



U.S. Department  
of Transportation

**National Highway  
Traffic Safety  
Administration**

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

Dear Crash Data Researchers/Users:

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

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

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

\*\*\* \*\*



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

DS9107

BEST AVAILABLE

**DYNAMIC SCIENCE, INC.**  
**Contract DTNH22-88-C-07015**

**CASE NUMBER: DSI-91-AB-07**

**[REDACTED] 1991**

## **DISCLAIMERS**

**This document is disseminated under the sponsorship of the Department of Transportation in the interest of information exchange. The United States Government assumes no responsibility for the contents or use thereof.**

**The opinions, findings, and conclusions expressed in this publication are those of the authors and not necessarily those of the National Highway Traffic Safety Administration.**

**The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points be coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.**

**Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.**

## TECHNICAL SUMMARY

CONTRACTOR: Dynamic Science, Inc.  
CONTRACT NUMBER: DTNH 22-88-C-07015  
CASE NUMBER: DSI-91-AB-07

**[REDACTED]**

This single-vehicle vs. fixed object accident occurred during the morning hours of a summer weekday on an interstate/beltway in Maryland. Vehicle 1 is a 1991 Toyota Celica 2-door coupe equipped with an air cushion restraint system on the driver's side only. It was being driven southbound in lane four by a 28 year old female. The driver was wearing the available lap/shoulder belt. The weather was clear, the road was dry and traffic was heavy in morning rush hour.

The driver of Vehicle 1 had begun braking and changing lanes to her right to avoid striking a vehicle which had entered her lane of travel. Control was lost and Vehicle 1 entered a counterclockwise rotating skid toward the east (driver's left). The vehicle departed the east edge and struck the center median guard rail. At impact the right front bumper contacted the guard rail producing a direct damage width of 8.0 inches and an induced damage width of 46.0 inches involving the full front of Vehicle 1. Considerable side movement caused the front bumper and end stubs to shift left greater than 4.0 inches fracturing the left end stub weld at the bumper location. Final rest position was not established by the investigating officer and no residual evidence was present.

Information from the investigating officer's report indicated no entrapment, no ejection, no first-aid required and no transport to a medical facility.

Inspection and documentation of Vehicle 1 was completed including system (ACRS) check out at the repair facility used for storage. Sheet metal flow and damage assessment, system damage and function check, and collision dynamics indicated: the air cushion restraint system performed as designed and no defects exist.

The opinions, findings, and conclusions expressed in this publication are those of the authors and not necessarily those of the National Highway Traffic Safety Administration.

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- A. Complete set of NASS field forms and Airbag Supplement
- B. Police Accident Report

**DYNAMIC SCIENCE, INC.**  
**In-Depth Investigation**  
**Case Number: DSI-91-AB-07**

**IDENTIFICATION:**

Location: Maryland  
Area/Type: Rural, interstate/beltway  
Date/Time: [REDACTED]/91 0805 hours  
Accident Type: Frontal (end-swipe) - V1;  
"W" Beam Guard rail (fixed object)  
  
Injury Severity (V1 - Airbag vehicle): AIS-1

**AMBIENCE:**

Viewing Conditions: No restrictions, daylight  
Cloud Cover: Clear  
Precipitation: None  
Temperature: 60 - 70 degrees  
Road Surface: Dry

**ROADWAY:**

|                          | <u>Vehicle 1</u>                   | <u>Fixed Object</u> |
|--------------------------|------------------------------------|---------------------|
| Type:                    | 4-lane (S/B)<br>interstate/beltway | N/A                 |
| Width:                   | 68.0 feet (est.)                   |                     |
| Traffic Density:         | Heavy                              |                     |
| Median:                  | Grass stabilized<br>w/guard rail   |                     |
| Edge:                    | Asphalt-paved<br>shoulders         |                     |
| Surface:                 | Asphalt paved                      |                     |
| Coefficient of Friction: | 0.75 - 0.80 est.                   |                     |
| Vertical Alignment:      | Level                              |                     |
| Horizontal Alignment:    | Straight                           |                     |

DYNAMIC SCIENCE, INC.  
In-Depth Investigation  
Case Number: DSI-91-AB-07

**TRAFFIC CONTROLS:**

Vehicle 1

|              |  |
|--------------|--|
| Signals:     | None   |
| Signs:       | None applicable  |
| Speed Limit: | 55 miles per hour  |
| Markings:    | Continuous evenly spaced white dash lines denoting travel lanes southbound. Continuous solid yellow line at east shoulder lane, continuous solid white line at west shoulder lane. |

**VEHICLE:**

Vehicle 1

|                     |   |
|---------------------|---|
| Description:        | 1991 Toyota Celica 2-door coupe               |
| Odometer:           | 16,966 miles                                  |
| Engine:             | I4, 1.6L, F.I.                                |
| Active Restraints:  | L/S belts in front and rear seating positions |
| Passive Restraints: | Driver's side airbag                          |
| Reported Defects:   | None  |
| Cargo:              | None known                                    |
| Windshield Damage:  | Stress/impact fracturing R/lower side         |
| Fleet:              | No  |
| Previous Repairs:   | None known                                    |
| Tow Status:         | Yes - damage                                  |

**VEHICLE DAMAGE:**

Vehicle 1

|                          |                     |
|--------------------------|---------------------|
| Object Struck:           | "W" beam guard rail |
| CDC:                     | 02FREW1             |
| Estimated Maximum Crush: | 7.75 inches at C6   |
| Event Number:            | 1                   |

**DYNAMIC SCIENCE, INC.**  
**In-Depth Investigation**  
**Case Number: DSI-91-AB-07**

**VEHICLE VELOCITY ESTIMATES:**

The Delta V's of this accident were not computed using Crash P.C. as the configuration is out of scope, i.e. end swipe.

Estimated Impact Speed by the Investigator:

Forward speed at barrier: less than 10 MPH

Sideward speed at barrier: unknown.

Primary Direction of Force was approximately 080 degrees (sheet metal flow assessment) which is outside the sensor range.

DYNAMIC SCIENCE, INC.  
In-Depth Investigation  
Case Number: DSI-91-AB-07

COLLISION SEQUENCE:

**Pre-Crash:** Vehicle 1 was southbound in lane four (counted from curb side) in heavy traffic. The driver, while braking and changing lanes to avoid striking another vehicle, lost control. Vehicle 1 entered into a counterclockwise rotating skid and departed the east road edge.

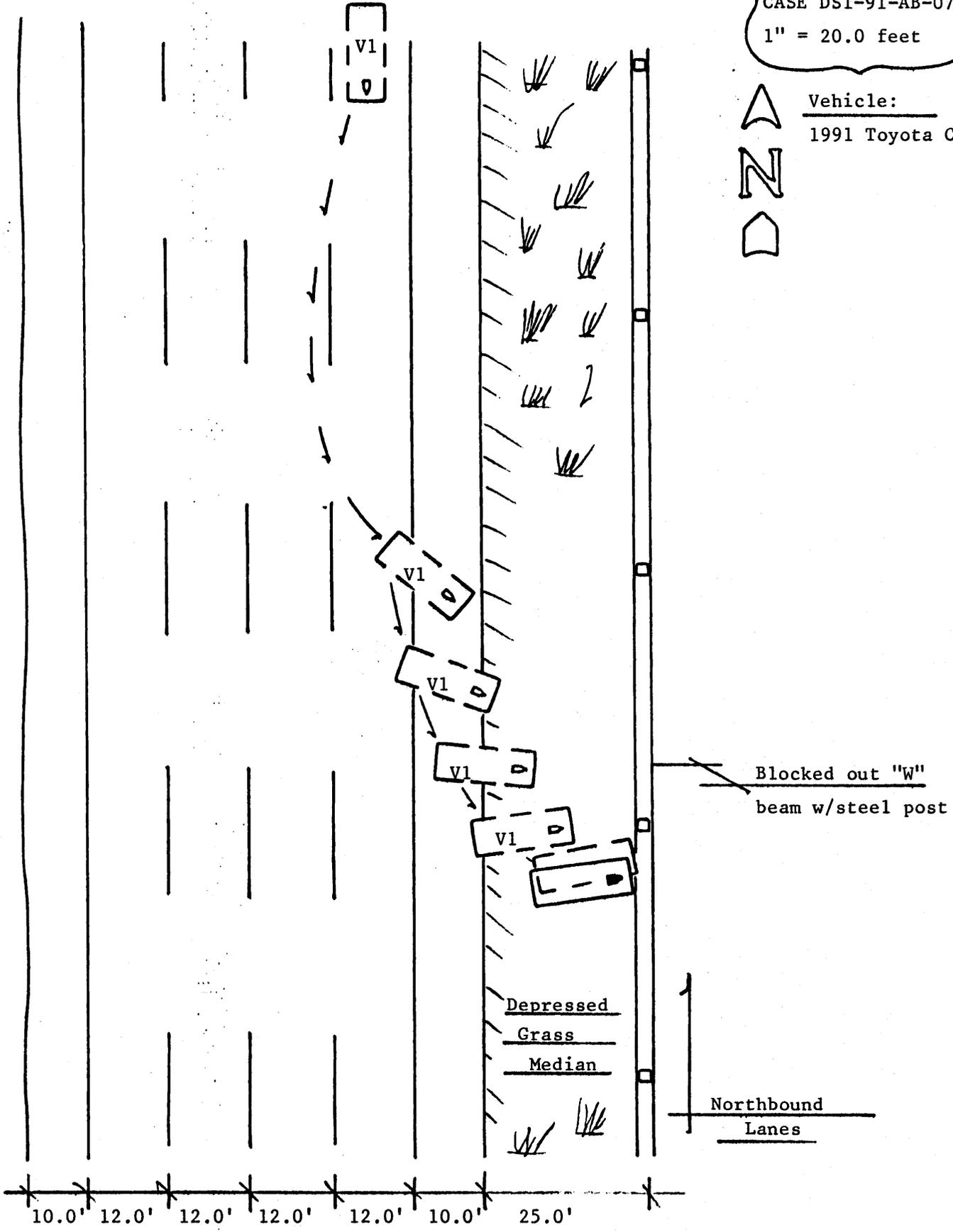
**Crash:** At impact the right front bumper corner of Vehicle 1 struck the guard rail. Damage assessment and sheet metal flow indicate a low forward speed and moderate sideward motion. At impact the forces involved were not sufficient to exceed the threshold in the air cushion restraint system and no deployment occurred. The primary direction of force (080 degrees) is outside of the sensing range.

**Post Crash:** The driver was able to exit the vehicle unassisted. The investigating officer assessed the injury severity as possible (2 - Police Severity Scale) and first-aid was not administered nor was the driver transported by ambulance. Vehicle 1 was towed from the scene due to damage received in this accident.

**Driver Activity:** No interview.

DYNAMIC SCIENCE  
CASE DSI-91-AB-07  
1" = 20.0 feet

Vehicle:  
1991 Toyota Celica



**COLLISION MEASUREMENTS**  
**Case Number DSI-91-AB-07**

**Reference Point: Accident Location - .2 Miles South of**  
**Overpass on Outer Loop of Beltway**

| DATA POINT  | LONGITUDINALS | LATERALS |
|---|---------------|----------|
| Diagram is representative of collision events based on      |               |          |
| accident report, environmental restraints and Investigating |               |          |
| Officer's Report  |               |          |
|   |               |          |
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|   |               |          |

**SLIDE INDEX**  
**CASE NO. DSI-91-AB-07**

| <b>SLIDE NO.</b> | <b>VEHICLE NO.</b> | <b>DIRECTION OF PICTURE</b> | <b>SUBJECT MATTER</b>                                   |
|------------------|--------------------|-----------------------------|---|
| 1-2              | 1                  | S                           | V1 route S/B in lane 1                                  |
| 3                | 1                  | SE                          | V1 CCW rotational skidmarks<br>off east side of roadway |
| 4                | 1                  | SE                          | V1 departure east side                                  |
| 5                | 1                  | SE                          | POI #1 V1 and "W" beam<br>center median guard rail      |
| 6-13             | 1                  | --                          | Exterior views V1 (front)                               |
| 14               | 1                  |                             | Center AB sensor  |
| 15               | 1                  |                             | R/F AB sensor   |
| 16               | 1                  |                             | L/F AB sensor   |
| 17               | 1                  |                             | Center AB sensor  |
| 18-27            | 1                  |                             | Front end parts V1                                      |
| 28-32            | 1                  |                             | Exterior views V1                                       |
| 33-49            | 1                  |                             | Interior views V1                                       |
|                  |                    |                             |   |
|                  |                    |                             |   |
|                  |                    |                             |   |
|                  |                    |                             |   |
|                  |                    |                             |   |
|                  |                    |                             |   |

DSI-91-AB07- 1



[Redacted text]

DSI-91-AB07- 2



[Redacted text]

DSI-91-AB07- 3



[Redacted text]

SI-91-AB07- 4



[Redacted text]

DSI-91-AB07- 5



[Redacted text]

DSI-91-AB07- 6



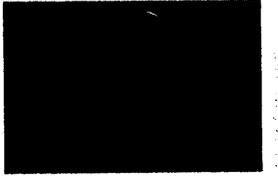
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SI-91-AB07- 8



[Redacted text]

DSI-91-AB07- 9



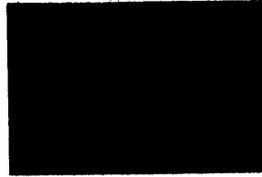
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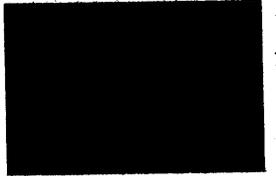
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SI-91-AB07-12



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DSI-91-AB07-13



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DSI-91-AB07-14



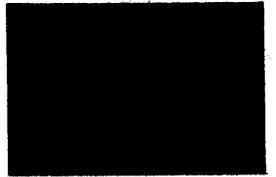
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SI-91-AB07-16



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DSI-91-AB07-17



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DSI-91-AB07-18



[Redacted text]

DSI-91-AB07-19



[Redacted text]

SI-91-AB07-20



BEST AVAILABLE

DSI-91-AB07-21



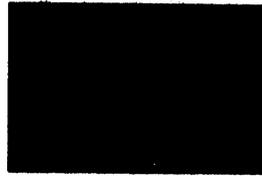
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DSI-91-AB07-22



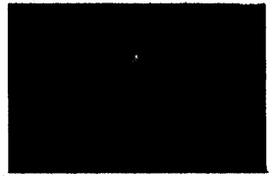
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DSI-91-AB07-24



[Redacted]

DSI-91-AB07-25



[Redacted]

DSI-91-AB07-26



[Redacted]

DSI-91-AB07-27



[Redacted]

DSI-91-AB07-28



[Redacted]

DSI-91-AB07-29



[Redacted]

DSI-91-AB07-30



[Redacted]

DSI-91-AB07-31



[Redacted]

DSI-91-AB07-32



[Redacted]

DSI-91-AB07-33



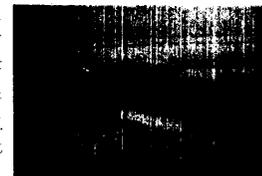
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DSI-91-AB07-34



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DSI-91-AB07-35



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DSI-91-AB07-36



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DSI-91-AB07-37



[Redacted]

DSI-91-AB07-38



[Redacted]

DSI-91-AB07-39



[Redacted]

DSI-91-AB07-40



BEST AVAILABLE

DSI-91-AB07-41



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DSI-91-AB07-42



[Redacted text]

DSI-91-AB07-43



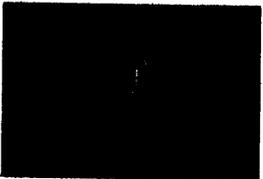
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[Redacted text]

DSI-91-AB07-46



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DSI-91-AB07-47



[Redacted text]

DSI-91-AB07-48



[Redacted text]



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

# ACCIDENT FORM

BEST AVAILABLE

NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

|  |  |
|--|--|
| Second case in a DOUBLE? (y/n) <u>N</u><br>Case Number - <u>DSI-91-AB-07</u> | SPECIAL STUDIES INDICATORS   |
| IDENTIFICATION   |  |
| 3. Number of General Vehicle Forms Submitted <u>01</u>                       |  |
| 4. Date of Accident <u>          </u> <u>9</u> <u>1</u>                      |  |
| 5. Time of Accident <u>08:25</u>   |  |
|  | NUMBER OF EVENTS   |
|  | 11. Number of Recorded Events In This Accident <u>01</u><br><br>Code the number of events which occurred in this accident. |

## ACCIDENT EVENTS

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

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

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

### CODES FOR CLASS OF VEHICLE

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

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

#### CDC APPLICABLE AND OTHER VEHICLES

- (0) 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

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

### CODES FOR VEHICLE NUMBER OR OBJECT CONTACTED

(01-30) - Vehicle number

#### Noncollision

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

(35) Noncollision injury

(38) Other noncollision (specify):

(39) Noncollision - details unknown

#### Collision with Fixed Object

- (41) Tree (< 4 inches in diameter)
- (42) Tree (4 inches in diameter)
- (43) Shrubby or bush
- (44) Embankment

(45) Breakaway pole or post (any diameter)

#### Nonbreakaway Pole or Post

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

(54) Concrete traffic barrier

(55) Impact attenuator

(56) Other traffic barrier (specify):

"W" BEAM GUARD RAIL

(57) Fence

(58) Wall

(59) Building

(60) Ditch or culvert

(61) Ground

(62) Fire hydrant

(63) Curb

(64) Bridge

(68) Other fixed object (specify):

(69) Unknown fixed object

#### Collision with Nonfixed Object

(71) Motor vehicle not in-transport

(72) Pedestrian

(73) Cyclist or cycle

(74) Other nonmotorist or conveyance (specify):

(75) Vehicle occupant

(76) Animal

(77) Train

(78) Trailer, disconnected in transport

(88) Other nonfixed object (specify):

(89) Unknown nonfixed object

(98) Other event (specify):

(99) Unknown event or object

# GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

Case Number

DSI-91-AB-07

Vehicle Number

01

## VEHICLE IDENTIFICATION

4. Vehicle Model Year

Code the last two digits of the model year  
(99) Unknown

91

5. Vehicle Make (specify):

TOYOTA  
Applicable codes are found in your  
NASS CDS Data Collection, Coding, and  
Editing Manual.  
(99) Unknown

49

6. Vehicle Model (specify):

CELICA  
Applicable codes are found in your  
NASS CDS Data Collection, Coding, and  
Editing Manual.  
(99) Unknown

033

7. Body Type

Note: Applicable codes are found on  
the back of this page.

02

8. Vehicle Identification Number

JTZATB6EYM

Left justify: Slash zeros and letter Z (0 and Z)  
No VIN - Code all zeros  
Unknown - Code all nine's

## OFFICIAL RECORDS

9. Police Reported Vehicle Disposition

(0) Not towed due to vehicle damage  
(1) Towed due to vehicle damage  
(9) Unknown

1

10. Police Reported Travel Speed

Code to the nearest mph (NOTE: 00 means  
less than 0.5 mph)  
(97) 96.5 mph and above  
(99) Unknown

99

11. Police Reported Alcohol Presence

- (0) No alcohol present
- (1) Yes (alcohol present)
- (7) Not reported
- (8) No driver present
- (9) Unknown

0

Note: See Variables 37 through 55 (Page 4)  
for Information on Other Drugs

12. Alcohol Test Result for Driver

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

96

Source PAR

## ACCIDENT RELATED

13. Speed Limit

- (00) No statutory limit
- Code posted or statutory speed limit
- (99) Unknown

55

14. Attempted Avoidance Maneuver

- (00) No impact
- (01) No avoidance actions
- (02) Braking (no lockup)
- (03) Braking (lockup)
- (04) Braking (lockup unknown)
- (05) Releasing brakes
- (06) Steering left
- (07) Steering right
- (08) Braking and steering left
- (09) Braking and steering right
- (10) Accelerating
- (11) Accelerating and steering left
- (12) Accelerating and steering right
- (97) No driver present
- (98) Other action (specify):

04

(99) Unknown

15. Accident Type

Applicable codes may be found on the back  
of page two of this field form

- (00) No impact
- Code the number of the diagram that  
best describes the accident circumstance
- (98) Other accident type (specify):

07

(99) Unknown

\*\*\*\*\*SKIP TO VARIABLE GV37 IF GV07 DOES NOT EQUAL 01-49\*\*\*\*\*

# CODES FOR BODY TYPE

BEST AVAILABLE

## CDS APPLICABLE VEHICLES

### Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (08) Other automobile type (specify):

---

(09) Unknown automobile type

### Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, and Brat)
- (11) Auto based panel (cargo station wagon, includes auto based ambulance/hearse)
- (12) Large limousine—more than four side doors or stretched chassis

### Utility Vehicles

- (13) Short utility—not truck based (includes Jeep CJ-5, Jeep CJ-7, Renegade, Landrover, Pre-78 Bronco, Landcruiser, Thing)
- (14) Truck based utility (2-door; includes Blazer, Bronco—78 on, Bronco II, Jimmy, Ramcharger, Cherokee, Trailduster, Scout)

### Van Based Light Trucks (· 10,000 lbs GVWR)

- (20) Minivan (Lumina APV, Astro, Caravan, Plymouth Vista, Aerostar, Safari, Voyager [84 and after], Dodge Vista, Mini Ram Van, Toyota Cargo Van, Toyota Van, Vanagon, VW Bus, Kombi)
- (21) Standard van (Sportvan, Chevy Van, Club Wagon, Ford Econoline, Ram Van, Chateau, Ram Wagon, Vandura, Rally, Voyager [83 and before], Beauville, Sportsman)
- (28) Other van type (Hi-Cube Van, Kary) (specify):

---

(29) Unknown van type

### Light Conventional Trucks (Pickup Style Cab, 10,000 lbs GVWR)

- (30) Compact pickup (· 4,500 lbs. GVWR, S-10, LUV, Ram 50, Rampage, Courier, Ranger, S-15 Pup, Mazda Pickup, Mitsubishi Truck, Nissan Pickup, Arrow Pickup, Scamp, Toyota Pickup, VW Pickup)
- (31) Standard pickup (4,500 to 10,000 lbs. GVWR, C10 - C30, K10 - K30, T10, D100 - D350, W150 - W350, F100 - F350, Comanche, J10 - J30, Dakota)
- (32) Pickup with slide-in camper
- (33) Truck based station wagon (4-door; includes Suburban, Travelall, Wagoneer)
- (34) Light truck based suburban limousine
- (35) Convertible pickup
- (39) Unknown (pickup style) light conventional truck type

### Other Light Trucks (· 10,000 lbs GVWR)

- (40) Cab chassis based (includes rescue vehicle, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (47) Other light conventional truck type (not a pickup - includes step vans ≤ 10,000 lbs GVWR, Grumman LLV vehicle) (specify):

---

(48) Unknown other light truck type (not a pickup)

(49) Unknown light vehicle type (automobile, van, or light truck)

## OTHER VEHICLES

### Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):

---

(59) Unknown bus type

### Medium/Heavy Trucks (· 10,000 lbs GVWR)

- (60) Step van
- (61) Single unit straight truck (10,000 lbs GVWR 26,000 lbs)
- (62) Single unit straight truck (· 26,000 lbs GVWR)
- (63) Medium/heavy truck based motorhome
- (64) Truck-tractor with no cargo trailer
- (65) Truck-tractor pulling one trailer
- (66) Truck-tractor pulling two or more trailers
- (67) Truck-tractor (unknown if pulling trailer)
- (68) Unknown medium/heavy truck type
- (69) Unknown truck type (light/medium/heavy)

### Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (70) Motorcycle
- (71) Moped (motorized bicycle)
- (78) Other motored cycle type (minibike, motorscooter) (specify):

---

(79) Unknown motored cycle type

### Other Vehicles

- (80) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (88) Other vehicle type (specify):

---

(99) Unknown body type

| Category                               | Configuration               | ACCIDENT TYPES (Includes Intent)  |                                     |  |  |  |
|--|-----------------------------|-----------------------------------|-------------------------------------|--|--|--|
| I. Single Driver                       | A. Right Roadside Departure | 01<br>DRIVE OFF ROAD              | 02<br>CONTROL/ TRACTION LOSS        | 03<br>AVOID COLLISION WITH VEH., PED., ANIM.                       | 04<br>SPECIFICS OTHER                        | 05<br>SPECIFICS UNKNOWN                                      |
|  | B. Left Roadside Departure  | 06<br>DRIVE OFF ROAD              | 07<br>CONTROL/ TRACTION LOSS        | 08<br>AVOID COLLISION WITH VEH., PED., ANIM.                       | 09<br>SPECIFICS OTHER                        | 10<br>SPECIFICS UNKNOWN                                      |
|  | C. Forward Impact           | 11<br>PARKED VEH.                 | 12<br>STA. OBJECT                   | 13<br>PEDESTRIAN/ ANIMAL   | 14<br>END DEPARTURE                          | 15<br>SPECIFICS OTHER  |
| II Same Trafficway Same Direction      | D. Rear-End                 | 20<br>STOPPED<br>21, 22, 23       | 24<br>SLOWER<br>25, 26, 27          | 28<br>DECEL.<br>29, 30, 31   | 30<br>SPECIFICS OTHER                        | (EACH • 32) (EACH • 33)<br>SPECIFICS UNKNOWN                 |
|  | E. Forward Impact           | 34<br>CONTROL/ TRACTION LOSS      | 36<br>CONTROL/ TRACTION LOSS        | 38<br>AVOID COLLISION WITH VEH.                                    | 40<br>AVOID COLLISION WITH OBJECT            | (EACH • 42) (EACH • 43)<br>SPECIFICS OTHER SPECIFICS UNKNOWN |
|  | F. Sideswipe Angle          | 44<br>45                          | 46<br>47                            | (EACH • 48)<br>SPECIFICS OTHER                                     | (EACH • 49)<br>SPECIFICS UNKNOWN             |  |
| III Same Trafficway Opposite Direction | G. Head-On                  | 50<br>LATERAL MOVE                | (EACH • 52)<br>SPECIFICS OTHER      | (EACH • 53)<br>SPECIFICS UNKNOWN                                   |  |  |
|  | H. Forward Impact           | 54<br>CONTROL/ TRACTION LOSS      | 56<br>CONTROL/ TRACTION LOSS        | 58<br>AVOID COLLISION WITH VEH.                                    | 60<br>AVOID COLLISION WITH OBJECT            | (EACH • 62) (EACH • 63)<br>SPECIFICS OTHER SPECIFICS UNKNOWN |
|  | I. Sideswipe Angle          | 64<br>LATERAL MOVE                | (EACH • 66)<br>SPECIFICS OTHER      | (EACH • 67)<br>SPECIFICS UNKNOWN                                   |  |  |
| IV. Change Trafficway Vehicle Turning  | J. Turn Across Path         | 68<br>INITIAL OPPOSITE DIRECTIONS | 70<br>INITIAL SAME DIRECTIONS       | 72<br>SPECIFICS OTHER  | (EACH • 74) (EACH • 75)<br>SPECIFICS UNKNOWN |  |
|  | K. Turn Into Path           | 76<br>TURN INTO SAME DIRECTION    | 79<br>TURN INTO OPPOSITE DIRECTIONS | 81<br>SPECIFICS OTHER  | (EACH • 84) (EACH • 85)<br>SPECIFICS UNKNOWN |  |
| V. Intersecting Paths (Vehicle Damage) | L. Straight Paths           | 86<br>87                          | 88<br>89                            | (EACH • 90)<br>SPECIFICS OTHER                                     | (EACH • 91)<br>SPECIFICS UNKNOWN             |  |
| VI. Miscellaneous                      | M. Backing Etc.             | 92<br>BACKING VEH.                | 93<br>OTHER VEH. OR OBJECT          | 98 Other Accident Type<br>99 Unknown Accident Type<br>00 No Impact |  |  |

**OCCUPANT RELATED**

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

- 24. Rollover 0
  - (0) No rollover (no overturning)

Rollover (primarily about the longitudinal axis)

  - (1) Rollover, 1 quarter turn only
  - (2) Rollover, 2 quarter turns
  - (3) Rollover, 3 quarter turns
  - (4) Rollover, 4 or more quarter turns (specify):

---

  - (5) Rollover - end-over-end (i.e., primarily about the lateral axis)
  - (9) Rollover (overturn), details unknown

**VEHICLE WEIGHT ITEMS**

- 19. Vehicle Curb Weight 02,500
  - ~~2500~~ Code weight to nearest 100 pounds.
  - (010) Less than 1050 pounds
  - (135) 13,500 lbs or more
  - (999) Unknown

Source: [REDACTED]
- 20. Vehicle Cargo Weight 9,900
  - ~~UNK~~ Code weight to nearest 100 pounds.
  - (00) Less than 50 pounds
  - (97) 9,650 lbs or more
  - (99) Unknown

**OVERRIDE/UNDERRIDE (THIS VEHICLE)**

- 25. Front Override/Underride (this vehicle) 0
- 26. Rear Override/Underride (this vehicle) 0
  - (0) No override/underride, or not an end-to-end impact

Override (see specific CDC)

  - (1) 1st CDC
  - (2) 2nd CDC
  - (3) Other not automated CDC (specify):

---

Underride (see specific CDC)

  - (4) 1st CDC
  - (5) 2nd CDC
  - (6) Other not automated CDC (specify):

---

  - (7) Medium/heavy truck override
  - (9) Unknown

**RECONSTRUCTION DATA**

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

---

  - (9) Unknown

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

- Values: (000)-(359) Code actual value  
 (997) Noncollision  
 (998) Impact with object  
 (999) Unknown
- 27. Heading Angle for This Vehicle 998
  - 28. Heading Angle for Other Vehicle 998

**(END SWIPE)**

29. Basis for Total Delta V (Highest) 5

Delta V Calculated  
 (1) CRASH program - damage only routine  
 (2) CRASH program - damage and trajectory routine  
 (3) Missing vehicle algorithm

Delta V Not Calculated  
 (4) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.  
 (5) All vehicles within scope (CDC applicable) of CRASH program but one of the collision conditions is beyond the scope of the CRASH program or other acceptable reconstruction techniques, regardless of adequacy of damage data.  
 (6) All vehicles and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available.

**COMPUTER GENERATED DELTA V**

|   |           |           |
|---|-----------|-----------|
|   | Secondary | Highest   |
| 30. Total Delta V   |           | <u>99</u> |
| _____ Nearest mph   | _____     |           |
| (NOTE: 00 means less than 0.5 mph)<br>(97) 96.5 mph and above<br>(99) Unknown                               |           |           |
| 31. Longitudinal Component of Delta V   | +         | <u>99</u> |
| _____ Nearest mph   | _____     |           |
| (NOTE: -00 means greater than -0.5 and less than +0.5 mph)<br>(± 97) ± 96.5 mph and above<br>(- 99) Unknown |           |           |

|   |           |               |
|---|-----------|---------------|
|   | Secondary | Highest       |
| 32. Lateral Component of Delta V  | +         | <u>99</u>     |
| _____ Nearest mph   | _____     |               |
| (NOTE: -00 means greater than -0.5 and less than +0.5 mph)<br>(± 97) ± 96.5 mph and above<br>(- 99) Unknown   |           |               |
| 33. Energy Absorption   |           | <u>999900</u> |
| _____ Nearest 100 foot-lbs  | _____     |               |
| (NOTE: 0000 means less than 50 Foot-Lbs)<br>(9997) 999,650 foot-lbs or more<br>(9999) Unknown   |           |               |
| 34. Confidence in Reconstruction Program Results (for Highest Delta V)  |           | <u>0</u>      |
| (0) No reconstruction<br>(1) Collision fits model - results appear reasonable<br>(2) Collision fits model - results appear high<br>(3) Collision fits model - results appear low<br>(4) Borderline reconstruction - results appear reasonable |           |               |
| 35. Type of Vehicle Inspection  |           | <u>1</u>      |
| (0) No inspection<br>(1) Complete inspection<br>(2) Partial inspection (specify):<br>_____  |           |               |
| * 99. Percent Overlap   | +         | <u>000</u>    |
| Code the rounded product of :<br>Direct Width / Undef. End Width<br>- = Left Overlap + = Right Overlap  |           |               |
| 000 Not an end-to-end impact<br>999 Unknown   |           |               |

\*\*\* STOP: IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV35 = 0), \*\*\* DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.

\* CV99 notes: The idea is to document overlap at initial contact. Therefore, divide the direct width of the vehicle with the most narrow direct width by the undeformed end width of the vehicle described on this form.

If this vehicle sustained direct contact across the entire plane at initial contact, then code 100.

37. Police Reported Other Drug Presence 7
- (0) No other drugs present
  - (1) Yes (other drug present)
  - (7) Not reported
  - (8) No driver present
  - (9) Unknown

38. Police Reported Observation/Perception Test Type For Driver Ø
- (0) No observation/perception test given
  - (1) Drug recognition technician (DRT) determination
  - (2) Behavioral
  - (3) Other physical observation/perception determination (specify):

---

  - (7) Other observation/perception test
  - (8) No driver present

---

  - (9) Unknown if observation/perception test given

39. Other Drug Specimen Test Type For Driver Ø
- (0) No specimen test given
  - (1) Blood test
  - (2) Urine test
  - (3) Other specimen tests (specify):

---

  - (7) Unspecified specimen test
  - (8) No driver present
  - (9) Unknown if specimen test given

OTHER DRUGS TEST RESULTS FOR DRIVER

|  | Observation/<br>Perception<br>Test Results | Specimen<br>Test Results |
|--|--|--------------------------|
| Narcotic Drug  | 40. <u>Ø</u>                               | 41. <u>Ø</u>             |
| Depressant Drug  | 42. <u>Ø</u>                               | 43. <u>Ø</u>             |
| Stimulant Drug   | 44. <u>Ø</u>                               | 45. <u>Ø</u>             |
| Hallucinogen Drug  | 46. <u>Ø</u>                               | 47. <u>Ø</u>             |
| Cannabinoid Drug   | 48. <u>Ø</u>                               | 49. <u>Ø</u>             |
| Phencyclidine (PCP)  | 50. <u>Ø</u>                               | 51. <u>Ø</u>             |
| Inhalant Drug  | 52. <u>Ø</u>                               | 53. <u>Ø</u>             |
| Other Drug (Excluding<br>Nicotine, Aspirin, Alcohol,<br>Drugs Administered Post-Crash) | 54. <u>Ø</u>                               | 55. <u>Ø</u>             |

Codes For Observation/Perception Test Results

- (0) No observation/perception test given
- (1) Passed observation/perception test
- (2) Failed observation/perception test
- (3) Observation/perception test given - results unknown
- (8) No driver present
- (9) Unknown if observation perception test given

Codes for Specimen Test Results

- (0) No specimen test given
- (1) Drug not found in specimen
- (2) Drug found in specimen
- (8) No driver present
- (9) Unknown if specimen test given

\*\*\* IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV35 = 0), \*\*\*  
DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.

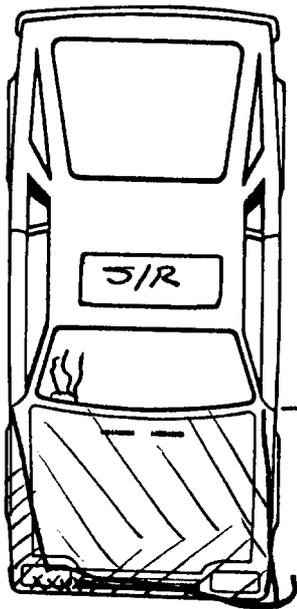
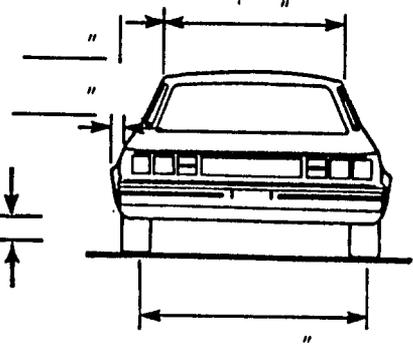
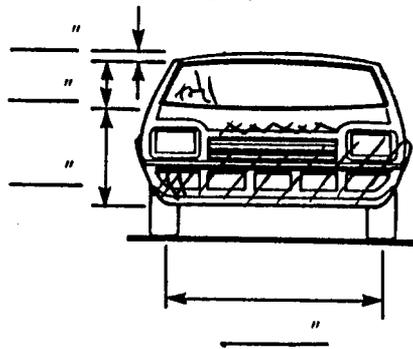
\*\*\* IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE \*\*\*  
THE EXTERIOR VEHICLE, INTERIOR VEHICLE,  
OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.



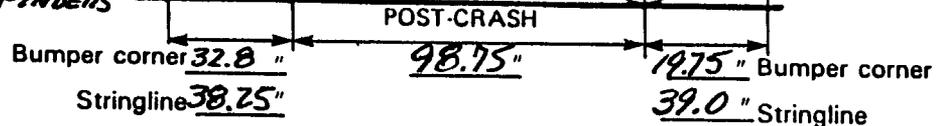
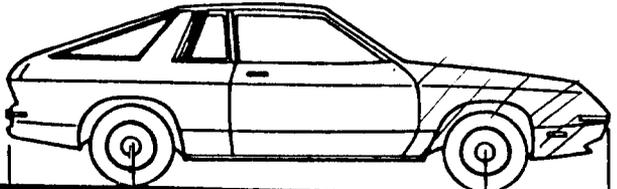
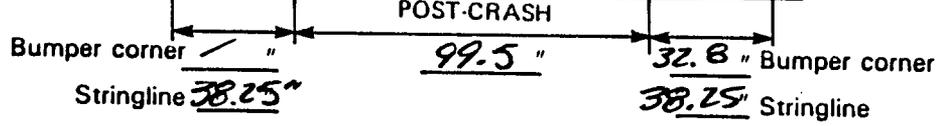
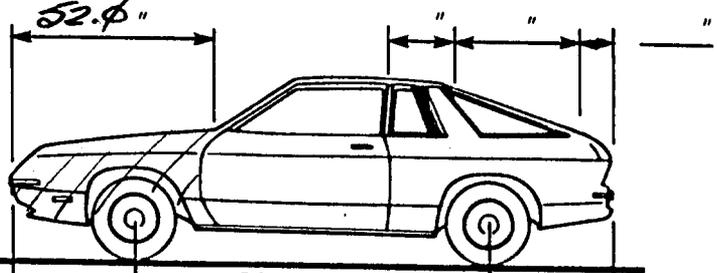
**VEHICLE DAMAGE SKETCH**

|   |  |  |  |   |  |
|---|--|--|--|---|--|
| <b>TIRE - WHEEL DAMAGE</b><br>a. Rotation physically restricted<br>RF <u>2</u><br>LF <u>2</u><br>RR <u>2</u><br>LR <u>2</u><br>(1) Yes (2) No (8) NA (9) Unk. |  | <b>ORIGINAL SPECIFICATIONS</b><br>Wheelbase <u>99.4</u><br>Overall Length <u>176.0</u><br>Maximum Width <u>67.1</u><br>Curb Weight <u>2500</u><br>Average Track <u>57.2</u><br>Front Overhang <u>38.25</u><br>Rear Overhang <u>38.25</u><br>Engine Size: cyl./ displ. <u>FI: 14/1.6L</u><br>Undeformed End Width <u>54.0</u> |  | <b>WHEEL STEER ANGLES</b><br>(For locked front wheels or displaced rear axles only)<br>RF ± <u>0</u> °<br>LF ± <u>0</u> °<br>RR ± <u>0</u> °<br>LR ± <u>0</u> °<br>Within ± 5 degrees |  |
| <b>TYPE OF TRANSMISSION</b><br><input checked="" type="checkbox"/> Manual <input type="checkbox"/> Automatic  |  | <b>DRIVE WHEELS</b><br><input checked="" type="checkbox"/> FWD <input type="checkbox"/> RWD <input type="checkbox"/> 4WD   |  | Approximate Cargo Weight <u>UNK</u>   |  |

SHIFT LEFT 7 4.0"



PARTS REMOVED  
Bumper,  
L/R FENDERS  
HOOD



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

**CDC WORKSHEET**

**CODES FOR OBJECT CONTACTED**

01-30 - Vehicle Number

Noncollision

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

- (35) Noncollision injury
- (38) Other noncollision (specify):

(39) Noncollision - details unknown

Collision with Fixed Object

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

(45) Breakaway pole or post (any diameter)

Nonbreakaway Pole or Post

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

- (54) Concrete traffic barrier
- (55) Impact attenuator
- (56) Other traffic barrier (specify):

"W" BEAM GUARD RAIL

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

(69) Unknown fixed object

Collision With Nonfixed Object

- (71) Motor vehicle not in transport
- (72) Pedestrian
- (73) Cyclist or cycle
- (74) Other nonmotorist or conveyance (specify):

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

(89) Unknown nonfixed object

(98) Other event (specify):

(99) Unknown event or object

**DEFORMATION CLASSIFICATION BY EVENT NUMBER**

| Accident Event Sequence Number | Object Contacted | (1) (2) Direction of Force (degrees) | (3) 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 |
|--------------------------------|------------------|--------------------------------------|--------------------------------|--------------------------|---|---|---------------------------------|------------------------|
| <u>01</u>                      | <u>56</u>        | <u>075</u>                           | <u>80</u>                      | <u>F</u>                 | <u>R</u>                                      | <u>F</u>                                  | <u>N</u>                        | <u>01</u>              |
| ---                            | ---              | ---                                  | ---                            | ---                      | ---   | ---                                       | ---                             | ---                    |
| ---                            | ---              | ---                                  | ---                            | ---                      | ---   | ---                                       | ---                             | ---                    |
| ---                            | ---              | ---                                  | ---                            | ---                      | ---   | ---                                       | ---                             | ---                    |
| ---                            | ---              | ---                                  | ---                            | ---                      | ---   | ---                                       | ---                             | ---                    |
| ---                            | ---              | ---                                  | ---                            | ---                      | ---   | ---                                       | ---                             | ---                    |
| ---                            | ---              | ---                                  | ---                            | ---                      | ---   | ---                                       | ---                             | ---                    |
| ---                            | ---              | ---                                  | ---                            | ---                      | ---   | ---                                       | ---                             | ---                    |
| ---                            | ---              | ---                                  | ---                            | ---                      | ---   | ---                                       | ---                             | ---                    |
| ---                            | ---              | ---                                  | ---                            | ---                      | ---   | ---                                       | ---                             | ---                    |

(Shift Left > 4")

**COLLISION DEFORMATION CLASSIFICATION**

HIGHEST DELTA "V"

| Accident Event Sequence Number | Object Contacted | (1) (2) Direction of Force | (3) Deformation Location | (4) Specific Longitudinal or Lateral Location | (5) Specific Vertical or Lateral Location | (6) Type of Damage Distribution | (7) Deformation Extent |
|--------------------------------|------------------|----------------------------|--------------------------|---|---|---------------------------------|------------------------|
| 4. <u>01</u>                   | 5. <u>56</u>     | 6. <u>02</u>               | 7. <u>F</u>              | 8. <u>R</u>                                   | 9. <u>F</u>                               | 10. <u>N</u>                    | 11. <u>01</u>          |

Second Highest Delta "V"

|           |           |           |           |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 12. _____ | 13. _____ | 14. _____ | 15. _____ | 16. _____ | 17. _____ | 18. _____ | 19. _____ |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|

**CRUSH PROFILE**

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

HIGHEST DELTA "V"

| 20. _____ | 21. _____ | _____ | _____ | _____ | _____ | _____ | 22. +<br>- D    |
|-----------|-----------|-------|-------|-------|-------|-------|-----------------|
| L         | C1        | C2    | C3    | C4    | C5    | C6    |                 |
| _____     | _____     | _____ | _____ | _____ | _____ | _____ | +<br>-<br>_____ |

Second Highest Delta "V"

| 23. _____ | 24. _____ | _____ | _____ | _____ | _____ | _____ | 25. +<br>- D    |
|-----------|-----------|-------|-------|-------|-------|-------|-----------------|
| L         | C1        | C2    | C3    | C4    | C5    | C6    |                 |
| _____     | _____     | _____ | _____ | _____ | _____ | _____ | +<br>-<br>_____ |

26. Are CDCs Documented but Not Coded on The Automated File?

- (0) No
- (1) Yes

27. Researcher's Assessment of Vehicle Disposition

- (0) Not towed due to vehicle damage
- (1) Towed due to vehicle damage
- (9) Unknown

28. Original Wheelbase

99.4  
Code to the nearest tenth of an inch  
(9999) Unknown

0994

29. Is This A Multi-Stage Manufactured Vehicle And/Or A Certified Altered Vehicle?  $\emptyset$

(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

30. Fire Occurrence  $\emptyset$

(0) No fire

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

31. Origin of Fire  $\emptyset$

(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

32. Type of Fuel Tank  $L$

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

\*\*\* STOP: IF THE CDS APPLICABLE VEHICLE WAS NOT TOWED \*\*\*  
(I.E., GV09=0 OR 9), DO NOT COMPLETE THE INTERIOR VEHICLE FORM.





**OCCUPANT AREA INTRUSION**

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

|      | Location of Intrusion | Intruding Component | Magnitude of Intrusion | Dominant Crush Direction |
|------|-----------------------|---------------------|------------------------|--------------------------|
| 1st  | 47. _____             | 48. _____           | 49. _____              | 50. _____                |
| 2nd  | 51. _____             | 52. _____           | 53. _____              | 54. _____                |
| 3rd  | 55. _____             | 56. _____           | 57. _____              | 58. _____                |
| 4th  | 59. _____             | 60. _____           | 61. _____              | 62. _____                |
| 5th  | 63. _____             | 64. _____           | 65. _____              | 66. _____                |
| 6th  | 67. _____             | 68. <i>NONE</i>     | 69. _____              | 70. _____                |
| 7th  | 71. _____             | 72. _____           | 73. _____              | 74. _____                |
| 8th  | 75. _____             | 76. _____           | 77. _____              | 78. _____                |
| 9th  | 79. _____             | 80. _____           | 81. _____              | 82. _____                |
| 10th | 83. _____             | 84. _____           | 85. _____              | 86. _____                |

**LOCATION OF INTRUSION**

- |   |   |
|---|---|
| <p><b>Front Seat</b><br/>                 (11) Left<br/>                 (12) Middle<br/>                 (13) Right</p>  | <p><b>Fourth Seat</b><br/>                 (41) Left<br/>                 (42) Middle<br/>                 (43) Right</p> |
| <p><b>Second Seat</b><br/>                 (21) Left<br/>                 (22) Middle<br/>                 (23) Right</p> | <p>(97) Catastrophic<br/>                 (98) Other enclosed area (specify): _____</p>                                   |
| <p><b>Third Seat</b><br/>                 (31) Left<br/>                 (32) Middle<br/>                 (33) Right</p>  | <p>(99) Unknown</p>   |

**INTRUDING COMPONENT**

**Interior Components**

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

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

**Exterior Components**

- (30) Hood
- (31) Outside surface of 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**

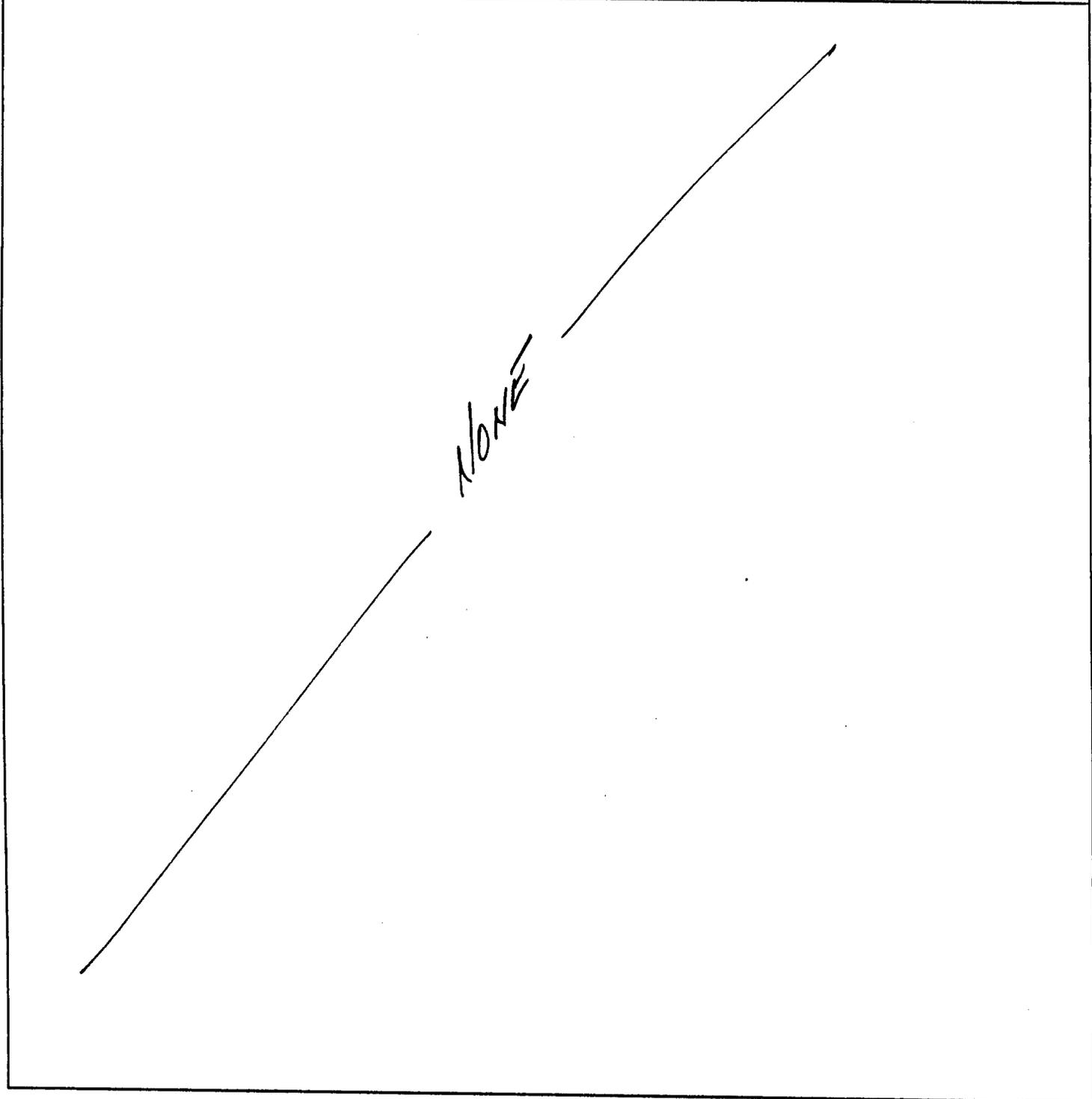
- (1) ≥ 1 inch but < 3 inches
- (2) ≥ 3 inches but < 6 inches
- (3) ≥ 6 inches but < 12 inches
- (4) ≥ 12 inches but < 18 inches
- (5) ≥ 18 inches but < 24 inches
- (6) ≥ 24 inches
- (7) Catastrophic
- (9) Unknown

**DOMINANT CRUSH DIRECTION**

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

### STEERING RIM/SPOKE DEFORMATION

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



**STEERING COLUMN**

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

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

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

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

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

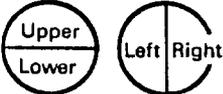
92. Steering Rim/Spoke Deformation Ø  
 \_\_\_\_\_ Code actual measured deformation to the nearest inch.  
 (0) No steering rim deformation  
 (1-5) Actual measured value  
 (6) 6 inches or more  
 (8) Observed deformation cannot be measured  
 (9) Unknown

93. Location of Steering Rim/Spoke Deformation Ø Ø  
 (00) No steering rim deformation

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



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



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

**INSTRUMENT PANEL**

94. Odometer Reading Ø 17,000  
16,966 miles – Code mileage to the nearest 1,000 miles  
 (000) No odometer  
 (001) Less than 1,500 miles  
 (300) 299,500 miles or more  
 (999) Unknown  
 Source: \_\_\_\_\_

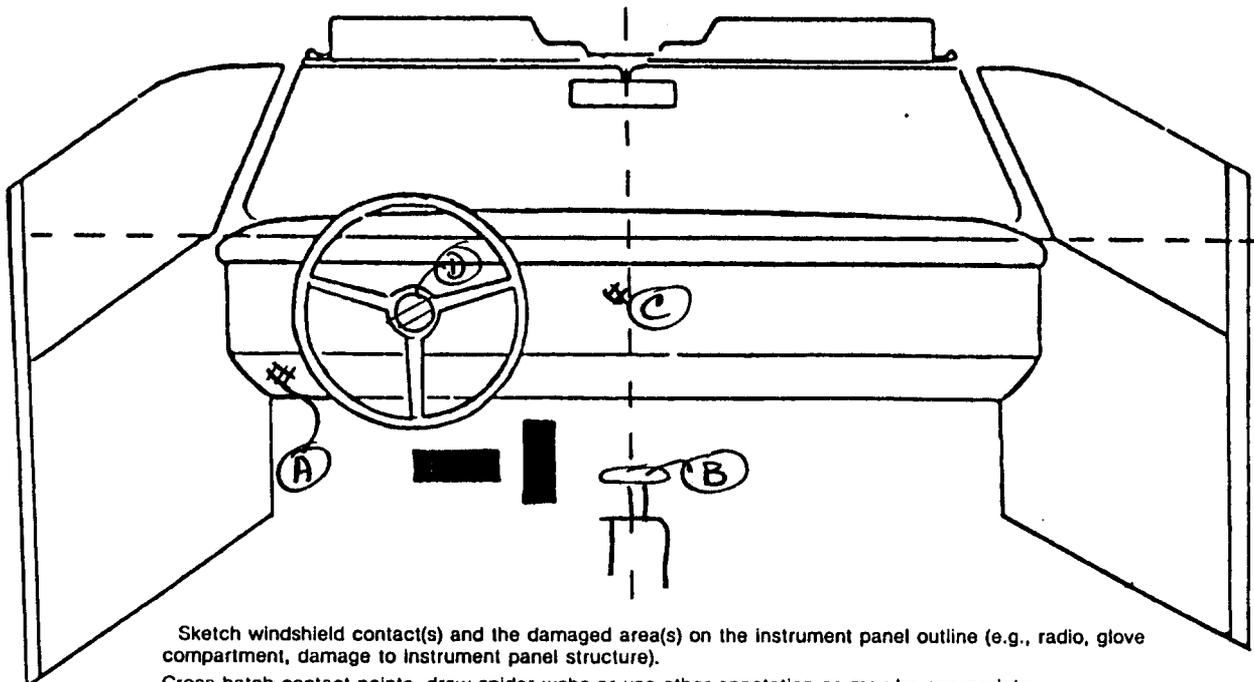
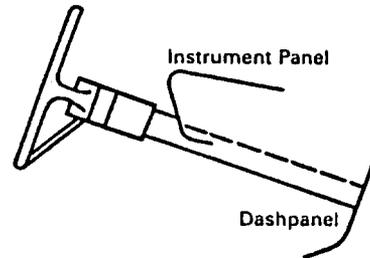
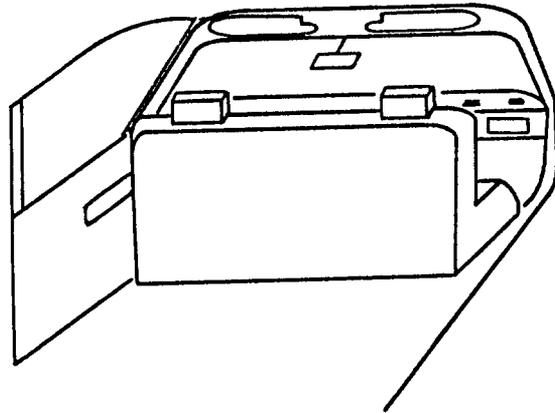
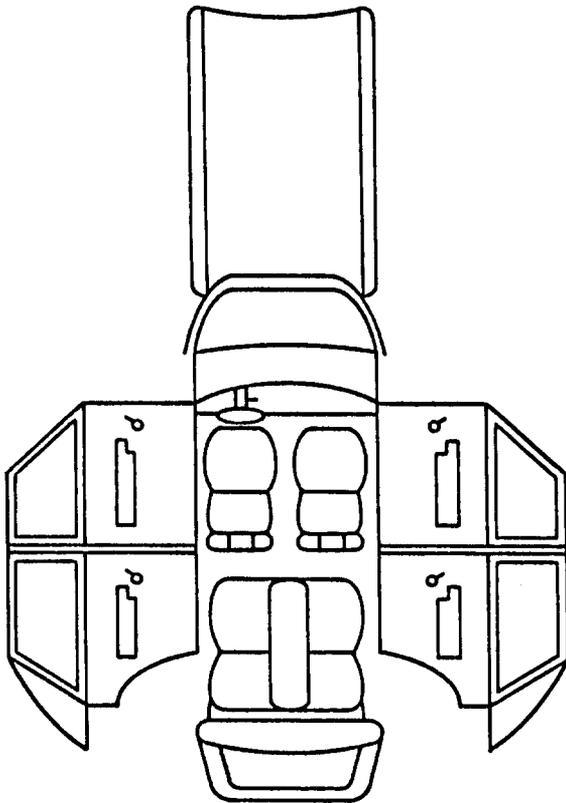
95. Instrument Panel Damage from Occupant Contact? Ø  
 (0) No  
 (1) Yes  
 (9) Unknown

96. Knee Bolsters Deformed from Occupant Contact? Ø  
 (0) No  
 (1) Yes  
 (8) Not present  
 (9) Unknown

97. Did Glove Compartment Door Open During Collision(s)? Ø  
 (0) No  
 (1) Yes  
 (8) Not present  
 (9) Unknown

## VEHICLE INTERIOR SKETCHES

Note area of ejection/entrapment



Sketch windshield contact(s) and the damaged area(s) on the instrument panel outline (e.g., radio, glove compartment, damage to instrument panel structure).

Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.

Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

**POINTS OF OCCUPANT CONTACT**

| Contact | Interior Component Contacted | Occupant No. If Known | Body Region If Known | Supporting Physical Evidence | Confidence Level of Contact Point |
|---------|------------------------------|-----------------------|----------------------|------------------------------|-----------------------------------|
| A       | 09                           | 01                    | L/KNEE               | OIL/SKIN TRANSFER            | 1                                 |
| B       | 57                           | 01                    | R/HAUD               | SKIN TRANSFER                | 1                                 |
| C       | 10                           | 01                    | R/HAUD               | SKIN TRANSFER                | 1                                 |
| D       | 05                           | 01                    | L/HAUD               | SKIN TRANSFER                | 2                                 |
| E       |                              |                       |                      |                              |                                   |
| F       |                              |                       |                      |                              |                                   |
| G       |                              |                       |                      |                              |                                   |
| H       |                              |                       |                      |                              |                                   |
| I       |                              |                       |                      |                              |                                   |
| J       |                              |                       |                      |                              |                                   |
| K       |                              |                       |                      |                              |                                   |
| L       |                              |                       |                      |                              |                                   |
| M       |                              |                       |                      |                              |                                   |
| N       |                              |                       |                      |                              |                                   |

**CODES FOR INTERIOR COMPONENTS**

**FRONT**

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

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

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

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

**RIGHT SIDE**

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

**ROOF**

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

**FLOOR**

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

**REAR**

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

**LEFT SIDE**

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

**INTERIOR**

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

**CONFIDENCE LEVEL OF CONTACT POINT**

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

## CHILD SAFETY SEAT FIELD ASSESSMENT

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

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

NONE

|  |  |
|--|--|
| <p><b>1. Type of Child Safety Seat</b></p> <p>(0) No child safety seat<br/>         (1) Infant seat<br/>         (2) Toddler seat<br/>         (3) Convertible seat<br/>         (4) Booster seat<br/>         (7) Other type child safety seat (specify):<br/>         _____</p> <p>(8) Unknown child safety seat type<br/>         (9) Unknown if child safety seat used</p> <p><b>2. Child Safety Seat Orientation</b></p> <p>(00) No child safety seat<br/>         Designed for Rear Facing for This Age/Weight<br/>         (01) Rear facing<br/>         (02) Forward facing<br/>         (03) Other orientation (specify):<br/>         _____</p> <p>(04) Unknown orientation<br/>         Designed for Forward Facing for This Age/Weight<br/>         (11) Rear facing<br/>         (12) Forward facing<br/>         (18) Other orientation (specify):<br/>         _____</p> <p>(19) Unknown orientation<br/>         Unknown Design or Orientation for This Age/Weight, or Unknown Age/Weight<br/>         (21) Rear facing<br/>         (22) Forward facing<br/>         (28) Other orientation (specify):<br/>         _____</p> <p>(29) Unknown orientation<br/>         (99) Unknown if child safety seat used</p> | <p><b>3. Child Safety Seat Harness Usage</b></p> <p><b>4. Child Safety Seat Shield Usage</b></p> <p><b>5. Child Safety Seat Tether Usage</b><br/>         Note: Options Below Are Used for Variables 3-5.<br/>         (00) No child safety seat<br/>         Not Designed with Harness/Shield/Tether<br/>         (01) After market harness/shield/tether added, not used<br/>         (02) After market harness/shield/tether used<br/>         (03) Child safety seat used, but no after market harness/shield/tether added<br/>         (09) Unknown if harness/shield/tether added or used<br/>         Designed with Harness/Shield/Tether<br/>         (11) Harness/shield/tether not used<br/>         (12) Harness/shield/tether used<br/>         (19) Unknown if harness/shield/tether used<br/>         Unknown if Designed with Harness/Shield/Tether<br/>         (21) Harness/shield/tether not used<br/>         (22) Harness/shield/tether used<br/>         (29) Unknown if harness/shield/tether used<br/>         (99) Unknown if child safety seat used</p> <p><b>6. Child Safety Seat Make/Model</b><br/>         (Specify make/model and occupant number)<br/>         _____<br/>         _____<br/>         _____<br/>         _____</p> |
|--|--|

## AUTOMATIC RESTRAINTS

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

|                       |              | Left | Center | Right |
|-----------------------|--------------|------|--------|-------|
| F<br>I<br>R<br>S<br>T | Availability | 1    | Ø      | Ø     |
|                       | Function     | 4    | Ø      | Ø     |
|                       | Failure      | 1    | Ø      | Ø     |

### AIR BAGS

**Air Bag System Availability/Function**

- (0) Not equipped/not available
- (1) Air bag

Non-functional

- (2) Air bag disconnected (specify): \_\_\_\_\_

- (3) Air bag not reinstalled
- (9) Unknown

**Air Bag System Deployment**

- (0) Not equipped/not available
- (1) Air bag deployed during accident
- (2) Air bag deployed inadvertently just prior to accident
- (3) Air bag deployed, accident sequence undetermined
- (4) Nondeployed
- (5) Unknown if deployed
- (9) Unknown

**Did Air Bag System Fail?**

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

- (9) Unknown

### AUTOMATIC BELTS

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

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

Non-functional

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

**Automatic (Passive) Belt System Use**

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

**Automatic (Passive) Belt System Type**

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

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

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

**Automatic Belt Used Improperly**

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

- (8) Other improper use of automatic belt system

(specify): \_\_\_\_\_

- (9) Unknown

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

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

- (6) Broken retractor

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

- (8) Other automatic belt failure (specify): \_\_\_\_\_

- (9) Unknown

**MANUAL RESTRAINTS**

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

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

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

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

**Manual (Active) Belt System Availability**

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

(9) Unknown

**Manual (Active) Belt System Use**

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

(08) Other belt used (specify):

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

(99) Unknown if belt used

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

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) 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

**HEAD RESTRAINTS/SEAT EVALUATION**

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

|        |                            | Left | Center | Right |
|--------|----------------------------|------|--------|-------|
| FIRST  | Head Restraint Type/Damage | 3    | 0      | 3     |
|        | Seat Type                  | 02   | 00     | 02    |
|        | Seat Performance           | 1    | 0      | 1     |
| SECOND | Head Restraint Type/Damage | 0    | 0      | 0     |
|        | Seat Type                  | 03   | 03     | 03    |
|        | Seat Performance           | 1    | 1      | 1     |
| THIRD  | Head Restraint Type/Damage |      |        |       |
|        | Seat Type                  |      |        |       |
|        | Seat Performance           |      |        |       |
| OTHER  | Head Restraint Type/Damage |      |        |       |
|        | Seat Type                  |      |        |       |
|        | Seat Performance           |      |        |       |

**Head Restraint Type/Damage by Occupant at This Occupant Position**

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

**Seat Performance (This Occupant Position)**

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

**Seat Type (This Occupant Position)**

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

- (7) Combination of above (specify): \_\_\_\_\_
- (8) Other (specify): \_\_\_\_\_
- (9) Unknown

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

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

### EJECTION/ENTRAPMENT DATA

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

**EJECTION**      No []      Yes [  ]

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

---



---



---

|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| Occupant Number                                    |  |  |  |  |  |  |
| Ejection   |  |  |  |  |  |  |
| (Note on Vehicle Interior Sketch)<br>Ejection Area |  |  |  |  |  |  |
| Ejection Medium                                    |  |  |  |  |  |  |
| Medium Status                                      |  |  |  |  |  |  |

**Ejection**

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

**Ejection Area**

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

(7) Roof

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

\_\_\_\_\_

(9) Unknown

**Ejection Medium**

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

(5) Integral structure

(8) Other medium (specify):

\_\_\_\_\_

(9) Unknown

**Medium Status (Immediately Prior to Impact)**

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

**ENTRAPMENT**      No []      Yes [  ]

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

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

(Note in vehicle interior diagram)



# OCCUPANT ASSESSMENT FORM

Case Number DSI-91-AB-07  
 Vehicle Number 01  
 Occupant Number 01

## OCCUPANT'S CHARACTERISTICS

5. Occupant's Age 28  
 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 2  
 (1) Male  
 (2) Female  
 (9) Unknown

7. Occupant's Height 99  
 Code actual height to the nearest inch.  
 (99) Unknown

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

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

10. Occupant's Seat Position 11

Front Seat  
 (11) Left side  
 (12) Middle  
 (13) Right side  
 (14) Other (specify):  
 (15) On or in the lap of another occupant

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

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

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

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

11. Occupant's Posture 9  
 (0) Normal posture  
 (1) Abnormal posture (specify):  
 (9) Unknown

## EJECTION/ENTRAPMENT

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

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

14. Ejection Medium 0  
 (0) No ejection  
 (1) Door/hatch/tailgate  
 (2) Nonfixed roof structure  
 (3) Fixed glazing  
 (4) Nonfixed glazing (specify):  
 (5) Integral structure  
 (8) Other medium (specify):  
 (9) Unknown

15. Medium Status (Immediately Prior to Impact) 0  
 (0) No ejection  
 (1) Open  
 (2) Closed  
 (3) Integral structure  
 (9) Unknown

16. Entrapment 0  
 (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.)  
 (0) Not entrapped  
 (1) Entrapped  
 (9) Unknown

**RESTRAINT SYSTEM AND SEAT EVALUATION****17. Manual (Active) Belt System Availability** 4

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

(9) Unknown

**18. Manual (Active) Belt System Use** 04

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

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

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

**19. Proper Use of Manual (Active) Belts** 1

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

**Belt Used Improperly**

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

(8) Other improper use of manual belt system (specify): \_\_\_\_\_

(9) Unknown

**20. Manual (Active) Belt Failure Modes During Accident** 1

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

(6) Broken retractor  
(7) Combination of above (specify): \_\_\_\_\_

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

(9) Unknown

**21. Air Bag System Availability/Function** 1

- (0) Not equipped/not available
- (1) Air bag

**Non-functional**

(2) Air bag disconnected (specify): \_\_\_\_\_

(3) Air bag not reinstalled

(9) Unknown

**22. Air Bag System Deployment** 4

- (0) Not equipped/not available
- (1) Air bag deployed during accident
- (2) Air bag deployed inadvertently just prior to accident
- (3) Air bag deployed, accident sequence undetermined
- (4) Nondeployed
- (5) Unknown if deployed
- (9) Unknown

**23. Did Air Bag System Fail?** 1

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

(9) Unknown

Note: See Variables 44 through 48 (Page 5) for Information on Automatic Belts

**24. Police Reported Restraint Use** 4

- (0) None used
- (1) Police did not indicate restraint use
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt used, type not specified
- (6) Child safety seat
- (7) Other or automatic restraint (specify): \_\_\_\_\_

(8) Restrained, type unknown

(9) Police indicated "unknown"

**25. Head Restraint Type/Damage by Occupant at This Occupant Position** 3

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

(9) Unknown

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

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

**CHILD SAFETY SEAT**

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

29. Type of Child Safety Seat *0*
- (0) No child safety seat
  - (1) Infant seat
  - (2) Toddler seat
  - (3) Convertible seat
  - (4) Booster seat
  - (7) Other type child safety seat (specify):  
\_\_\_\_\_
  - (8) Unknown child safety seat type
  - (9) Unknown if child safety seat used

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

- Designed for Forward Facing for This Age/Weight
- (11) Rear facing
- (12) Forward facing
- (18) Other orientation (specify):  
\_\_\_\_\_
- (19) Unknown orientation

- Unknown Design or Orientation for This Age/Weight, or Unknown Age/Weight
- (21) Rear facing
- (22) Forward facing
- (28) Other orientation (specify):  
\_\_\_\_\_
- (29) Unknown orientation

- (99) Unknown if child safety seat used

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

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

- Designed with Harness/Shield/Tether
- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

- Unknown If Designed with Harness/Shield/Tether
- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used

- (99) Unknown if child safety seat used

**INJURY CONSEQUENCES**

34. Injury Severity (Police Rating) L  
 (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

35. Treatment - Mortality Ø  
 (0) No treatment  
 (1) Fatal  
 (2) Fatal - ruled disease  
  
 Nonfatal  
 (3) Hospitalized  
 (4) Transported and released  
 (5) Treatment at scene - nontransported  
 (6) Treatment later  
 (8) Treatment - other (specify):  
 \_\_\_\_\_  
 (9) Unknown

36. Type of Medical Facility (for Initial Treatment) Ø  
 (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

37. Hospital stay ØØ  
 \_\_\_\_\_ Code number of days (up through 60) that the occupant stayed in the hospital  
 (00) Not hospitalized  
 (61) 61 days or more  
 (99) Unknown

98. Glasgow Coma Score (upon admission) ØØ  
  
 (99) Unknown

38. Working Days Lost ØØ  
 \_\_\_\_\_ 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

39. Time to Death ØØ  
 \_\_\_\_\_ 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

40. 1st Medically Reported Cause of Death ØØ

41. 2nd Medically Reported Cause of Death ØØ

42. 3rd Medically Reported Cause of Death ØØ  
 \_\_\_\_\_ 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  
 (97) Other result (specify):  
 \_\_\_\_\_  
 (99) Unknown

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

99. Case Occupant L  
 (0) Not the Case occupant  
 (1) This is the Case occupant  
 (2) This is the Case occupant in another case

UPDATE CANDIDATE NO [L] YES [ ]

\*\*\* STOP HERE \*\*\*  
 IF THERE ARE NO RECORDED INJURIES  
 (I.E., OA43=00, 97, 99)

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

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

**Non-functional**

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

**45. Automatic (Passive) Belt System Use**

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

**46. Automatic (Passive) Belt System Type**

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

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

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

**Automatic Belt Used Improperly**

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

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

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

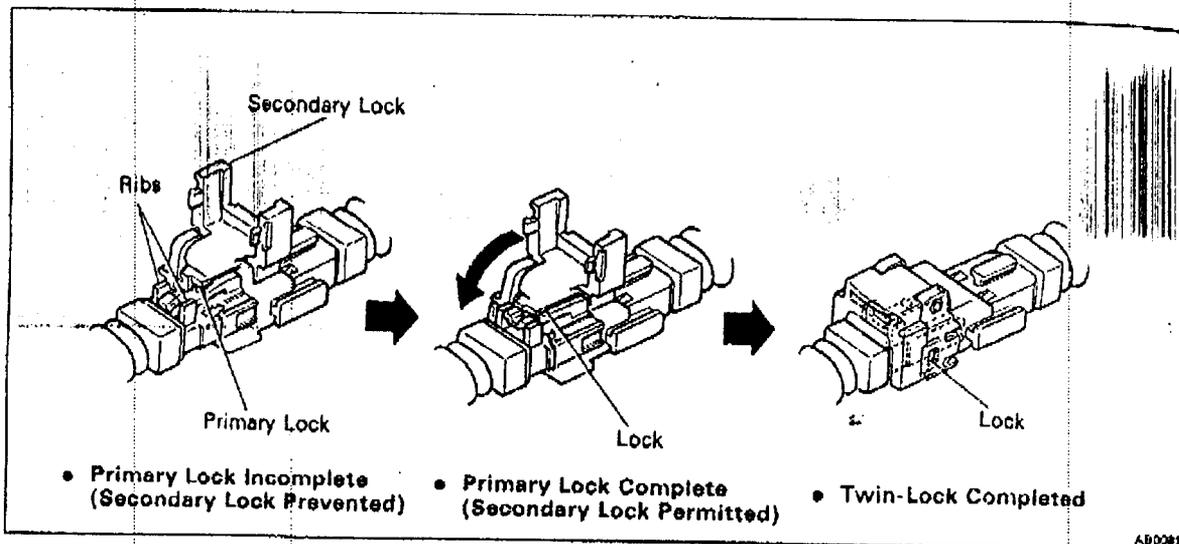
UPDATE CANDIDATE? NO  YES [ ]

OCCUPANT INJURY FORM INCLUDED WITH INITIAL SUBMISSION? NO [ ] YES [ ]

\*\*\* STOP HERE \*\*\*  
IF THERE ARE NO RECORDED INJURIES  
(I.E., OA43 = 00,97,99)

(4) Connector Twin-Lock Mechanism

With this mechanism connectors (male and female connectors) are locked by two locking devices to increase connection reliability. If the primary lock is incomplete, ribs interfere and prevent the secondary lock.



When the vehicle is involved in a frontal collision in the hatched area (Fig. 1) and the shock is larger than a predetermined level, the airbag is activated automatically. Safing sensors are designed to go on at a smaller deceleration rate than the front and center airbag sensors. As illustrated in Fig. 2 below, ignition is caused when current flows to the squib, which happens when a safing sensor and a front airbag sensor and/or the center airbag sensor go on simultaneously.

When a deceleration force acts on the sensors, it causes the squib to ignite. Gas is then generated, increasing the pressure inside the bag rapidly. The inflated bag breaks open the steering wheel pad. Bag inflation then ends, and the gas is discharged through discharge holes provided behind the bag. The bag becomes deflated as a result.

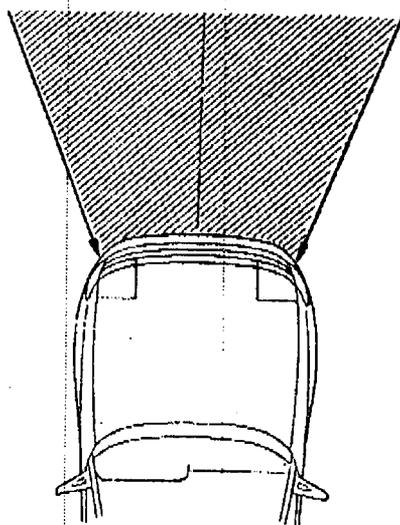


Fig. 1

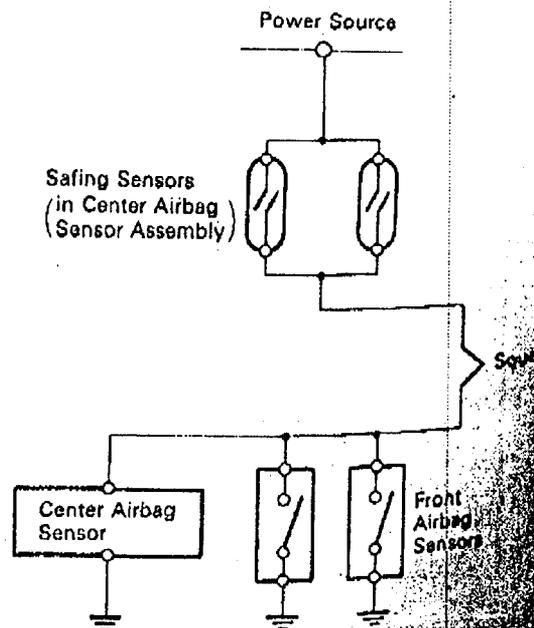


Fig. 2

**AIRBAG SUPPLEMENT**

**ACCIDENT SUMMARY**

- 1. Accident Date: [REDACTED] /91
- 2. Police Investigated 
  - (1) Yes
  - (2) No
  - (3) UnknownAgency:  
City:  
County:
- 3. General Locality 
  - (1) Freeway, Limited Access
  - (2) Urban (City)
  - (3) Urban-Rural (mixed)
  - (4) Rural, Fields
- 4. Configuration (First Harm) 
  - (0) Struck Object or Ped
  - (1) Rear-End
  - (2) Head-On
  - (3) Rear-to-Rear
  - (4) Angle
  - (5) Sideswipe-Same Direction
  - (6) Sideswipe-Opposite Dir.
  - (7) Noncollision
  - (8) Nonimpact Deployment
  - (9) Unknown
- 5. Fire Involved 
  - (0) None
  - (1) Airbag Vehicle
  - (2) Other Vehicle
  - (3) Both Vehicles
  - (9) Unknown
- 6. Vehicles Involved
- 7. Persons Involved
- 8. Injured Persons

- 9. Maximum AIS in Accident

**AIRBAG VEHICLE INSPECTION**

- 10. Date Vehicle Inspected:
- 11. Reason Vehicle Note Inspected 
  - (0) Not Required
  - (1) Inspection Completed
  - (2) Cannot be Located
  - (3) Repaired or Destroyed
  - (5) Refusal or Impounded
  - (7) Other:
- 12. Impact Data Obtained 
  - (0) No Data Obtained
  - (1) CDC Only
  - (2) Crush Profile Only
  - (3) Trajectory Data Only
  - (4) CDC and Crush Profile
  - (5) CDC and Trajectory
  - (6) Crush and Trajectory
  - (7) CDC, Crush, and Trajectory
- 13. Basis of Delta-V 
  - (0) Not Computed (Unknown why)
  - (1) CRASH - Damage Only
  - (2) CRASH - Damage + Traj
  - (3) OLDMISS
  - (4) POLES *ENDSWIPE*
  - (5) Unknown Basis
  - (6) One Vehicle Beyond Scope
  - (7) Collision Beyond Scope
  - (8) Insufficient Data

**VEHICLE HISTORY**

- 14. Prior Impacts for AB Vehicle? 
  - (1) Yes
  - (2) No
  - (9) Unknown
- 15. Prior AB Maintenance or Service 
  - (1) Yes, (2) No, (9) Unknown

Describe:

**AIRBAG SUPPLEMENT**

**AIRBAG VEHICLE**

Fleet:  
VIN:  
Mileage:

*No*

**SYSTEM READINESS LAMP**

- 16. Pre-Impact Lamp Condition 
  - (1) Functioning/Proved Out
  - (2) Inoperative
  - (9) Unknown
  
- 17. Driver's Report of Pre-Impact Flashing 
  - (00) No Flashing Reported
  - (01) Continuous Flashing
  - (02) \_\_\_\_\_
  - Number of Flashes: \_\_\_\_\_
  - (11)
  - (12) Constant Light
  - (19) Flashing, Unknown Number
  - (88) Not Applicable, System Removed
  - (99) Unknown
  
- 18. Period of Pre-Impact Flashing 
  - (0) No Flashing
  - (1) Same Day as Impact
  - (2) Prior Day
  - (3) Prior Two Days
  - (4) Prior Week
  - (5) Prior Month
  - (6) Over One Month
  - (9) Unknown
  
- 19. Post-Impact Lamp Condition 
  - (1) Functioning/Proved Out
  - (2) Inoperative
  - (9) Unknown
  
- 20. Post-Impact Flashing 
  - (00) No Flashing Reported
  - (01) Continuous Flashing
  - (02) \_\_\_\_\_
  - Number of Flashes: \_\_\_\_\_
  - (11)
  - (12) Constant Light
  - (19) Flashing, Unknown Number
  - (88) Not Applicable, System Removed
  - (99) Unknown

- 21. Airbag Vehicle First Harmful Event 
  - (01) Fire or explosion
  - (02) Immersion
  - (03) Gas Inhalation
  - (04) Fell from vehicle
  - (05) Injured in vehicle
  - (06) Other noncollision (specify):
  - (07) Overturn
  - (08) Jackknife
  - COLLISION WITH:
  - (09) Pedestrian
  - (10) Pedalcyclist
  - (11) Railway train
  - (12) Animal
  - (13) Motor vehicle in transport (same roadway)
  - (14) Motor vehicle in transport (other roadway)
  - (15) Parked motor vehicle
  - (16) Other type nonmotorist (specify):
  - (17) Thrown or falling object
  - (18) Boulder
  - COLLISION WITH FIXED OBJECT
  - (20) Building
  - (21) Impact attenuator/crash cushion
  - (22) Bridge pier or abutment
  - (23) Bridge parapet end
  - (24) Bridge rail
  - (25) Guardrail
  - (26) Concrete traffic barrier
  - (27) Median barrier
  - (28) Other longitudinal barrier (specify):
  - (29) Highway/traffic sign post
  - (30) Overhead sign support
  - (31) Luminaire/light support
  - (32) Utility pole
  - (33) Other post, pole, or support
  - (34) Culvert
  - (35) Curb
  - (36) Ditch
  - (37) Embankment-earth
  - (38) Embankment-rock, stone, or concrete
  - (39) Fence
  - (40) Wall
  - (41) Fire hydrant
  - (42) Shrubbery
  - (43) Tree
  - (44) Other fixed object (specify):
  - (45) Pavement surface irregularity
  - (99) Unknown

**AIRBAG SUPPLEMENT**

**AIRBAG VEHICLE IMPACT SUMMARY**

- 22. Vehicle Role  1
  - (0) Noncollision
  - (1) Striking unit
  - (2) Struck unit
  - (3) Both striking and struck
  - (9) Unknown
- 23. Manner of Leaving Scene  2
  - (1) Driven
  - (2) Towed-due to damage
  - (3) Towed-not for damage
  - (4) Towed-details unknown
  - (5) Abandoned
  - (9) Unknown
- 24. Number of Impact Events  1
  - (8) 8 or more
  - (9) Unknown
- 25. Rollover  0
  - (0) No rollover
  - (1) First event
  - (2) Subsequent event
  - (3) Yes, Unknown event
  - (9) Unknown
- 26. Override/Underride  0
  - (0) No override/underride
  - (1) Override - 1st CDC
  - (2) Override - Other CDC
  - (3) Underride - 1st CDC
  - (4) Underride - Other CDC
  - (9) Unknown

**AIRBAG VEHICLE DAMAGE**

CODES: (1) Yes, (2) No, (9) Unknown

- 27. Left Front Fender Damage  1
- 28. Right Front Fender Damage  1
- 29. Center Top of Grille Damage  1

**FRONT BUMPER E.A. STATUS**

- 30. Left  5
- 31. Right  5
  - (1) Normal
  - (2) Extended
  - (3) Partial Compression
  - (4) Complete Compression
  - (5) Not Applicable
  - (9) Unknown

**FIRST AIRBAG VEHICLE IMPACT:**

- 32. Configuration  0
  - (0) Struck Object or Ped
  - (1) Rear-End
  - (2) Head-On
  - (3) Rear-to-Rear
  - (4) Angle
  - (5) Sideswipe-Same Direction
  - (6) Sideswipe-Opposite Dir.
  - (7) Noncollision
  - (8) Nonimpact Deployment
  - (9) Unknown

- 33. CDC:
- 34. Object Contacted:

**PRIMARY/DEPLOYMENT IMPACT:**

- 35. Event Number  1
- 36. Total Delta-V 

*CONDITIONS OUT OF SCOPE FOR CRASH III*
- 37. Longitudinal Delta-V
- 38. Configuration 

See 32 above for codes
- 39. CDC: *OZ FREW 1*
- 40. Object Contacted: *GUARD RAIL*

**AIRBAG SUPPLEMENT**

**AIRBAG SYSTEM DAMAGE**

- CODES: (1) Yes, Damaged  
(2) No, Intact  
(3) Not Applicable  
(9) Unknown

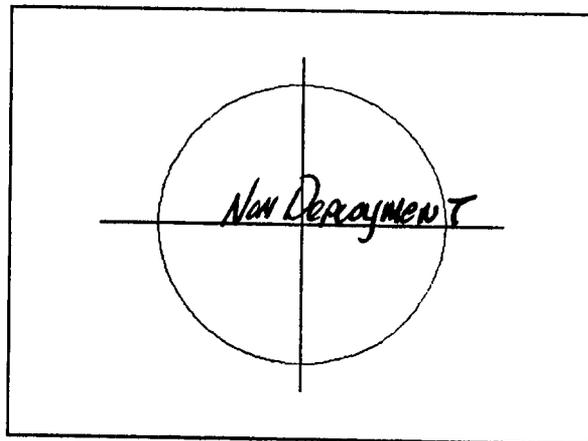
- 41. Airbag Module  2
- 42. Left Front Sensor  2
- 43. Center Front Sensor  3
- 44. Right Front Sensor  2
- 45. Rear Cowl Sensor  2
- 46. Diagnostic Module  2
- 47. Wiring  2
- 48. Knee Diverter  2
- 49. Indication of disconnected or loose electrical connectors  2
- 50. Condition of Deployed Bag  8
  - (1) Bag intact
  - (2) Split or torn
  - (3) Cut by object in impact
  - (4) Cut after accident
  - (5) Other
  - (8) NA (not deployed)
  - (9) Unknown

DESCRIBE SYSTEM AND BAG DAMAGE:

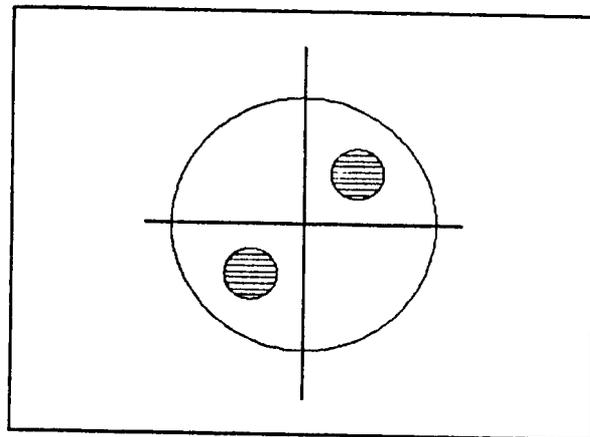
*NONE*

NOTE DAMAGE AND CONTACT MARKS ON AIRBAG DIAGRAMS BELOW:

FRONT



BACK



AIRBAG SUPPLEMENT

OCCUPANTS OF AIRBAG CAR

- 51. Number of Occupants in Vehicle
- 52. Number of Injured Persons
- 53. Maximum AIS in Airbag Vehicle 
  - (0) No Injury
  - (1-6) AIS Severity
  - (7) Injured, unknown severity
  - (9) Unknown

DRIVER

Age: 28 Y.O.  
 Sex: FEMALE

- 54. Number of Driver Injuries   
UNK
- 55. Source of Best Injury Data 
  - (0) Not injured
  - (1) Autopsy
  - (2) Hospital Medical Records
  - (3) Emergency Room only
  - (4) Private physician, clinic
  - (5) Lay Coroner Report
  - (6) EMS Personnel
  - (7) Interviewee
  - (8) Police
  - (9) Unknown

DATA FROM DEFECT OFFICE

MAXIMUM AIS BY BODY REGION

| REGION         | MAX AIS | CONTACT       |
|----------------|---------|---------------|
| Head/Neck/Face | 1       | IMPACT FORCES |
| Chest          | _____   | _____         |
| Abdomen        | _____   | _____         |
| Legs/Hips      | _____   | _____         |
| Other (Arms)   | _____   | _____         |
| Driver Maximum | _____   | _____         |

EJECTION

Extent: No  
 Portal: \_\_\_\_\_

OTHER VEHICLE:

Maximum AIS \_\_\_\_\_  
 Prime/Deploy Impact w AB Vehicle Event Number \_\_\_\_\_  
 CDC: \_\_\_\_\_  
 Total Delta V \_\_\_\_\_  
 Make: \_\_\_\_\_  
 Model Year: \_\_\_\_\_  
 Model: \_\_\_\_\_  
 Body Type: \_\_\_\_\_

NOTES:

AIRBAG SUPPLEMENT

*No Interview*

6

DRIVER BELT USAGE: (1) Used (2) Not Used (9) Unknown

Evidence:

DRIVER POSTURE: Any comments Recorded (1) Yes, (2) No

Describe driver's posture and position on seat including specific comments on head, torso, buttocks, legs, and feet. Also note hand and arm position. Did driver brace before crash? Describe:

DRIVER FOREIGN OBJECTS: Comments Recorded (1) Yes, (2) No

Was driver wearing contact lenses or eyeglasses? Or holding any foreign object at the time of the impact (packages on lap, pipe, food, bottle, cigarette, etc.)? Did any lenses, objects, or jewelery play any role?:

DRIVER COMMENTS: Comments Recorded (1) Yes, (2) No

Was the driver aware that the vehicle was equipped with a supplemental restraint system? Did driver offer any comments on smoke, noise, etc.? Did the driver comment on the airbag as a restraint system? Describe:

PASSENGER-AIRBAG CONTACT: (1) Yes, (2) No, (9) Unknown

Describe:

# MOTOR VEHICLE ACCIDENT REPORT

1. REPORT NO. \_\_\_\_\_ 2. FORM \_\_\_\_\_ of \_\_\_\_\_

3. LOCAL AREA CASE NO. \_\_\_\_\_ 4. ACCIDENT DATE MO. \_\_\_\_\_ YR. \_\_\_\_\_ 5. TIME (MILITARY) \_\_\_\_\_ 6. DAY OF WEEK \_\_\_\_\_ 7. REPORT TYPE  
 1 - TRAFFIC ACCIDENT  
 2 - NON TRAFFIC ACCIDENT

8. COUNTY \_\_\_\_\_ 9. TIME NOTIFIED (MILITARY) \_\_\_\_\_ 10. TIME ARRIVED (MILITARY) \_\_\_\_\_

11. ACCIDENT SEVERITY  
 1 - Damage only  
 2 - Possible Injury  
 3 - Non-Incapacitating  
 4 - Incapacitating  
 5 - Fatal

12. FIRST HARMFUL EVENT  
 01 - Other Motor Veh in transport  
 02 - Parked Motor Vehicle  
 03 - Motor Veh on other roadway  
 04 - Pedestrian  
 05 - Pedalcycle  
 06 - Other Convey  
 07 - Animal  
 08 - Heavy Train  
 09 - Fixed Object  
 10 - Other Object  
 11 - Overturned  
 12 - Other Non-Collision

13. SUBSEQUENT EVENTS

14. FIXED OBJECT STRUCK  
 01 - Bridge/Overpass  
 02 - Building  
 03 - Culvert, Ditch  
 04 - Curb, Wall  
 05 - Overdrain/Barrier  
 06 - Embankment  
 07 - Fence  
 08 - Light support pole  
 09 - Sign support pole  
 10 - Other pole  
 11 - Tree, Shrubbery  
 12 - Construction Barrier

15. COLLISION TYPE  
 01 - Front-End  
 02 - Rear-End  
 03 - Side-Swipe  
 04 - Angle  
 05 - Other

16. RELATIONSHIP TO INTERSECTION  
 1 - Non-Intersection  
 2 - Intersection  
 3 - Intersection Related  
 4 - Driveway-Access

17. KIND OF LOCALITY  
 1 - Manufacturing or Industrial  
 2 - Shopping or Business  
 3 - Residential  
 4 - School or Recreational  
 5 - Open Country

18. DAMAGE TO PROPERTY OTHER THAN VEHICLE OBJECT \_\_\_\_\_ 19. OWNER NAME \_\_\_\_\_

20. DAMAGE SEVERITY  
 1 - No Damage  
 2 - Superficial  
 3 - Moderate  
 4 - Destroyed

21. ACCIDENT OCCURRED ON ROAD NAME \_\_\_\_\_ 22. DISTANCE \_\_\_\_\_ 23. REFERENCED ROAD NAME \_\_\_\_\_ 24. CITY ACCIDENT OCCURRED IN \_\_\_\_\_ OR INDICATE RURAL \_\_\_\_\_ 25. MUNICIPAL CODE \_\_\_\_\_

26. TYPE \_\_\_\_\_ ROUTE NO. \_\_\_\_\_ SUFFIX \_\_\_\_\_ 27. GOING FROM ACCIDENT \_\_\_\_\_ 28. TYPE \_\_\_\_\_ ROUTE NO. \_\_\_\_\_ SUFFIX \_\_\_\_\_ 29. LOG MILE REFERENCE ON C-1, AT C-5 \_\_\_\_\_ 30. RAMP MOVEMENT \_\_\_\_\_

31. MOVEMENT OF VEHICLES  
 VEH 1:  01 - Moving Constant Speed  
 02 - Accelerating  
 03 - Slowing or Stopping  
 04 - Starting from Traffic Lane  
 05 - Starting from Parked Position  
 06 - Stopped in Traffic Lane  
 07 - Changing Lanes  
 08 - Passing  
 09 - Parking  
 10 - Parked  
 11 - Backing  
 12 - Making Left Turn  
 13 - Making Right Turn  
 14 - Making Right Turn on Red  
 15 - Making U Turn  
 16 - Backing  
 17 - Driverless Moving Vehicle  
 18 - Other/Unknown

32. DIRECTION PRIOR TO TURNING VEH 1:  1 - N  
 2 - E  
 3 - S  
 4 - W  
 5 - N/A

33. ACCIDENT OCCURRED IN  
 01 - Lane 1  
 02 - Lane 2  
 03 - Lane 3  
 04 - Lane 4  
 05 - Merge/Transition Lane  
 06 - Acceleration Lane  
 07 - Deceleration Lane  
 08 - Left Turn Lane  
 09 - Right Turn Lane  
 10 - Left Shoulder  
 11 - Right Shoulder  
 12 - Center Median  
 13 - Left Roadside  
 14 - Right Roadside  
 15 - Outside Trafficway  
 16 - Median Crossover  
 17 - Gate  
 18 - Parking Lot  
 19 - Other

34. TRAFFIC CONTROLS FUNCTIONING \_\_\_\_\_ NOT FUNCTIONING \_\_\_\_\_

35. POLICE OFFICER \_\_\_\_\_ 36. CHANNELIZATION PAINTED \_\_\_\_\_ 37. YIELD SIGN \_\_\_\_\_

38. MV UNIT NO. \_\_\_\_\_ 39. HIT & RUN \_\_\_\_\_ 40. DRIVER NAME - FIRST, MIDDLE & LAST \_\_\_\_\_ 41. ADDRESS - NO., STREET, CITY, STATE & ZIP \_\_\_\_\_ 42. PHONE NO. \_\_\_\_\_

43. DATE OF BIRTH MO. \_\_\_\_\_ DAY \_\_\_\_\_ YR. \_\_\_\_\_ 44. SEX \_\_\_\_\_ 45. DRIVER LICENSE NO. \_\_\_\_\_ 46. CLASS \_\_\_\_\_ 47. RESTRICTIONS \_\_\_\_\_ 48. STATE \_\_\_\_\_ 49. YEARS DRV EXP. \_\_\_\_\_ 50. DRIVER EDUCATION \_\_\_\_\_ 51. INJ SEV \_\_\_\_\_ 52. SAFETY EQPT. \_\_\_\_\_ 53. EJT \_\_\_\_\_

54. OCC NO. \_\_\_\_\_ 55. ST POS \_\_\_\_\_ 56. AGE \_\_\_\_\_ 57. SEX \_\_\_\_\_ 58. INJ SEVERITY \_\_\_\_\_ 59. BFTV EQPT. \_\_\_\_\_ 60. EJT \_\_\_\_\_ 61. OCCUPANT NAME & ADDRESS \_\_\_\_\_

62. OWNER - NAME & ADDRESS \_\_\_\_\_

63. MAKE \_\_\_\_\_ 64. MODEL \_\_\_\_\_ 65. YR \_\_\_\_\_ 66. VEHICLE ID NO. \_\_\_\_\_ 67. PLATE NO. \_\_\_\_\_ 68. STATE \_\_\_\_\_ 69. YR \_\_\_\_\_ 70. VEH TYPE \_\_\_\_\_ 71. DAMAGE SEVERITY \_\_\_\_\_

72. TOWED TYPE \_\_\_\_\_ 73. REMOVAL AUTHORITY \_\_\_\_\_

74. MV UNIT NO. \_\_\_\_\_ 75. HIT & RUN \_\_\_\_\_ 76. DRIVER NAME - FIRST, MIDDLE & LAST \_\_\_\_\_ 77. ADDRESS - NO., STREET, CITY, STATE & ZIP \_\_\_\_\_ 78. PHONE NO. \_\_\_\_\_

79. DATE OF BIRTH MO. \_\_\_\_\_ DAY \_\_\_\_\_ YR. \_\_\_\_\_ 80. SEX \_\_\_\_\_ 81. DRIVER LICENSE NO. \_\_\_\_\_ 82. CLASS \_\_\_\_\_ 83. RESTRICTIONS \_\_\_\_\_ 84. STATE \_\_\_\_\_ 85. YEARS DRV EXP. \_\_\_\_\_ 86. DRIVER EDUCATION \_\_\_\_\_ 87. INJ SEV \_\_\_\_\_ 88. SAFETY EQPT. \_\_\_\_\_ 89. EJT \_\_\_\_\_

90. OCC NO. \_\_\_\_\_ 91. ST POS \_\_\_\_\_ 92. AGE \_\_\_\_\_ 93. SEX \_\_\_\_\_ 94. INJ SEVERITY \_\_\_\_\_ 95. BFTV EQPT. \_\_\_\_\_ 96. EJT \_\_\_\_\_ 97. OCCUPANT NAME & ADDRESS \_\_\_\_\_

98. OWNER - NAME & ADDRESS \_\_\_\_\_

99. MAKE \_\_\_\_\_ 100. MODEL \_\_\_\_\_ 101. YR \_\_\_\_\_ 102. VEHICLE ID NO. \_\_\_\_\_ 103. PLATE NO. \_\_\_\_\_ 104. STATE \_\_\_\_\_ 105. YR \_\_\_\_\_ 106. VEH TYPE \_\_\_\_\_ 107. DAMAGE SEVERITY \_\_\_\_\_

108. TOWED TYPE \_\_\_\_\_ 109. REMOVAL AUTHORITY \_\_\_\_\_

