



U.S. Department  
of Transportation

**National Highway  
Traffic Safety  
Administration**

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

Dear Crash Data Researchers/Users:

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

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

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

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AUTO SAFETY HOTLINE  
(800) 424-9393  
Wash. D.C. Area 368-0123



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**PEDESTRIAN CASE SUMMARY** NATIONAL ACCIDENT SAMPLING SYSTEM  
PEDESTRIAN CRASH DATA STUDY

PSU 82 CASE NO. 623 P TYPE OF ACCIDENT CAR/PEDESTRIAN - RUNNING STRAIGHT

**A. DESCRIPTION OF THE ACCIDENT SEQUENCE AND ACCIDENT PECULIARITIES**

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

Vehicle #1 was northbound in lane 2 of a 4-lane, 2-way street.  
A bus was stopped in lane one when a pedestrian ran from the east side westbound across the street in front of the bus. The pedestrian impacted the right side of Vehicle #1 and slid to the windshield. Driver hit the brakes and swerved left. The pedestrian was carried by the vehicle and came to final rest on his back near the right corner of Vehicle #1 at final rest.

**B. PEDESTRIAN PROFILE**

Pedestrian No.	Age	Sex	Treatment/Mortality	Most Severe Injury (TO BE COMPLETED BY ZONE CENTER)			
				Body Region	Ana. Struc.	AIS	Injury Source
01	20	male	treated & released	Upper Ext	Skin-Other	1	Windshield Glaz

Body Region	Type of Anatomic Structure	Abbreviated Injury Scale
Head	Whole Area	(1) Minor injury
Face	Vessels	(2) Moderate injury
Throat	Nerves	(3) Serious injury
Chest	Organs	(4) Severe injury
Abdomen/Pelvis	Skeletal	(5) Critical injury
Spine	Head-LOC	(6) Maximum (untreatable)
Upper Extremity	Skin-Burn	(7) Injured, unknown severity
Lower Extremity	Skin-Other	
External		

**C. VEHICLE PROFILE**

Vehicle No.	Class of Vehicle	Year/Make/Model	Most Severe Damage Based on Vehicle Inspection	
			Damage Plane	Damage Description
01	intermediate	91/Buick/Century	right	minor scratches/cracked windshield

**DO NOT SANITIZE THIS FORM**



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Administration

# ACCIDENT COLLISION DIAGRAM

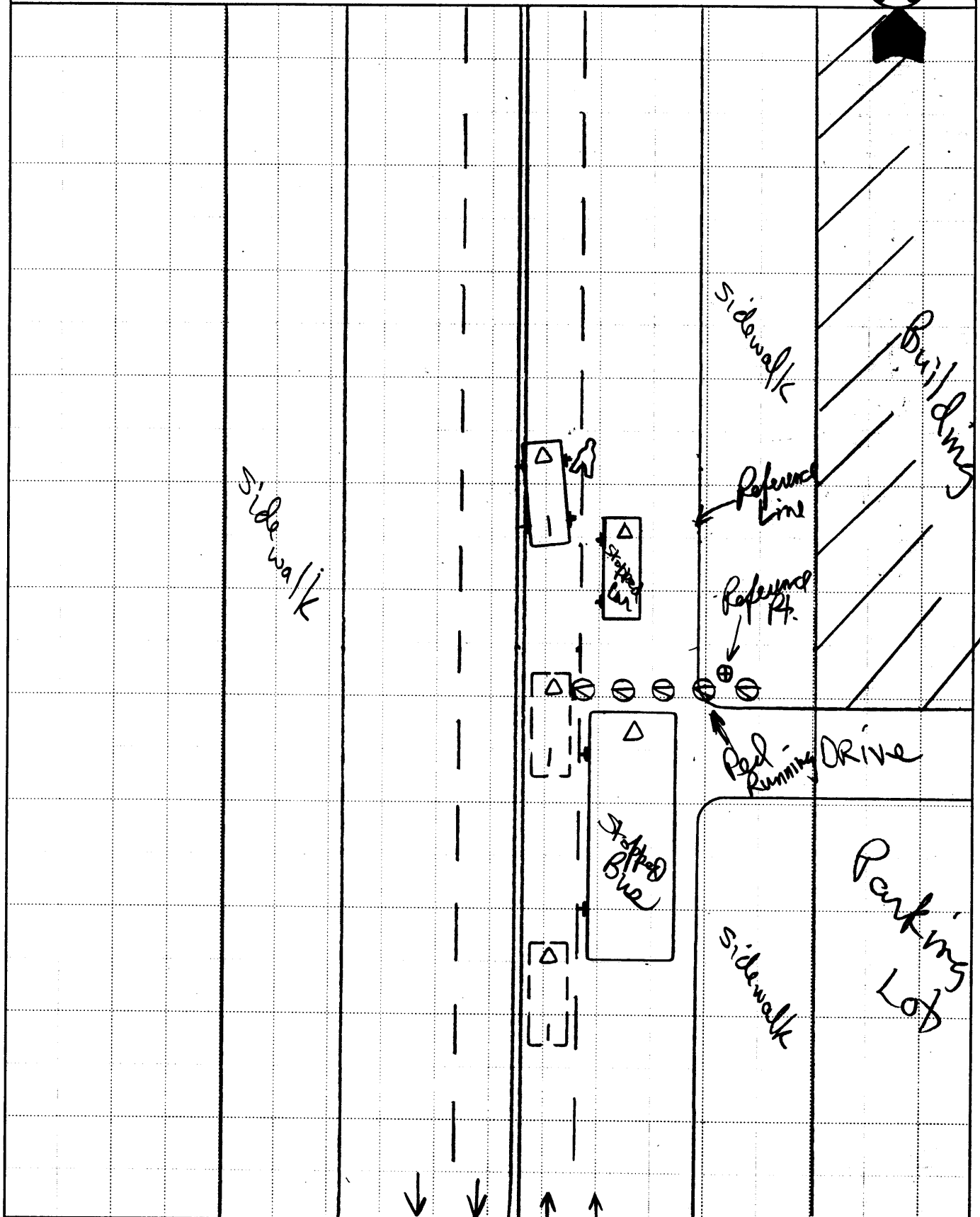
3

NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

PSU No. 82

Case Number - Stratum 623P

Indicate North





U.S. Department of Transportation  
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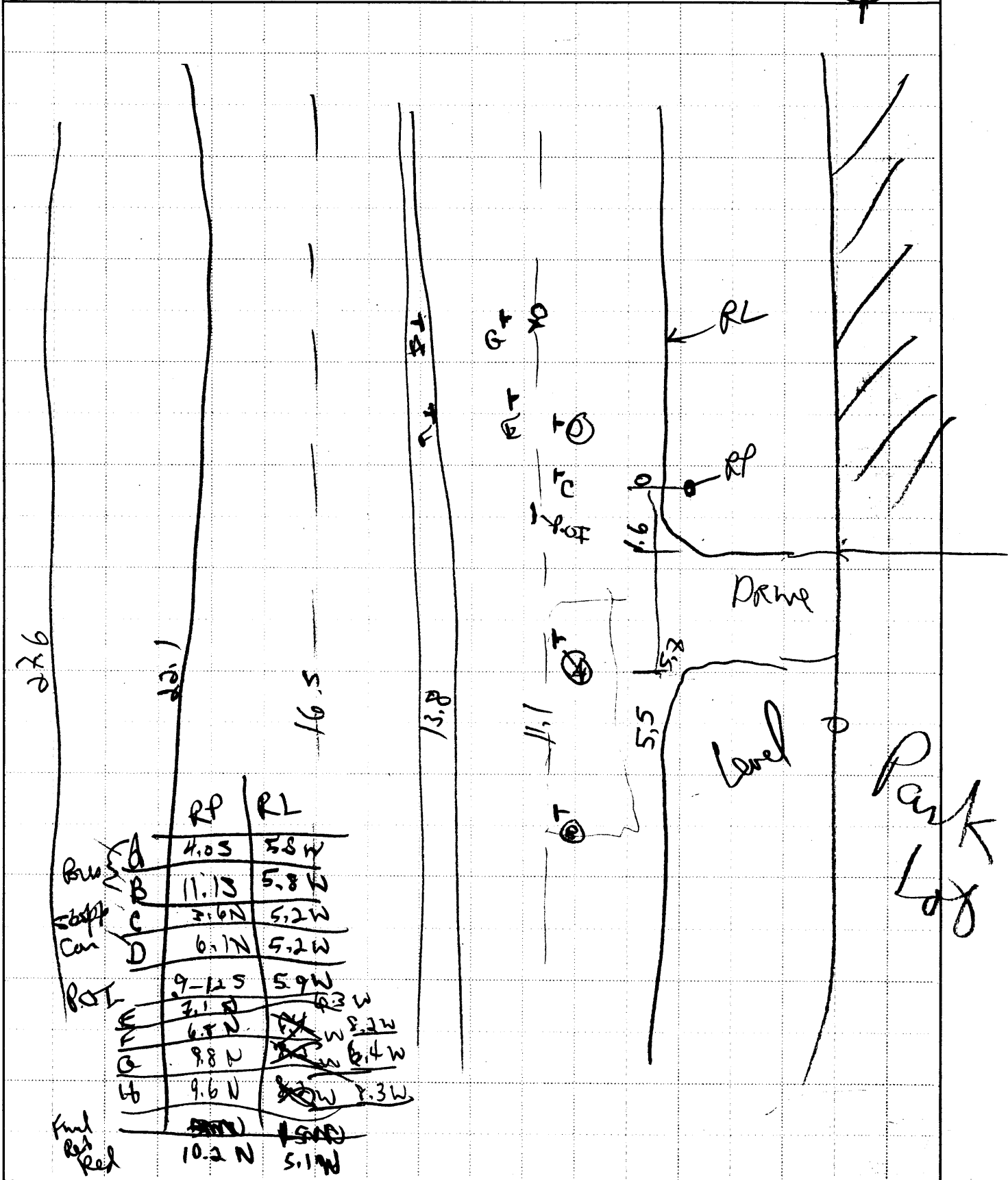
# ACCIDENT COLLISION DIAGRAM

NATIONAL ACCIDENT SAMPLING SYSTEM  
CRASHWORTHINESS DATA SYSTEM

PSU No. 82

Case Number—Stratum 623P

Indicate North





# PEDESTRIAN ACCIDENT COLLISION MEASUREMENT TABLE

Primary Sampling Unit Number 82

Case Number—Stratum 6 2 3 P

### PEDESTRIAN ACCIDENT COLLISION DATA COLLECTION

- \* document reference point and reference line relative to physical features
- \* documentation of all accident induced physical evidence including (if applicable):
  - a) vehicle skid marks
  - b) pedestrian contacts with ground or object
  - c) vehicle/pedestrian point of impact (POI)
  - d) location of pedestrian separation point from vehicle
  - f) final resting points (FRP) for pedestrian and vehicle
- \* documentation of the physical plant including:
  - a) all road/roadway delineation (e.g., crosswalks, curbs/edge lines, lane markings, medians, pavement markings, parked vehicles, poles, signs, etc.)
  - b) all traffic controls (e.g., lights, signs)

Surface Type Asphalt  
 Surface Condition DRY  
 Coefficient of Friction 0.75-0.80  
 Grade (v/h) Measurement  
 a) at impact 0/120  
 b) between impact and final rest 0/120  
 Pedestrian Travel Direction West  
 Vehicle Travel Direction North  
 Number of Travel Lanes 4

### SCALED DIAGRAM

- \* north arrow placed on diagram
- \* grade measurements for all applicable roadways.
- \* scaled representations of the physical plant including:
  - a) all road/roadway delineation (e.g., crosswalks, curbs/edge lines, lane markings, medians, pavement markings, parked vehicles, poles, signs, etc.)
  - b) all traffic controls (e.g., lights, signs)
- \* scaled representations of the vehicle and pedestrian at pre-impact, impact, and final rest based upon either:
  - a) physical evidence, or
  - b) reconstructed accident dynamics

Reference Point: Light Pole East Side of Street 1.6M North of Drive

Reference line: East Curb Edge

Item	Distance and Direction from Reference Point	Distance and Direction from Reference Line
Stopped Bus L.F. Tire	4.0 S	5.8 W
" " R.F. Tire	11.1 S	5.8 W
Stopped Car L.F. Tire	6.1 N	5.2 W
" " R.F. Tire	3.6 N	5.2 W
Approximate P.O.I.	9-12.5	5.9 W
Final Rest (VI) L.F. Tire	9.6 N	8.3 W
" " " R.F. Tire	9.8 N	6.4 W
" " " L.R. Tire	6.8 N	8.2 W
" " " R.R. Tire	7.1 N	6.3 W





# PEDESTRIAN ACCIDENT FORM

4

1. Primary Sampling Unit Number 82  
 2. Case Number - Stratum 6 23 P

### IDENTIFICATION

3. Number of General Vehicle Forms Submitted 0 1  
 4. Date of Accident (Month, Day, Year) [redacted] 19 5  
 5. Time of Accident 0802

Code reported military time of accident.

NOTE: Midnight = 2400  
 Unknown = 9999

### SPECIAL STUDIES - INDICATORS

Check (✓) each special study (SS15-SS19 below) that has been completed; code 1 for the checked special studies and 0 for the special studies not checked.

6. 0 SS15 Administrative Use  
 7. 1 ✓ SS16 Pedestrian Crash Data Study  
 8. 0 SS17 Impact Fires  
 9. 0 SS18 \_\_\_\_\_  
 10. 0 SS19 \_\_\_\_\_

### NUMBER OF EVENTS

11. Number of Recorded Events in This Accident 0 1

### PEDESTRIAN STUDY CRITERIA

**Pedestrian Definition:**

Any person who is on a trafficway or on a sidewalk or path contiguous with a trafficway, or on private property (e.g., parking lot). Note: Pedestrians include persons who are in contact with the ground, roadway, etc. and are pushing carts, wagons, etc. or holding on to a vehicle.

Persons in or on a nonmotorist conveyance are not pedestrians and are excluded from this study. A nonmotorist conveyance is defined as any human powered device by which a nonmotorist may move, or by which a pedestrian or nonmotorist may move another nonmotorist. A nonmotorist conveyance for purposes of this study includes the following: bicycles, baby carriages, roller skates/blades, push carts, scooters, wheelchairs, animals, etc. For example, persons on a bicycle/scooter, roller skating/blading, in a baby carriage/push cart/wheelchair or on a horse are excluded.

**Case Selection Criteria:**

A forward moving, late model year (VEH04 equals 90 to 95) CDS applicable vehicle (VEH07 equals 01 to 49) must strike a pedestrian.

The striking portion of the vehicle structure must be original equipment manufacturer (OEM) without previous damage and or parts removed in the impact area. For example, vehicles equipped with deer guards, winches, snow plows, etc. or previously damaged in the impact area are excluded.

The pedestrian may not be lying or sitting.

The pedestrian impact(s) are the vehicle's only impact(s). If multiple pedestrians are impacted, each pedestrian shall be a separate case.

The first point of contact between the late model year, CDS applicable vehicle and the pedestrian must be forward of the top of the A pillar.

### PEDESTRIAN ACCIDENT EVENTS

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
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12. <u>0 1</u>	13. <u>0 1</u>	14. <u>03</u>	15. <u>R</u>	16. <u>7 2</u>	17. <u>0 0</u>	18. <u>0</u>
----------------	----------------	---------------	--------------	----------------	----------------	--------------

**CODES FOR  
CLASS OF VEHICLE**

- (00) Not a motor vehicle
- (01) Subcompact/mini (wheelbase < 254 cm)
- (02) Compact (wheelbase ≥ 254 but < 265 cm)
- (03) Intermediate (wheelbase ≥ 265 but < 278 cm)
- (04) Full size (wheelbase ≥ 278 but < 291 cm)
- (05) Largest (wheelbase ≥ 291 cm)
- (09) Unknown passenger car size
- (11) Compact utility vehicle
- (12) Large utility vehicle (≤ 4,500 kgs GVWR)
- (13) Passenger van (≤ 4,500 kgs GVWR)
- (14) Other van (≤ 4,500 kgs GVWR)
- (15) Pickup truck (≤ 4,500 kgs GVWR)
- (18) Other truck (≤ 4,500 kgs GVWR)
- (19) Unknown light truck type

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

**CDS APPLICABLE  
VEHICLES**

- (F) Front
- (R) Right side
- (L) Left side
- (U) Undercarriage
- (9) Unknown

**CODES FOR VEHICLE NUMBER OR OBJECT CONTACTED**

**Collision with Nonfixed Object**

- (72) Pedestrian





# PEDESTRIAN ASSESSMENT FORM

(5)

1. Primary Sampling Unit Number

82

2. Case Number - Stratum

623 P

3. Pedestrian Number

01

10. Pedestrian's Weight  
Code actual weight to the nearest  
kilogram.

982

(999) Unknown

180 pounds X .4536 = \_\_\_\_\_ kilograms

## PEDESTRIAN'S CHARACTERISTICS

4. Pedestrian's Age

Code actual age at time of accident.  
(00) Less than one year old (specify by month):

20

(97) 97 years and older

(99) Unknown

5. Pedestrian's Sex

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

1

6. Pedestrian's Overall Height

Code actual height to the nearest  
centimeter.

188

(999) Unknown

74 inches X 2.54 = \_\_\_\_\_ centimeters

54  
99

7. Pedestrian's Height - Ground to Knee

Code to the nearest  
centimeter.

53.58

(999) Unknown

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

100  
99

8. Pedestrian's Height - Ground to Hip

Code to the nearest  
centimeter.

99.6

(999) Unknown

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

154  
99

9. Pedestrian's Height - Ground to Shoulder

Code to the nearest  
centimeter.

153.8

(999) Unknown

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

## PEDESTRIAN'S PRE-AVOIDANCE ACTIONS

11. Pedestrian Attitude

- (1) Standing
- (2) Crouching
- (3) Kneeling
- (4) Bending at waist
- (8) Other (specify): \_\_\_\_\_
- (9) Unknown

1

12. Pedestrian Motion

- (0) Not moving
- (1) Walking slowly
- (2) Walking rapidly
- (3) Running or jogging
- (4) Hopping
- (5) Skipping
- (6) Jumping
- (7) Falling/stumbling or rising
- (8) Other (specify): \_\_\_\_\_
- (9) Unknown

2

13. Pedestrian's Action Relative to Vehicle

- (00) Stopped
- (01) Crossing road, straight
- (02) Crossing road, diagonally
- (03) Moving in road, with traffic
- (04) Moving in road, against traffic
- (05) Off road, approaching road
- (06) Off road, going away from road
- (07) Off road, moving parallel
- (08) Off road, crossing driveway
- (09) Off road, moving along driveway
- (98) Other (specify): \_\_\_\_\_
- (99) Unknown

01

14. Pedestrian's Body (Chest) Orientation  
Relative to Striking Vehicle Prior to  
Avoidance Actions

- (1) Facing vehicle
- (2) Facing away
- (3) Left side to vehicle
- (4) Right side to vehicle
- (8) Other (specify): \_\_\_\_\_
- (9) Unknown

1

**PEDESTRIAN'S AVOIDANCE ACTIONS**15. Pedestrian's First Avoidance Actions 06

- (00) No avoidance actions
- (01) Stopped
- (02) Accelerated pace
- (03) Ran away (along vehicle path)
- (04) Jumped
- (05) Turned toward vehicle
- (06) Turned away from vehicle
- (07) Dove or fell away

Used hand(s) to :

- (11) Vault corner of vehicle
- (12) Vault onto vehicle
- (13) Brace against vehicle
- (14) Crouched and braced hands against vehicle
- (98) Other (specify): \_\_\_\_\_
- (99) Unknown

**PEDESTRIAN'S ORIENTATION AT IMPACT**16. Pedestrian's Head Orientation at Initial Impact 1

- (1) To front
- (2) To left
- (3) To right
- (4) Up
- (5) Down
- (8) Other (specify): \_\_\_\_\_
- (9) Unknown

17. Pedestrian's Body (Chest) Orientation at Initial Impact B

- (1) Facing vehicle
- (2) Facing away
- (3) Left side to vehicle
- (4) Right side to vehicle
- (8) Other (specify): \_\_\_\_\_
- (9) Unknown

18. Pedestrian's Arm Orientation at Initial Impact 09

- (01) At sides
- (02) Folded across chest
- (03) Hands clasped behind back
- (04) Hands on hips
- (05) Hands in pockets

One or both arms:

- (06) Extended upward
- (07) Extended to side
- (08) Extended forward bracing
- (09) Extended, holding object (briefcase, suitcase, etc.)
- (10) Holding object (young child, grocery bag, etc.) in arm(s)
- (11) Holding object (young child, grocery bag, etc.) on shoulder(s) or head
- (98) Other (specify): \_\_\_\_\_
- (99) Unknown

19. Pedestrian's Leg Orientation at Initial Impact 99

- (01) Together
- (02) Apart-laterally
- (03) Apart-right leg forward
- (04) Apart-left leg forward
- (05) Apart- forward leg unknown
- (06) Left foot off the ground
- (07) Right foot off the ground
- (08) Both feet off the ground
- (98) Other (specify): \_\_\_\_\_
- (99) Unknown

20. Vehicle/Pedestrian's Interaction 15

- (01) Carried by vehicle, wrapped position
- (02) Carried by vehicle, slid to windshield
- (03) Carried by vehicle, position unknown
- (04) Passed over vehicle top
- (05) Thrown straight forward
- (06) Thrown forward and left of vehicle
- (07) Thrown forward and right of vehicle
- (08) Knocked to pavement, forward
- (09) Knocked to pavement, left of vehicle
- (10) Knocked to pavement, right of vehicle
- (11) Knocked to pavement, run over or dragged by vehicle
- (12) Shunted to left (corner impacts only)
- (13) Shunted to right (corner impacts only)
- (14) Bumped or pushed aside
- (15) Snagged, rotated
- (16) Snagged, dragged by vehicle
- (17) Foot or legs run over
- (98) Other (specify): \_\_\_\_\_
- (99) Unknown

**OFFICIAL RECORDS**

**INJURY CONSEQUENCES**

21. Police Reported Alcohol Presence For Pedestrian

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

0

22. Alcohol Test Result For Pedestrian Code actual value (decimal implied before first digit—0.xx)

- (95) Test refused
- (96) None given
- (97) AC (Alcohol Content) test performed, results unknown
- (99) Unknown test given

96

Source: PAK

23. Police Reported Other Drug Presence For Pedestrian

- (0) No other drug(s) present
- (1) Yes other drug(s) present
- (7) Not reported
- (9) Unknown

0

24. Other Drug Specimen Test Result For Pedestrian

- (0) No specimen test given
- (1) Drug not found in specimen
- (2) Drug found in specimen, (specify): \_\_\_\_\_
- (3) Specimen test given, results unknown or not obtained
- (9) Unknown

0

25. Injury Severity (Police Rating)

- (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

2

26. Treatment - Mortality

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

4

*Nonfatal*

- (3) Hospitalization
- (4) Transported and released
- (5) Treatment at scene - non-transported
- (6) Treatment later
- (8) Treatment - other (specify): \_\_\_\_\_
- (9) Unknown

27. Type Of Medical Facility (for Initial Treatment)

- (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

1

28. Hospital Stay

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

00

29. Working Days Lost

- \_\_\_\_\_ Code the number of days (up through 60) that the pedestrian 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

97

**STOP - VARIABLES 30 THROUGH 37 ARE COMPLETED BY THE ZONE CENTER**

30. Glasgow Coma Scale (GCS) Score 15  
 (at Medical Facility)  
 (00) Not injured  
 (01) Injured - not treated at medical facility  
 (02) No GCS Score at medical facility  
 (03-15) Code the actual value of the initial GCS Score recorded at medical facility.  
 (97) Injured, details unknown  
 (99) Unknown if injured
31. Was the Pedestrian Given Blood? 1  
 (1) No - blood not given  
 (2) Yes - blood given  
 (specify units): \_\_\_\_\_  
 (9) Unknown if blood given
32. Arterial Blood Gases (ABG) - HCO<sub>3</sub> 01  
 (00) Not injured  
 (01) Injured, ABGs not measured or reported  
 (02-50) Code the actual value of the HCO<sub>3</sub>  
 (96) ABGs reported, HCO<sub>3</sub> unknown  
 (97) Injured, details unknown  
 (99) Unknown if injured
33. Time to Death 00  
 \_\_\_\_\_ 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
34. 1st Medically Reported Cause of Death 00
35. 2nd Medically Reported Cause of Death 00
36. 3rd Medically Reported Cause of Death 00  
 \_\_\_\_\_ Code the Pedestrian Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this pedestrian's death  
 (00) Not fatal or no additional causes  
 (96) Mode of death given but specific injuries are not linked to cause of death. (specify): \_\_\_\_\_  
 (97) Other result (includes fatal ruled disease) (specify): \_\_\_\_\_  
 (99) Unknown
37. Number of Recorded Injuries for This Pedestrian 02  
 \_\_\_\_\_ Code the actual number of injuries recorded for this pedestrian.  
 (00) No recorded injuries  
 (97) Injured, details unknown  
 (99) Unknown if injured

ARE ALL APPLICABLE MEDICAL RECORDS INCLUDED WITH INITIAL SUBMISSION?

NO  ] YES [ ]

UPDATE CANDIDATE?

NO [ ] YES  ]



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PEDESTRIAN INJURY FORM

1. Primary Sampling Unit Number	<u>82</u>	3. Pedestrian Number	<u>01</u>
2. Case Number - Stratum	<u>623 P</u>	4. Blank	<u>X X</u>

INJURY DATA

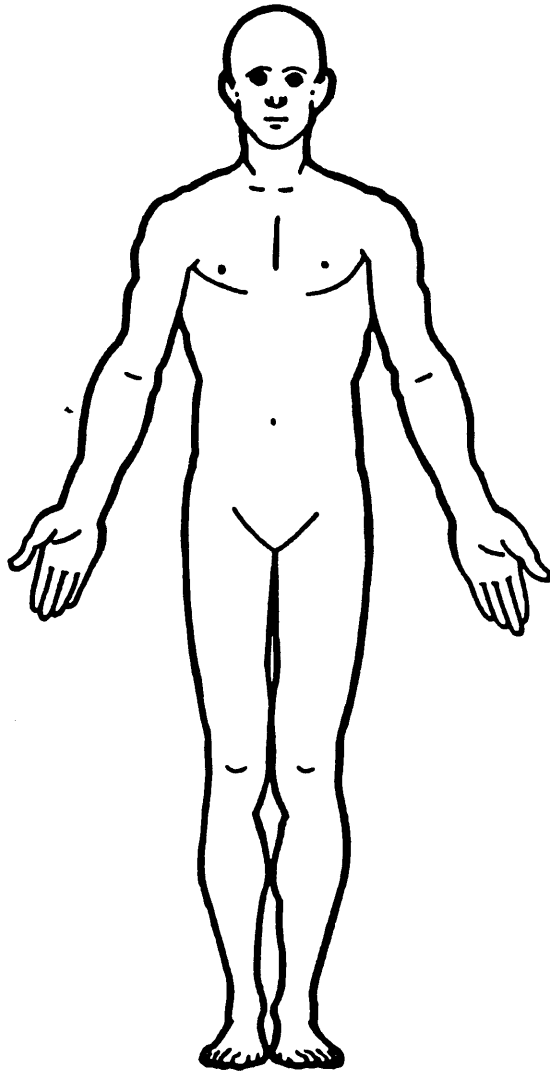
Record below the actual injuries sustained by this pedestrian in CHRONOLOGICAL order that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than twenty-five injuries have been documented,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

	AIS-90							Injury Source	Injury Confidence Level	Direct/Indirect Injury	Striking Profile	Type Of Damage	Damage Depth
	Source of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect						
1st	5. <u>3</u>	6. <u>7</u>	7. <u>9</u>	8. <u>02</u>	9. <u>02</u>	10. <u>1</u>	11. <u>L</u>	12. <u>775</u>	13. <u>1</u>	14. <u>1</u>	15. <u>2</u>	16. <u>5</u>	17. <u>2</u>
2nd	18. <u>7</u>	19. <u>7</u>	20. <u>9</u>	21. <u>04</u>	22. <u>02</u>	23. <u>1</u>	24. <u>1</u>	25. <u>775</u>	26. <u>1</u>	27. <u>1</u>	28. <u>2</u>	29. <u>5</u>	30. <u>2</u>
3rd	31. ___	32. ___	33. ___	34. ___	35. ___	36. ___	37. ___	38. ___	39. ___	40. ___	41. ___	42. ___	43. ___
4th	44. ___	45. ___	46. ___	47. ___	48. ___	49. ___	50. ___	51. ___	52. ___	53. ___	54. ___	55. ___	56. ___
5th	57. ___	58. ___	59. ___	60. ___	61. ___	62. ___	63. ___	64. ___	65. ___	66. ___	67. ___	68. ___	69. ___
6th	70. ___	71. ___	72. ___	73. ___	74. ___	75. ___	76. ___	77. ___	78. ___	79. ___	80. ___	81. ___	82. ___
7th	83. ___	84. ___	85. ___	86. ___	87. ___	88. ___	89. ___	90. ___	91. ___	92. ___	93. ___	94. ___	95. ___
8th	96. ___	97. ___	98. ___	99. ___	100. ___	101. ___	102. ___	103. ___	104. ___	105. ___	106. ___	107. ___	108. ___
9th	109. ___	110. ___	111. ___	112. ___	113. ___	114. ___	115. ___	116. ___	117. ___	118. ___	119. ___	120. ___	121. ___
10th	122. ___	123. ___	124. ___	125. ___	126. ___	127. ___	128. ___	129. ___	130. ___	131. ___	132. ___	133. ___	134. ___

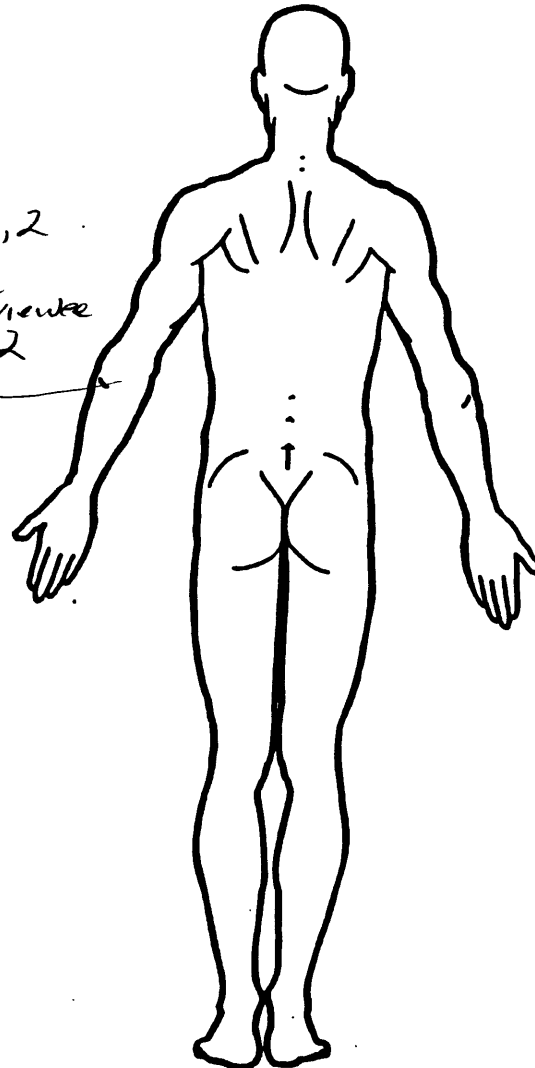


# OFFICIAL INJURY DATA — SOFT TISSUE INJURIES

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



7,790402.1,2  
contusion  
per interviewee  
3,790202.1,2  
abrasion  
① elbow



**SOURCE OF INJURY DATA****OFFICIAL**

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

**UNOFFICIAL**

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

**INJURY SOURCE CONFIDENCE LEVEL**

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

**DIRECT/INDIRECT INJURY**

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

**STRIKING PROFILE**

- (0) Injury not from vehicle contact
- (1) Flat-Narrow (< 15 centimeters)
- (2) Flat-Wide (≥ 15 centimeters)
- (3) Rounded (contoured)
- (4) Rounded edge
- (5) Sharp edge
- (8) Other (specify): \_\_\_\_\_
- (9) Unknown

**TYPE OF DAMAGE**

- (0) Injury not from vehicle contact
- (1) No damage/contact
- (2) Scratch (Scuff, Cloth Transfer, Smear)
- (3) Dent
- (4) Large deformation
- (5) Cracked, fractured, shattered
- (6) Separated from vehicle
- (7) Noncontact injury
- (8) Other specify: \_\_\_\_\_
- (9) Unknown

**DAMAGE DEPTH**

- (0) Injury not from vehicle contact
- (1) No residual damage
- (2) Surface only damage
- (3) Crush depth > 0 to 2 centimeters
- (4) Crush depth > 2 to 5 centimeters
- (5) Crush depth > 5 to 10 centimeters
- (8) Other specify: \_\_\_\_\_
- (9) Unknown

**PEDESTRIAN INJURY CLASSIFICATION****Body Region**

- (1) Head
- (2) Face
- (3) Neck
- (4) Thorax
- (5) Abdomen
- (6) Spine
- (7) Upper Extremity
- (8) Lower Extremity
- (9) Unspecified

**Type of Anatomic Structure**

- (1) Whole Area
- (2) Vessels
- (3) Nerves
- (4) Organs (includes muscles/ ligaments)
- (5) Skeletal (includes joints)
- (6) Head - LOC
- (9) Skin

**Specific Anatomic Structure****Whole Area**

- (02) Skin - Abrasion
- (04) Skin - Contusion
- (06) Skin - Laceration
- (08) Skin - Avulsion
- (10) Amputation
- (20) Burn
- (30) Crush
- (40) Degloving
- (50) Injury - NFS
- (90) Trauma, other than mechanical

**Head - LOC**

- (02) Length of LOC
- (04, 06, 08) Level of Consciousness
- (10) Concussion

**Spine**

- (02) Cervical
- (04) Thoracic
- (06) Lumbar

Vessels, Nerves, Organs, Bones, Joints are assigned consecutive two digit numbers beginning with 02

**Level of Injury**

Specific injuries are assigned consecutive two-digit numbers beginning with 02.

To the extent possible, within the organizational framework of the AIS, 00 is assigned to an injury NFS as to severity or where only one injury is given in the dictionary for that anatomic structure. 99 is assigned to any injury NFS as to lesion or severity.

**Abbreviated Injury Scale**

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

**Aspect**

- (1) Right
- (2) Left
- (3) Bilateral
- (4) Central
- (5) Anterior
- (6) Posterior
- (7) Superior
- (8) Inferior
- (9) Unknown
- (0) Whole region

**INJURY SOURCE****FRONT**

- 700 Front bumper
- 701 Front lower valance/spoiler
- 702 Front grille
- 703 Hood edge and/or trim
- 704 Hood ornament (fixed)
- 705 Hood ornament (spring loaded)
- 706 Headlight
- 707 Retractable headlight door (Open/Closed)
- 708 Turn signal/parking lights
- 718 Other front or add on object (specify): \_\_\_\_\_
- 719 Unknown front object

**Left Side Components**

- 720 Front fender side surface
- 721 Front antenna
- 722 A1 pillar
- 723 A2 pillar
- 724 B pillar
- 725 C pillar
- 726 D pillar
- 728 Other pillar (specify): \_\_\_\_\_
- 729 Left side roof rail
- 730 Left side door surface
- 731 Left side door handle
- 732 Left side mirror fixed housing
- 733 Left side folding mirror
- 734 Left side glazing forward of B pillar
- 735 Left side glazing rearward of B pillar
- 736 Left side back fender or quarter panel
- 737 Rear antenna
- 738 Other left side object (specify): \_\_\_\_\_
- 739 Unknown left side component

**Right Side Components**

- 740 Front fender side surface
- 741 Front antenna
- 742 A1 pillar
- 743 A2 pillar

- 744 B pillar
- 745 C pillar
- 746 D pillar
- 748 Other pillar (specify): \_\_\_\_\_
- 749 Right side roof rail
- 750 Right side door surface
- 751 Right side door handle
- 752 Right side mirror fixed housing
- 753 Right side folding mirror
- 754 Right side glazing forward of B pillar
- 755 Right side glazing rearward of B pillar
- 756 Rear antenna
- 757 Rear fender or quarter panel
- 758 Other right side object (specify): \_\_\_\_\_
- 759 Unknown right side component

**Back Components**

- 760 Rear (back) bumper
- 761 Tailgate
- 762 Hatchback, vertical surface
- 768 Other back component (specify): \_\_\_\_\_
- 769 Unknown back component

**Top Components**

- 770 Hood surface
- 771 Hood surface reinforced by under hood component
- 772 Front fender top surface
- 773 Cowl area
- 774 Wiper blade & mountings
- 775 Windshield glazing
- 776 Front header
- 777 Roof surface
- 778 Backlight glazing
- 779 Rear header
- 780 Hatchback
- 781 Rear trunk lid
- 788 Other top component (specify): \_\_\_\_\_
- 789 Unknown top component

**Wheels / tires**

- 790 Left front wheel / tire
- 791 Right front wheel / tire
- 792 Left rear wheel / tire
- 793 Right rear wheel / tire
- 798 Other wheel / tire (specify): \_\_\_\_\_
- 799 Unknown wheel / tire

**Undercarriage components**

- 800 Front crossmember
- 801 Steering assembly/Front suspension
- 802 Oil pan
- 803 Exhaust system pipe
- 804 Transmission
- 805 Drive shaft
- 806 Catalytic converter
- 807 Muffler
- 808 Floor pan
- 809 Fuel tank
- 810 Rear suspension
- 818 Other undercarriage component (specify): \_\_\_\_\_
- 819 Unknown undercarriage component

**Accessories**

- 820 Air scoop, deflector
- 821 Cellular or CB radio antenna
- 822 Emergency lights or bar
- 823 Fog lights
- 824 Luggage, ski, or bike rack
- 825 Cargo (specify): \_\_\_\_\_
- 826 Spare tire
- 827 Spotlight
- 828 Other accessory (specify): \_\_\_\_\_

**Other Object or Vehicle in Environment**

- 947 Ground
- 948 Other object (specify): \_\_\_\_\_
- 949 Unknown object in environment
- 959 Unknown object on contacting vehicle
- 997 Noncontact injury source
- 999 Unknown injury source



# OFFICIAL INJURY DATA — SKELETAL INJURIES

Restrained?

No  
 Yes

Blood Alcohol  
Level (mg/dl)

BAL = /

Glasgow Coma  
Scale Score

GCSS = 15

Units of Blood  
Given

Units = /

Arterial Blood  
Gases

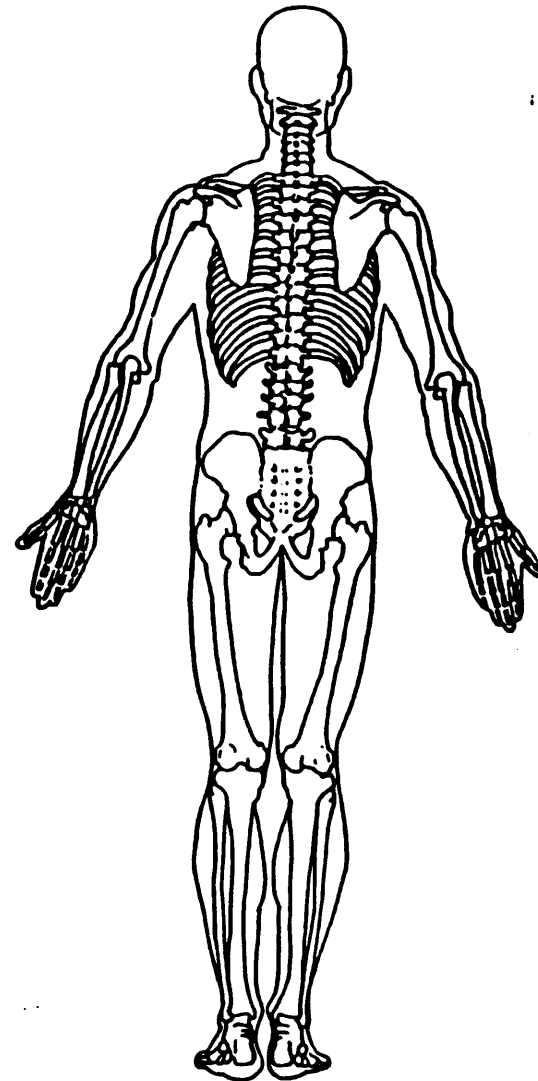
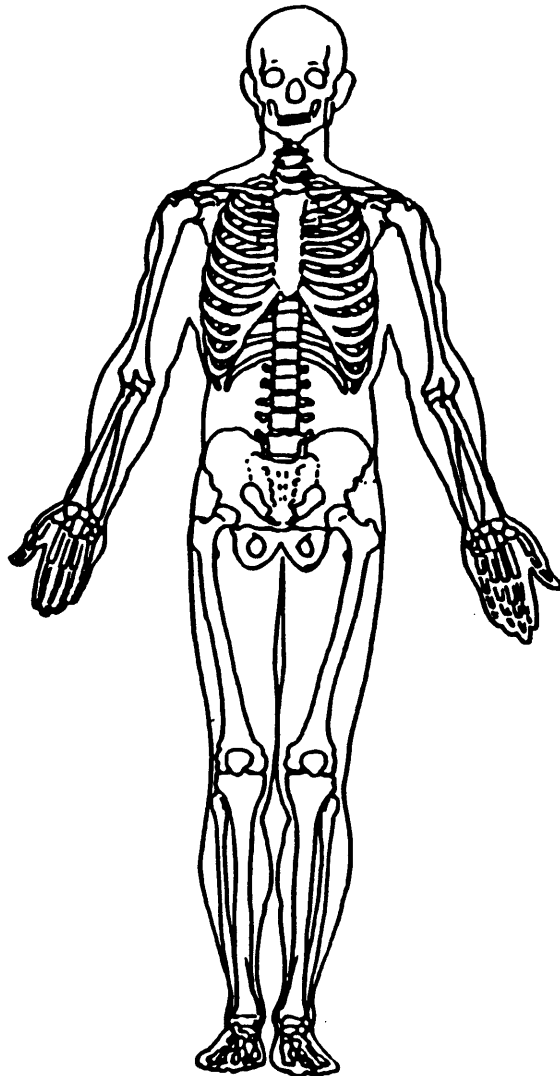
Ph = /

PO<sub>2</sub> = /

PCO<sub>2</sub> = /

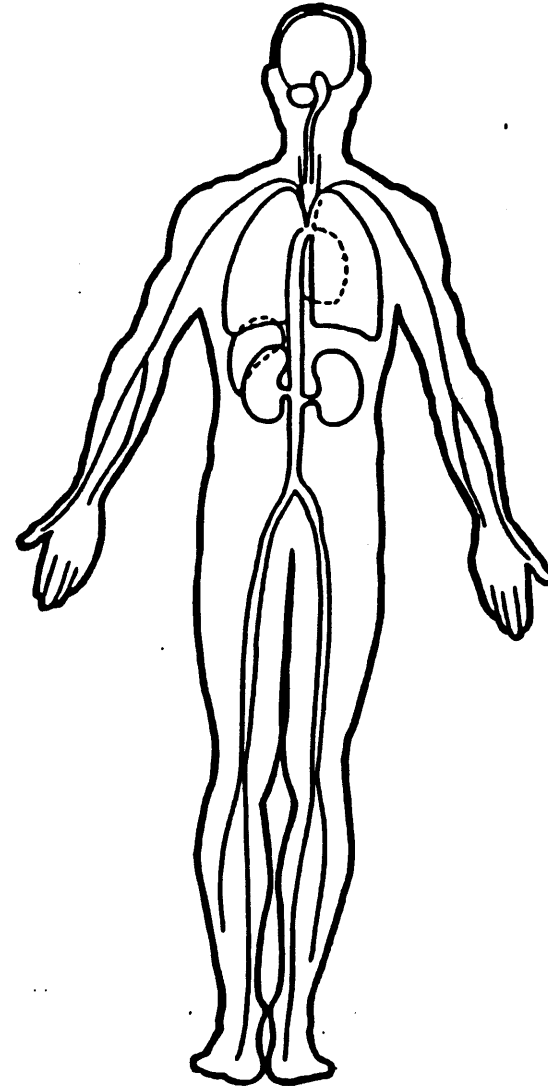
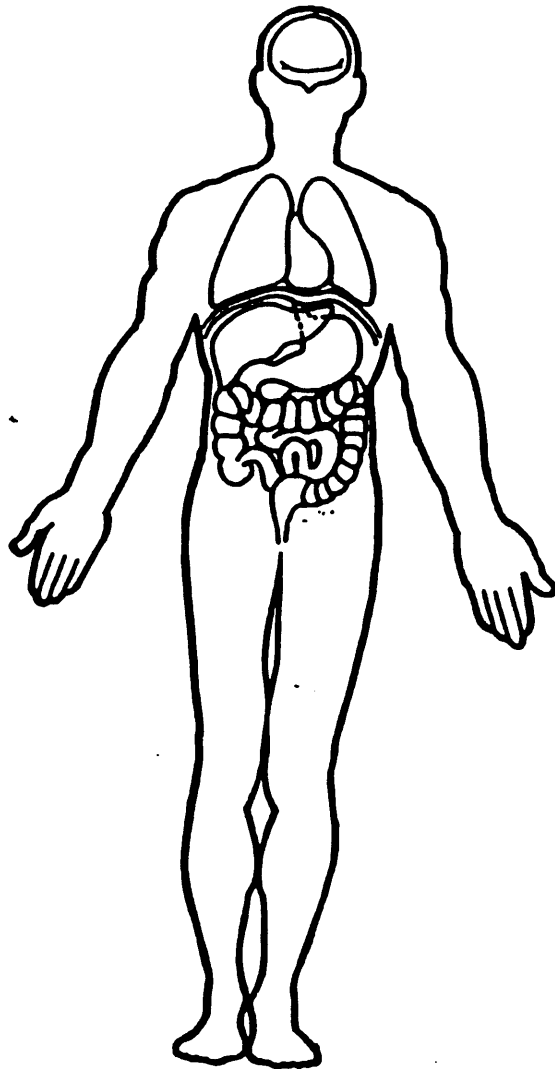
HCO<sub>3</sub> = /

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



## OFFICIAL INJURY DATA — INTERNAL INJURIES

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





1. Primary Sampling Unit Number 82  
 2. Case Number - Stratum 6 23 P  
 3. Vehicle Number 0 1

**VEHICLE IDENTIFICATION**

4. Vehicle Model Year 91  
 Code the last two digits of the model year  
 (99) Unknown

5. Vehicle Make (specify): 18  
Buick  
 Applicable codes are found in your  
 NASS PCDS Data Collection, Coding and  
 Editing Manual.  
 (99) Unknown

6. Vehicle Model (specify): 007  
Century  
 Applicable codes are found in your  
 NASS PCDS Data Collection, Coding and  
 Editing Manual.  
 (99) Unknown

7. Body Type 04  
 Note: Applicable codes may be found on  
 the back of this page.

8. Vehicle Identification Number  
1G4AL54N8M [REDACTED]

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

Left justify; Slash zeros and letter Z (0 and Z)  
 No VIN—Code all zeros  
 Unknown—Code all nines

**OFFICIAL RECORDS**

9. Police Reported Travel Speed 037  
 Code to the nearest kmph (NOTE: 000 means  
 less than 0.5 kmph)  
 (160)159.5 kmph and above  
 (999)Unknown  
<sup>20-25</sup>  
~~83~~ mph X 1.6093 = \_\_\_\_\_ kmph

10. Speed Limit 048  
 (000) No statutory limit  
 Code posted or statutory speed limit  
 in kmph  
 (999) Unknown  
30  
 \_\_\_\_\_ mph X 1.6093 = \_\_\_\_\_ kmph

11. Police Reported Alcohol Presence For Driver 0  
 (0) No alcohol present  
 (1) Yes alcohol present  
 (7) Not reported  
 (8) No driver present  
 (9) Unknown

12. Alcohol Test Result For Driver 96  
 Code actual value (decimal implied  
 before first digit—0.xx)  
 (95) Test refused  
 (96) None given  
 (97) AC (Alcohol Content) test  
 performed, results unknown  
 (98) No driver present  
 (99) Unknown  
 Source: PAR

13. Police Reported Other Drug Presence  
 For Driver 0  
 (0) No other drug(s) present  
 (1) Yes other drug(s) present  
 (7) Not reported  
 (8) No driver present  
 (9) Unknown

14. Other Drug Specimen Test Result  
 For Driver 0  
 (0) No specimen test given  
 (1) Drug not found in specimen  
 (2) Drug found in specimen  
 (specify): \_\_\_\_\_  
 (3) Specimen test given, results  
 unknown or not obtained  
 (8) No driver present  
 (9) Unknown

# CODES FOR BODY TYPE

## 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)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):

- 
- (09) Unknown automobile type

### *Automobile Derivatives*

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

### *Utility Vehicles (≤ 4,500 kgs GVWR)*

- (14) Compact utility (Jeep CJ-2 - CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Landcruiser, Rover, Scout)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

### *Van Based Light Trucks (≤ 4,500 kgs GVWR)*

- (20) Minivan (Chrysler Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Dodge/Plymouth Vista, Aerostar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):

- 
- (29) Unknown van type

### *Light Conventional Trucks (Pickup style cab, ≤ 4,500 kgs GVWR)*

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500,)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

### *Other Light Trucks (≤ 4,500 kgs GVWR)*

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, 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 (> 4,500 kgs GVWR)*

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)
- (63) Single unit straight truck (> 12,000 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

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

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):
- (89) Unknown motored cycle type

### *Other Vehicles*

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

## VEHICLE WEIGHT ITEMS

## RECONSTRUCTION DATA

## 15. Vehicle Curb Weight

Code weight to nearest  
10 kilograms.

- (045) Less than 450 kilograms  
(610) 6,100 kilograms or more  
(999) Unknown

2869 lbs X .4536 = 1301 kgs

Source: 91 

## 16. Vehicle Cargo Weight

Code weight to nearest  
10 kilograms.

- (000) Less than 5 kilograms  
(450) 4,500 kilograms or more  
(999) Unknown

\_\_\_\_\_ lbs X .4536 = \_\_\_\_\_ kgs

## 18. Impact Speed

Nearest kmph

(NOTE: 000 means greater than .5 kmph)  
(160) 159.5 kmph and above  
(999) Unknown

## 19. Accuracy Range of Impact Speed Estimate

- (0) No reconstruction  
(1) Less than 2 kmph  
(2)  $\geq 2$  kmph and  $\leq 8$  kmph  
(3)  $\geq 9$  kmph and  $\leq 16$  kmph  
(4)  $\geq 17$  kmph and  $\leq 26$  kmph  
(9) Unknown

## 20. Data Source of Impact Speed

- (0) No impact speed calculated  
(1) Zone center calculation  
(2) Police calculation  
(3) Driver/witness/police estimates

## OTHER DATA

## 17. Vehicle Special Use (This Trip)

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

## PRECRASH DATA

## 21. Driver's Attention to Driving

(Prior to Recognition of Critical Event)

- (1) Full attention to driving  
(2) Distracted by other occupant  
(3) Distracted by moving object in vehicle  
(4) Distracted by outside person, object, or event  
(5) Talking on cellular phone or CB radio  
(specify): \_\_\_\_\_  
(6) Sleeping or dozing while driving  
(8) Other (specify): \_\_\_\_\_  
(9) Unknown

## 22. Pre-Event Vehicle Movement

(Prior to Recognition of Critical Event)

- (01) Going straight  
(02) Slowing or stopping in traffic lane  
(03) Starting in traffic lane  
(04) Stopped in traffic lane  
(05) Passing or overtaking another vehicle  
(06) Disabled or parked in travel lane  
(07) Leaving a parking position  
(08) Entering a parking position  
(09) Turning right  
(10) Turning left  
(11) Making a U-turn  
(12) Backing up (other than for parking position)  
(13) Negotiating a curve  
(14) Changing lanes  
(15) Merging  
(16) Successful avoidance maneuver to a previous critical event  
(97) Other (specify): \_\_\_\_\_

(98) No driver present

(99) Unknown

**STOP - VARIABLES 18 THROUGH 20  
ARE COMPLETED BY THE ZONE CENTER**

## 23. Critical Precrash Event

*This Vehicle Loss of Control Due To:*

- 80
- (01) Blow out or flat tire
  - (02) Stalled engine
  - (03) Disabling vehicle failure (e.g., wheel fell off) (specify): \_\_\_\_\_
  - (04) Non-disabling vehicle problem (e.g., hood flew up) (specify): \_\_\_\_\_
  - (05) Poor road conditions (puddle, pot hole, ice, etc.) (specify): \_\_\_\_\_
  - (06) Traveling too fast for conditions
  - (08) Other cause of control loss (specify): \_\_\_\_\_

- (09) Unknown cause of control loss

*This Vehicle Traveling*

- (10) Over the lane line on left side of travel lane
- (11) Over the lane line on right side of travel lane
- (12) Off the edge of the road on the left side
- (13) Off the edge of the road on the right side
- (14) End departure
- (15) Turning left at intersection
- (16) Turning right at intersection
- (17) Crossing over (passing through) intersection
- (19) Unknown travel direction

*Other Motor Vehicle In Lane*

- (50) Stopped
- (51) Traveling in same direction with lower speed (i.e., lower steady speed or decelerating)
- (52) Traveling in same direction with higher speed
- (53) Traveling in opposite direction
- (54) In crossover
- (55) Backing
- (59) Unknown travel direction of other motor vehicle in lane

*Other Motor Vehicle Encroaching Into Lane*

- (60) From adjacent lane (same direction)—over left lane line
- (61) From adjacent lane (same direction)—over right lane line
- (62) From opposite direction—over left lane line
- (63) From opposite direction—over right lane line
- (64) From parking lane
- (65) From crossing street, turning into same direction
- (66) From crossing street, across path
- (67) From crossing street, turning into opposite direction
- (68) From crossing street, intended path not known
- (70) From driveway, turning into same direction
- (71) From driveway, across path
- (72) From driveway, turning into opposite direction
- (73) From driveway, intended path not known
- (74) From entrance to limited access highway
- (78) Encroachment by other vehicle—details unknown

*Pedestrian or Pedalcyclist, or Other Nonmotorist*

- (80) Pedestrian in roadway
- (81) Pedestrian approaching roadway
- (82) Pedestrian—unknown location

- (83) Pedalcyclist or other nonmotorist in roadway (specify): \_\_\_\_\_
- (84) Pedalcyclist or other nonmotorist approaching roadway (specify): \_\_\_\_\_
- (85) Pedalcyclist or other nonmotorist—unknown location (specify): \_\_\_\_\_

*Object or Animal*

- (87) Animal in roadway
- (88) Animal approaching roadway
- (89) Animal—unknown location
- (90) Object in roadway
- (91) Object approaching roadway
- (92) Object—unknown location
- (98) Other critical precrash event (specify): \_\_\_\_\_

- (99) Unknown

## 24. Attempted Avoidance Maneuver

- 01
- Post impact
- (00) No driver present
  - (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
  - (98) Other action (specify): \_\_\_\_\_
  - (99) Unknown

## 25. Precrash Stability After Avoidance Maneuver

- 1
- (0) No driver present
  - (1) No avoidance maneuver
  - (2) Tracking
  - (3) Skidding longitudinally—rotation less than 30 degrees
  - (4) Skidding laterally—clockwise rotation
  - (5) Skidding laterally—counterclockwise rotation
  - (8) Other vehicle loss-of-control (specify): \_\_\_\_\_
  - (9) Precrash stability unknown

## 26. Precrash Directional Consequences of Avoidance Maneuver (Corrective Action)

- 1
- (0) No driver present
  - (1) No avoidance maneuver
  - (2) Vehicle stayed in travel lane where avoidance maneuver was initiated
  - (3) Vehicle stayed on roadway but left travel lane where avoidance maneuver was initiated
  - (4) Vehicle stayed on roadway, not known if left travel lane where avoidance maneuver was initiated
  - (5) Vehicle departed roadway
  - (6) Avoidance maneuver initiated off roadway
  - (9) Directional consequences unknown

## ENVIRONMENTAL DATA

## 27. Relation to Junction

- (0) Non-junction  
(1) Interchange area

*Non-Interchange*

- (2) Intersection  
(3) Intersection-related  
(4) Drive, alley access related  
(5) Other non-interchange (specify):  
  
(6) Unknown type of non-interchange  
(9) Unknown if interchange

## 28. Trafficway Flow

- (1) Not physically divided (two way traffic)  
(2) Divided trafficway - median strip without positive barrier  
(3) Divided trafficway - median strip with positive barrier  
(4) One way trafficway  
(9) Unknown

## 29. Number of Travel Lanes

- (1) One  
(2) Two  
(3) Three  
(4) Four  
(5) Five  
(6) Six  
(7) Seven or more  
(9) Unknown

## 30. Roadway Alignment

- (1) Straight  
(2) Curve right  
(3) Curve left  
(9) Unknown

## 31. Roadway Profile

- (1) Level  
(2) Uphill Grade (> 2%)  
(3) Downhill Grade (> 2%)  
(4) Hillcrest  
(5) Sag  
(9) Unknown

## 32. Roadway Surface Type

- (1) Concrete  
(2) Bituminous (asphalt)  
(3) Brick or Block  
(4) Slag, gravel or stone  
(5) Dirt  
(8) Other (specify):  
  
(9) Unknown

## 33. Roadway Surface Condition

- (1) Dry  
(2) Wet  
(3) Snow and slush  
(4) Ice  
(5) Sand, dirt or oil  
(8) Other (specify):  
(9) Unknown

## 34. Traffic Control Device

- (0) No traffic control(s)  
(1) Trafficway traffic control signal (not RR crossing)

*Regulatory or School Zone Sign (Not RR Crossing)*

- (2) Stop sign  
(3) Yield sign  
(4) School zone sign  
(5) Other sign (specify):  
  
(6) Unknown sign  
(7) Warning sign (not RR crossing)  
(8) Miscellaneous/other controls including RR controls (specify):  
  
(9) Unknown

## 35. Traffic Control Device Functioning

- (0) No traffic control  
(1) Not Functioning  
(2) Functioning  
(9) Unknown

## 36. Light Conditions

- (1) Daylight  
(2) Dark  
(3) Dark, but lighted  
(4) Dawn  
(5) Dusk  
(9) Unknown

## 37. Atmospheric Conditions

- (1) No adverse atmospheric related driving conditions  
(2) Rain  
(3) Sleet  
(4) Snow  
(5) Fog  
(6) Rain and fog  
(7) Sleet and fog  
(8) Other (e.g., smog, smoke, blowing sand or dust, etc.) (specify):  
(9) Unknown

① 82-623 P

Point of impact to final Rest 10.8 meters  
- 35.4 ft.

Perception Reaction time - 1 sec.

coefficient of friction  $f = 0.70$

$$S = vt + \frac{v^2}{2 + g}$$

$$S = 1v + \frac{v^2}{(2)(0.7)(32.2)}$$

$$35 = v + 0.022v^2$$

$$0.022v^2 + v - 35.4 = 0$$

$$A = 0.022$$

$$B = 1$$

$$C = 35.4$$

$$v = \frac{-b \pm \sqrt{b^2 - 4AC}}{2a}$$

$$\sqrt{1 \pm (4)(0.022)(35.4)}$$

② -2.035

$$v = \frac{-1 \pm 2.035}{(2)(0.022)}$$

$$v = \frac{1.035}{(0.044)} = 23.3 \text{ FPS} = \underline{15.9 \text{ mph}}$$






11

1. Primary Sampling Unit Number	<u>82</u>	3. Vehicle Number	<u>0 1</u>
2. Case Number - Stratum	<u>6 23 P</u>		

**VEHICLE IDENTIFICATION**

VIN 1G4AL54N8M  Model Year 91

Vehicle Make (specify): Buick Vehicle Model (specify): Century

**PEDESTRIAN FRONT CONTACT WORK SHEET**

PEV06 Hood Material	_____
PEV08 Hood Length	_____ cm
PEV09 Hood Width-Forward Opening	_____ cm
PEV10 Hood Width-Midway	_____ cm
PEV11 Hood Width-Rear Opening	_____ cm
PEV14 Front Bumper Cover Material	_____
PEV15 Front Bumper Reinforcement Material	_____

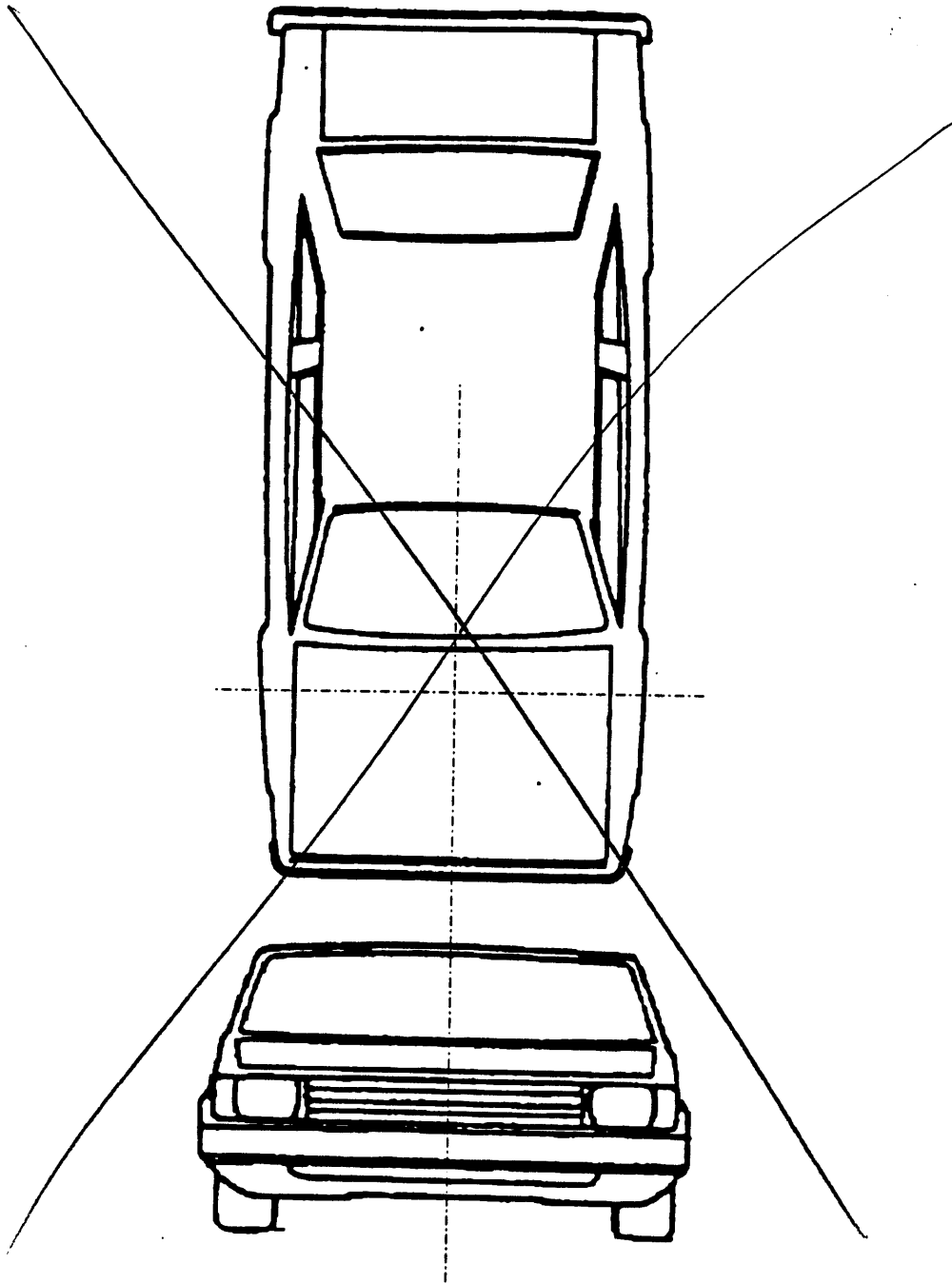
**VERTICAL MEASUREMENTS**

PEV16 Front Bumper-Bottom Height	_____ cm
PEV17 Front Bumper-Top Height	_____ cm
PEV18 Forward Hood Opening	_____ cm
PEV19 Front Bumper Lead	_____ cm

**WRAP DISTANCES**

PEV20 Ground to Forward Hood Opening	_____ cm
PEV21 Ground to Front/Top Transition Point	_____ cm
PEV22 Ground to Rear Hood Opening	_____ cm
PEV23 Ground to Base of Windshield	_____ cm
PEV24 Ground to Top of Windshield	_____ cm
PEV25 Ground to Head Contact	_____ cm

### VEHICLE DAMAGE SKETCH



**NOTES:** Sketch all pedestrian contacts, include the size and depth in centimeters. Locate the pedestrian contacts from the intercept point of the centerline (lateral) and the front axles (longitudinal) in centimeters. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewalk, etc.).

Location of the origin (intercept point of the centerline and the front axles) from the ground:

cm

## PEDESTRIAN SIDE CONTACT WORK SHEET

PEV06 Hood Material

Steel

PEV08 Hood Length

108

cm

PEV09 Hood Width-Forward Opening

142

cm

PEV10 Hood Width-Midway

145

cm

PEV11 Hood Width-Rear Opening

147

cm

## VERTICAL MEASUREMENTS

PEV26 Ground Clearance

022

cm

PEV27 Side Bumper-Bottom Height

005

cm

PEV28 Side Bumper-Top Height

005

cm

PEV29 Centerline of Wheel

029

cm

PEV30 Top of Tire

060

cm

PEV31 Top of Wheel Well Opening

065

cm

PEV32 Bottom of A-Pillar at Windshield

090

cm

PEV33 Top of A-Pillar at Windshield

129

cm

PEV34 Top of Side View Mirror

097

cm

## LATERAL MEASUREMENTS

PEV35 C<sub>L</sub> to A-Pillar at Bottom of Windshield075

cm

PEV36 C<sub>L</sub> to A-Pillar at Top of Windshield060

cm

PEV37 C<sub>L</sub> to Maximum Side View Mirror Protrusion092

cm

## WRAP DISTANCES

PEV38 Ground to Side/Top Transition

029

cm

PEV39 Ground to Hood Edge

092

cm

PEV40 Ground to Centerline of Hood (ORIGIN)

166

cm

PEV41 Ground to Head Contact

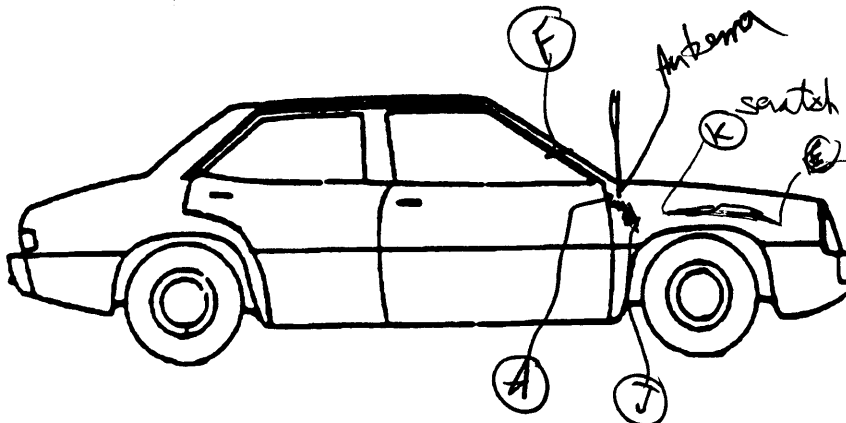
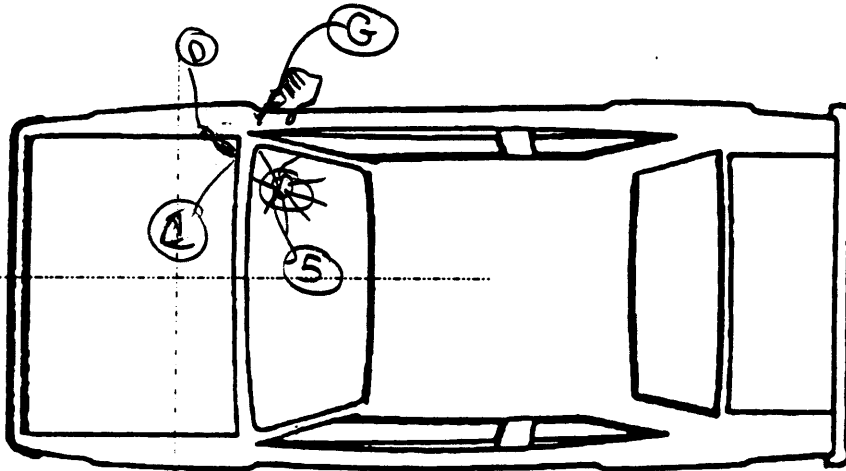
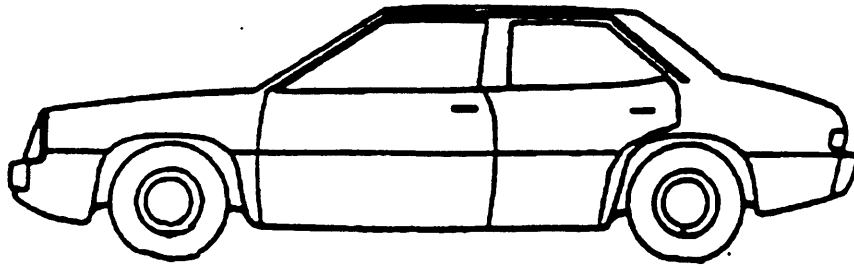
000

cm

# ORIGINAL SPECIFICATIONS

Wheelbase	<u>104.8</u>	inches x 2.54 =	<u>266</u> cm
Overall Length	<u>189.1</u>	inches x 2.54 =	<u>480</u> cm
Maximum Width	<u>69.4</u>	inches x 2.54 =	<u>176</u> cm
Curb Weight	<u>2,869</u>	pounds x .4536 =	<u>1,301</u> kg
Average Track	<u>57.7</u>	inches x 2.54 =	<u>147</u> cm
Front Overhang	_ _ _ . _	inches x 2.54 =	_ _ _ cm
Rear Overhang	_ _ _ . _	inches x 2.54 =	_ _ _ cm
Undeformed End Width	_ _ _ . _	inches x 2.54 =	_ _ _ cm
Engine Size: cyl./displ.	_ _ _ . _	cc x .001 =	_ . _ L
	_ _ _ . _	CID x .0164 =	_ . _ L

**VEHICLE DAMAGE SKETCH:**



82  
10P

	X	Y
E-47	80	80
K-10	82	82
C-47	69-73	69-73
D-27	75	75
A-46	79	79
J-38	85	85
F-70	83	83
G-62/79	89-90	89-90
S-67	52	52

Ground to Head Contact \_\_\_\_\_

NOTES: Sketch all pedestrian contacts, include the size and depth in centimeters. Locate the pedestrian contacts from the intercept point of the centerline (lateral) and the front axle (longitudinal) in centimeters. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewalls, etc.).

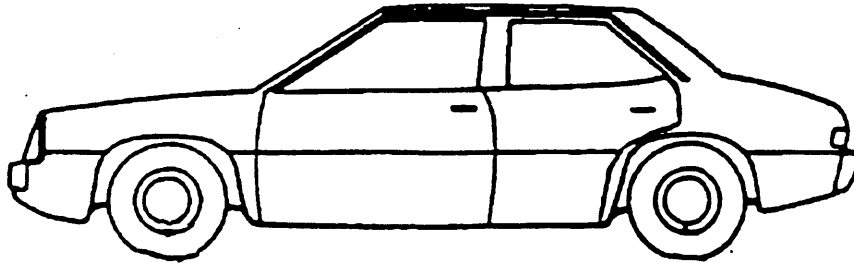
Location of the origin (intercept point of the centerline and the front axle) from the ground: 166 cm

VEHICLE DAMAGESKETCH

1G4AL54N8M [REDACTED]

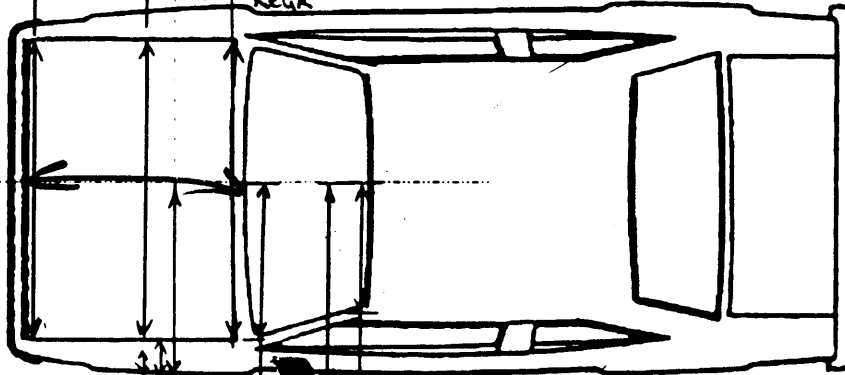
91 Buick Century

Hood Material Metal Steel



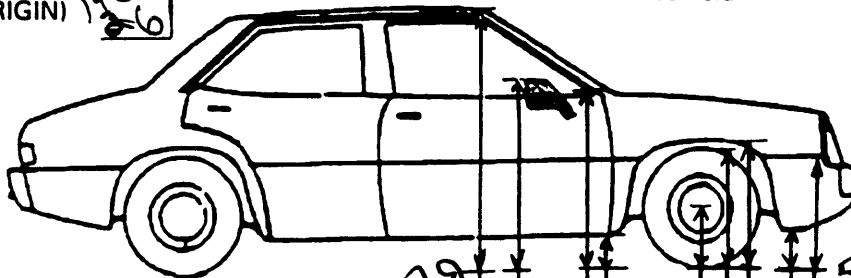
Hood Widths  
Forward 143  
Mid 145  
Rear 147

Hood Length  
Top



WRAPS  
Ground to Side/Top Transition 89  
Ground to Hood Edge 93  
Ground to Centerline of Hood (ORIGIN) 140

60 A-Pillar at Top of Windshield  
92 Maximum Side View Mirror Protrusion  
75 A-Pillar at Bottom of Windshield



Top of A-Pillar at Windshield 29  
Top of Side View Mirror 97  
Bottom of A-Pillar at Windshield 90  
Ground Clearance 22  
50 Side Bumper-Top  
41 Side Bumper-Bottom  
65 Top of Wheel Well  
60 Top of Tire  
29 Centerline of Wheel

NOTES: Sketch all pedestrian contacts, include the size and depth in centimeters. Locate the pedestrian contacts from the intercept point of the centerline (lateral) and the front axles (longitudinal) in centimeters. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewalks, etc.).

Location of the origin (intercept point of the centerline and the front axles) from the ground: \_\_\_\_\_ cm

**POINTS OF PEDESTRIAN CONTACT**

**LIST CONTACTS IN CHRONOLOGICAL ORDER**

CONTACT #	COMPONENT CONTACTED CODE	LONGITUDINAL LOCATION (X)	LATERAL LOCATION (Y)	CRUSH IN CENTIMETERS	SUSPECTED BODY REGION	SUPPORTING PHYSICAL EVIDENCE	CONFIDENCE LEVEL OF CONTACT POINT (Check)
1 E	740	47	80	Scratch	Hip	Scratched	(1) 2 3 9
2 K	740	-10	82	Scratch	Belt	Streak	(1) 2 3 9
3	741	-42		Bump	Hip	Bump over	(1) 2 3 9
4 C	770	-47	69-73	Scratched	Hip	Swirled Belt	(1) 2 3 9
5 D	770	-27	75	Scuffed	Hip	Smear	(1) 2 3 9
6 A	740	-46	79	Hip	Swirled	Swirled	(1) 2 3 9
7 J	740	-38	83	(L) Ribs	Scratch	Smear	(1) 2 3 9
8 S	775	-67	52	≤ 1	(2) Arm	Smudge/Spiderweb	(1) 2 3 9
9 G	752	-62(-79)	79-90	Poked back	(L) Side/Back	Burk/Smear	(1) 2 3 9
10 F	742	-70	73	Scratch	(L) Wrist	Jewelry/Watch	(1) 2 3 9

**CODES FOR COMPONENTS CONTACTED**

**FRONT**

- 700 Front bumper
- 701 Front Lower valance/spoiler
- 702 Front grille
- 703 Hood edge and/or trim
- 704 Hood ornament (fixed)
- 705 Hood ornament (spring loaded)
- 706 Headlight
- 707 Retractable headlight door (Open/Closed)
- 708 Turn signal/parking lights
- 718 Other front or add on object (specify): \_\_\_\_\_
- 719 Unknown front object

**Left Side Components**

- 720 Front fender side surface
- 721 Front antenna
- 722 A1 pillar
- 723 A2 pillar
- 724 B pillar
- 725 C pillar
- 728 D pillar
- 728 Other pillar (specify): \_\_\_\_\_
- 729 Left side roof rail
- 730 Left side door surface
- 731 Door handle
- 732 Left side mirror fixed housing
- 733 Left side folding mirror
- 734 Left side glazing forward of B pillar
- 735 Left side glazing rearward of B pillar
- 738 Left side back fender or quarter panel
- 737 Rear antenna
- 738 Other left side object (specify): \_\_\_\_\_
- 739 Unknown left side component

**Right Side Components**

- 740 Front fender side surface
- 741 Front antenna
- 742 A1 pillar

- 743 A2 pillar
- 744 B pillar
- 745 C pillar
- 748 D pillar
- 748 Other pillar (specify): \_\_\_\_\_
- 749 Right side roof rail
- 750 Right side door surface
- 751 Door handle
- 752 Right side mirror fixed housing
- 753 Right side folding mirror
- 754 Right side glazing forward of B pillar
- 755 Right side glazing rearward of B pillar
- 758 Rear antenna
- 757 Rear fender or quarter panel
- 758 Other right side object (specify): \_\_\_\_\_
- 759 Unknown right side component

**Back Components**

- 760 Rear (back) bumper
- 781 Tailgate
- 782 Hatchback, vertical surface
- 788 Other back component (specify): \_\_\_\_\_
- 789 Unknown back component

**Top Components**

- 770 Hood surface
- 771 Hood surface reinforced by underhood component
- 772 Front fender top surface
- 773 Cowl area
- 774 Wiper blade & mountings
- 775 Windshield glazing
- 778 Front header
- 777 Roof surface
- 778 Backlight glazing
- 779 Rear header
- 780 Hatchback
- 781 Rear trunk lid
- 788 Other top component (specify): \_\_\_\_\_
- 789 Unknown top component

**Wheels / tires**

- 790 Left front wheel/tire
- 791 Right front wheel/tire
- 792 Left rear wheel/tire
- 793 Right rear wheel/tire
- 798 Other wheel/tire (specify): \_\_\_\_\_
- 799 Unknown wheel/tire

**Undercarriage components**

- 800 Front crossmember
- 801 Steering assembly/Front suspension
- 802 Oil pan
- 803 Exhaust system pipe
- 804 Transmission
- 805 Drive shaft
- 808 Catalytic converter
- 807 Muffler
- 809 Floor pan
- 809 Fuel tank
- 810 Rear suspension
- 818 Other undercarriage component (specify): \_\_\_\_\_
- 819 Unknown undercarriage component

**Accessories**

- 820 Air scoop, deflector
- 821 Cellular or CB radio antenna
- 822 Emergency lights or bar
- 823 Fog lights
- 824 Luggage, ski, or bike rack
- 825 Cargo (specify): \_\_\_\_\_
- 828 Spare tire
- 827 Spotlight
- 828 Other accessory (specify): \_\_\_\_\_

**Other Object or Vehicle in Environment**

- 848 Other object in environment (specify): \_\_\_\_\_
- 848 Unknown object in environment
- 858 Unknown object on contacting vehicle
- 897 Noncontact injury source
- 898 Unknown injury source

**VEHICLE DIMENSIONS**

4. Original Wheelbase 266  
 \_\_\_\_\_ Code to the nearest centimeter  
 (999) Unknown

104.8 inches X 2.54 = \_\_\_\_\_ centimeters

5. Original Average Track Width 176  
 \_\_\_\_\_ Code to the nearest centimeter  
 (185) 185 centimeters or more  
 (999) Unknown

69.4 inches X 2.54 = \_\_\_\_\_ centimeters

6. Hood Material W  
 (1) Plastic  
 (2) Fiberglass  
 (3) Steel  
 (4) Aluminum  
 (5) Stainless Steel  
 (8) Other (specify): \_\_\_\_\_  
 (9) Unknown

7. Hood Original I  
 Equipment Manufacturer (OEM)  
 (1) OEM factory installed hood  
 (2) OEM replacement  
 (3) Non-OEM replacement  
 (9) Unknown

8. Hood Length 108  
 \_\_\_\_\_ Code to the nearest centimeter  
 (180) 180 centimeters or more  
 (999) Unknown

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeter

9. Hood Width Forward Opening 143  
 \_\_\_\_\_ Code to the nearest centimeter  
 (210) 210 centimeters or more  
 (999) Unknown

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

10. Hood Width Midway 145  
 \_\_\_\_\_ Code to the nearest centimeter  
 (210) 210 centimeters or more  
 (999) Unknown

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

11. Hood Width Rear Opening 147  
 \_\_\_\_\_ Code to the nearest centimeter  
 (210) 210 centimeters or more  
 (999) Unknown

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

12. Hood/Fender Vertical/Lateral Crush From Pedestrian 1  
 (0) Not damaged  
 (1) Surface scratching only, no residual crush  
 (2) Minor crush (1-3 centimeters)  
 (3) Moderate crush (4-7 centimeters)  
 (4) Severe crush (>7 centimeters)  
 (8) Damage present, unknown if damage is from pedestrian impact  
 (9) Unknown

13. Windshield Contact Damage From Pedestrian Contact 2  
 (0) Not contacted by pedestrian  
 (1) Contacted by pedestrian - not damaged  
 (2) Contacted by pedestrian - damaged  
 (3) Unknown if contacted by pedestrian - not damaged  
 (4) Unknown if contacted by pedestrian - damaged  
 (9) Unknown if contacted by pedestrian - unknown if damaged

**FRONT CONTACT DAMAGE**

**Front Vertical Measurements**

14. Front Bumper Cover Material 0  
 (0) No front contact  
 (1) Plastic  
 (2) Fiberglass  
 (3) Rubber  
 (4) Other (specify): \_\_\_\_\_  
 (9) Unknown

15. Front Bumper Reinforcement Material 0  
 (0) No front contact  
 (1) Steel  
 (2) Aluminum  
 (3) Stainless Steel  
 (4) Other (specify): \_\_\_\_\_  
 (9) Unknown

16. Front Bumper-Bottom Height 000  
 \_\_\_\_\_ Code to the nearest centimeter  
 (000) No front contact  
 (150) 150 centimeters or more  
 (999) Unknown

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters



17. Front Bumper-Top Height

- Code to the nearest centimeter
- (000) No front contact
- (150) 150 centimeters or more
- (999) Unknown

000

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

18. Forward Hood Opening

- Code to the nearest centimeter
- (000) No front contact
- (200) 200 centimeters or more
- (999) Unknown

000

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

19. Front Bumper Lead

- (00) No front contact
- Code to the nearest centimeter
- (30) 30 centimeters or more
- (99) Unknown

00

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

23. Ground to Base of Windshield

- Code to the nearest centimeter
- (000) No front contact
- (400) 400 centimeters or more
- (999) Unknown

000

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

24. Ground to Top of Windshield

- Code to the nearest centimeter
- (000) No front contact
- (500) 500 centimeters or more
- (999) Unknown

000

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

25. Ground To Head Contact

- Code to the nearest centimeter
- (000) No front contact
- (400) 400 centimeters or more
- (999) Unknown

000

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

**Front Wrap Distance Measurements**

20. Ground to Forward Hood Opening

- Code to the nearest centimeter
- (000) No front contact
- (200) 200 centimeters or more
- (999) Unknown

000

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

21. Ground to Front/Top Transition Point

- Code to the nearest centimeter
- (000) No front contact
- (180) 180 centimeters or more
- (999) Unknown

000

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

22. Ground to Rear Hood Opening

- Code to the nearest centimeter
- (000) No front contact
- (400) 400 centimeters or more
- (999) Unknown

000

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

**SIDE CONTACT DAMAGE**

**Side Vertical Measurements**

26. Ground Clearance

- Code to the nearest centimeter
- (000) No side contact
- (150) 150 centimeters or more
- (999) Unknown

022

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

27. Side Bumper-Bottom Height

- Code to the nearest centimeter
- (000) No side contact
- (150) 150 centimeters or more
- (999) Unknown

041

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

28. Side Bumper-Top Height

- Code to the nearest centimeter
- (000) No side contact
- (150) 150 centimeters or more
- (999) Unknown

050

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

29. Centerline of Wheel 029

- Code to the nearest centimeter
- (000) No side contact
- (150) 150 centimeters or more
- (999) Unknown

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

30. Top of Tire 060

- Code to the nearest centimeter
- (000) No side contact
- (200) 200 centimeters or more
- (999) Unknown

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

31. Top of Wheel Well Opening 065

- Code to the nearest centimeter
- (000) No side contact
- (250) 250 centimeters or more
- (999) Unknown

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

32. Bottom of A-Pillar at Windshield 090

- Code to the nearest centimeter
- (000) No side contact
- (250) 250 centimeters or more
- (999) Unknown

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

33. Top of A-Pillar at Windshield 129

- Code to the nearest centimeter
- (000) No side contact
- (300) 300 centimeters or more
- (999) Unknown

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

34. Top of Side View Mirror 097

- Code to the nearest centimeter
- (000) No side contact
- (300) 300 centimeters or more
- (999) Unknown

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

Side Lateral Measurements

35. Centerline to A-Pillar at Bottom of Windshield 075

- (000) No side contact
- Code to the nearest centimeter
- (250) 250 centimeters or more
- (999) Unknown

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

36. Centerline to A-Pillar at Top of Windshield 060

- Code to the nearest centimeter
- (000) No side contact
- (250) 250 centimeters or more
- (999) Unknown

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeter

37. Centerline to Maximum Side View Mirror Protrusion 092

- Code to the nearest centimeter
- (000) No side contact
- (300) 300 centimeters or more
- (999) Unknown

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeter

Side Wrap Distance Measurements

38. Ground to Side/Top Transition 089

- Code to the nearest centimeter
- (000) No side contact
- (400) 400 centimeters or more
- (999) Unknown

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

39. Ground to Hood Edge 093

- Code to the nearest centimeter
- (000) No side contact
- (500) 500 centimeters or more
- (999) Unknown

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

40. Ground to Centerline of Hood (Origin) 166

Code to the nearest centimeter

- (000) No side contact
- (700) 700 centimeters or more
- (999) Unknown

\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

998

41. Ground to Head Contact 000

Code to the nearest centimeter

- (000) No side contact
- (800) 800 centimeters or more
- (999) Unknown

(998) no head contact  
\_\_\_\_\_ inches X 2.54 = \_\_\_\_\_ centimeters

000

