



U.S. Department of Transportation

National Highway Traffic Safety Administration

Dear Crash Data Researchers/Users:

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

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

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

*** *** ***



TRANSPORTATION SCIENCES CENTER ACCIDENT RESEARCH GROUP

Division of Arvin/Calspan

CALSPAN ON-SITE AIR BAG NON-DEPLOYMENT INVESTIGATION CALSPAN CASE NO. 93-6 VEHICLE - POLICE 1991 CHEVROLET CAPRICE LOCATION - NY ACCIDENT DATE - 1993

Contract No. DTNH22-93-P-07222

Prepared for:

U.S. Department of Transportation National Highway Traffic Safety Administration Washington, D.C. 20590

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 are 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 REPORT STANDARD TITLE PAGE

1.	Report No. 93-6	2. Government Accession No.	3. Recipient's Catalog No.		
4.	Title and Subtitle Calspan On-Site Air Bag Non-Deployment Investigation Vehicle - Police 1991 Chevrolet Caprice Location - NY		5. Report Date: 1993		
			6. Performing Organization Code		
7.	Author(s) Accident Research Group		8. Performing Organization Report No.		
9. Performing Organization Name and Address Transportation Sciences Center Accident Research Group			10. Work Unit No.		
	Division of Arvin/Calspan		11. Contract or Grant No. DTNH22-93-P-07222		
12. Sponsoring Agency Name and Address U.S. Department of Transportation National Highway Traffic Safety Administration Washington, D.C. 20590		rtation	13. Type of Report and Period Covered Technical Report Accident Date 193		
			14. Sponsoring Agency Code		
ı					

15. Supplementary Notes

On-site investigation of a moderate frontal crash sequence that involved a police 1991 Chevrolet Caprice equipped with a driver's side air bag system. The vehicle sustained a 23 KPH (14 mph) ΔV , therefore, the air bag system did not deploy.

16. Abstract

This on-site investigation focused on a police 1991 Chevrolet Caprice that was equipped with a driver's side air bag Supplemental Inflatable Restraint (SIR) system. The vehicle was involved in an initial sideswipe type collision with a 1987 Chevrolet Celebrity station wagon following a pursuit that covered several miles of an urban roadway. The police vehicle was subsequently deflected to its left where it departed the roadway and impacted a 14cm (5.5") diameter pedestrian signal support pole. The center frontal area of the Chevrolet Caprice impacted the non-breakaway pole at a CRASHPC generated speed of 23 KPH (14 mph). As a result of the crash, the front bumper of the Caprice crushed to a maximum depth of 48cm (18.8") which yielded a CRASHPC generated velocity change of 23 KPH (14 mph). The velocity change was below the required threshold for deployment of the SIR and therefore, the system did not deploy.

The driver of the police vehicle was a 39 year old male with a height of 172.7cm (68") and weight of 70kg (155 lbs.). He was not wearing the manual 3-point lap and shoulder belt system. The driver responded to the 12 o'clock impact force from the pole impact sequence and impacted the steering wheel rim and the windshield header. As a result of the contacts, the driver sustained a contusion of the anterior scalp (AIS-1) and a whiplash injury of the neck (AIS-1). These injuries probably would have been prevented had the driver worn the manual 3-point belt system.

17. Key Words Supplemental Inflatable Restraint (SIR) Moderate frontal impact sequence ΔV of 23 KPH (14 mph) Non-deployment		18. Distribution Statement General Public		
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of thi Unclassified	s page)	21. No. of Pages 61	22. Price

TABLE OF CONTENTS

	Page No.
Summary	1
Selected Prints	4
Slide Index	15
Attachment A: Police Accident Report	16
Attachment B: CRASHPC Output	20
Attachment C: NASS Vehicle Forms	26
Attachment D: NASS Occupant Forms	51

CALSPAN ON-SITE AIR BAG NON-DEPLOYMENT INVESTIGATION CALSPAN CASE NO. 93-6 VEHICLE - POLICE 1991 CHEVROLET CAPRICE LOCATION (1991), NY

SUMMARY

This on-site investigation focused on a two vehicle crash with a subsequent impact with a pedestrian signal support pole. The crash occurred on a four-leg oblique intersection in NY, on 1993 during evening hours. The involved vehicles were a marked police 1991 Chevrolet Caprice and a 1987 Chevrolet Celebrity station wagon. The Chevrolet Caprice was equipped with a driver's side air bag Supplemental Inflatable Restraint (SIR) system. The vehicle's air bag system did not deploy as a result of a frontal impact sequence with the non-breakaway pedestrian signal support pole.

The Chevrolet Caprice was a factory equipped police vehicle with a 5.7 liter, V-8 engine and a four-speed automatic overdrive transmission. In addition to the standard police package equipment which included the emergency lights wiring harnesses, transmission and engine oil coolers, etc., the Chevrolet Caprice had anti-lock (ABS) brakes, power windows, and a six-way power driver's seat. The vehicle had been in service by the police department for approximately two years and had an odometer reading of 132,967km (82,588.1 miles). The Caprice was not involved in previous collisions and had no history of extensive mechanical repairs. The department has implemented a detailed routine maintenance program which has significantly reduced the frequency of major repairs (i.e., drive train components). The Caprice was manufactured during the components of the following vehicle identification number:

The 1991 Chevrolet Caprice was driven by a 39 year old male police officer with a stated height of 172.7cm (68") and weight of 69.8kg (155 lbs.). While on routine patrol, he initiated the pursuit of a 1987 Chevrolet Celebrity station wagon on a four lane urban roadway with moderate to heavy traffic flow. The officer stated that the initial pursuit involved speeds of approximately 96 KPH (60 mph), however, as they continued, speeds declined to a maximum of 64 KPH (40 mph). The driver of the Celebrity station wagon proceeded through red signal phases at four or five consecutive intersections. The officer stated that the driver of the Celebrity slowed and proceeded cautiously through the intersections. As they approached the four-leg oblique intersection, the driver of the Celebrity slowed and entered the intersection in the outboard curb lane and against a red signal phase. He initially intended to proceed straight through the intersection, however, as he began to cross the intersecting roadway, the driver of the Celebrity initiated a rapid left turn maneuver. The Chevrolet Caprice was directly behind and to the left of the Celebrity on the inboard travel lane as the vehicles entered the intersection. As the Celebrity initiated the left turn across the Caprice's path of travel, the police officer applied a full braking force and braced against the steering wheel for the impending crash. He stated that he felt the brake pedal pulsate as the anti-lock brakes activated prior to impact.

The right front corner area of the Chevrolet Caprice impacted the left side area of the Celebrity resulting in a sideswipe type collision. Direct contact damage on the Caprice began at the corner of the bumper facia and extended 23.5cm (9.25") inboard. The direct contact damage also extended on the right side surface of bumper facia and onto the right front fender ending at a point that was 32.4cm (12.75") rearward of the leading edge of the fender. The damage from the initial impact sequence with the Celebrity also extended vertically onto the leading edge of the hood. A small gouge was noted to the hood face that was located 10-15cm (4-6") inboard of the right edge. Although the subsequent pole impact deformed the entire frontal area of the Caprice, there was no residual crush to the bumper of the vehicle, therefore, the velocity change was minimal [\leq 8 KPH (5 mph)] and the SIR would not have deployed. The driver of the Caprice was not displaced or injured as a result of the vehicle-to-vehicle impact.

As a result of the crash, the Caprice was deflected in a counterclockwise direction toward the northeast quadrant of the intersection. The vehicle subsequently departed the roadway and mounted a 12.7cm (5") high barrier curb in a tracking mode. There was no damage to the vehicle from contact with the curb. The center frontal area of the Caprice impacted a 14cm (5.5") diameter pedestrian signal support pole that was located 14.2m (46'9") north of the NE tangent point of the intersection and 1.6m (5'3") outboard of the curbline. Impact speed was computed at 23 KPH (14 mph) by the damage and trajectory mode of the CRASHPC program.

The pole impact damage began on the bumper facia 5.7cm (2.25") right of center and extended 10.2cm (4") laterally to the right. The direct contact damage also extended vertically onto the hood face which began 7cm (2.75") right of center and extended 16cm (6.25") to the right. Maximum crush was 47.8cm (18.8") and was located on the bumper facia 20cm (7.75") right of center and was inboard of the right frame rail. Crush values at bumper level were as follows: $C_1 = 0$, $C_2 = 4.6$ cm (1.8"), $C_3 = 20$ cm (7.75"), $C_4 = 35.6$ cm (14.0"), $C_5 = 17.8$ cm (7.0"), $C_6 = 0$. The Caprice underwent a CRASHPC generated velocity change of 23 KPH (14 mph) as a result of the 12 o'clock direction of force impact. The small diameter non-breakaway pole was dented and deflected slightly by the impact. The impact induced deceleration was below the required threshold of 26 KPH (16 mph) necessary for deployment of the SIR.

The driver of the Chevrolet Caprice was not wearing the manual 3-point lap and shoulder belt system in the patrol vehicle due to the poor fit around his equipment belt and his frequent exits from the vehicle. The driver stated that he drove the vehicle with the seat track adjusted to a rearward position and the seat back set to a near vertical position. In addition, the driver used a lumbar support cushion to prevent aggravation of a previous lower back injury. At impact with the pedestrian signal support pole, the unrestrained driver attempted to brace against the steering wheel and initiated a forward trajectory and loaded the steering assembly with his chest. As a result of the thoracic loading, he deformed the upper rim 6.4mm (0.25") forward. There was no compression of the energy absorbing steering column. His attempted bracing action and subsequent contact with the steering wheel produced soreness across both posterior shoulder areas. His head continued forward and impacted the windshield header area which resulted in a contusion to the anterior scalp, directly above the hairline (AIS-1). The impact force and head contact also produced a minor whiplash to the lower cervical spine area (AIS-1). The driver stated that he had a history of neck and lower back injuries and that the crash aggravated both areas. He rebounded into the left front seat back where he came to rest.

The driver of the Caprice immediately exited the vehicle to check the condition of the driver of the Celebrity and to apprehend him. The driver was subsequently transported by ambulance to a local hospital where he was examined for injury and released. As a result of the crash, he missed one working day before reporting back to duty.

The front mounted discriminating crash sensors on the Caprice were visually inspected for damage. The sensors were found to be intact and free of damage and rotation from crash forces. The SIR diagnostic (DERM) were tested using the instrument panel mounted indicator lamp. Although the positive battery cable had been cut by emergency personnel at the crash scene, the cable was temporarily spliced to transmit power into the SIR. With the ignition switch turned to the run position, the SIR indicator lamp flashed a sequence of seven then remained out, indicating that the SIR system was operational. This sequence was repeated numerous times which yielded the same results.

The driver of the Chevrolet Caprice sustained minor injuries as a result of this moderate severity crush. These injuries could have been mitigated had the driver worn the manual 3-point lap and shoulder belt system.

SELECTED PRINTS



On-scene photograph of the Chevrolet Caprice at final rest



Pre-crash trajectory of the vehicles



Vehicle #2 initiates a left turn at the four-leg oblique intersection



Area of impact between the vehicles



Struck pedestrian signal support pole



Lookback view of the vehicle's trajectories



Frontal view of the Chevrolet Caprice



Pedestrian signal pole damage to the Caprice



Overhead view of the pole impact damage to the bumper and radiator support panel



Left front three-quarter view



Right front three-quarter view and initial impact damage to the right front corner area



Right side view



Right front air bag crash sensor mounted to the radiator support panel behind the headlamp assembly



Left front air bag crash sensor mounted to the radiator support panel behind the headlamp assembly



Overall view of the driver's seated position



Steering and air bag module assembly



Knee bolster, no evidence of contact



Driver's seat and manual 3-point lap and shoulder belt system (not worn)

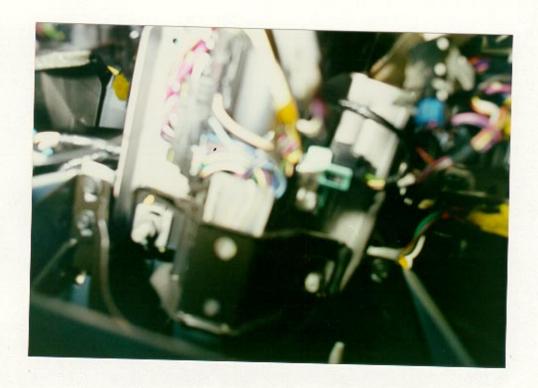




Perpendicular views across the interior of the Chevrolet Caprice



Perpendicular view of the steering wheel rim, 6.4mm (0.25") of upper rim displacement



Steering column shear capsules, no compression



SIR information label on left sunvisor

SLIDE INDEX

Slide No.	<u>Description</u>	
1,2	Pre-crash trajectories of the vehicles	
3	Celebrity initiates a rapid left turn at intersection	
4	Impact induced deflection of the Caprice	
5	Struck pedestrian signal support pole	
6	Frontal view of the Caprice	
7	Initial impact damage	
8	Overhead view of the pole impact damage	
9	Left front three-quarter view	
10,11	Perpendicular views showing the extent of frontal crush	
12	Left rear three-quarter view	
13	Right side view	
14	Right front three-quarter view	
15	Perpendicular view showing the extent of crush from the right front corner area	
16	Overall interior view	
17	Perpendicular view of the driver's seated position	
18	Perpendicular view of the steering wheel rim	
19	Flash sequence of the SIR indicator lamp	
20	Overall interior view from the right door area	









































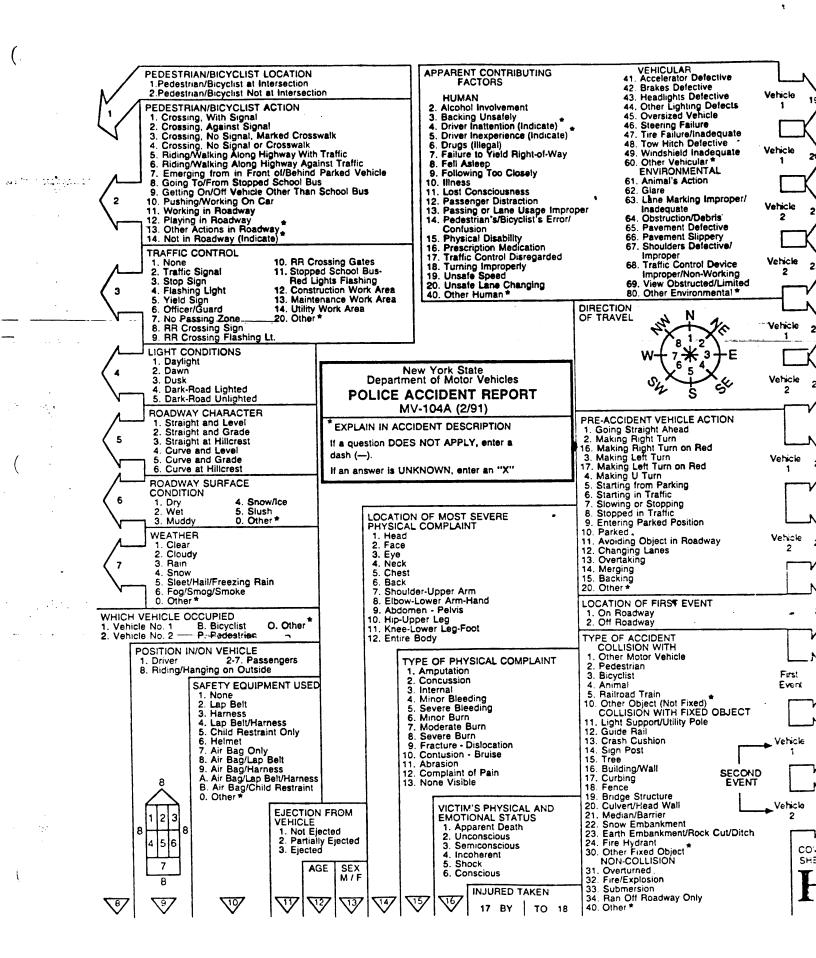
ATTACHMENT A

Police Accident Report

CHAIRS SUPPLEMENT NARRATIVE REPORT

CHIE NAME SAIME AT (B) HE	D SK -113	CHINA THE PART OF THE PARTY		Wa GENOUT	BUMPLANDY AUPU
COLLOW-UP	G PAGE	FORWARD COM	(CH (CO) (10 (N 2)	TO PHER-STATE	PEAA
				· · · · · ·	Lan
 vel			· ·		
whility in	gund pole,	low-land	Me the	Let	tet af
Di Culare	erian	3500-ALIA. C.	- r 1 - 1 1	e er bef	
to un five	1 resto b	eart I care	to w five	1 rest or	- Te Co
ing at the	A man Complete and	(0500	of the jul	etrection.	of w
	سا س		· · :	• • • • • • • • • • • • • • • • • • • •	•, .
Accid	Pune Info.	exchurren	were row	pterel.	
witne	15. Ofc. 5.	D. College		D	
	~ ~ ~	Mr. Com			•
1 -01	will Inve	-lorg fulue	wws. row	plorus or	سعس
and is a	Harvel to 1	his report			
1		williars Augus		Area.	
·			· · · · · · · · · · · · · · · · · · ·		
•		·			• • •
					•
		. •			•
	•			•	
	· · · · · · · · · · · · · · · · · · ·			·································	
	•				
	••••				•
·			• • • • • • • • • • • • • • • • • • • •		·
····				· · · · · · · · · · · · · · · · · · ·	•
•		•	•	•	
	•			•	
,	• .				•
pep.	APPROVAL	Sail 1	STATUS OF REPORT		
			1004	O	

Cover 6



ATTACHMENT B

CRASHPC Output (Damage and Trajectory Algorithm)

SUMMARY OF CRASHPC RESULTS USING DAMAGE

193-6

	SPEED CHANGE (DAMAGE)	IMPACT SPEED (DAMAGE AND SPINOUT)
/EHICLE #1		
TOTAL	23 KPH (14 MPH)	23 KPH (14 MPH)
LONGITUDINAL	-23 KPH (-14 MPH)	23 KPH (14 MPH)
LATITUDINAL	OKPH (OMPH)	O KPH (O MPH)
PDOF ANGLE	o DEGREES	
ENERGY DISSIPATED =	40341 JOULES (29750 FT-LB)	
VEHICLE #2		
TOTAL	OKPH (OMPH)	O KPH (O MPH)
LONGITUDINAL	O KPH (O MPH)	O KPH (O MPH)
LATITUDINAL	O KPH (O MPH)	O KPH (O MPH)
PDOF ANGLE	o DEGREES	
ENERGY DISSIPATED =	o Joules (O FT-LB)	

SCENE INFORMATION

	VEHICLE #1	VEHICLE #2
IMPACT X-POSITION	-2.5 M. (-8.3 FT.)	1.3 M. (4.2 FT.)
IMPACT Y-POSITION	2 M. (5 FT.)	.0 M. (.0 FT.)
IMPACT HEADING ANGLE	O DEGREES	180 DEGREES
REST X-POSITION	-2.1 M. (-6.9 FT.)	1.3 M. (4.2 FT.)
REST Y-POSITION	2 M. (5 FT.)	.0 M. (.0 FT.)
REST HEADING ANGLE	O DEGREES	180 DEGREES
SIDE-SLIP ANGLE	O DEGREES	O DEGREES
DIRECTION OF ROTATION	NONE	NONE
AMOUNT OF ROTATION	<360	<360

COLLISION AND SEPARATION

COLLISION	VEHICLE #1	VEHICLE #2
IMPACT X-POSITION	-2.5 M. (-8.3 FT.)	1.3 M. (4.2 FT.)
IMPACT Y-POSITION	2 M. (5 FT.)	.O M. (.O FT.)
IMPACT HEADING ANGLE	o DEGREES	180 DEGREES
SEPARATION (USING SPINOUT)		
US	1 KPH (O MPH)	O KPH (O MPH)
VS	O KPH (O MPH)	O KPH (O MPH)
PSISD .	O DEG/SEC	O DEG/SEC

DAMAGE DATA

VEHICLE #1

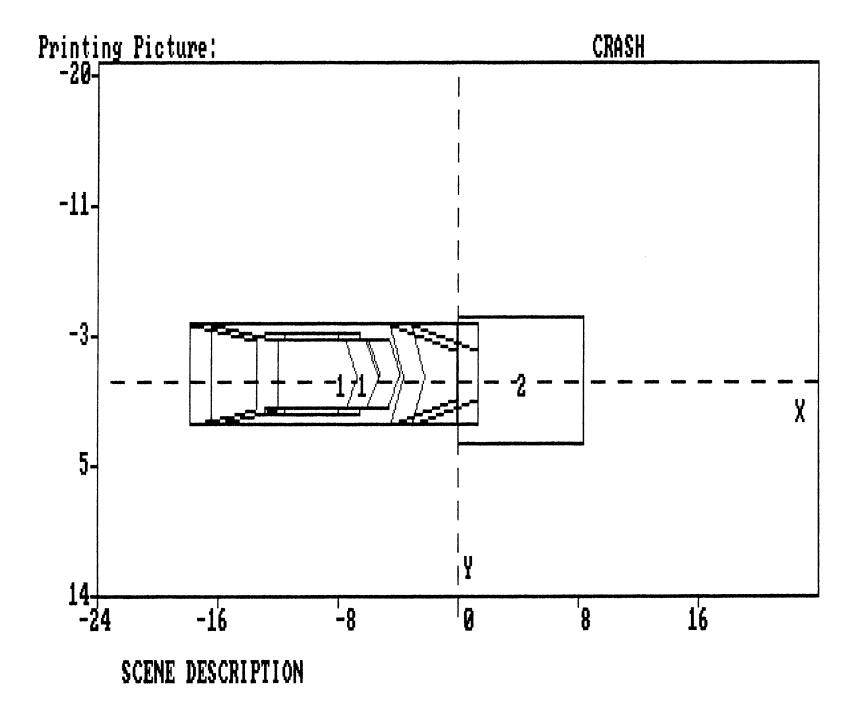
VEHICLE #2

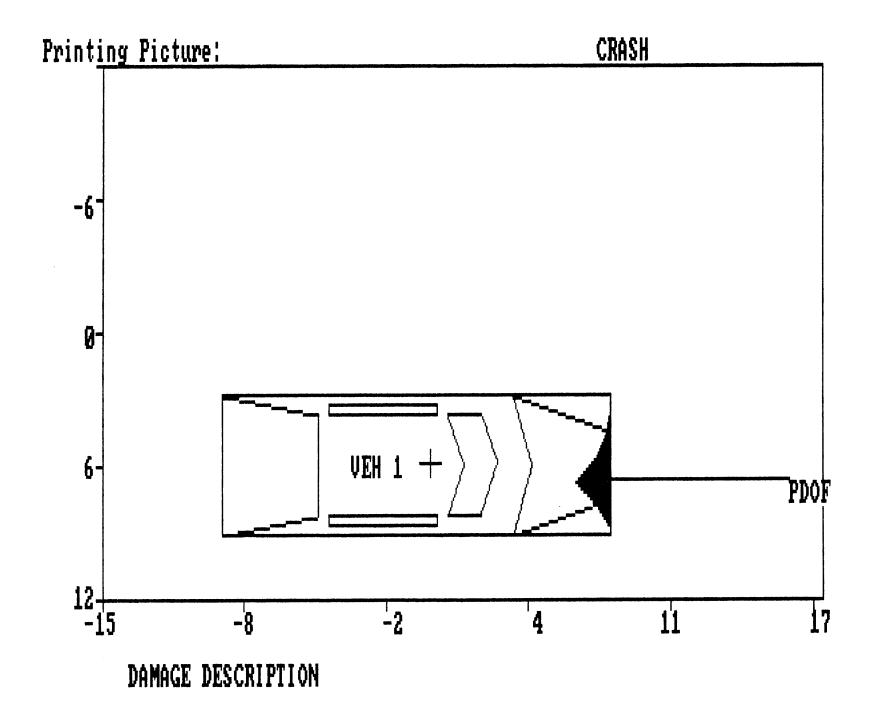
SIZE CATEGORY	4	1.1.
STIFFNESS CATEGORY	4	O
VEHICLE WEIGHT	1970 KGS (4342 LBS)	453600 K GS (1000000 LBS) *
CDC	12FCEN2	BARRIER
PDOF ANGLE	O DEGREES	O DEGREES *
ERUSH LENGTH	155 CM. (61 IN.)	O CM. (O IN.) *
□1	O CM. (O IN.)	0 CM. (0 IN.) *
C2	5 CM. (2 IN.)	O CM. (O IN.) *
C3	20 CM. (8 IN.)	O CM. (O IN.) *
C4	48 CM. (19 IN.)	O CM. (O IN.) *
C5	18 CM. (7 IN.)	O CM. (O IN.) *
€6	O CM. (O IN.)	O CM. (O IN.) *
D	10 CM. (4 IN.)	0 CM. (0 IN.) *
D.	21 CM. (8 IN.)	O CM. (O IN.) *

(* INDICATES DEFAULT VALUE)

DIMENSIONS AND INERTIAL PROPERTIES

	VEHICLE #1	VEHICLE #2
CG TO FRONT AXLE CG TO REAR AXLE TRACK CG TO FRONT OF VEH CG TO REAR OF VEH CG TO SIDE OF VEH MOMENT OF INERTIA VEHICLE MASS	139 CM. (55 IN.) 150 CM. (59 IN.) 157 CM. (62 IN.) 251 CM. (99 IN.) -290 CM. (-114 IN.) 98 CM. (39 IN.) 19158 KGS (42235 LBS) 5 KGS (11 LBS)	127 CM. (50 IN.) -127 CM. (50 IN.) 127 CM. (50 IN.) 127 CM. (50 IN.) ***** KGS (****** LBS) 1179 KGS (2600 LBS)
ROLLING RESISTANCE LEFT FRONT WHEEL RIGHT FRONT WHEEL LEFT REAR WHEEL RIGHT REAR WHEEL	1.00 1.00 1.00 1.00	.00 .00 .00 .00





ATTACHMENT C

NASS Vehicle Forms

(000) No statutory limit Code posted or statutory speed limit Code posted or statutory speed limit In kph (999) Unknown 7. Body Type Note: Applicable codes may be found on the back of this page. 8. Vehicle Identification Number I G I B L 5 3 7 9 M W 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 10. Police Reported Travel Speed 9 9 9 10. Police Reported Travel Speed 10. Police Reported T	LS. Department of Transportation ational Highway Traffic Safety dministration GENERAL VE	HICLE FORM NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM
APRICE (POLICE) Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown 7. Body Type Note: Applicable codes may be found on the back of this page. 8. Vehicle Identification Number Left justify; Slash zeros and letter Z (Ø and Z) No VIN—Code all zeros Unknown—Code all nine's OFFICIAL RECORDS 9. Police Reported Vehicle Disposition (0) No towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown 10. Police Reported Travel Speed 13. Speed Limit (000) No statutory limit Code posted or statutory speed limit in kph (999) Unknown 3. 5 mph X 1.6093 = kph 14. Attempted Avoidance Maneuver (00) No impact (01) No avoidance actions (02) Braking (lockup) (03) Braking (lockup) (04) Braking (lockup) (05) Releasing brakes (06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering left (10) Accelerating (11) Accelerating (11) Accelerating and steering right (10) Accelerating and steering right (11) Accelerating (12) Accelerating (13) Accelerating (13) Accelerating (14) Accelerating (15) Accelerating (16) Accelerating (17) No driver present (18) Other action (specify): (19) Unknown	2. Case Number - Stratum 9 3 0 6 3. Vehicle Number 0 1 VEHICLE IDENTIFICATION 4. Vehicle Model Year 9 1 Code the last two digits of the model year (99) Unknown 5. Vehicle Make (specify): 2 0 CHEUROLET Applicable codes are found in your NASS Data Collection, Coding and Editing Manual.	(0) No alcohol present (1) Yes (alcohol present) (7) Not reported (8) No driver present (9) Unknown 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
Note: Applicable codes may be found on the back of this page. 8. Vehicle Identification Number 1 G 1 B L 5 3 7 9 M W 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 10. Police Reported Travel Speed 14. Attempted Avoidance Maneuver (00) No impact (01) No avoidance actions (02) Braking (lockup) ABS Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering right (08) Braking and steering left (10) Accelerating (11) Accelerating and steering right (12) Accelerating and steering right (12) Accelerating and steering right (12) Accelerating (12) Accelerating and steering right (13) No driver present (14) Provided to the provided that the provide	CAPRICE (POLICE) Applicable codes are found in your NASS Data Collection, Coding and Editing Manual.	13. Speed Limit (000) No statutory limit Code posted or statutory speed limit in kph
9. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown (0) Police Reported Travel Speed (11) Accelerating and steering left (12) Accelerating and steering right (97) No driver present (98) Other action (specify): (99) Unknown 15. Accident Type Applicable codes may be found on the	Note: Applicable codes may be found on the back of this page. 8. Vehicle Identification Number 1 G 1 B L 5 3 7 9 M W —————————————————————————————————	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
Code to the nearest kph (NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above (00) No impact Code the number of the diagram that best describes the accident circumstance	9. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown 10. Police Reported Travel Speed 9 9 Code to the nearest kph (NOTE: 000 means less than 0.5 kph)	(11) Accelerating and steering left (12) Accelerating and steering right (97) No driver present (98) Other action (specify): (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

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

(99) Unknown

105

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

	OCCUPANT RELATED	24. Ro	llovor	<u> </u>
16.	Driver Presence in Vehicle (0) Driver not present		No rollover (no overturning)	<u>U</u>
	(1) Driver present (9) Unknown	(1)	Ilover (primarily about the longitudinal axis) Rollover, 1 quarter turn only Rollover, 2 quarter turns	
17.	Number of Occupants This Vehicle (00-96) Code actual number of occupants for this vehicle	(3)	Rollover, 3 quarter turns Rollover, 4 or more quarter turns (specify)	:
	(97) 97 or more (99) Unknown		Rolloverend-over-end (i.e., primarily about the lateral axis) Rollover (overturn), details unknown	
18.	Number of Occupant Forms SubmittedO(- 1
	VEHICLE WEIGHT ITEMS	UV	'ERRIDE/UNDERRIDE (THIS VEHICLE	=)
	Vehicle Curb Weight (242 Code weight to nearest 10 kilograms.		ont Override/Underride (this Vehicle)	0
	(045) Less than 450 kilograms (610) 6,100 kilograms or more		ar Override/Underride (this Vehicle)	0
	(999) Unknown 4,042 lbs X .4536 = 1,819 kgs	(0)	No override/underride, or not an end-to-end impact	
	Source:		verride (see specific CDC)	
			2nd CDC	
20.	Vehicle Cargo Weight Code weight to nearest 10 kilograms.	(3)	Other not automated CDC (specify):	
	(000) Less than 5 kilograms (450) 4,500 kilograms or more	(4)	nderride (see specific CDC) 1 st CDC	
	(999) Unknown		2nd CDC Other not automated CDC (specify):	
21.	RECONSTRUCTION DATA Towed Trailing Unit		Medium/heavy truck or bus override Unknown	
	(0) No towed unit (1) Yes—towed trailing unit			
	(9) Unknown		HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V	
22.	Documentation of Trajectory Data for This Vehicle	Va	alues: (000)-(359) Code actual value (997) Noncollision	
	(0) No (1) Yes		(998) Impact with object (999) Unknown	
23.	Post Collision Condition of Tree or Pole	27. He	eading Angle For This Vehicle	
	(For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole	28. He	eading Angle For Other Vehicle	
·	 (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			

20. Paris for Total Poles V (bishess)	Secondary Highest
29. Basis for Total Delta V (highest) 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	Secondary Highest 32. Lateral Component of Delta V O _O _O Nearest kph (NOTE:000 means greater than
technique, regardless of adequacy of damage data. (6) All vehicle 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 O 2 3	34. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable
Nearest kph (NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above (999) Unknown	35. Type of Vehicle Inspection (0) No inspection (1) Complete inspection (2) Partial inspection (specify):
31. Longitudinal Component of Delta V O_ 2_ 3	36. Is this an AOPS Vehicle? (0) No (1) Yes - researcher determined (2) VIN determined air bag system (3) VIN determined automatic (passive) belts (4) VIN determined air bag and automatic (passive) belts
IS OLDMISS APPLICABLE FOR THE SECOND	THIS VEHICLE? [] YES [INO AM SUMMARY INCLUDED? [] YES [] NO

37.	Police Reported Other Drug Presence (0) No other drugs present (1) Yes (other drug present)	DRUG EVALUATION CLASSIFICATION OTHER DRUGS TEST RESULTS FOR DRIVER
	(7) Not reported (8) No driver present (9) Unknown	DEC Specimen Test Test Results Results Narcotic Drug 40. 0 41. 0 Depressant Drug 42. 0 43. 0
38.	Police Reported Drug Evaluation Classification O(DEC) Test For Driver (0) No DEC process available or given (1) DEC process given, results known (2) DEC process given, results unknown (3) DEC process available, unknown if given (8) No driver present	Stimulant Drug 44. 0 45. 0 Hallucinogen Drug 46. 0 47. 0 Cannabinoid Drug 48. 6 49. 0 Phencyclidine (PCP) 50. 0 51. 0 Inhalant Drug 52. 0 53. 0 Other Drug (Excluding 54. 0 55. 0 Nicotine, Aspirin, Alcohol, Drugs Administered Post-Crash)
39.	Other Drug Specimen Test Type For Driver (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	(0) No DEC test given (1) Passed DEC test (2) Failed DEC test (3) DEC test given—results unknown (8) No driver present (9) Unknown if DEC test given Codes for Specimen Test Results (0) No specimen test given (1) Drug not found in specimen (2) Drug found in specimen (7) Specimen test given, results unknown or not obtained (8) No driver present (9) Unknown if specimen test given

OTHER DATA	61. Rollover Initiation Object Contacted
56. Driver's Zip Code	
(0000) Driver not present (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code	62. Location on Vehicle Where Initial Principal Tripping Force Is Applied
(99999) Unknown	(0) No rollover (1) Wheels/tires (2) Side plane
57. Driver's Race/Ethnic Origin (0) Driver not present (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic)	(3) End plane (4) Undercarriage (5) Other location on vehicle (specify): (8) Non-contact rollover forces (specify):
 (3) Write (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (8) Other (specify): 	(9) Unknown
	63. Direction of Initial Roll
(9) Unknown 58. Vehicle Special Use (This Trip) 5	(0) No rollover(1) Roll right - primarily about the longitudinal axis(2) Roll left - primarily about the longitudinal axis
(0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus	(5) End-over-end (i.e., primarily about the lateral axis) (9) Unknown roll direction
(3) Vehicle used as other bus (4) Military (5) Police	
(6) Ambulance	DDECDACH DATA
(7) Fire truck or car (8) Other (specify):	PRECRASH DATA
(9) Unknown	64. Pre-Event Movement (Prior to Recognition of Critical Event)
ROLLOVER DATA	(01) Going straight
If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.	 (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle
59. Rollover Initiation Type (0) No rollover	(06) Disabled or parked in travel lane (07) Leaving a parking position
(1) Trip-over	(08) Entering a parking position (09) Turning right
(2) Flip-over (3) Turn-over	(10) Turning left
(4) Climb-over	(11) Making a U-turn (12) Backing up (other than for parking position)
(5) Fall-over (6) Bounce-over	(13) Negotiating a curve
(7) Collision with another vehicle	(14) Changing lanes (15) Merging
(8) Other rollover initiation type specify):	(16) Successful avoidance maneuver to a previous
(9) Unknown rollover initiation type	critical event (97) Other (specify): PURSOIT OF VEHICLE 2
60. Location of Rollover Initiation	(98) No driver present (99) Unknown
 (0) No rollover (1) On roadway (2) On shoulder—paved (3) On shoulder—unpaved (4) On roadside or divided trafficway median (9) Unknown 	

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover (57) Fence (01-30) - Vehicle Number (58) Wall (59) Building Noncollision (60) Ditch or culvert (31) Turn-over — fall-over (61) Ground (33) Jackknife (62) Fire hydrant (63) Curb Collision With Fixed Object (64) Bridge (41) Tree (≤ 10 cm in diameter) (68) Other fixed object (specify): (42) Tree (> 10 cm in diameter) (43) Shrubbery or bush (69) Unknown fixed object (44) Embankment Collision with Nonfixed Object (45) Breakaway pole or post (any diameter) (71) Motor vehicle not in-transport (76) Animal Nonbreakaway Pole or Post (77) Train (50) Pole or post (≤ 10 cm in diameter) (78) Trailer, disconnected in transport (51) Pole or post (> 10 cm but \leq 30 cm in (88) Other nonfixed object (specify): diameter) (52) Pole or post (> 30 cm in diameter) (89) Unknown nonfixed object (53) Pole or post (diameter unknown) (98) Other event (specify): (54) Concrete traffic barrier (55) Impact attenuator (99) Unknown event or object (56) Other traffic barrier (includes guardrail) (specify):

	PRECRASH DA	TA (Continued)
65.	Critical Precrash Event 60	Pedestrian or Pedalcyclist, or Other Nonmotorist
00.	Ontical Freciasif Event	(80) Pedestrian in roadway
This	Vehicle Loss of Control Due To:	(81) Pedestrian approaching roadway
	Blow out or flat tire	(82) Pedestrian - unknown location
	Stalled engine	(83) Pedalcyclist or other nonmotorist in roadway
(03)	Disabling vehicle failure (e.g., wheel fell off)	(specify):
	(specify):	(84) Pedalcyclist or other nonmotorist approaching
(04)	Non-disabling vehicle problem (e.g., hood flew	roadway (specify):
(05)	up) (specify): Poor road conditions (puddle, pot hole, ice, etc.)	(85) Pedalcyclist or other nonmotorist—unknown location (specify):
(03)	(specify):	location (specify).
(06)	Traveling too fast for conditions	Object or Animal
	Other cause of control loss (specify):	(87) Animal in roadway
		(88) Animal approaching roadway
(09)	Unknown cause of control loss	(89) Animal—unknown location
· 	Makiala Tanadia	(90) Object in roadway
	Vehicle Traveling Over the lane line on left side of travel lane	(91) Object approaching roadway
	Over the lane line on right side of travel lane	(92) Object—unknown location
	Off the edge of the road on the left side	(98) Other critical precrash event (specify):
	Off the edge of the road on the right side	(00) Other chical proclash event (specify).
	End departure	(99) Unknown
	Turning left at intersection	
(16)	Turning right at intersection	
	Crossing over (passing through) intersection	For Corrective Actions Attempted see variable GV14
(19)	Unknown travel direction	(Attemped Avoidance Manuever)
Othe	er Motor Vehicle In Lane	
	Stopped	CO Describe Otal Up. Article A state of Marie 1
	Traveling in same direction with lower speed	66. Precrash Stability After Avoidance Maneuver
, ,	(i.e., lower steady speed or decelerating)	(0) No avoidance maneuver
	Traveling in same direction with higher speed	(1) Tracking
	Traveling in opposite direction	(2) Skidding longitudinally—rotation less than 30 degrees
	In crossover	(3) Skidding laterally—clockwise rotation
	Backing Unknown travel direction of other motor vehicle	(4) Skidding laterally—counterclockwise rotation
(59)	in lane	(7) Other vehicle loss-of-control (specify):
	iii iane	(7) Canal Valuate lade of Control (opposity)
Othe	er Motor Vehicle Encroaching Into Lane	(8) No driver present
	From adjacent lane (same direction) - over left	(9) Precrash stability unknown
	lane line	·
(61)	From adjacent lane (same direction)—over right	
(62)	lane line	67. Precrash Directional Consequences of
	From opposite direction—over left lane line From opposite direction—over right lane line	Avoidance Maneuver (Corrective Action)
	From parking lane	(0) No avoidance maneuver
	From crossing street, turning into same	(1) Vehicle stayed in travel lane where avoidance
	direction	maneuver was initiated
	From crossing street, across path	(2) Vehicle stayed on roadway but left travel lane
(67)	From crossing street, turning into opposite	where avoidance maneuver was initiated
4001	direction	(3) Vehicle stayed on roadway, not known if left
(68)	From crossing street, intended path not known	travel lane where avoidance maneuver was
	From driveway, turning into same direction From driveway, across path	initiated
	From driveway, across path From driveway, turning into opposite direction	(4) Vehicle departed roadway
	From driveway, intended path not known	(5) Avoidance maneuver initiated off roadway (8) No driver present
	From entrance to limited access highway	(9) Directional consequences unknown
	Encroachment by other vehicle—details	10/ Directional consequences unixiown
	unknown	
	*** IF THE CDS APPLICABLE VEHICLE W	AS 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.

U.S. Department of Transportation

National Highway Traffic Safety

NATIONAL ACCIDENT SAMPLING SYSTEM

Administration			EA	IENIUN	VENI	OLE F	ONIVI		CRASH	WORTHIN	SS DATA	SYSTEM
1Primar	ry Sampling L	Jnit Nur	mbor		_ 3.	Vehicle	Numbe	er				<u> </u>
2. Case i	Number - Str	atum-	_9_	3-06	2							
			\	VEHICLE II	DENTI	FICATI	ON					
VIN	GIB	<u>L</u> 5	3 7	9 M	<u>~</u>				_	Model Y	ear <u>9</u>	
Vehicle Ma	ake (specify):	CHEU	POLET			Vehicle	Model (s	pecify):	CAPI	وردو		
				LO	CATO	R						
	e end of the d amaged axle			ct to the veh	icle long	gitudinal	center	line or b	umper o	corner fo	or end in	npacts
Specific I	mpact No.		Location	of Direct Da				Lo	cation	of Field	L	
l		FRONT	RUMPER FAC	STARTS	& RF C 9.25"	ORVER, TO LEFT		NA				
- 3		FROUT	BUMPER (3ECWS 2.75	5"(B) 01			MIQIH	OF B	UMPER	51	.0"
		CENTE	, , , , , , , , , , , , , , , , , , , ,	S 4" TO 6								
			CRU	SH PROFII	LE IN (CENTIN	/IETER	S				
	dentify the pail, etc.) and					e taken	(e.g., at	bumpe	r, above	bumpe	r, at sill,	, above
	Measure and	docume	ent on the v	vehicle diagr	am the	location	of max	imum c	rush.			
	Measure C1 t	to C6 fr	om driver t	o passenger	side in	front or	rear im	pacts ar	nd rear t	o front	in side	
1	Free space va	alue is c	defined as t	he distance	betwee	n the ba	seline a	nd the o	original	bodv co	ntour ta	ıken at
t	the individual side taper, et	C locat	tions. This	may include	the fol	lowing:	bumper	lead, b	umper t			
:	•								Ji dom.			
Specific	Use as many		Direct E		describ	e each o	Jamage	profile.				
Impact Number	Plane of In C-Measurer		Width (CDC)	Max Crush	Field L	C ₁	C ₂	C₃	C₄	C ₅	C _e	±D
2	FRONT OU	MPER	4"	19.1"	SI.º	2.125	3.9	8.35	14.0	8.25	4.5	+4.25
	FREE- SPACE			0.3"		5.635		0.5		1.8	5.692	
2_	eesioual 4	इय्डम	ᅩ	18.8	51.0	0	1.8"	2.75°	14.0	2.0	0	44.25
												
		· · ·										
	<u> </u>											
												ļ

ORIGINAL SPECIFICATIONS WORK SHEET

Wheelbase		115.9	inches	x	2.54	=	2 9 4 cm
Overall Length		214.1	inches	x	2.54	=	<u>5 4 4</u> cm
Maximum Width		_0_7_7.0	inches	x	2.54	=	<u> 1 9 6</u> cm
Curb Weight	0	4,042	pounds	X	.4536	=	<u>1,833</u> kg
Average Track		<u>61.3</u>	inches	x	2.54	=	<u> 1 5 6</u> cm
Front Overhang			inches	X	2.54	=	cm
Rear Overhang			inches	X	2.54	=	cm
Undeformed End Width		061.0	inches	X	2.54	=	<u> </u>
Engine Size: cyl./dis	pl.	5700	СС	X	.001	=	<u>5.7</u> L
		350	CID	X	.0164	=	<u>5</u> . <u>7</u> L

	VEHICLE DAMAGE SI	KETCH	
TIRE—WHEEL DAMAGE a. Rotation physically b. Tire restricted deflated RF 2 RF 2 LF 2 LF 2 LR 2 LR 2 LR 2 LR 2	Overall Length Maximum Width Curb Weight	294 cm 544 cm 196 cm 833 kg (56 cm cm cm	WHEEL STEER ANGLES (For locked front wheels or displaced rear axles only) RF ± o LF ± o RR ± o LR ± o Within ± 5 degrees DRIVE WHEELS DRIVE WHEELS FWD X RWD 4WD Approximate SO LS POLICE Cargo Weight 67.5 kg
	MEASUREMENTS IN CENTI	IMETERS	
IMPACT # 1	POLE IMPACT DAMAGE 1 56.0" CORNER 39.9" STAND 42.0	US 25	51.5 CORNER 56.5 STAND
₹— 51.0°—	CORVER SLIS STAND SES	115.0	IMPACT #1
NOTES: Sketch new perimeter and cross hat in reconstructing the accident (e.g., damage received on the back of this	grass in tire bead, direction of striations, so	cuff on sidewalls, etc.). If	

	C	DC WO	RKSHEE				
	CODES	FOR OBJ	ECT CONT	TACTED			
(01-30) — Vehicle N	umber		• -) Fence) Wall			,
Noncollision	rollover			Building Ditch or o	nulvort		
(31) Overturn — (32) Fire or explos			-) Ground	suivert		
(33) Jackknife	nit damage (specify):) Fire hydra) Curb	ant		
·		,	(64) Bridge			
(35) Noncollision (38) Other nonco) Other fixe) Unknown			
(39) Noncollision	- details unknown				_		•
Collision With Fixed	Ohiect			on with No) Motor ve			
(41) Tree (≤ 10 ·	cm in diameter)		(72) Pedestria	n		
(42) Tree (> 10 (43) Shrubbery of) Cyclist or Other no:		r conveyanc	e
(44) Embankmen							
(45) Breakaway r	oole or post (any diamet	ter)) Vehicle o) Animal	occupant		
				Train		l in transpor	- +
Nonbreakaway Pole (50) Pole or post	or Post (≤ 10 cm in diameter)					d in transpor ct (specify):	
(51) Pole or post	(> 10 cm but ≤ 30 cm	m in	(89) Unknown nonfixed object				
	(> 30 cm in diameter)						
(53) Pole or post	(diameter unknown)		(98) Other event (specify):				
(54) Concrete tra			(99) Unknowi	n event or c	bject	
(55) Impact atter (56) Other traffic	iuator barrier (includes guardi	rail)					
(specify):							alle a
	DEFORMATION (CLASSIFIC	CATION B	Y EVENT N	UMBER		
Accident Event Sequence Object Number Contacted	of Force Val		(3) eformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
01 02	360 0	20	<u>_</u> E	R	<u> </u>	E	02
02 51	360 0	2_0_	F		ϵ	<u>~</u>	02
				-			

	C	COLLISION	DEFORMA	TION CLAS	SIFICATIO	N			
HIGHEST D	ELTA "V"								
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent		
4. <u>0</u> <u>2</u>	5. <u>5</u> 1	6. 1 2	7. <u> </u>	8. <u>C</u>	9. <u> € </u>	10. <u>시</u>	11. 0 2		
Second Hig	Second Highest Delta "V"								
12. <u>0</u> <u>l</u>	13. <u>0</u> <u>l</u>	14. <u>(</u> 2	15. <u>F</u>	16. <u>R</u>	17. <u>E</u>	18. <u>E</u>	19. 0 2		
		CRUS	SH PROFILE	IN CENTIM	ETERS				
	The crush profile for the damage described in the CDC(s) above should be documented in the appropriate space below. (ALL MEASUREMENTS ARE IN CENTIMETERS.)								
HIGHEST I	HIGHEST DELTA "V"								
20. L	21. 		C ₃		C ₅	C ₆	22. 		
130	000	005	<u>020</u>	036	018 (000	<u>-</u> 017		
Second Hi	ghest Delta "V	/ H							
23. L	24. 			C ₄	C ₆	C ₆	25. 		
						- 	+ 		
			-						
	Cs Documented Coded on The ted File?		Researcher's As of Vehicle Dispo (0) Not towed of vehicle dam (1) Towed due vehicle dam (9) Unknown	osition (due to age to	-	al Wheelbase _Code to the nearest centim Unknown	<u>294</u> eter		
				712	<u>9</u> inches X 2	.54 = <u>2 9 4</u>	_ centimeters		

In of Fire Ito fire /ehicle exterior (front, side, back, top) Exhaust system Fuel tank (and other fuel retention System parts) Engine compartment Cargo/trunk compartment Passenger compartment area Other location (specify): Unknown In of Fuel Tank No fuel tank (electrical vehicle) Metallic Non-metallic Unknown
e of Fuel Tank No fuel tank (electrical vehicle) Metallic Non-metallic
No fuel tank (electrical vehicle) Metallic Non-metallic
TOWED AND WAS NOT AN AOPS ** LETE THE INTERIOR VEHICLE FORM.



U.S. Department of Transportation

National Highway Traffic Safety Administration

INTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

	GLAZING
1 - Primary Sampling Unit Number	Glazing Damage from Impact Forces
2. Case Number - Stratum 9306	15. WS <u>O</u> 16. LF <u>O</u> 17. RF <u>O</u> 18. LR <u>O</u> 19. RR <u>O</u>
3. Vehicle Number	20. BL <u>O</u> 21. Roof <u>8</u> 22. Other <u>8</u>
INTEGRITY	
4. Passenger Compartment Integrity (00) No integrity loss	 (0) No glazing damage from impact forces (2) Glazing in place and cracked from impact forces (3) Glazing in place and holed from impact forces (4) Glazing out-of-place (cracked or not) and not holed from impact forces
Yes, Integrity Was Lost Through (O1) Windshield (O2) Door (side) (O3) Door/hatch (back door) (O4) Roof (O5) Roof glass	(5) Glazing out-of-place and holed from impact forces (6) Glazing disintegrated from impact forces (7) Glazing removed prior to accident (8) No glazing (9) Unknown if damaged
(06) Side window	
(07) Rear window (backlight) (08) Roof and roof glass	Glazing Damage from Occupant Contact
(09) Windshield and door (side) (10) Windshield and roof	23. WS <u>O</u> 24. LF <u>O</u> 25. RF <u>O</u> 26. LR <u>O</u> 27. RR <u>O</u>
(11) Side and rear window (side window and backlight) (12) Windshield and side window	28. BL_O 29. Roof O 30. Other O
(13) Door and side window (98) Other combination of above (specify):	 (0) No occupant contact to glazing or no glazing (1) Glazing contacted by occupant but no glazing damage (2) Glazing in place and cracked by occupant contact
(99) Unknown	 (3) Glazing in place and holed by occupant contact (4) Glazing out-of-place (cracked or not) by occupant contact
Door, Tailgate or Hatch Opening	(5) Glazing out-of-place by occupant contact and holed by occupant contact (6) Glazing disintegrated by occupant contact
5. LF 6. RF 7. LR 8. RR 9. TG/H 🔿	(9) Unknown if contacted by occupant
(O) No door/gate/hatch	If No Glazing Damage <i>And</i> No Occupant Contact or No Glazing, Then Code IV31 Through IV46 As Ø
(1) Door/gate/hatch remained closed and operational (2) Door/gate/hatch came open during collision	
(3) Door/gate/hatch jammed shut (8) Other (specify):	Type of Window/Windshield Glazing
(9) Unknown	31. WS <u>1</u> 32. LF <u>2</u> 33. RF <u>2</u> 34. LR <u>2</u> 35. RR <u>2</u>
(a) Oliviloan	36. BL 2 37. Roof <u>O</u> 38. Other <u>O</u>
Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø	(0) No glazing contact and no damage, or no glazing (1) AS-1 — Laminated (2) AS-2 — Tempered (3) AS-3 — Tempered-tinted
10. LF <u>O</u> 11. RF <u>O</u> 12. LR <u>O</u> 13. RR <u>O</u> 14. TG/H <u>O</u>	(4) AS-14 — Glass/Plastic (8) Other (specify):
(O) No door/gate/hatch or door not opened	(9) Unknown
Door, Tailgate or Hatch Came Open During Collision (1) Door operational (no damage)	Window Precrash Glazing Status
(2) Latch/striker failure due to damage (3) Hinge failure due to damage	
(4) Door structure failure due to damage	39. WS <u>0</u> 40. LF <u>0</u> 41. RF <u>0</u> 42. LR <u>0</u> 43. RR <u>0</u>
(5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage	44. BL <u>O</u> 45. Roof <u>O</u> 46. Other <u>O</u>
(6) Letch/etriker and hinge failure due to damage (8) Other failure (specify):	(0) No glazing contact and no damage, or no glazing (1) Fixed (2) Closed
(9) Unknown	(2) Closed (3) Partially opened (4) Fully opened (9) Unknown

OCCUPANT AREA INTRUSION

		IV47-IV86	

Note	: If no intrusior	is, leave varid	ables IV47-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	6 0.	61.	62.
5+h	63	R/I	85	86
Jul				<u></u>
0.1	67			
- 6th	6/		69	70
			하면 통해 보는 나는 하는 것 같습니다.	
7th	71	_ 72	73	74
8th	75	_ 76	77	78
			غيران وسنند وسيد	
9th	79		81	82
10th	83	84	85	86

LOCATION OF INTRUSION

(32) Middle

(33) Right

Front Seat	Fourth Seat
(11) Left	(41) Left
(12) Middle	(42) Middle
(13) Right	(43) Right
Second Seat	(97) Catastrophic
(21) Left	(98) Other enclosed
(22) Middle (23) Right	area (specify)
	(99) Unknown
Third Seat	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1241 1 -64	,

INTRUDING COMPONENT

Interior Components

- (01) Steering assembly
- (02) Instrument panel left
- (03) Instrument panel center
- (04) Instrument panel right
- (05) Toe pan
- (06) A (A1/A2)-pillar
- (07) B-pillar
- (08) C-pillar +NO INTRUSION (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 (A2)-pillar
- (28) Side panel rear of the A (A2)-pillar

Exterior Components

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

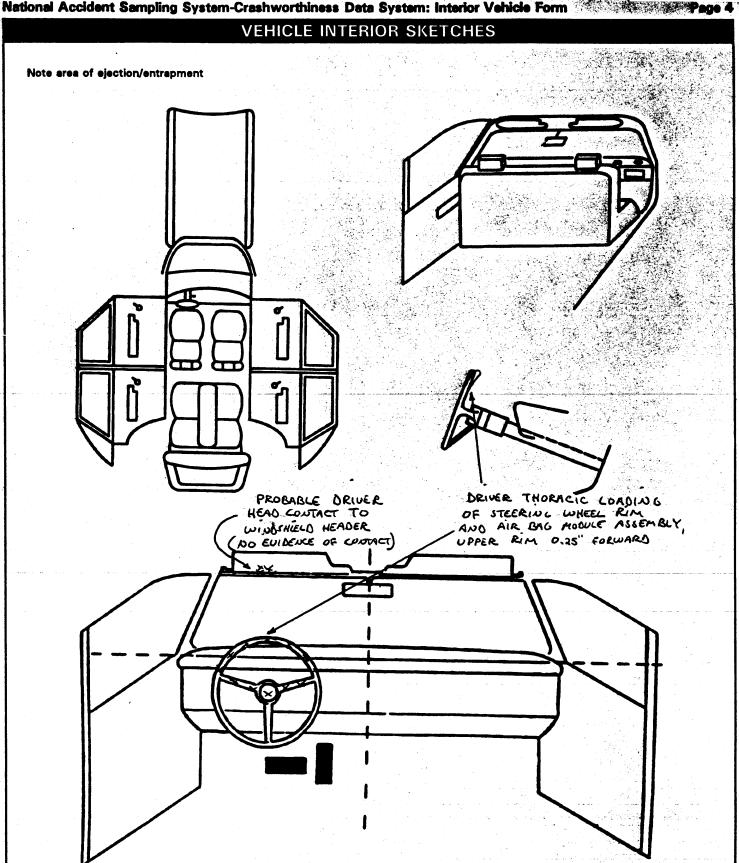
MAGNITUDE OF INTRUSION

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

DOMINANT CRUSH DIRECTION

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

STEERING COLUMN	93. Location of Steering Rim/Spoke
87. Steering Column Type (1) Fixed column (2) Tilt column	Deformation (00) No steering rim deformation Quarter Sections
(3) Telescoping column(4) Tilt and telescoping column(8) Other column type (specify):	(01) Section A (02) Section B (03) Section C (04) Section D
(9) Unknown	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
88. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-93 CDS.	(09) Complete steering wheel collapse (10) Undetermined location (99) Unknown
	INSTRUMENT PANEL
89. Blank (This variable is left blank	94. Odometer Reading
so that numbering consistency can be maintained with the 1988-93 CDS.	kilometers—Code to the nearest 1,000 kilometers (000) No odometer (001) Less than 1,500 kilometers (500) 499,500 kilometers or more (999) Unknown
90. Blank (This variable is left blank so that numbering consistency can be maintained with the	_82,588 miles x 1.6093 = <u>139,967</u> kilometers Source: UEHICLE
1988-93 CDS.	
91. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-93 CDS.	95. Instrument Panel Damage from Occupant Contact? (0) No (1) Yes (9) Unknown
	96. Knee Bolsters Deformed from Occupant Contact?
92. Steering Rim/Spoke Deformation25" Code actual measured deformation to the nearest centimeter (00) No steering rim deformation (01-14) Actual measured value in centimeters	(0) No (1) Yes (8) Not present (9) Unknown
(15) 15 centimeters or more (98) Observed deformation cannot be measured (99) Unknown	97. Did Glove Compartment Door Open During Collision(s)? (0) No
	(1) Yes (8) Not present (9) Unknown



Sketch windshield contact(s) and the damaged area(s) on the instrument penel 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.

		POIN	ITS OF OC	CCUPANT CONTA	CT		
Contact	Interior Component Contacted	Occupant No. If Known	Body Region If Known	Supporting P	nysical E	vidence	Confidence Level of Contact Point
A	50	(HEAD	NONE SCALP	COUTUS	(4412)
В	06	(TORSO	UPPERRIM DISPLACE			1
С		-					
D							
Ε	·						
F							
G							
Н			1				
1							
J							
K							
L							
М							
N							
(05) Steel (06) Steel	-		(26) Left side one or n frame, v	window glass or frame window glass including nore of the following: vindow sill, A (A1/A2)-pillar, or roof side rail.	(47) (48) (49)	Interior loose object Child safety seat (sp Other interior object	pecify):
selec	ing column, transn tor lever, other atte	achment		ft side object (specify):		Front header	
deck	on equipment (é.g., , air conditioner)	• •		window sill	(51) (52)	Rear header Roof left side rail	
(10) Cento (11) Right	netrument panel ar er instrument panel instrument panel a	and below	excludin	de interior surface, g hardware or armrests	(54)	Roof right side rail Roof or convertible	top
(13) Knee (14) Wind of the	o compartment doo bolster shield including on a following: front h 1/A2)-pillar, instrun	e or more leader,	(32) Right A (33) Right B-	- · · · · · · · · ·	FLOOR (56) (57)		unted
mirro side ((15) Wind of the	r, or steering asser only) shield including on a following: front h	mbly (driver e or more eader,	(36) Right eid one or n frame, v	de window glass or frame de window glass including nore of the following: vindow sill, A (A1/A2)-pillar,			
mirro	l/A2)-pillar, instrun r (passenger side o r side air bag comp r	nly)		or roof side rail. ght side object (specify):	REAR (60) (61) (62)	Backlight storage ra	ck, door, etc
(17) Pass comp	enger eide air bag eartment cover		NTERIOR	o window siii	(02)	Orner real object (\$)	р в спу):

LEFT SIDE

(20) Left side interior surface, excluding hardware or armrests

(19) Other front object (specify):

(18) Windshield reinforced by exterior

- (21) Left side hardware or armrest
- (22) Left A (A1/A2)-pillar

object (specify):_

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 (use codes "16" and "17" for injuries sustained from air bag compartment covers)

CONFIDENCE LEVEL OF **CONTACT POINT**

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

A LONG TO SECURE

AUTOMATIC RESTRAINTS

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

AIR BAGS

		Left	Right
F - RST	Availability/Function		
	Deployment	ય	
	Failure		

Air Bag System Availability/Function

- (O) 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 💮

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

Did Air Bog System Fail?

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

AUTOMATIC BELTS

		Left Adings, 77 and	Right	
FIRST	Availability/Function	Ja O Late (HArring)		
	Use	O	0	
	Туре	0	0	
	Proper Use	0	0	
	Failure Modes	0		

Automatic (Passive) Beit System Availability/Function

- (O) 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 (Passiva) Belt System Type

- (0) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system .
- 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
- (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**

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

MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Ocupant 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
H-R%H	Availability	4	3	4
	Use	00	_	-
	Failure Modes	0	-	-
OZOJE	Availability	4	3	4
	Use		-	
	Failure Modes	-	_	
-H-RD	Availability			
	Use			
	Failure Modes			
O T H E R	Availability			
	Use			
	Failure Modes			

Manual (Active) Belt System Availability

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

Integral Belt Partially Destroyed

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

Manual (Active) Belt System Use

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

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

Manual (Active) Belt Failure Modes During Accident

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

CHII	DS	AFFTY	SFAT	FIFI D	ASSESS	MENT
	$- \cup$					

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.

the occupant's number using the codes listed b	elow. Complete	a column for ea	ch 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 Uasge				
5. Child Safety Seat Tether Usage				
6. Child Safety Seat Make/Model	Specify Belo	w for Each Child	Safety Seat	
1. Type of Child Safety Seat	3. 0	hild Safety Seat I	Harness Usage	
(1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used 2. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation	5. C	OO) No child safe of Designed with O1) After market added, not us O2) After market O3) Child safety s harness/shiel O9) Unknown if h added or use esigned With Har O1) Harness/shiel O2) Harness/shiel	Tether Usage ow Are Used for Value of V	ther er er used fter market r
Designed for Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation	(2 (2 (3	21) Harness/shiel 22) Harness/shiel 29) Unknown if h 39) Unknown if c	arness/shield/tether hild safety seat use	r used
Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify):	6. C	hild Safety Seat I Specify make/mod	Make/Model lel and occupant nu	ımber)
(29) Unknown orientation			The state of the s	
(99) Unknown if child safety seat used	•			

HEAD RESTRAINTS/SEAT EVALUATION

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

		Left	Center	Right
F	Head Restraint Type/Damage	3		3
I R	Seat Type	06	06	06
S	Seat Performance		l	1
. 1	Seat Orientation	l	(l l
S	Head Restraint Type/Damage	0	0	0
SEC	Seat Type	03	03	0.3
0	Seat Performance			
Ď	Seat Orientation	l l		
Т	Head Restraint Type/Damage			
Ĥ	Seat Type			
R	Seat Performance			
D	Seat Orientation			
0	Head Restraint Type/Damage			
Ť	Seat Type			
E	Seat Performance			
R	Seat Orientation			

Head Restraint Type/Damage by Occupant at This Occupant Position

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

Seat Type (this Occupant Position)

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

Seat Performance (this Occupant Position)

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

Seat Orientation (this Occupant Position)

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

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

EJECTION/ENTRAPMENT DATA	

	CTION No [1/ Yes []	body parts involved in partial ejection	401
76 3		oody parts involved in partial ejection	n(8);
	Occupant Number		
	Ejection		
	(Note on Vehicle Interior Sketch) Ejection Area		
	Ejection Medium		
	Medium Status		
(1 (1 (3 (9	tion) Complete ejection) Partial ejection) Ejection, Unknown degree) Unknown tion Area) Windshield	(7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown Ejection Medium (1) Door/hatch/tailgate	(5) Integral structure (8) Other medium (specify): (9) Unknown Medium Status (Immediately Prio to Impact) (1) Open
(2 (3 (4 (5) Left front) Right front) Left rear) Right rear) Rear	(2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):	(2) Closed (3) Integral structure (9) Unknown
	RAPMENT No [Yes cribe entrapment mechanism:	[]	
	•		

ATTACHMENT D

NASS Occupant Forms



U.S. Department of Transportation

OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM National Highway Traffic Safety CRASHWORTHINESS DATA SYSTEM Administration OCCUPANT'S SEATING 1. Primary Sampling Unit Number 10. Occupant's Seat Position 2. Case Number -- Stratum-Front Seat (11) Left side 3. Vehicle Number (12) Middle (13) Right side 01 4. Occupant Number (14) Other (specify): OCCUPANT'S CHARACTERISTICS (15) On or in the lap of another occupant Second Seat 5. Occupant's Age (21) Left side Code actual age at time of accident. (22) Middle (00) Less than one year old (specify by month): (23) Right side (24) Other (specify): (97) 97 years and older (25) On or in the lap of another occupant (99) Unknown Third Seat (31) Left side (32) Middle 6. Occupant's Sex (33) Right side (1) Male (34) Other (specify): (2) Female (35) On or in the lap of another occupant (9) Unknown Fourth Seat (41) Left side 7. Occupant's Height 5 8 (42) Middle (43) Right side Code actual height to the nearest (44) Other (specify): centimeter. (45) On or in the lap of another occupant (999) Unknown 68 inches X 2.54 = 173 centimeters (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown 8. Occupant's Weight 70 Code actual weight to the nearest 11. Occupant's Posture 0 kilogram. (0) Normal posture (999)Unknown Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another

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

• • •						
	occup	ant or	to look	out a	rear wind	low
(5)			console			

- (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat
- (8) Other abnormal posture (specify):
- (9) Unknown

(0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown 13. Ejection Area (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown 16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing	EJECTION/ENTRAPMENT				
(Ö) 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) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify):	(0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree	_0	(1) Open (2) Closed (3) Integral structure		
(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):	(O) 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):		(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		
	(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):	0			

	RESTRAINT SYST	EM EVALUATION	
	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed)	21. 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	,
	(8) Other belt (specify): (9) Unknown	22. Air Bag System Deployment (0) Not equipped/not available (1) Air bag deployed during accident (as a result of impact)	-
18.	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):	 (2) Air bag deployed inadvertently just prior to accident (3) Air bag deployed, accident sequence undetermined (4) Nondeployed (5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (9) Unknown 	
	 (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 	23. Are There Indications of Air Bag System Failure? (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown	-
19.	Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat	Note: See Variables 44 through 48 (Page 5) for Information on Automatic Belts	
	 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 	24. Police Reported Restraint Use (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):	-
20.	Manual (Active) Belt Failure Modes During Accident (0) No manual belt used (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) Restrained, type unknown (9) Police indicated "unknown"	
	(8) Other manual belt failure (specify):		
	(9) Unknown		

	HEAD RESTRAINT AN	D SEAT EVALUATION
25.	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):	27. Seat Performance (this Occupant Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusion (specify):
	(9) Unknown	(7) Combination of above (specify):
00	Seat Type (this Occupant Position) 06	(8) Other (specify): (9) Unknown
	(00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Other seat type (specify): (10) Box mounted seat (i.e., van type) (99) Unknown	
		,
	•	
		•

	CHILD S	AFET'	Y SEAT
28.	Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat		. Child Safety Seat Harness Usage OO . Child Safety Seat Shield Usage
	(997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat used	33.	. Child Safety Seat Tether Usage Note: Options below applicable to Variables OA31-OA33.
29.	Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used)	 (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
30.	Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used		(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	20 Working David Look
_		38. Working Days LostO(_ Code the number of days
34.	Injury Severity (Police Rating)	(up through 60) that the occupant
	(O) O No injune	lost from work due to the accident
	(0) O - No injury (1) C - Possible injury	(00) No working days lost
	(2) B - Nonincapacitating injury	(61) 61 days or more
	(3) A - Incapacitating injury	(62) Fatally injured
	(4) K - Killed	(97) Not working prior to accident (99) Unknown
	(5) U - Injury, severity unknown	(99) Onknown
	(6) Died prior to accident	
	(9) Unknown	STOP - GO TO VARIABLE 44 ON PAGE 7
		MARIARI SC 20 TURQUOU A2 ARE
35.	Treatment - Mortality	VARIABLES 39 THROUGH 43 ARE COMPLETED BY THE ZONE CENTER
	(0) No treatment	Court Lile Di Till Lore Chite.
	(1) Fatal	
	(2) Fatal - ruled disease (specify):	39. Time to Death
		Code number of hours from time of
	Nonfatal	accident to time of death up through 24
	(3) Hospitalization	hours. If time of death is greater than 24
	(4) Transported and released	hours, code number of days. (Note: 1 day =
	(5) Treatment at scene - nontransported	31, 2 days = 32, n days = 30 +n up through 30 days = 60)
	(6) Treatment later	(00) Not fatal
	(8) Treatment - other (specify):	(96) Fatal - ruled disease
	(0) 11-1	(99) Unknown
	(9) Unknown	
		40. 1st Medically Reported Cause of Death OO
36.	Type Of Medical Facility (for Initial Treatment)	140. 1st Medically Reported Cause of Death
	(0) Not treated at a medical facility	41. 2nd Medically Reported Cause of Death OO
	(1) Trauma center	
	(2) Hospital	42. 3rd Medically Reported Cause of DeathO_O_
	(3) Medical clinic(4) Physician's office	Code the Occupant Injury from line
	(5) Treatment later at medical facility	number(s) for the medically reported injury(s) which reportedly contributed to
	(8) Other (specify):	this occupant's death
		(00) Not fatal or no additional causes
	(9) Unknown	(97) Other result (includes fatal ruled
		disease) (specify):
37	Hospital Stay	(00) H-l
٥,.	(00) Not Hospitalized	(99) Unknown
	Code the number of days (up through 60)	
	that the occupant stayed in hospital.	43. Number of Recorded Injuries for
	(61) 61 days or more	This Occupant O 2
	(99) Unknown	Code the actual number of
		injuries recorded for this occupant.
		(00) No recorded injuries
		(97) Injured, details unknown (99) Unknown if injured
		100/ Olikilowit ii ilijuleu
		<u> </u>

	AUTOMATIC BELT SYSTEM	48. Automatic (Passive) Belt Failure Modes
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	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):
	(4) Automatic belts destroyed or rendered inoperative(9) Unknown	(6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify): (9) Unknown
45.	Automatic (Passive) Belt System Use	(9) Olikilowii
	 (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 	49. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify):
		(9) Unknown
46.	Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown	STOP - VARIABLES 50 THROUGH 52 ARE COMPLETED BY THE ZONE CENTER
		TRAUMA DATA
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	50. Glasgow Coma Scale (GCS) Score (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
	 (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): 	51. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given
	(8) Other improper use of automatic belt system (specify):(9) Unknown	52. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of theHCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
	ARE ALL APPLICABLE MEDICAL RECO	RDS INCLUDED NO [] YES []
	UPDATE CANDIDATE?	NO[] YES[]
1	JI DATE CARDIDATE:	110 []

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

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary-Sampling Unit Number 3. Vehicle Number 01

2. Case Number - Stratum 93-06 4. Occupant Number 01

INJURY DATA

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

		O.I.CA.I.S							Injury		Occupant
	Source of Injury Data	y Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Area Intrusion Number
1st	5. <u>3</u>	6. <u>L</u>	7. <u>9</u> (s. <u>0 4</u>	9. <u>0 2</u>	10. <u> </u>	11. <u>5</u>	12. <u>5 0</u>	13. 📗	14. 👤	15. <u>0</u> 0
2nd	16. <u>3</u>	17. <u>6</u>	18. <u>4</u> 19	э. <u>О</u> Д	20. 28	21	22. <u>6</u>	23. <u>5 0</u>	24. <u>Q</u>	25. 2	26. <u>O</u> O
3rd	27	28	29 30)	31	32	33	34	35	36	37
4th	38	39	40 4	1	42	43	44	45	46	4 7	48
5th	49	50	51 5:	2	53	54	55	56	67. <u> </u>	58	59
6th	60	61	62 63	3	64	65	66	67	68	69	70
7th	71	72	73 74	1	75	76	77	78	79	80	81
8th	82	83	84 88	5	86	87	88	89	90	91	92
9th	93	94	9596)	97	98	99	100	101 1	02 1	03,
10th	104.	105 <i>′</i>	106. 107	7.	108.	109	110.	111	112. 1	13. 1	14.

HS Form 433B (1/93)

This report is authorized by P.L. 89-563, Title 1, Section 106, 108, and 112. While you are not required to respond, your cooperation is needed to make the results of this data collection effort comprehensive, accurate, and timely.

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)
- Private physician, walk-in or emergency clinic

UNOFFICIAL

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

INJURY SOURCE

FRONT

- (01) Windshield
- (O2) 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 (A1/A2)-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, or mirror (passenger side only)
- (16) Driver side air bag compartment cover
- (17) Passenger side air bag compartment cover
- (18) Windshield reinforced by exterior object (specify):
- (19) Other front object (specify):

- (20) Left side interior surface, excluding hardware or armrests (21) Left side hardware or armrest
- (22) Left A (A1/A2)-pillar
- (23) Left B-pillar
- (24) Other left pillar (specify):

- (25) Left side window glass or frame
- (26) Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.
- (27) Other left side object (specify):
- (28) Left side window sill

RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A (A1/A2)-pillar
- (33) Right B-pillar
- (34) Other right piliar (specify):
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.
- (37) Other right side object (specify):
- (38) Right side window sill

INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar or door frame attachment point
- (43) Other restraint system component (specify):_
- (44) Head restraint system
- (45) Air bag (use codes "16" and "17" for injuries sustained from air bag compartment covers)
- (46) Other occupants (specify):
- (47) Interior loose objects
- (48) Child safety seat (specify):
- (49) Other interior object (specify):

ROOF

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

FLOOR

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

(60) Backlight (rear window)

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

EXTERIOR of OCCUPANT'S VEHICLE

- (85) Hood
- (66) Outside hardware (e.g., outside mirror, antenna)
- Other exterior surface or tires (specify):
- (68) Unknown exterior objects

EXTERIOR OF OTHER MOTOR VEHICLE

- (70) Front bumper
- (71) Hood edge
- (72) Other front of vehicle (specify):
- (73) Hood
- (74) Hood ornament
- Windshield, roof rail, A-pillar (75)
- (76) Side surface
- Side mirrors (77)
- (78) Other side protrusions (specify)
- (79) Rear surface
- Undercarriage (80)
- (81) Tires and wheels
- (82) Other exterior of other motor vehicle (specify):
- (83) Unknown exterior of other motor vehicle

OTHER VEHICLE OR OBJECT IN THE **ENVIRONMENT**

- (84) Ground
- (85) Other vehicle or object (specify)
- (86) Unknown vehicle or object

NONCONTACT INJURY

- (90) Fire in vehicle
- (91) Flying glass
- (92) Other noncontact injury source (specify):
- (93) Air bag exhaust gases
- (97) Injured, unknown source

INJURY SOURCE CONFIDENCE LEVEL

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

DIRECT/INDIRECT INJURY

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

OCCUPANT INJURY CLASSIFICATION

Body Region

- Head
- (2) Face
- (3) Neck
- (4) (5) Abdomen (6)
- Spine **Upper Extremity**
- 181 Lower Extremity Unspecified

Type of Anatomic Structure

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

Specific Anatomic Structure

- Whole Area (02) Skin Abrasion (04) Skin - Contusion
- Skin Laceration
- (08) Skin Avulsion (10) Amoutation
- Burn (20)
- (30) Crush
- (40)
- Degloving Injury - NFS (50)
- (90) Trauma, other than mechanical
- Head LOC (02) Length of LOC (04, 06, 08) Level of Consciousness (10) Concussion

- Spine (02) Cervical 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, OO 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

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

Aspect

- Right
- Left
- Bilateral
- Central (6) Anterior
- **Posterior**
- (7) (8) Superior Inferior Unknown
- Whole region

60

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.)

