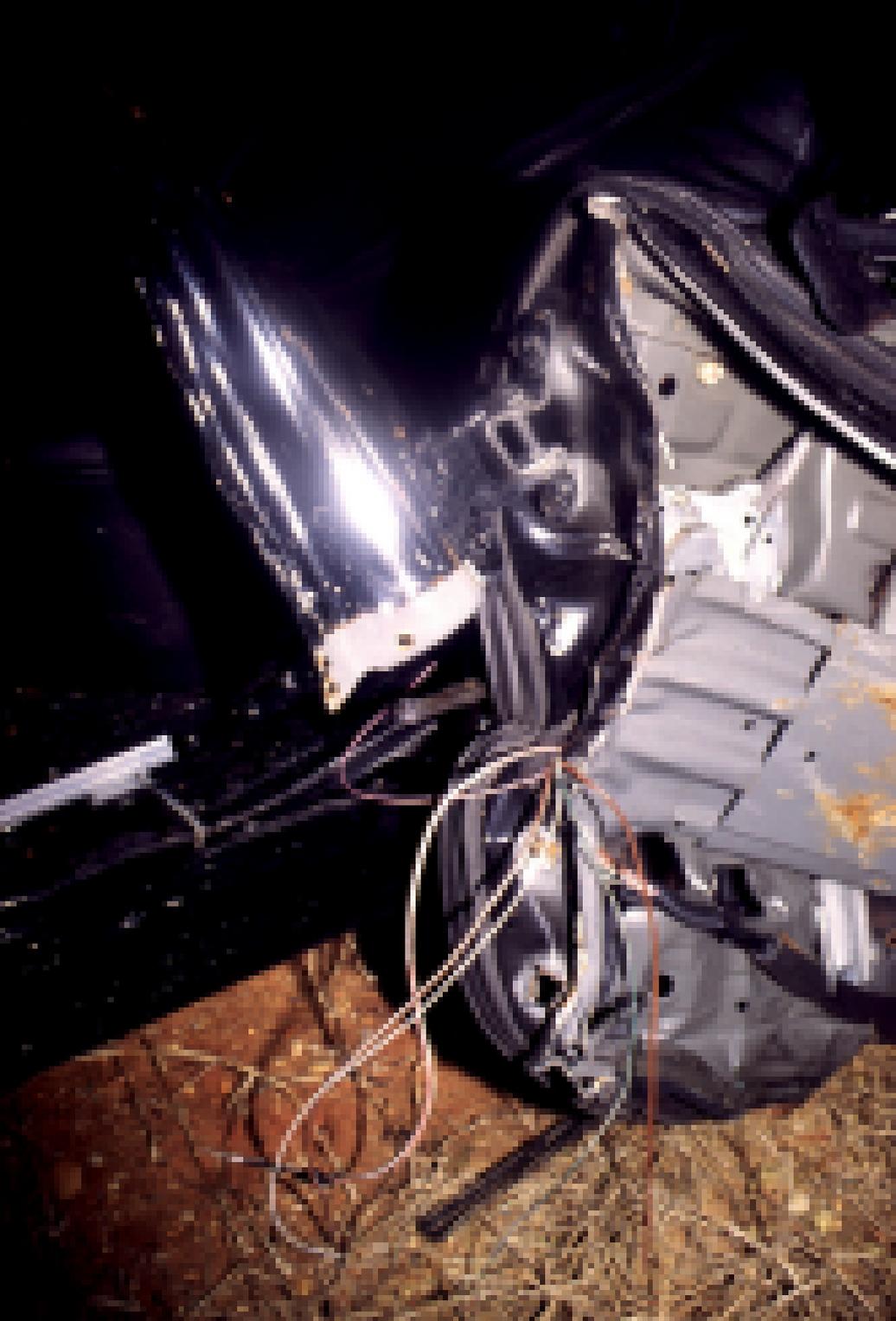
PSU 48-024A (1996) #57



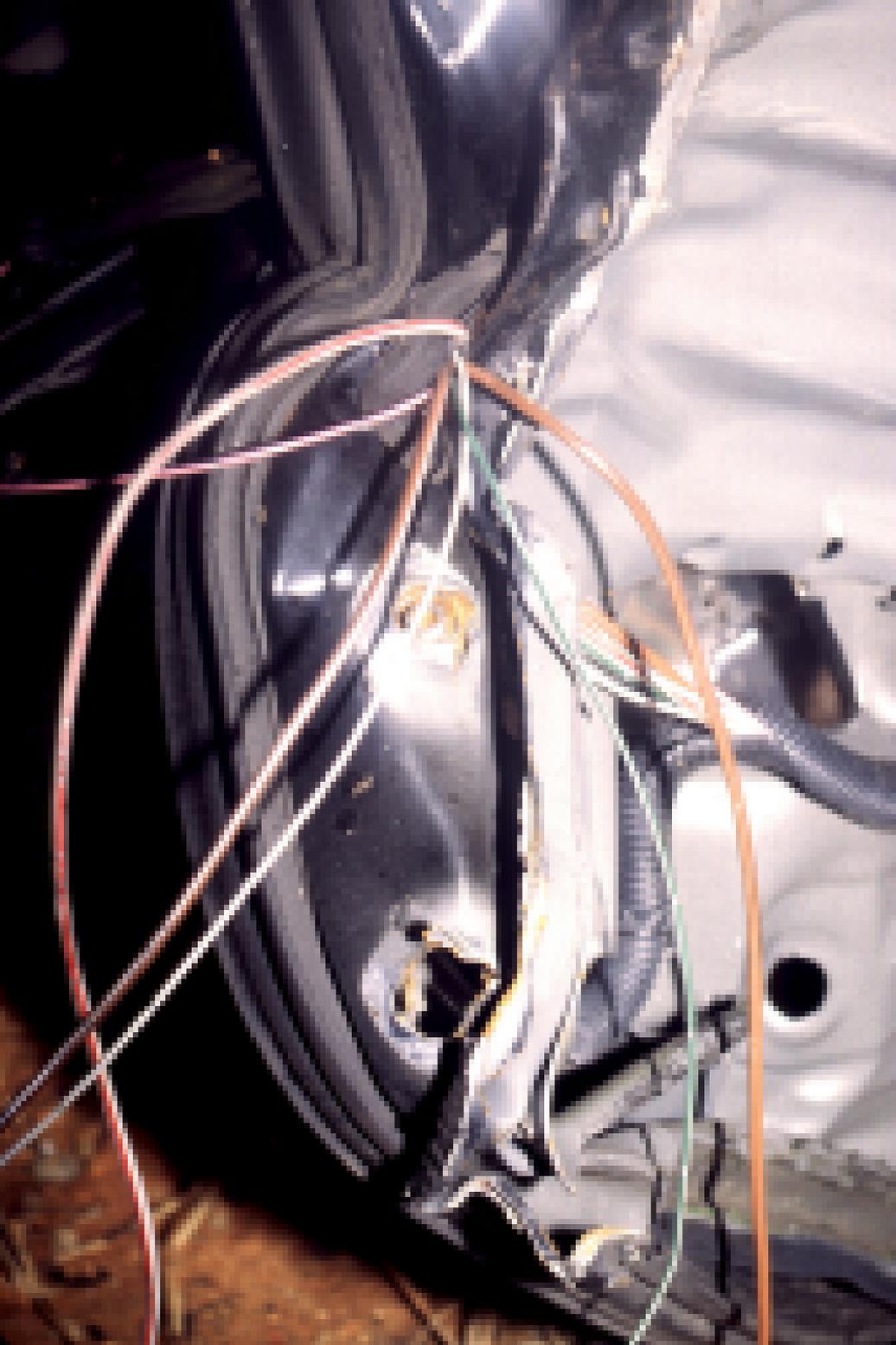
PSU 48-024A (1986) #58



PSU 48-024A (1998) #59



PSU 48-024A (1996) #60



PSU 48-024A (1996) #61



FSU 48-024A (1996) #62



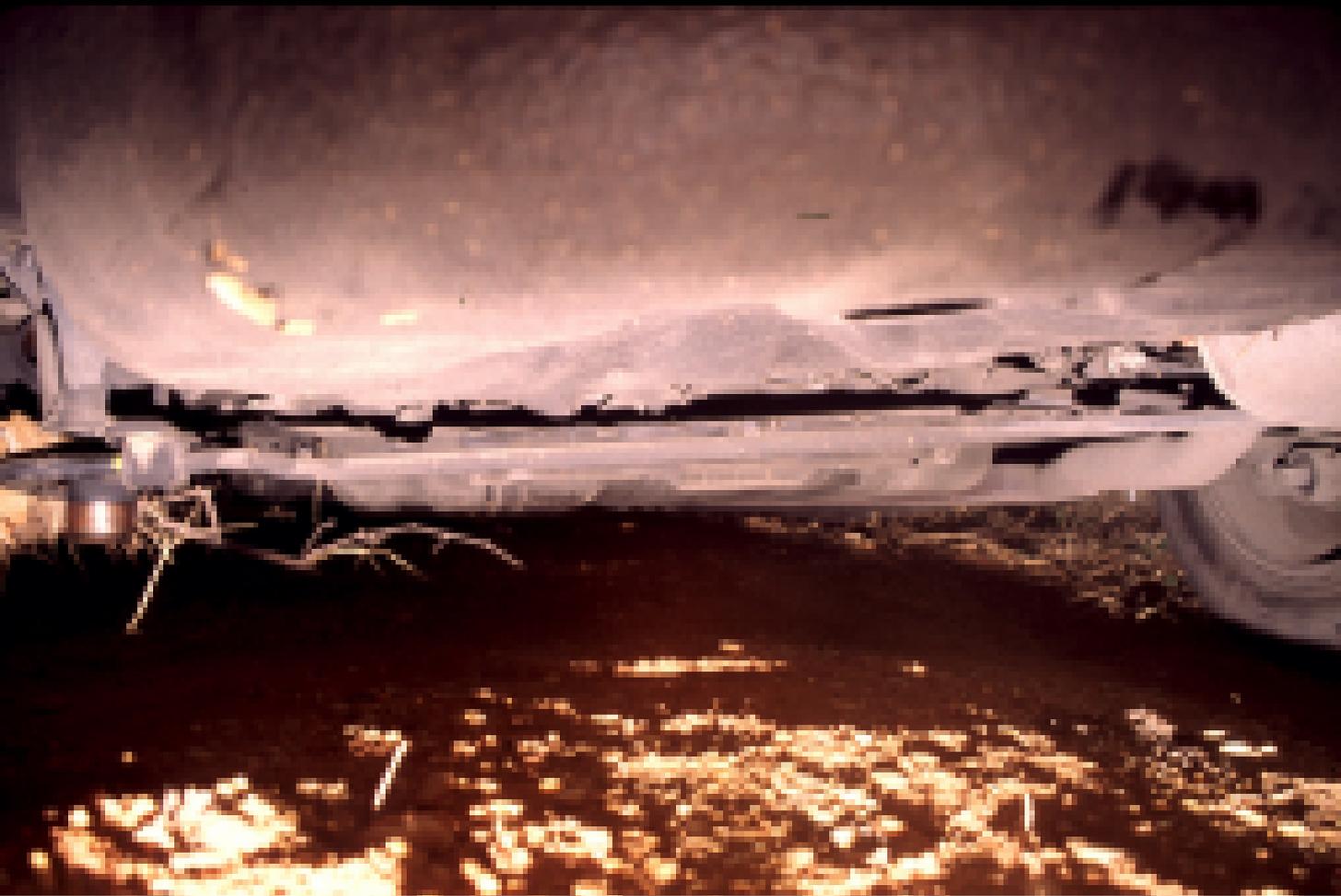
PSU 48-024A (1996) #63



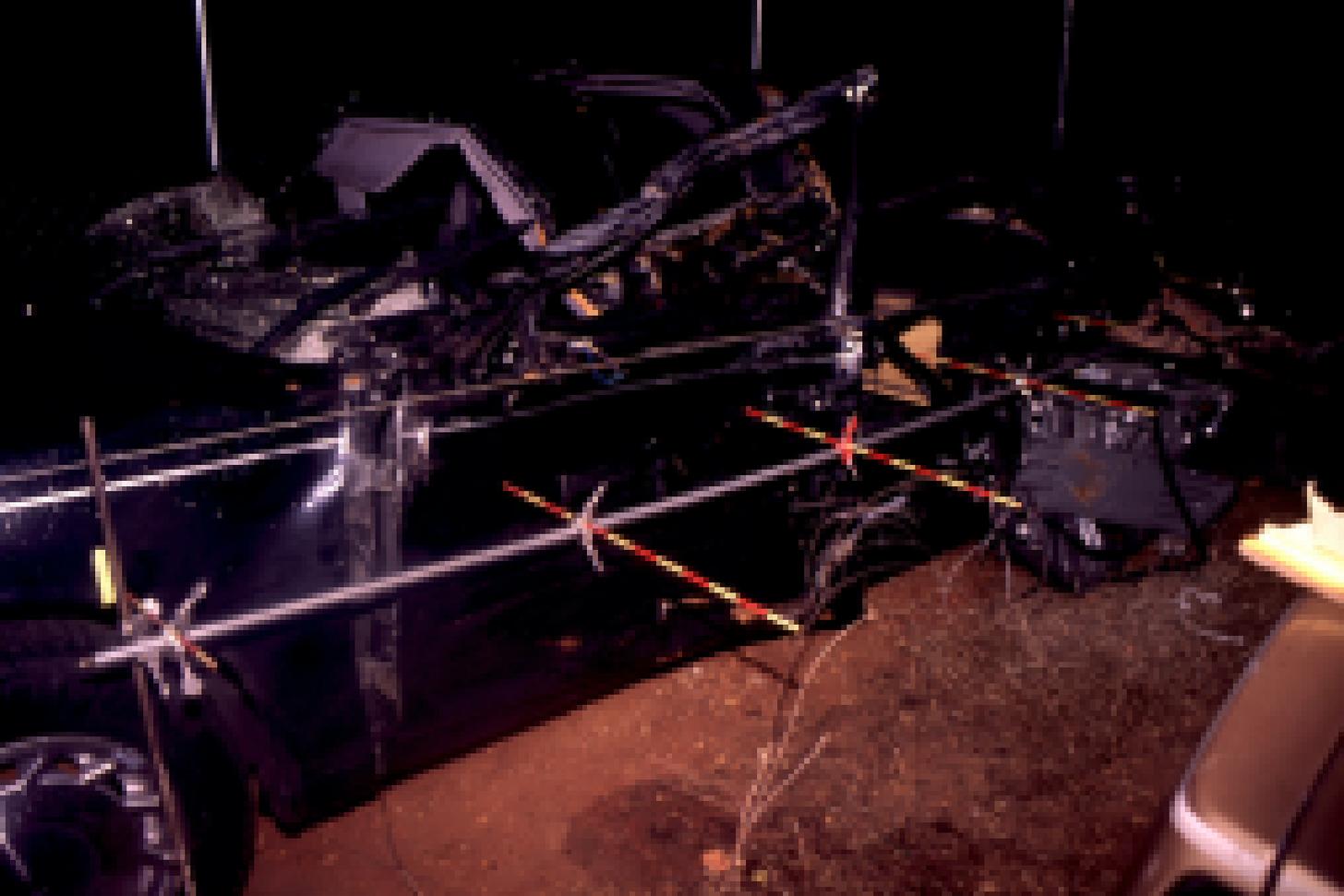
PSU 48-024A (1936) #64



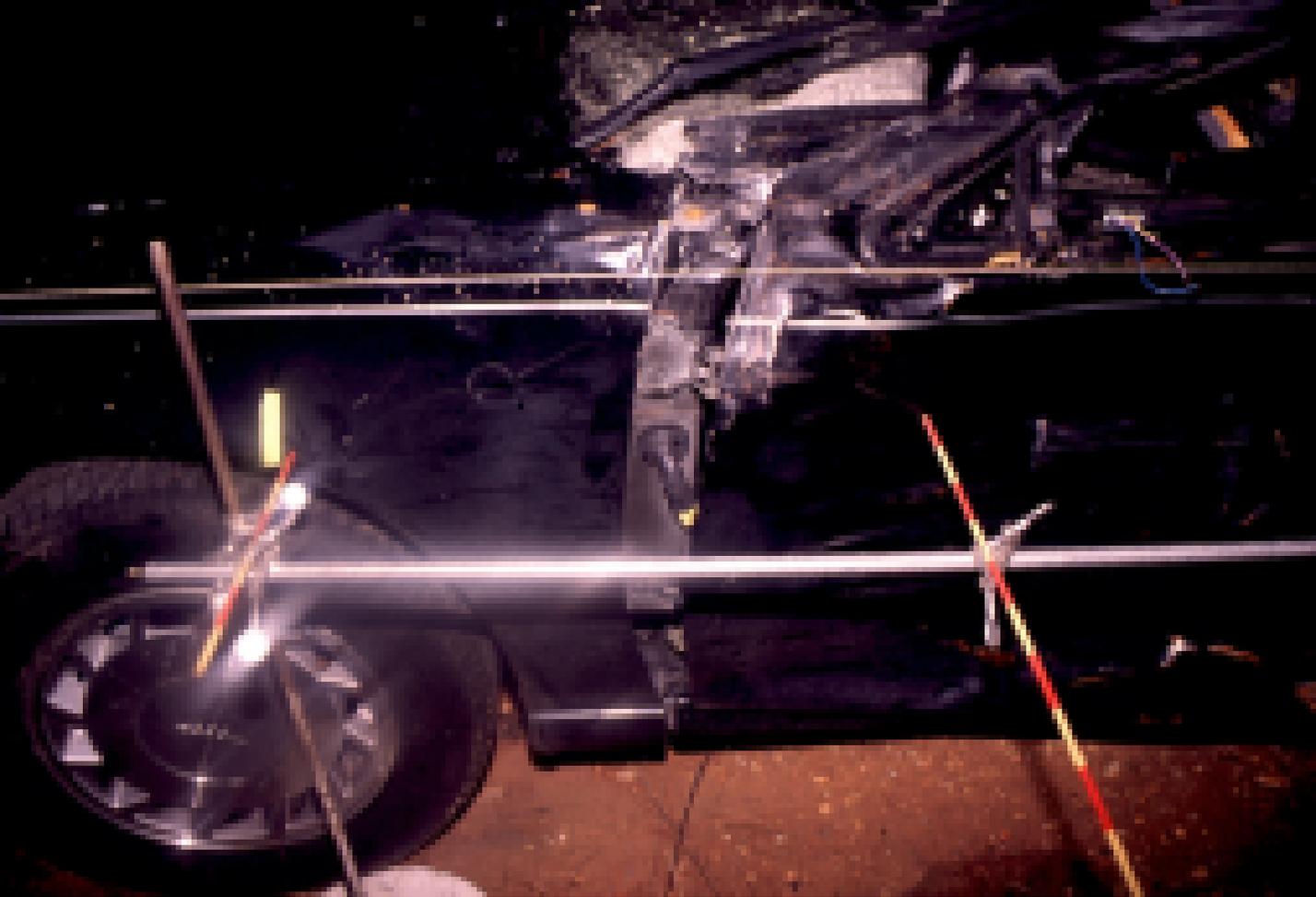
PSU 48-024A (1996) #65



PSU 48-024A (1996) #66



PSU 48-024A (1996) #67



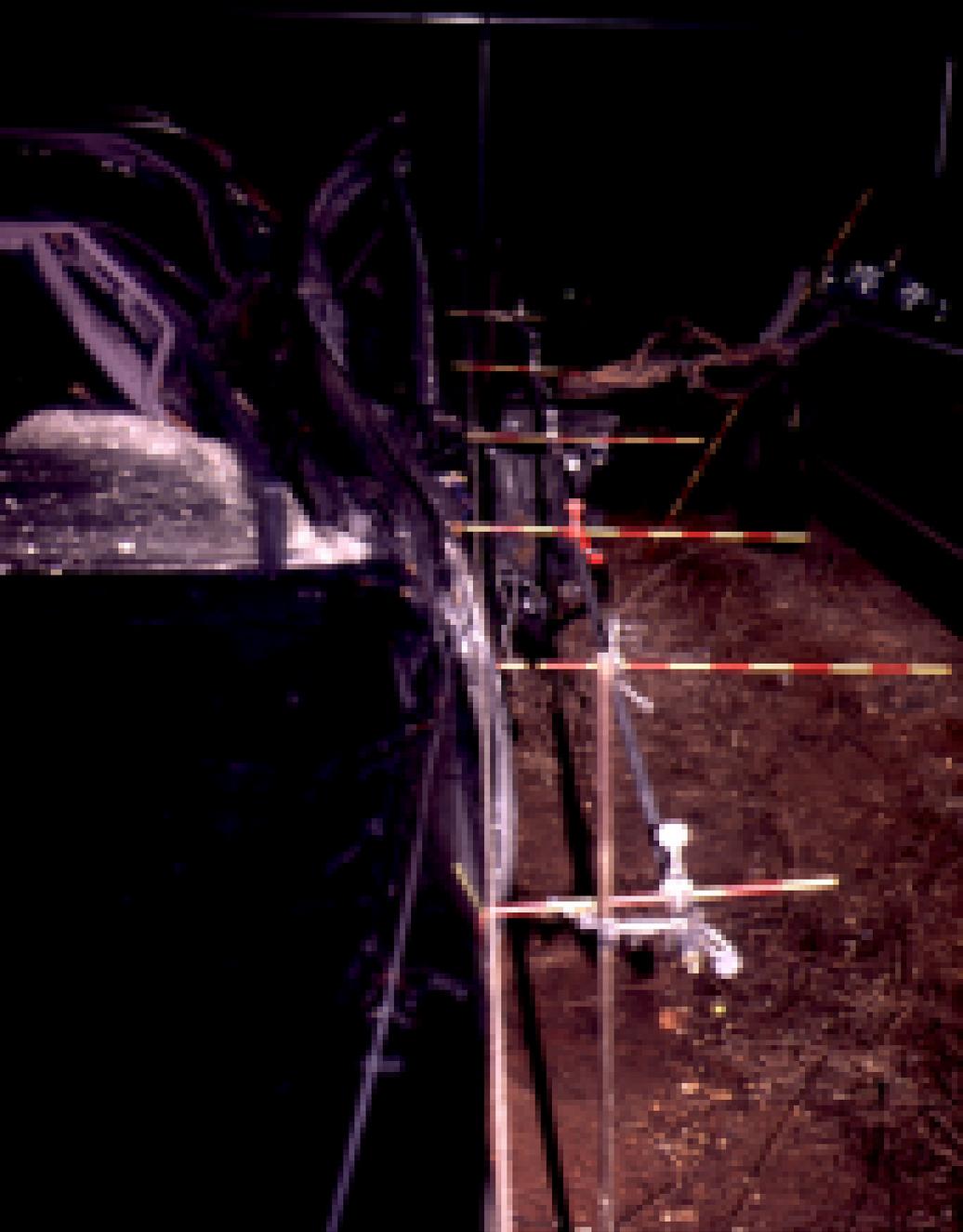
PSU 48-024A (1996) #68



PSU 48-024A (1996) #68



PSU 48-024A (1996) #70



PSU 48-024A (1996) #71



PSU 48-024A (1996) #72
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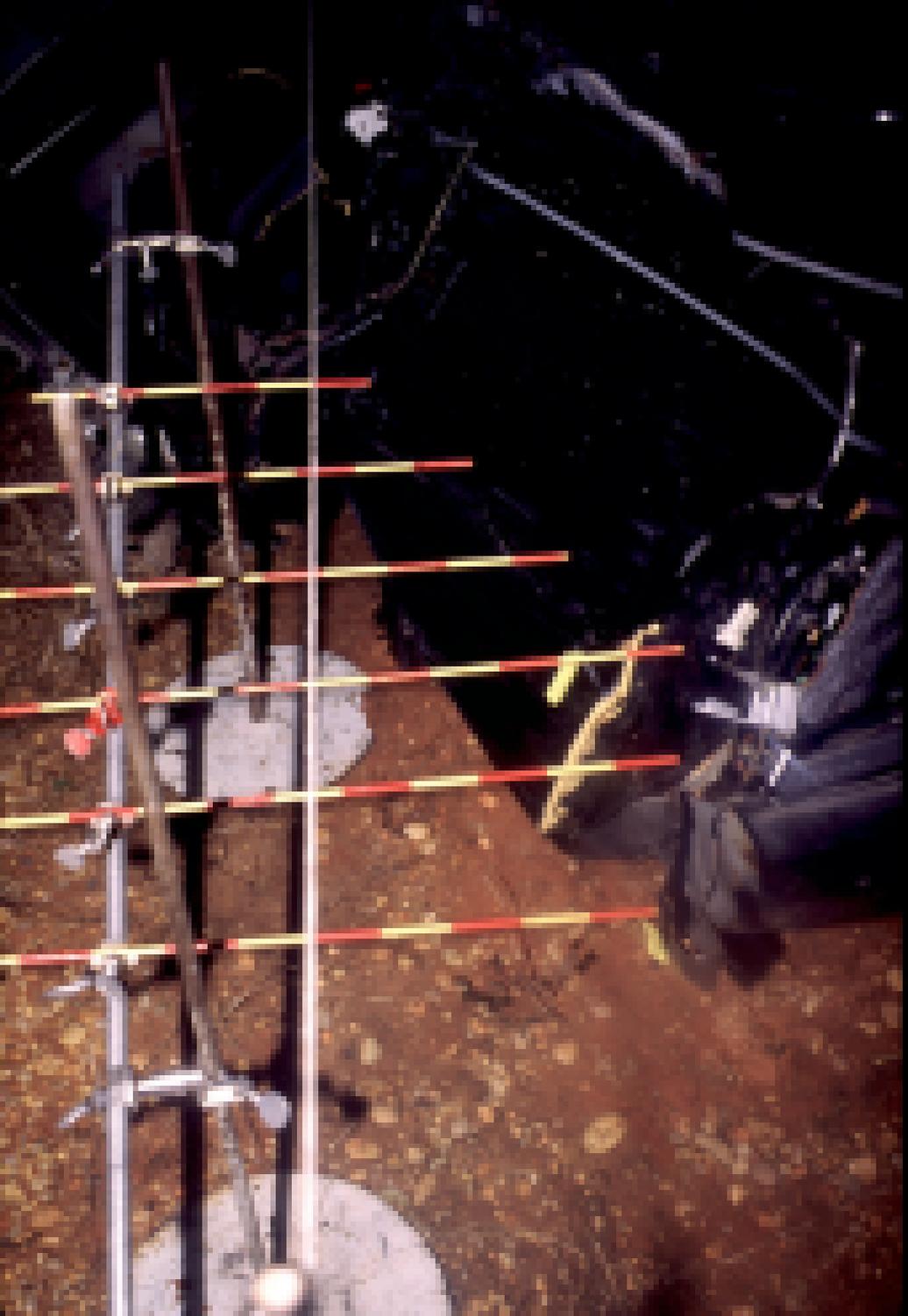
PSU 48-024A (1996) #73



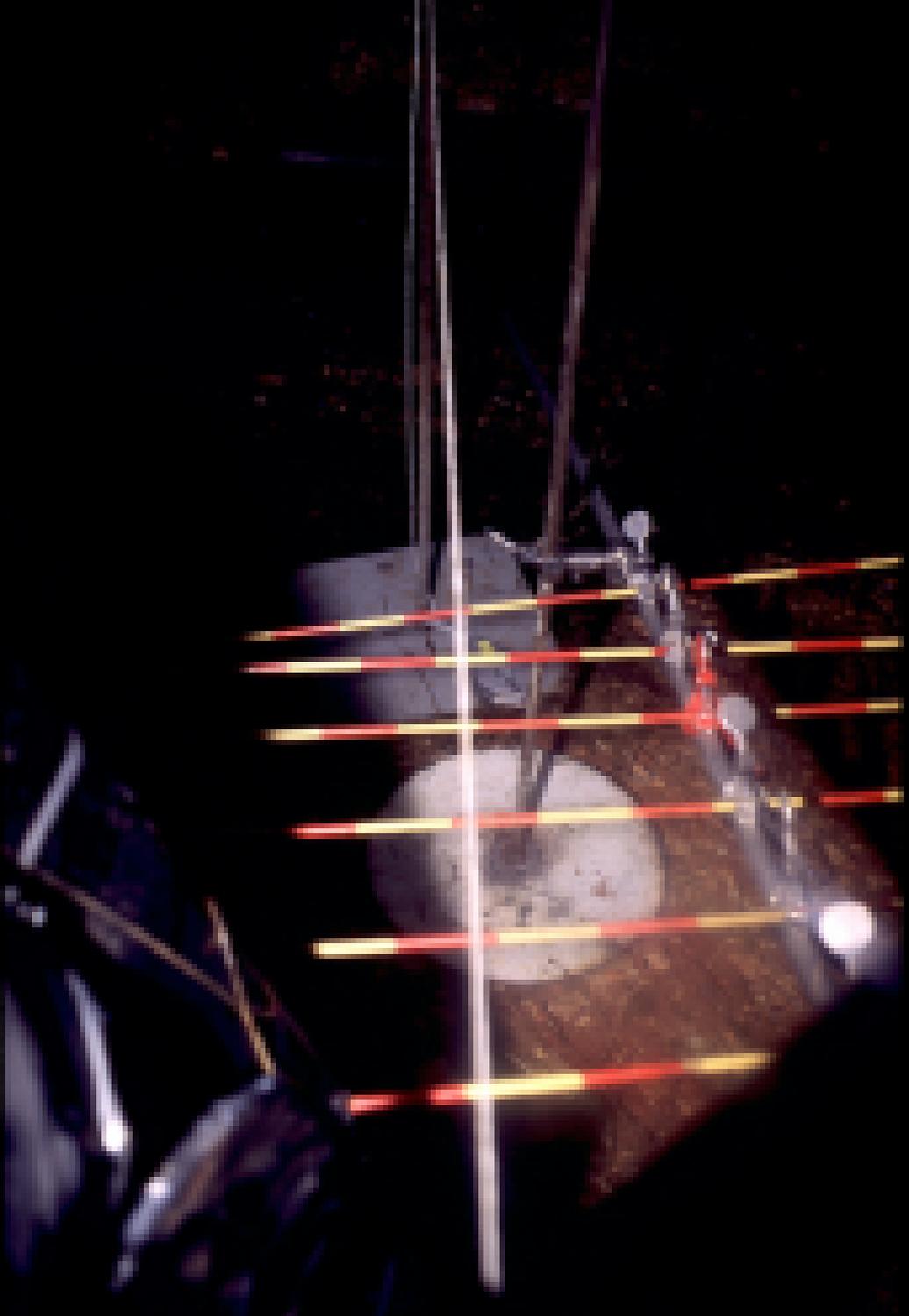
PSU 48-024A (1998) #74



**PSU 48-024A (1996) #75
Best Available**



PSU 48-024A (1996) #76



PSU 48-024A (1996) #77



PSU 48-024A (1996) #78



PSU 48-024A (1996) #79



PSU 48-024A (1996) #80



PSU 48-024A (1996) #81



PSU 48-024A (1996) #82



PSU 48-024A (1996) #83



PSU 48-024A (1986) #64



PSU 48-024A (1896) #85



PSU 48-024A (1996) #86



PSU 48-024A (1998) #87



PSU 48-024A (1996) #88



PSU 48-024A (1996) #89



PSU 48-024A (1996) #90



PSU 48-024A (1998) #91



PSU 48-024A (1998) #92



PSU 48-024A (1996) #93



PSU 48-024A (1996) #34



PSU 48-024A (1996) #95



PSU 48-024A (1996) #96



PSU 48-024A (1996) #97



PSU 48-024A (1996) #98



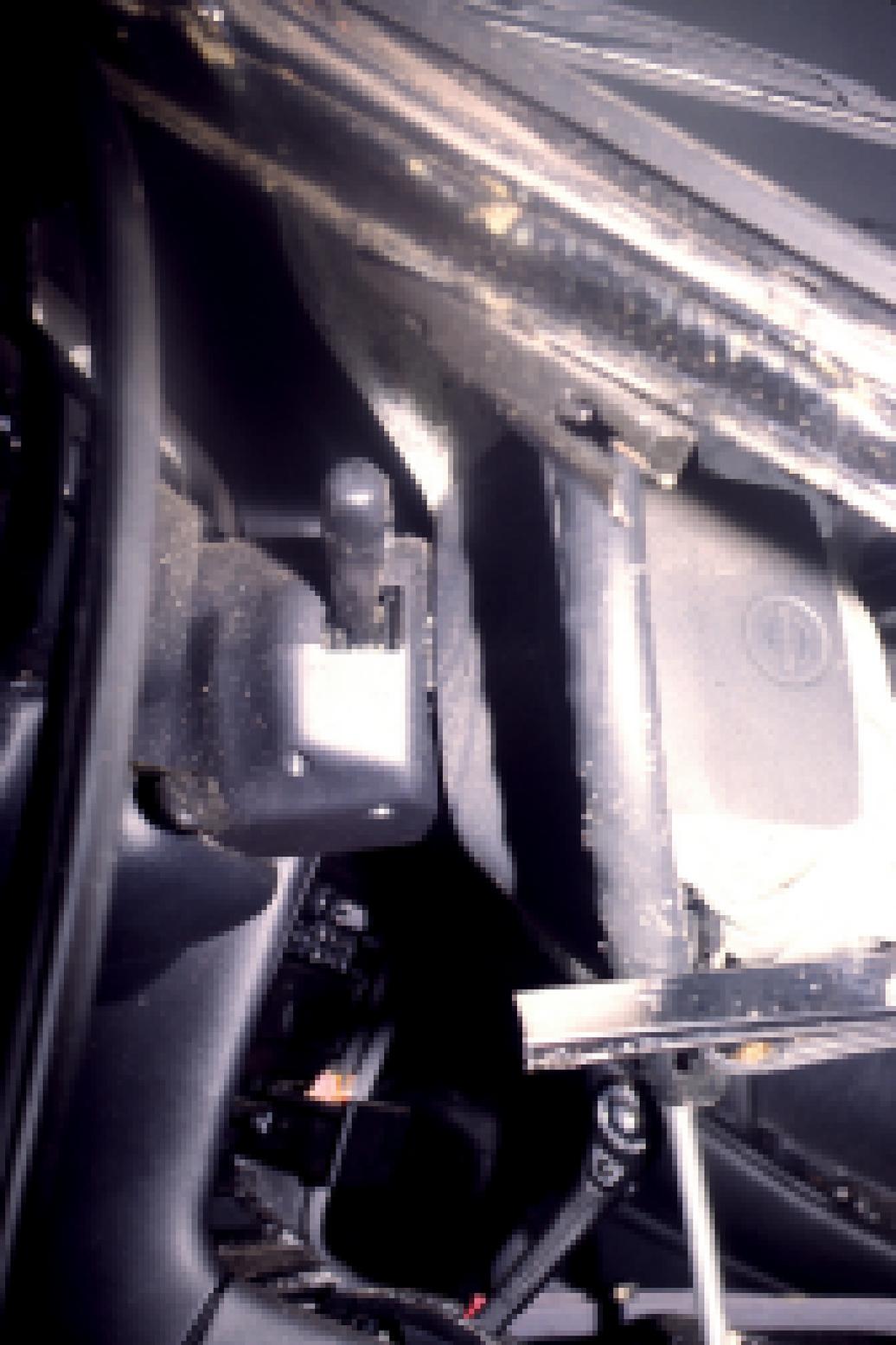
PSU 48-024A (1996) #99



PSU 48-024A (1998) #100



PSU 48-024A (1996) #101



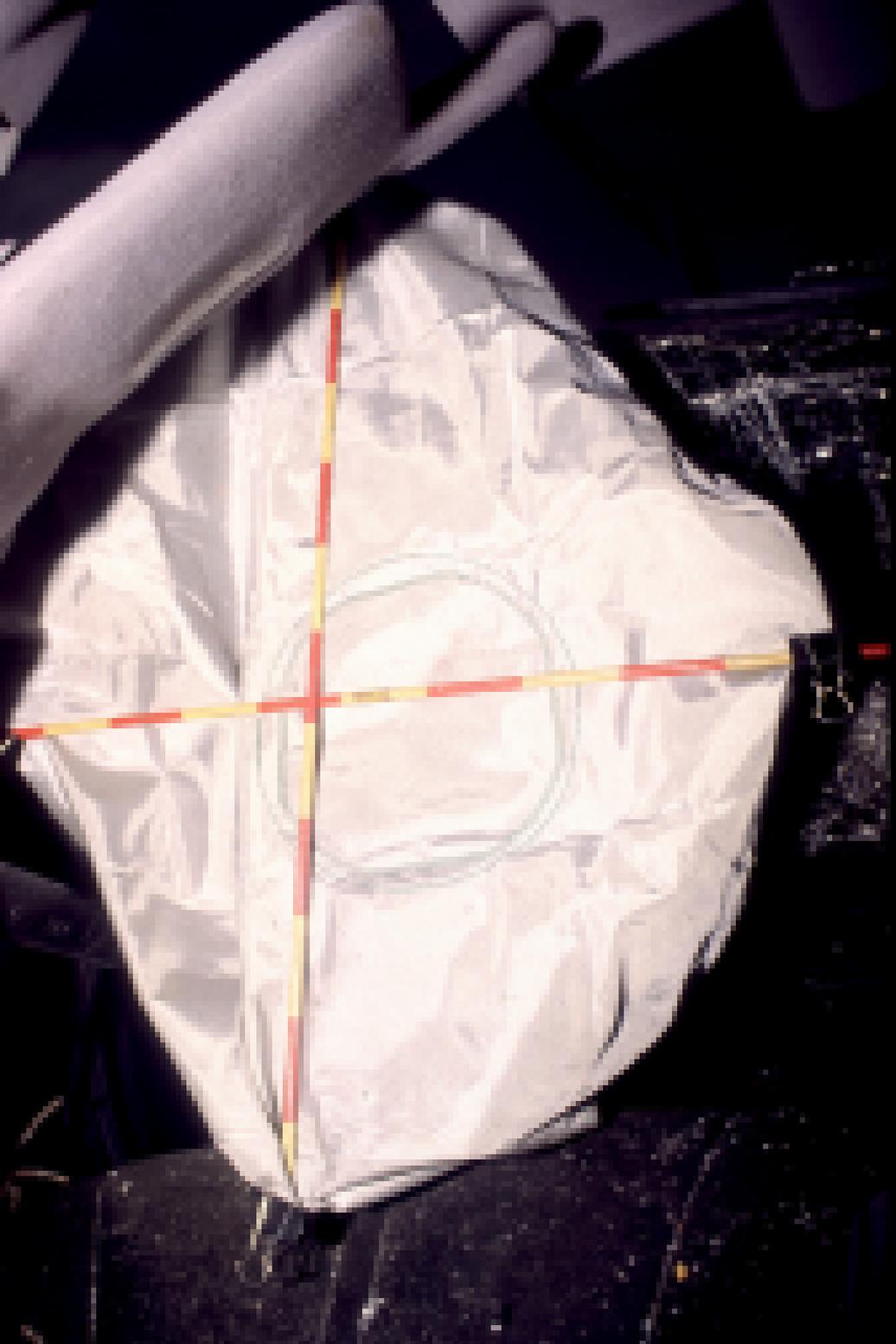
PSU 48-024A (1996) #102



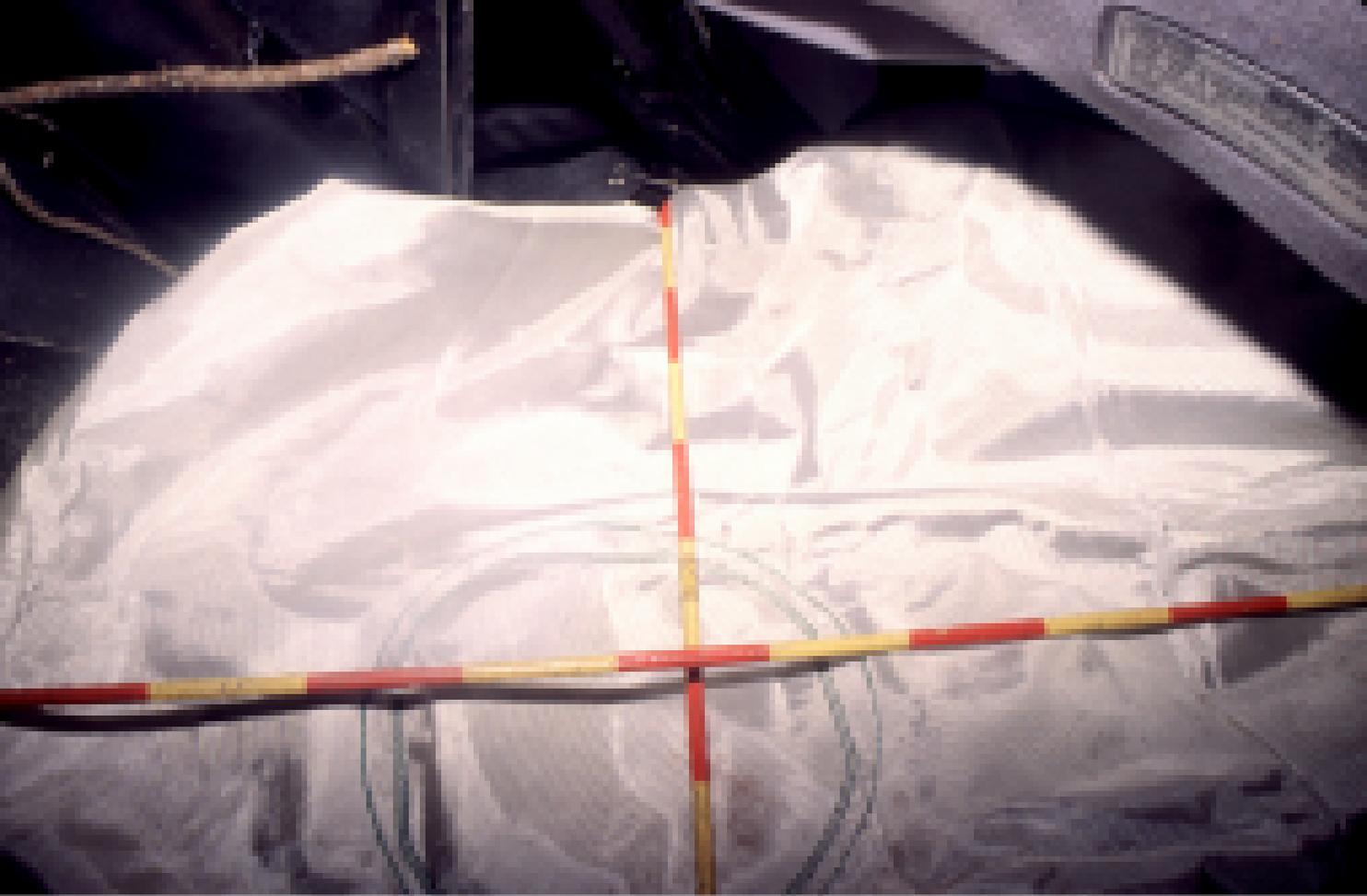
PSU 48-024A (1996) #103



PSU 48-024A (1996) #104



PSU 48-024A (1996) #105



PSU 48-024A (1996) #106



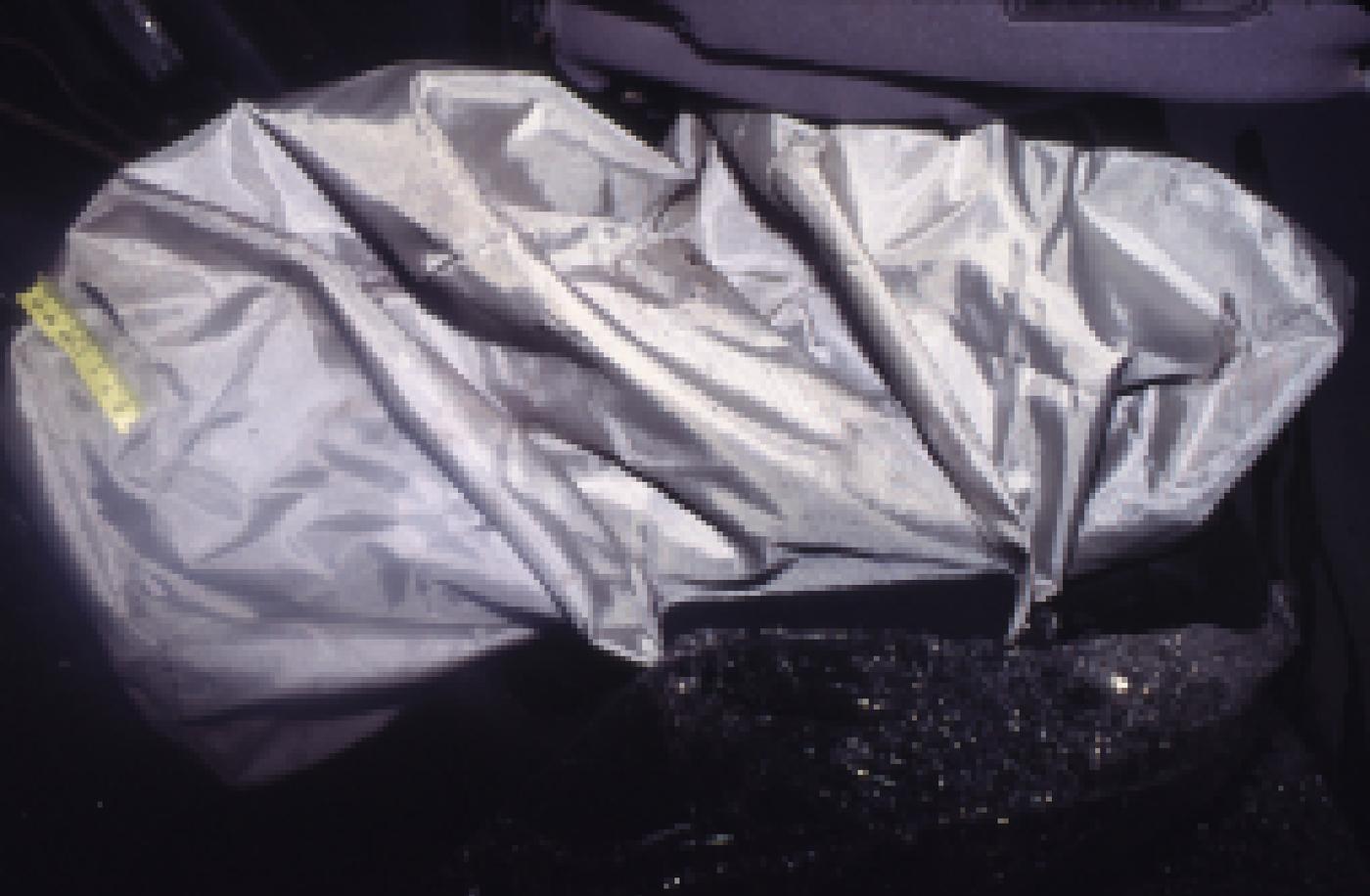
PSU 48-024A (1996) #107



PSU 48-024A (1996) #108



PSU 48-024A (1996) #109



PSU 48-024A (1996) #110
Best Available



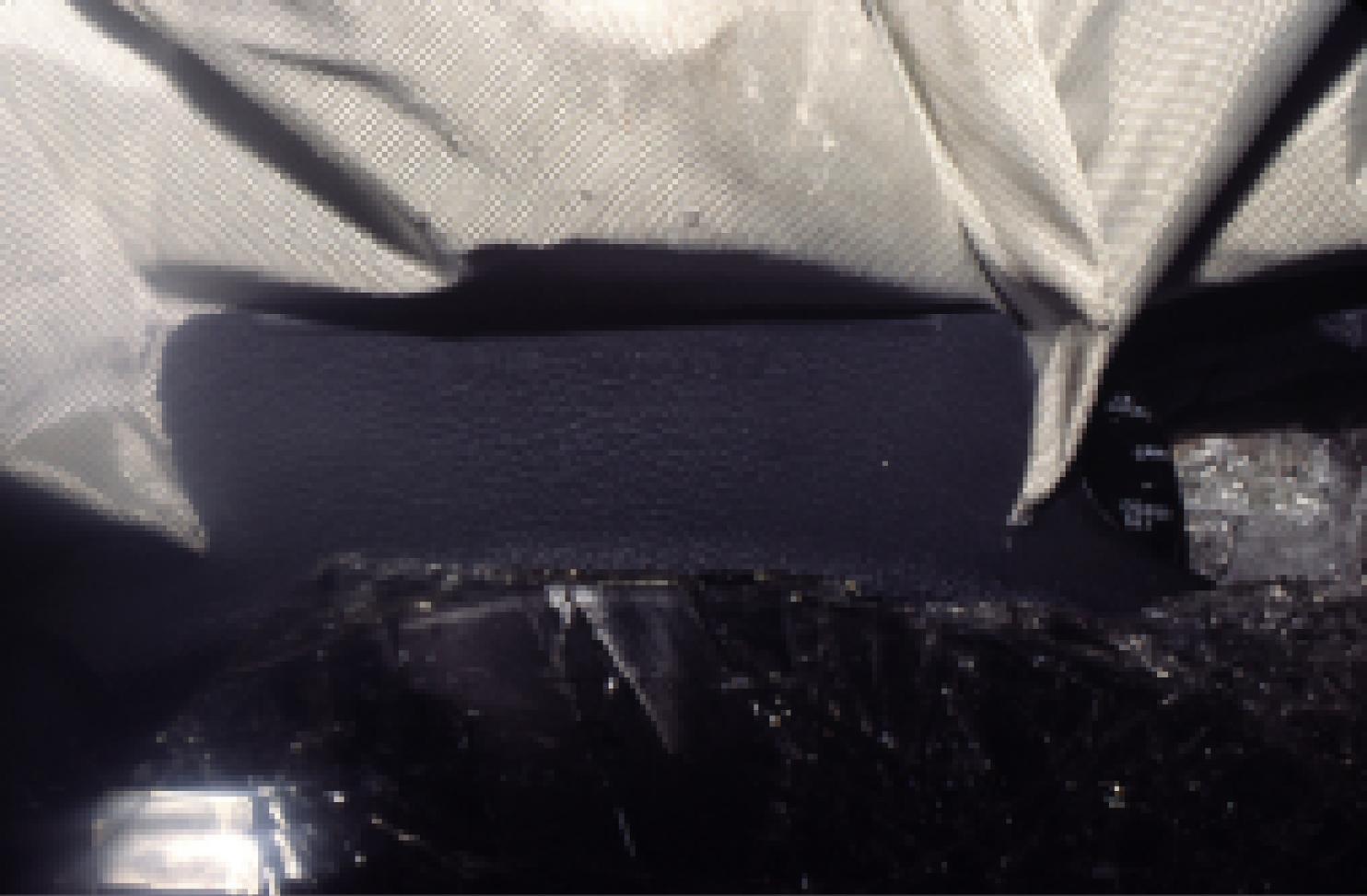
PSU 48-024A (1996) #111
Best Available



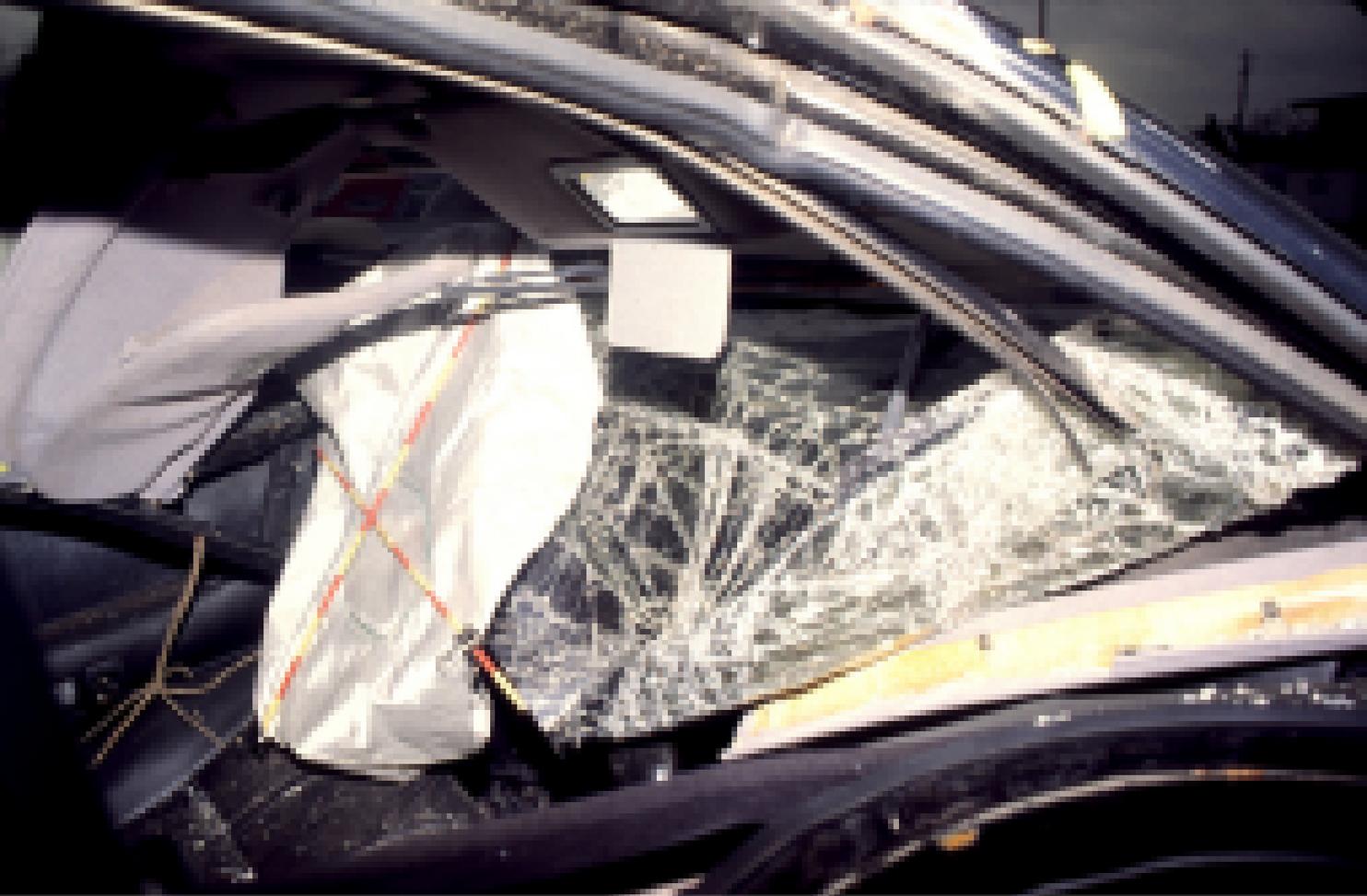
PSU 48-024A (1996) #112
Best Available



PSU 48-024A (1996) #113



PSU 48-024A (1996) #114



PSU 48-024A (1996) #115



PSU 48-024A (1996) #116



PSU 48-024A (1996) #117



PSU 48-024A (1996) #118



PSU 48-024A (1996) #119
Best Available



PSU 48-024A (1996) #120



PSU 48-024A (1996) #121



PSU 48-024A (1996) #122



PSU 48-024A (1996) #123



PSU 48-024A (1996) #124



PSU 48-024A (1998) #125



PSU 48-024A (1996) #126



PSU 48-024A (1998) #127



PSU 48-024A (1998) #128



PSU 48-024A (1996) #129



PSU 48-024A (1998) #130



PSU 48-024A (1996) #131