HS-433A	Occupant Assessment Form

A federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a current valid OMB Control Number. The OMB Control Number for this information collection is 2127-0021. Public reporting for this collection of information is estimated to be approximately 30 minutes per response, including the time for reviewing instructions, completing and reviewing the collection of information. All responses to this collection of information are mandatory. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to: Information Collection Clearance Officer, National Highway Traffic Safety Administration, 1200 New Jersey Ave, SE, Washington, DC 20590.

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

OCCUPANT ASSESSMENT FORM

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

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Primary Sampling Unit Number	OCCUPANT'S SEATING
	10. Occupant's Seat Position
2. Case Number - Stratum	Front Seat
3. Vehicle Number	(11) Left side (12) Middle
4. Occupant Number	(13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify): (15) On or in the lap of another occupant
	(10) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month):	Second Seat (21) Left side (22) Middle (23) Right side
(97) 97 years and older (99) Unknown	(24) Other (specify):(25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknowninches X 2.54 =centimeters	(97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown pounds X .4536 =kilograms 9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown
	W ST

HS Form 433A (1/1997)

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.

National Accident Sampling System-Crashworthiness Data System: Occupant Assessment Form

	EJEC	TION/E	NTRAPMENT
12.	Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown		15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
	Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown 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): (9) Unknown		16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or not oriented to time or place (2) Removed from vehicle due to perceived serious injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (8) Removed from vehicle for other reasons (specify): (9) Unknown

BELT SYSTE	M FUNCTION
18. 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	22. Manual Shoulder Belt Upper Anchorage Adjustment (0) No manual shoulder belt (1) No upper anchorage adjustment for manual shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment 23. Automatic (Passive) Belt System Availability/
19. Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify): (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used	Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown 24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown 25. Automatic (Passive) Belt System Type (0) Not equipped/not available
20. Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat **Belt Used Improperly** (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify):	(1) Non-motorized system (2) Motorized system (9) Unknown 26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or
21. 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):	automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown 27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):

National Accident Sampling System-Crashworthiness Data System: Occupant Assessment Form

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use. [] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify): [] Unknown if belt used	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
	33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown 34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No
	(1) No (2) Yes (specify): (9) Unknown

	FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
35.	Had Vehicle Been in Previous Accident(s)?	40. Longitudinal Component of +
	(0) Not equipped/not available	Delta V For Air Bag -
	(1) No previous accidents	Deployment Impact
1		(000) Not equipped/not available
	Yes	Code the value of the delta V for the
	(2) Previous accident(s) without deployment(s)	impact that initiated the air bag
	(3) One previous accident with deployment	deployment
	(4) More than one previous accident with at least	(_996) Deployment, unknown longitudinal
	one deployment	Delta V
	(8) Previous accidents, unknown deployment	(_997) Not deployed
	status	(_998) Unknown if deployed
	(9) Unknown	(_999) Unknown
36.	Type of Air Bag	41. Did Air Bag Module Cover Flap(s) Open At
	(0) Not equipped/not available	Designated Tear Points?
	(1) Original manufacturer installed system	(0) Not equipped/not available (1) No
	(2) Retrofitted air bag	(1) NO (2) Yes
	(3) Replacement air bag	(3) Deployed, unknown if flap(s) opened at
	(8) Unknown type of air bag	designated tear points
	(9) Unknown	(7) Not deployed
		(8) Unknown if deployed
27	Had Any Prior Maintenance/Service	(9) Unknown
37.	Been Performed On This Air Bag System?	
	(0) Not equipped/not available	42 Ware Air Bag Madula Caver Flor(a) Demand?
	(1) No prior maintenance	42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available
	(2) Yes, prior maintenance (specify):	(1) No
		(2) Yes (specify):
	(9) Unknown	(3) Deployed, unknown if air bag module cover
		flap(s) damaged
00	A: D. D. L	(7) Not deployed
38.	Air Bag Deployment Accident Event	(8) Unknown if deployed
	Sequence Number (00) Not equipped/not available	(9) Unknown
	Code the accident event sequence	
	number that initiated the air bag	43. Was There Damage To The Air Bag?
	deployment	(00) Not equipped/not available
	(96) Deployed, unknown event	(O1) Not damaged
	(97) Not deployed	
	(98) Unknown if deployed	Yes - Air Bag Damage
	(99) Unknown	(02) Ruptured
		(03) Cut
20	CDC For Air Box Donleymant Invest	(04) Torn (05) Holed
39.	CDC For Air Bag Deployment Impact	(06) Burned
	(0) Not equipped/not available (1) Highest delta V	(07) Abraded
	(2) Second highest delta V	(88) Other damage (specify):
	(3) Other non-coded delta V (specify):	
	(5)	(95) Damaged, details unknown
	(6) Deployed, unknown event	(96) Deployed, unknown if damaged
	(7) Not deployed	(97) Not deployed
	(8) Unknown if deployed	(98) Unknown if deployed
	(9) Unknown	(99) Unknown

	FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued	HEAD RESTRAINT AND SEAT EVALUATION
44.	Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify): (03) Object carried by occupant, (specify): (04) Adaptive/assistive controls, (specify): (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify):	49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown 50. Seat Type (this Occupant Position)
45.	(95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown Was The Air Bag Tethered? (0) Not equipped/not available (1) No	(00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type)
46.	(2) Yes (specify number of tether straps): (3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports):	(10) Other seat type (specify): (99) Unknown 51. 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):
47.	(3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed (9) Unknown Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify):	(9) Unknown 52. Seat Track Adjusted Position Prior To Impact (0) Occupant not seated or no seat (1) Non-adjustable seat track Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions
48.	(3) Deployed, unknown if other occupant contact to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown Was This Occupant Wearing Eye-wear? (0) Not air bag equipped/air bag not available (1) No	 (4) Seat at middle track position (5) Seat between middle and rear most track positions (6) Seat at rear most track position (9) Unknown
	 (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown 	

	onal Accident Sampling System-Crashworthiness Dat	
	HEAD RESTRAINT AND SE	AT EVALUATION continued
53.	Seat Back Incline Prior and Post Impact (00) Occupant not seated or no seat (01) Not adjustable	
	Upright prior to impact (11) Moved to completely rearward position (12) Moved to rearward midrange position (13) Moved to slightly rearward position (14) Retained pre-impact position (15) Moved to slightly forward position (16) Moved to forward midrange position (17) Moved to completely forward position	15 14 13 16 12 17 11
	Slightly reclined prior to impact (21) Moved to completely rearward position (22) Moved to rearward midrange position (23) Retained pre-impact position (24) Moved to upright position (25) Moved to slightly forward position (26) Moved to forward midrange position (27) Moved to completely forward position	25 ²⁴ 23 22 27 21
	Completely reclined prior to impact (31) Retained pre-impact position (32) Moved to rearward midrange position (33) Moved to slightly rearward position (34) Moved to upright position (35) Moved to slightly forward position (36) Moved to forward midrange position (37) Moved to completely forward position (99) Unknown	35 34 33 36 32 37 31
54.	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 track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusion, (specify): (7) Combination of above (specify):	
2	(8) Other (specify):(9) Unknown	

National Accident Sampling System-Crashworthiness Data System: Occupant Assessment Form Page 8 CHILD SAFETY SEAT 55. Child Safety Seat Make/Model 58. Child Safety Seat Harness Usage (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing 59. Child Safety Seat Shield Usage (950) Built-in child safety seat (997) Other make/model (specify): 60. Child Safety Seat Tether Usage (998) Unknown make/model (999) Unknown if child safety seat used Note: Options below applicable to Variables OA58-OA60. (00) No child safety seat 56. Type of Child Safety Seat Not Designed With Harness/Shield/Tether (0) No child safety seat (01) After market harness/shield/tether (1) Infant seat (2) Toddler seat added, not used (3) Convertible seat (02) After market harness/shield/tether used (4) Booster seat - with shield (03) Child safety seat used, but no after market (5) Booster seat - without shield harness/shield/tether added (7) Other type child safety seat (specify): (09) Unknown if harness/shield/tether added or used (8) Unknown child safety seat type (9) Unknown if child safety seat used Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used 57. Child Safety Seat Orientation (19) Unknown if harness/shield/tether used (00) No child safety seat Unknown If Designed With Harness/Shield/Tether Designed for Rear Facing for This Age/Weight (21) Harness/shield/tether not used (01) Rear facing (22) Harness/shield/tether used (02) Forward facing (29) Unknown if harness/shield/tether used (08) Other orientation (specify): (99) Unknown if child safety seat used (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

National Accident Sampling System-Crashworthiness Data System: Occupant Assessment Form Page 9 **INJURY CONSEQUENCES** 61. Injury Severity (Police Rating) 63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (0) O - No injury (1) Trauma center (1) C - Possible injury (2) Hospital (2) B - Nonincapacitating injury (3) Medical clinic (3) A - Incapacitating injury (4) Physician's office (4) K - Killed (5) Treatment later at medical facility (5) U - Injury, severity unknown (8) Other (specify): (6) Died prior to accident (9) Unknown (9) Unknown 62. Treatment - Mortality 64. Hospital Stay (0) No treatment (00) Not Hospitalized (1) Fatal Code the number of days (up through 60) (2) Fatal - ruled disease (specify): that the occupant stayed in hospital. (61) 61 days or more (99) Unknown Nonfatal (3) Hospitalization 65. Working Days Lost (4) Transported and released Code the number of days (5) Treatment at scene - nontransported (up through 60) that the occupant (6) Treatment later lost from work due to the accident (7) Treatment - other (specify): (00) No working days lost (61) 61 days or more (8) Transported to a medical facility-unknown if (62) Fatally injured treated (97) Not working prior to accident (9) Unknown (99) Unknown STOP WORK HERE VARIABLES 66-74 TO BE CODED BY THE ZONE CENTER

National Accident Sampling System-Crashworthiness Data System: Occupant Assessment Form

Page 10

TO BE CODED BY THE ZONE CENTER

INJURY CONSEQUENCES	TRAUMA DATA
66. Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	71. 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
67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death 69. 3rd Medically Reported Cause of Death	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given
Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):	73. Arterial Blood Gases (ABG) - HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported , HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
(97) Other result (includes fatal ruled disease) (specify):	BELT USE DETERMINATION
(99) Unknown 70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used
,	