

In-depth Vehicle Occupant Report

The University
of Michigan
Highway Safety
Research Institute

UMIVOR—UMIVOR—UMIVOR



Technical Report Documentation Page

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7. Author(s) Marion J. Compton, John A. Green, Robert E. Scott		8. Performing Organization Report No. UM-HSRI-80-49	
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16. Abstract <p>The University of Michigan In-depth Vehicle Occupant Report (UMIVOR) is a form for the field recording of vehicle damage and occupant injuries sustained in motor vehicle traffic accidents. The report was developed by HSRI as a new concept in accident reporting which includes, in part, modified portions of current reporting forms.</p> <p>The report is designed to be used primarily for passenger cars, light trucks, and vans. It is modular in nature so that future modifications of the format can be made easily by adding new modules or by dropping old ones. Provisions have been made in the administrative module to include optional user-defined elements. The report is also designed for data entry and computerization with specific module identifiers and column numbers. All measurements are recorded in metric units.</p> <p>The current format of the report is the result of extensive internal development, discussions with many end-user groups, and operational use in actual field situations. The report is accompanied at HSRI by an interpretation/documentation manual and computer programs to produce working data sets from the field-recorded data.</p>			
17. Key Words Vehicle Damage, Occupant Injuries, Accidents, Passenger Cars, Light Trucks, Vans, Module, Metric Units		18. Distribution Statement	
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of Pages 42	22. Price

TEAM CODE 1

ACCIDENT ID 3 — — — 7

VEHICLE NUMBER 5

MODULE A D
7

FORMAT 0 1
11

FORM VERSION 0 1
13

NO. OF CASE VEHICLES IN ACCIDENT 15

NUMBER OF SLIDES 16

TEAM REPORT NUMBER

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

DATE OF FIELD INVESTIGATION: ___ / ___ / ___

INVESTIGATOR: _____

LOCATION WHERE VEHICLE WAS EVALUATED:

CIRCLE PHOTO RECORDS MADE:

SLIDES

NEGATIVES

POLAROIDS

REPORT PREPARED BY: _____

TIME

DATE OF COLLISION $\frac{\quad}{13}$ / $\frac{\quad}{\quad}$ / $\frac{\quad}{18}$

HOUR OF COLLISION (24 HOUR CLOCK) $\frac{\quad}{19}$ $\frac{\quad}{\quad}$ $\frac{\quad}{22}$

LOCATION

STATE: _____

STATE FIPS CODE _____

AREA

- (1) URBAN
- (2) RURAL
- (9) UNKNOWN

ENVIRONMENTAL CONDITIONS

LIMITED-ACCESS HIGHWAY

- (1) YES
- (2) NO
- (9) UNKNOWN

ROAD, TOTAL TRAFFIC LANES (FOR CASE VEHICLE)

- (1) 1-LANE
- (2) 2-LANES
- (3) 3-LANES
- (4) 4 OR MORE LANES
- (5) DIVIDED, 4 OR MORE LANES
- (6) PARKING LOT/DRIVEWAY
- (7) OTHER: _____
- (9) UNKNOWN

INTERSECTING RD, TOTAL LANES

CHOOSE FROM THE ABOVE LIST, OR

- (8) NOT APPLICABLE

TYPE OF ROAD SURFACE

- (1) ASPHALT
- (2) CONCRETE
- (3) GRAVEL
- (4) MORE THAN ONE (CIRCLE EACH)
- (7) OTHER: _____
- (9) UNKNOWN

ROAD DEFECTS

- (1) YES
- (2) NO
- (9) UNKNOWN

ENVIRONMENTAL CONDITIONS

CONSTRUCTION ZONE

- (1) YES
- (2) NO
- (9) UNKNOWN

RD ALIGNMENT, VERTICAL PLANE

- (1) LEVEL
- (2) CREST OF HILL
- (3) SLOPE (2%)
- (4) BOTTOM OF HILL
- (9) UNKNOWN

RD ALIGNMENT, HORIZONTAL PLANE

- (1) STRAIGHT
- (2) CURVE
- (3) T-SHAPED
- (4) Y-SHAPED
- (7) OTHER: _____
- (9) UNKNOWN

SURFACE COVERING

- (10) DRY
- (21) WATER - DAMP
- (22) WATER - WET
- (23) WATER - PUDDLED
- (29) WATER - AMOUNT UNKNOWN
- (31) SNOW - LOOSE
- (32) SNOW - PACKED
- (39) SNOW - CONDITION UNKNOWN
- (41) ICE
- (51) SLUSH
- (61) SPILLED GRAVEL
- (71) OTHER: _____
- (99) UNKNOWN

VISIBILITY LIMITATION

(FOR CASE VEHICLE)

- (0) NONE
- (1) CLOUDY/DARK
- (2) FOG
- (3) SMOKE
- (4) WINDSHIELD CONDITION
- (5) GLARE
- (6) RAIN
- (7) OTHER: _____
- (8) ICE/SNOW
- (9) UNKNOWN

VISIBILITY OBSTRUCTION

(FOR CASE VEHICLE)

- (0) NONE
- (1) BUILDING
- (2) SIGN
- (3) VEGETATION (E.G. BUSHES, SHRUBS)
- (4) TREE
- (5) HILL OR CURVE IN ROAD
- (6) VEHICLE IN TRANSPORT
- (7) OTHER: _____
- (8) PARKED VEHICLE
- (9) UNKNOWN

23

25

26

27

28

29

30

31

32

33

34

36

37

ENVIRONMENTAL CONDITIONS

SPEED LIMIT

- (0) 5-45 km/h..... 5-25 mph
- (1) 46-55.....30
- (2) 56-60.....35
- (3) 61-70.....40
- (4) 71-79.....45
- (5) 80-85.....50
- (6) 86-90.....55
- (7) 91-105.....60
- (8) OVER 105.....65
- (9) UNKNOWN

PRECIPITATION

- (0) NONE
- (1) RAIN
- (2) SNOW
- (3) HAIL
- (4) FREEZING RAIN/SLEET
- (7) OTHER: _____
- (9) UNKNOWN

RATE OF PRECIPITATION

- (1) LIGHT/MIST
- (2) MODERATE
- (3) HEAVY
- (8) NOT APPLICABLE
- (9) UNKNOWN

TEMPERATURE

- (0) BELOW -15° C....BELOW 5° F
- (1) -15 TO -6..... 5 TO 22
- (2) -5 TO -1.....23 TO 31
- (3) 0 TO 2.....32 TO 36
- (4) 3 TO 5.....37 TO 41
- (5) 6 TO 15.....42 TO 59
- (6) 16 TO 25.....60 TO 77
- (7) 26 TO 35.....78 TO 95
- (8) OVER 35OVER 96
- (9) UNKNOWN

CROSSWIND

- (0) NONE
- (1) LIGHT
- (2) STRONG
- (3) GUSTY & STRONG
- (9) UNKNOWN

LIGHT CONDITIONS

- (1) DAYLIGHT
- (2) DAWN
- (3) DUSK
- (4) DARK, LIGHTED
- (5) DARK, UNLIGHTED
- (6) DARK, UNKNOWN IF LIGHTED
- (9) UNKNOWN

MECHANICAL MALFUNCTION

WAS THERE MENTION
OF A MECHANICAL MALFUCTION
IN CASE VEHICLE

- (1) YES
- (2) NO
- (9) UNKNOWN

33

44

THE FOLLOWING SECTION SHOULD BE FILLED
OUT IF A MECHANICAL MALFUNCTION IS
RECOGNIZED, SUSPECTED, OR WAS ALLEGED
TO HAVE CONTRIBUTED TO THE ACCIDENT
INVOLVING THIS VEHICLE.

CIRCLE ITEMS INVOLVED. SUPPORT ANY
ITEMS CIRCLED WITH COMMENTS.

- BRAKE SYSTEM
- EXHAUST SYSTEM
- STEERING SYSTEM
- SUSPENSION SYSTEM
- TIRES
- ELECTRICAL SYSTEM
- THROTTLE CONTROLS
- DRIVER CONTROLS
- POWER TRAIN
- FUEL SYSTEM
- VISIBILITY ITEMS
- OTHER: _____
- UNKNOWN

39

40

41

COMMENTS: _____

42

43

CRASH DETAILS

CASE VEHICLE AND OBJECT

- (1) YES
- (2) NO
- (9) UNKNOWN

45

CASE VEHICLE ROLLOVER

- (1) YES
- (2) NO
- (9) UNKNOWN

46

CASE VEHICLE RAN OFF ROADWAY
(BEFORE FIRST IMPACT)

- (1) YES
- (2) NO
- (9) UNKNOWN

47

MOVING CASE VEHICLE AND CONTACTED MOVING VEHICLE

- (1) YES
- (2) NO
- (9) UNKNOWN

48

CASE VEHICLE AND CONTACTED STOPPED VEHICLE

- (1) YES
- (2) NO
- (9) UNKNOWN

49

STOPPED CASE VEHICLE AND CONTACTED VEHICLE

- (1) YES
- (2) NO
- (9) UNKNOWN

50

TOTAL NUMBER OF VEHICLES CONTACTED BY CASE VEHICLE IN CRASH

- (8) 8 OR MORE
- (9) UNKNOWN

51

ANY FIRE IN THIS CRASH
(NOT JUST CASE VEHICLE)

- (1) YES
- (2) NO
- (9) UNKNOWN

52

ANY FATALITY IN THIS CRASH
(NOT JUST CASE VEHICLE)

- (1) YES
- (2) NO
- (9) UNKNOWN

53

DRIVER IMPAIRMENT

DRIVER ALCOHOL INVOLVEMENT
(CASE VEHICLE)

- (1) HAD BEEN DRINKING
- (2) HAD NOT BEEN DRINKING
- (9) UNKNOWN

54

DRIVER ALCOHOL BAC
(CASE VEHICLE)

- (80) NO TEST
- (90) CHEMICAL TESTS, NO RESULTS
- (95) AUTOPSY, NO RESULTS
- (99) UNKNOWN RESULTS

55

WAS THERE MENTION OF DRIVER IMPAIRMENT FOR CASE VEHICLE

- (1) YES
- (2) NO
- (9) UNKNOWN

57

THE FOLLOWING SECTION SHOULD BE FILLED OUT IF CASE VEH. DRIVER IMPAIRMENT IS RECOGNIZED, SUSPECTED, OR WAS ALLEGED TO HAVE CONTRIBUTED TO THE ACCIDENT INVOLVING THIS VEHICLE.

CIRCLE ITEMS INVOLVED. SUPPORT ANY ITEMS CIRCLED WITH COMMENTS.

- DRINKING INVOLVED (BROAD) INATTENTION
- DRUNK BY LOCAL LEGAL STANDARDS (BAC GIVEN) ASLEEP
- RECKLESSNESS FATIGUE
- LACK OF TRAINING MEDICATION
- EMOTIONAL STATE DRUGS
- PHYSICALLY HANDICAPPED ILLNESS
- OTHER: INFIRMITIES
- UNKNOWN

COMMENTS: _____

ACCIDENT SCHEMATIC

ACCIDENT DESCRIPTION: _____ CASE VEHICLE (A): _____

_____ OTHER VEHICLE (B): _____

_____ THIRD VEHICLE (C): _____



NORTH

A large grid of dots for drawing the accident schematic.

Duplicate columns 1-8 from the previous card.

Module $\frac{0}{4}$ $\frac{V}{10}$ Format $\frac{0}{11}$ $\frac{1}{12}$

OTHER VEHICLE OV-1

MAKE: _____

NO. OF CYLINDERS OR ROTORS: _____

MODEL: _____

CARGO: _____

VIN

MAKE/MODEL CODE

30 ----- 34

MODEL YEAR

19
35 -----

VEHICLE MASS (kg)

37 ----- 42

IF SEPARATE REPORT WAS MADE, GIVE VEHICLE NUMBER

43 -----

NUMBER OF OCCUPANTS

44 -----

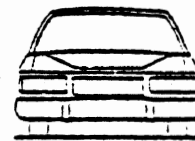
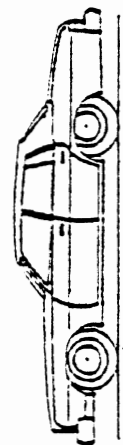
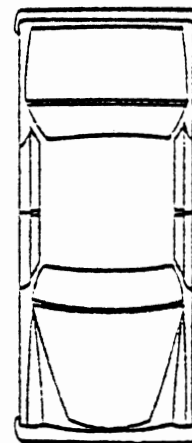
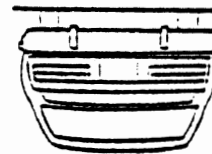
TRAVELING SPEED (km/h)

46 ----- 48

- (000) PARKED OR JUST STARTING
- (996) BACKING UP
- (997) SPEED NOT EXCESSIVE (BUT UNKNOWN)
- (998) SPEED EXCESSIVE (BUT UNKNOWN)
- (999) UNKNOWN

VEHICLE DAMAGE

THIS SPACE TO ENTER DETAILS.



VEHICLE TYPE

(19) PASSENGER VEHICLE

49 -----

MULTIPURPOSE PASSENGER VEHICLE

- (21) SMALL UTILITY (E.G. JEEP, SCOUT)
- (22) LARGE UTILITY (E.G. SUBURBAN)
- (23) VAN (UNDER 4.5 Mg GVWR)
- (24) MOTOR HOME
- (25) MPV, TYPE UNKNOWN

TRUCK

- (31) PICKUP TRUCK
- (32) VAN (OVER 4.5 Mg GVWR)
- (33) STRAIGHT TRUCK
- (34) STRAIGHT TRUCK & TRAILER(S)
- (35) TRACTOR ONLY
- (36) TRACTOR & TRAILER(S)
- (39) TRUCK, TYPE UNKNOWN

BUS

- (41) SCHOOL BUS
- (42) INTERCITY BUS (BETWEEN CITIES)
- (43) TRANSIT BUS (INTRACITY)
- (49) BUS, TYPE UNKNOWN

TRAIN

- (61) LOCOMOTIVE
- (62) RAILROAD CAR

(99) UNKNOWN

COMMENTS: _____

Duplicate columns 1-8 from the previous card.

Module $\frac{V}{9}$ $\frac{D}{10}$ Format $\frac{0}{11}$ $\frac{1}{12}$

VEHICLE DESCRIPTION VD-1

MAKE: _____

NO. OF CYLINDERS OR ROTORS: _____

MODEL: _____

CARGO: _____

VIN

13															29		

MAKE/MODEL CODE

$\frac{30}{}$ — — — — $\frac{34}{}$

SERIES NAME CODE

$\frac{35}{}$ — — — — $\frac{38}{}$

MODEL YEAR

19 $\frac{39}{}$ —

VEHICLE MASS (kg)

$\frac{41}{}$ — — — — $\frac{44}{}$

ODOMETER RDNG (km)

(ENTER 9'S IF UNKNOWN)

$\frac{45}{}$ — — — — — $\frac{50}{}$

NUMBER OF OCCUPANTS

(ENTER 9'S IF UNKNOWN)

$\frac{51}{}$ — — — —

TRAVELING SPEED (km/h)

- (000) PARKED OR JUST STARTING
- (996) BACKING UP
- (997) SPEED NOT EXCESSIVE (BUT UNKNOWN)
- (998) SPEED EXCESSIVE (BUT UNKNOWN)
- (999) UNKNOWN

$\frac{53}{}$ — — — — $\frac{58}{}$

VEHICLE TYPE

PASSENGER VEHICLE

- (11) 2-DOOR HARDTOP (NO UPPER B-PILLAR)
- (12) 2-DOOR SEDAN OR COUPE (ANY UPPER B-PILLAR)
- (13) 4-DOOR HARDTOP
- (14) 4-DOOR SEDAN
- (15) STATION WAGON
- (16) CONVERTIBLE
- (17) HATCHBACK
- (18) OTHER PASS. VEH. : _____
- (19) PASSENGER VEHICLE, TYPE UNKNOWN

$\frac{56}{}$ — — — —

MULTIPURPOSE PASSENGER VEHICLE

- (21) SMALL UTILITY (E.G. JEEP, SCOUT, BRONCO)
- (22) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)
- (23) VAN (UNDER 4.5 Mg GVWR)
- (24) MOTOR HOME
- (29) MPV, TYPE UNKNOWN

TRUCK

- (31) PICKUP TRUCK
- (99) UNKNOWN

STOLEN VEHICLE

- (1) YES
- (2) NO
- (9) UNKNOWN

$\frac{58}{}$

BODY STRUCTURE

- (1) BODY & FRAME
- (2) UNITIZED
- (3) INTEGRAL-STUB FRAME
- (4) BODY & PLATFORM FRAME (E.G. VW BUG)
- (7) OTHER: _____
- (9) UNKNOWN

$\frac{59}{}$

TRANSMISSION

- (0) NONE
- (1) AUTOMATIC
- (2) MANUAL
- (9) UNKNOWN

$\frac{60}{}$

LOCATION OF TRANSMISSION SELECTION LEVER

- (1) FLOOR
- (2) CONSOLE
- (3) COLUMN
- (7) OTHER: _____
- (9) UNKNOWN

$\frac{61}{}$

STEERING

- (1) POWER
- (2) MANUAL
- (9) UNKNOWN

$\frac{62}{}$

BRAKES

- (1) POWER
- (2) MANUAL
- (9) UNKNOWN

$\frac{63}{}$

TYPE OF BRAKES

- (1) DRUM, ALL WHEELS
- (2) DISC, FRONT WHEELS
- (3) DISC, ALL WHEELS
- (9) UNKNOWN

64

BRAKE ANTI-LOCK DEVICE

- (0) NONE INSTALLED
- (1) TWO-WHEEL
- (2) FOUR-WHEEL
- (9) UNKNOWN

65

AIR CONDITIONING IN VEHICLE

- (1) YES
- (2) NO
- (9) UNKNOWN

66

TYPE OF DRIVE

- (1) REAR WHEEL
- (2) FRONT WHEEL
- (3) FOUR WHEEL
- (9) UNKNOWN

67

DUAL REAR WHEELS

- (1) YES
- (2) NO
- (9) UNKNOWN

68

ORIGINAL TYPE OF RESTRAINT SYSTEM

- (1) ACTIVE BELT
- (2) PASSIVE BELT
- (3) AIR BAG
- (7) OTHER:
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

69

EQUIPPED WITH ROLL BAR

- (1) YES
- (2) NO
- (9) UNKNOWN

70

TYPE OF ROOF

- (0) NONE
- (1) SOLID
- (2) T-TOP CLOSED
- (3) T-TOP OPEN
- (4) SUN ROOF CLOSED
- (5) SUN ROOF OPEN
- (6) CONVERTIBLE CLOSED
- (7) CONVERTIBLE OPEN
- (9) UNKNOWN

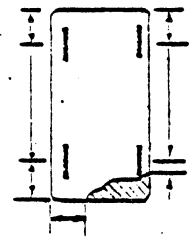
71

FIELD INVESTIGATOR INSTRUCTIONS:

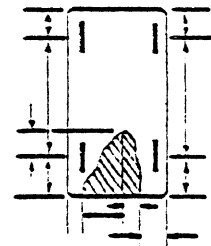
1. INDICATE CRUSHED AREAS BY OUT-LINING NEW PERIMETER OF VEHICLE AND SHADING THE DAMAGED AREAS ON THE LARGE SKETCH ON PAGE VD-3. USE AS MANY SKETCHES AS NECESSARY TO COMPLETELY DESCRIBE THE DAMAGE.
2. ENTER THE DIMENSIONS ON THE SKETCH(ES) MEASURED TO THE POINT OF MAXIMUM PENETRATION BY THE OBJECT(S) CONTACTED. USE THE EXAMPLES BELOW AS A GUIDE.
3. ENTER THE THREE DIMENSIONS TO THE CENTER OF THE WHEELS (WHEELBASE, FRONT AND REAR OVERHANGS) ON BOTH SIDES OF THE CAR.
4. ADD OTHER DIMENSIONS AS NECESSARY TO COMPLETELY DESCRIBE THE DAMAGE.

EXAMPLES:

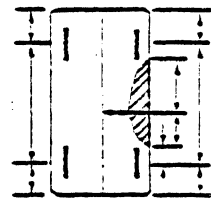
FRONT OR REAR



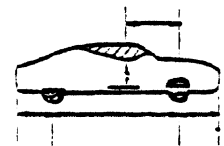
FRONT OR REAR



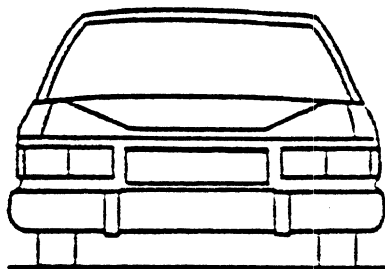
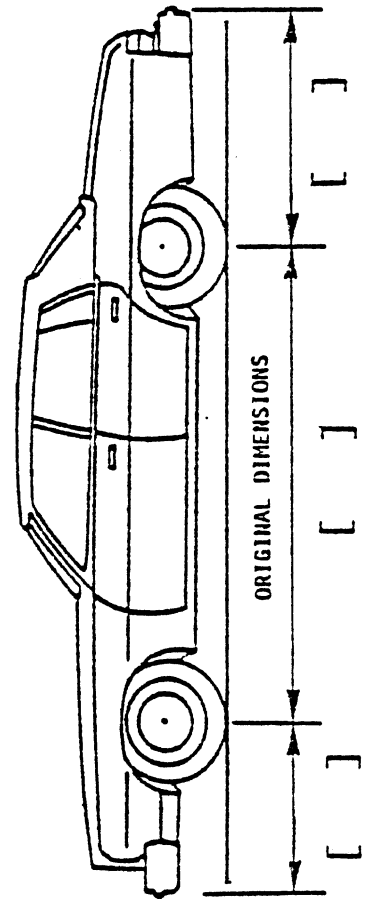
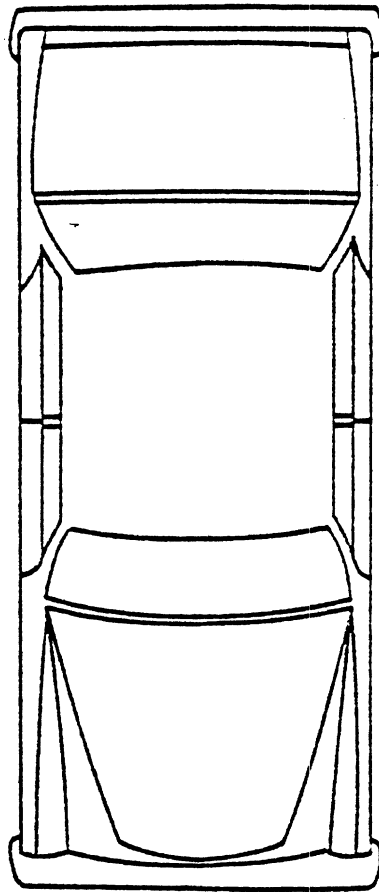
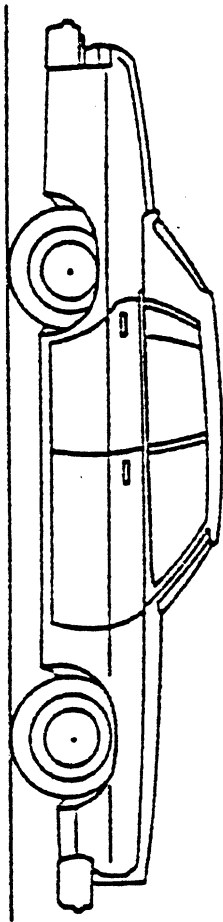
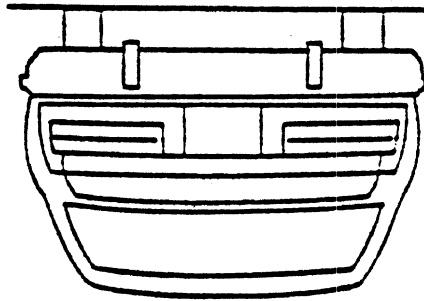
SIDE



ROOF (REFERENCE TO TOP OF DOOR SILL OR WINDOW SILL)



FIELD INVESTIGATOR WORK PAGE



Duplicate columns 1-8 from the previous card.

Module $\frac{D}{9} \frac{A}{10}$

Format $\frac{0}{11} \frac{2}{12}$

DAMAGE DA-1

PRIMARY	CASE VEHICLE PRIMARY CDC	CONTACTED VEHICLE ASSOCIATED CDC
	EVENT NUMBER	13
IMPACT SPEED (km/h)	14 16	35 37
ESTIMATED BY	17	38
CRUSH (cm)	18 20	39 41
CDC #1	21 - - - 27	42 - - - 48
CDC #2 (USED WHEN 4TH LETTER-CODE IN CDC #1 IS "X".)	28 - - - 34	49 - - - 55

Duplicate columns 1-8 from the previous card.

Module $\frac{D}{9} \frac{A}{10}$

Format $\frac{0}{11} \frac{3}{12}$

SECONDARY	CASE VEHICLE SECONDARY CDC	CONTACTED VEHICLE ASSOCIATED CDC
	EVENT NUMBER	13
IMPACT SPEED (km/h)	14 16	35 37
ESTIMATED BY	17	38
CRUSH (cm)	18 20	39 41
CDC #1	21 - - - 27	42 - - - 48
CDC #2 (USED WHEN 4TH LETTER-CODE IN CDC #1 IS "X".)	28 - - - 34	49 - - - 55

CODES

EVENT NUMBER

- (8) NOT APPLICABLE
- (9) UNKNOWN

IMPACT SPEED

- (998) NOT APPLICABLE
- (999) UNKNOWN

IMPACT SPEED ESTIMATOR

- (1) INVESTIGATOR
- (2) DRIVER
- (3) POLICE
- (4) "CRASH" PROGRAM
- (7) OTHER:
- (8) NOT APPLICABLE
(NO VEHICLE/NO IMPACT)

CRUSH

- (998) NOT APPLICABLE
(NO VEHICLE/NO DAMAGE)
- (999) UNKNOWN

CDC

- (9800000) NOT APPLICABLE
- (9900000) UNKNOWN

Duplicate columns 1-8
from the previous card.

Module $\frac{D}{9}$ $\frac{A}{10}$ Format $\frac{0}{11}$ $\frac{1}{12}$

DAMAGE DA-2

MAXIMUM SHEET METAL CRUSH
(cm) (999) UNKNOWN

FRONT

$\frac{13}{-}$ $\frac{15}{-}$

RIGHT SIDE

$\frac{16}{-}$ $\frac{18}{-}$

REAR

$\frac{19}{-}$ $\frac{21}{-}$

LEFT SIDE

$\frac{22}{-}$ $\frac{24}{-}$

ROOF

$\frac{25}{-}$ $\frac{27}{-}$

OTHER

$\frac{28}{-}$ $\frac{30}{-}$

CHRONOLOGICAL SEQUENCE
OF DAMAGE/INJURY PRODUCING CRASH EVENTS
FOR CASE VEHICLE

NOTE: IF CHRONOLOGICAL ORDER
IS UNKNOWN, EVENT
ORDER IS OPTIONAL.

DO YOU KNOW THIS TABLE
TO BE IN CHRONOLOGICAL ORDER

$\frac{31}{-}$

(1) YES
(2) NO

EVENT NUMBER	WAS IMPACT ON ROADWAY	IMPACT CONFIGURATION	OBJECT/VEHICLE CONTACTED
	(1) YES (2) NO (9) UNKNOWN	FOR CODES, SEE TABLE ON PAGE DA-3.	FOR CODES, SEE TABLE ON PAGE DA-4.
#1	$\frac{32}{-}$	$\frac{34}{-}$	$\frac{36}{-}$
#2	$\frac{37}{-}$	$\frac{39}{-}$	$\frac{41}{-}$
#3	$\frac{42}{-}$	$\frac{44}{-}$	$\frac{46}{-}$
#4	$\frac{47}{-}$	$\frac{49}{-}$	$\frac{51}{-}$
#5	$\frac{52}{-}$	$\frac{54}{-}$	$\frac{56}{-}$
#6	$\frac{57}{-}$	$\frac{59}{-}$	$\frac{61}{-}$
#7	$\frac{62}{-}$	$\frac{64}{-}$	$\frac{66}{-}$

CODES FOR
IMPACT CONFIGURATIONFRONT OF CASE VEHICLE

- (11) AND FRONT OF CONTACTED VEHICLE
- (13) AND SIDE OF CONTACTED VEHICLE
- (14) AND REAR OF CONTACTED VEHICLE
- (16) ENDSWIPED BY CONTACTED VEHICLE
- (17) AND OBJECT
- (19) AND UNKNOWN OTHER VEHICLE CONFIGURATION

LEFT SIDE OF CASE VEHICLE

- (21) AND FRONT OF CONTACTED VEHICLE (*TYPE T*)
- (22) AND FRONT OF CONTACTED VEHICLE (*TYPE L*)
- (23) AND SIDE OF CONTACTED VEHICLE (*NOT SIDESWIPE*)
- (24) AND REAR OF CONTACTED VEHICLE (*TYPE T*)
- (25) AND REAR OF CONTACTED VEHICLE (*TYPE L*)
- (26) SIDSWIPED BY CONTACTED VEHICLE
- (27) AND OBJECT
- (29) AND UNKNOWN OTHER VEHICLE CONFIGURATION

REAR OF CASE VEHICLE

- (31) AND FRONT OF CONTACTED VEHICLE
- (33) AND SIDE OF CONTACTED VEHICLE
- (34) AND REAR OF CONTACTED VEHICLE
- (36) ENDSWIPED BY CONTACTED VEHICLE
- (37) AND OBJECT
- (39) AND UNKNOWN OTHER VEHICLE CONFIGURATION

RIGHT SIDE OF CASE VEHICLE

- (41) AND FRONT OF CONTACTED VEHICLE (*TYPE T*)
- (42) AND FRONT OF CONTACTED VEHICLE (*TYPE L*)
- (43) AND SIDE OF CONTACTED VEHICLE (*NOT SIDESWIPE*)
- (44) AND REAR OF CONTACTED VEHICLE (*TYPE T*)
- (45) AND REAR OF CONTACTED VEHICLE (*TYPE L*)
- (46) SIDSWIPED BY CONTACTED VEHICLE
- (47) AND OBJECT
- (49) AND UNKNOWN OTHER VEHICLE CONFIGURATION

OTHER

- (57) VEHICLE TO OBJECT
- (58) VEHICLE TO VEHICLE
- (59) VEHICLE TO VEHICLE, CONFIGURATION UNKNOWN

ROLLOVER

- (61) LESS THAN 360°
- (62) 360° OR MORE
- (69) DETAILS UNKNOWN

UNKNOWN

- (99) IMPACT TYPE UNKNOWN

CODES FOR VEHICLE/OBJECT CONTACTED

VEHICLE/OBJECT GROUPS

- (00) NO OBJECT
- (01)-(39) PASSENGER VEHICLE & TRUCK
- (40)-(69) OTHER VEHICLE
- (70)-(76) PEDESTRIAN & ON-ROADWAY OBJECT
- (80)-(97) OFF-ROADWAY OBJECT
- (98) OTHER (DESCRIBE)
- (99) UNKNOWN

PASSENGER VEHICLE

- (01) INTERMEDIATE
- (02) STANDARD/FULL SIZE
- (03) LUXURY/LIMOSINE
- (04) SUB-COMPACT/mini-SPECIALTY
- (05) STANDARD LUXURY
- (06) SPECIALTY PONY
- (07) INTERMEDIATE LUXURY
- (08) COMPACT
- (09) SUB-COMPACT/mini-IMPORT
- (10) SUPER SPORT
- (17) PICKUP CAR
- (18) SUB-COMPACT/mini-USA
- (19) EUROPEAN SPORTS CAR
- (20) UNKNOWN PASSENGER VEHICLE BODY

SIZE	WHEELBASE*	LUXURY/		
		STANDARD	SPECIALTY	SPORT
MINI/SUB-COMPACT	90-101.9	(09), (18)	(04)	(19)
COMPACT	102-111.9	(08)	(08)	(10)
INTERMEDIATE	112-118	(01), (17)	(07)	--
STANDARD	119-125	(02)	(05)	--
LUXURY/LIMOSINE	126+	(03)	--	--

*SEE REFERENCE MANUAL FOR CLARIFICATION.

MULTIPURPOSE PASSENGER VEHICLE

- (14) SMALL UTILITY (WHEELBASE LESS THAN 107", E.G. JEEP, BRONCO)
- (15) LARGE UTILITY (WHEELBASE MORE THAN 107", E.G. PANEL TRUCK, SUBURBAN)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (17) PICKUP CAR WITH CANOPY/SHELL COVER
- (21) MOTOR HOME
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (23) PICKUP CAR WITH SLIDE-IN CAMPER
- (31) CHASSIS-MOUNTED CAMPER

TRUCK

- (11) SMALL VAN (E.G. ECONOLINE)
- (12) PICKUP TRUCK
- (13) UNKNOWN LIGHT TRUCK
- (15) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (30) UNKNOWN TRUCK TYPE
- (31) CHASSIS-MOUNTED CAMPER
- (33) DELIVERY VAN (WALK-IN)
- (34) STRAIGHT TRUCK
- (35) TRUCK-TRACTOR (BOBTAIL)
- (36) CHASSIS-CAB
- (37) UNKNOWN HEAVY TRUCK
- (38) TRACTOR & SEMI-TRAILER (SEMI)
- (39) TRUCK (OR SEMI) & FULL TRAILER(S)

Bus

- (40) UNKNOWN BUS TYPE
- (41) SCHOOL BUS
- (42) INTERCITY BUS (BETWEEN CITIES)
- (43) TRANSIT BUS (INTRACITY)
- (44) STREETCAR (ON TRACKS)

MOTORCYCLE

- (50) UNKNOWN MOTORCYCLE TYPE
- (51) 1- 75cc
- (52) 76-125cc
- (53) 126-250cc
- (54) 251-500cc
- (55) 501-750cc
- (56) 751cc+
- (57) 3-WHEELS (OR WITH SIDECAR)

SPECIAL PURPOSE VEHICLE

- (60) UNKNOWN/OTHER SPECIAL VEHICLE (DESCRIBE)
- (61) SNOWMOBILE
- (62) ATV (ALL TERRAIN VEHICLE)
- (63) AMPHIBIOUS VEHICLE
- (64) FARM VEHICLE
- (65) CONSTRUCTION VEHICLE
- (66) TRAILER, PRIVATE (CAMPER)
- (67) TRAILER, COMMERCIAL (CARGO)
- (68) TRAIN (CARS)
- (69) LOCOMOTIVE (ENGINE, SWITCHER)

OBJECT

- (70) PEDESTRIAN
- (71) BICYCLIST, OTHER PEDALCYCLIST
- (72) PEDESTRIAN CONVEYANCE (E.G. PERSON RIDING ANIMAL, CART)
- (73) LARGE ANIMAL
- (74) FALLEN OBJECT (E.G. OBJECT DISLODGED FROM OTHER VEHICLE, FALLEN TREE, ROCKS)
- (75) ROCKS
- (76) CONSTRUCTION EQUIPMENT (EXCLUDING (65))
- (77) SIGN POST, UTILITY POLE, TREE
- (78) DITCH
- (79) EMBANKMENT, SNOWBANK, RR TRACKS, RR X
- (80) GROUND (ROLLOVER ONLY)
- (81) CURB (DAMAGE PRODUCING IMPACTS ONLY)
- (82) CULVERT
- (83) FENCE
- (84) HYDRANT, SHORT POST, STUMP
- (85) SMALL POST/TREE, RURAL MAIL BOX, MILE MARKER, DELINEATOR
- (86) BUILDING
- (87) PIER, PILLAR, BRIDGE SUPPORT
- (88) ABUTMENT, RETAINING WALL
- (89) BRIDGE RAIL
- (90) GUARD RAIL, LEADING SECTION
- (91) GUARD RAIL, MIDDLE OR UNKNOWN
- (92) GUARD RAIL, TRAILING SECTION
- (93) GUARD POST (TIMBER, METAL, CONCRETE)
- (94) CABLE, FENCE BARRIER
- (95) CONCRETE BARRIER (MEDIAN)
- (96) IMPACT ATTENUATOR
- (97) BREAKAWAY FEATURES

Duplicate columns 1-8 from the previous card.

Module C R
9 10

Format 0 1
11 12

CRASH RECONSTRUCTION CR-2

	CASE VEHICLE PRIMARY IMPACT		CASE VEHICLE SECONDARY IMPACT	
	CASE VEHICLE	CONTACTED VEHICLE	CASE VEHICLE	CONTACTED VEHICLE
EVENT NUMBER	<u>13</u>		<u>47</u>	
ΔV (km/h) TOTAL	<u>14</u> <u>16</u>	<u>32</u> <u>34</u>	<u>78</u> <u>50</u>	<u>66</u> <u>68</u>
LONGITUDINAL*	<u>17</u> <u>20</u>	<u>35</u> <u>38</u>	<u>51</u> <u>51</u>	<u>67</u> <u>72</u>
LATERAL*	<u>21</u> <u>24</u>	<u>39</u> <u>42</u>	<u>55</u> <u>55</u>	<u>73</u> <u>76</u>
*NOTE: THESE ΔV COMPONENTS MUST INCLUDE SIGN. EXAMPLES: 10km/h = <u>+ 0 1 0</u> -7km/h = <u>- 0 0 7</u>				
ENERGY DISSIPATED BY CRUSH (kJ)	<u>25</u> <u>28</u>	<u>43</u> <u>46</u>	<u>54</u> <u>62</u>	<u>77</u> <u>80</u>
RECONSTRUCTION				
(01) RECONSTRUCTED	<u>29</u> <u> </u>		<u>63</u> <u> </u>	
NOT RECONSTRUCTED BECAUSE				
(02) INSUFFICIENT DATA				
(03) EXCESSIVE UNDERRIDE/ OVERRIDE				
(04) ROLLOVER				
(05) VAULTING				
(06) OTHER TRAVEL IN MORE THAN ONE PLANE				
(07) OTHER NON-HORIZONTAL FORCE				
(08) SKIDDING SIDWAYS				
(09) YIELDING FIXED OBJECT				
(10) OTHER: _____				
MODE				
(1) CDC ONLY				
(2) CDC & DETAILED DAMAGE	<u>31</u>		<u>65</u>	
(3) TRAJECTORY & CDC				
(4) TRAJECTORY & CDC & DETAILED DAMAGE				
(5) NOT RECONSTRUCTED				

Duplicate columns 1-8
from the previous card.

Module $\frac{W}{9}$ $\frac{T}{10}$ Format $\frac{0}{11}$ $\frac{1}{12}$

WHEELS AND TIRES WT-1

<p>WHEELS--DAMAGED</p> <p>(1) YES (2) NO (9) UNKNOWN</p>	<p>LF <u>13</u></p> <p>RF <u> </u></p> <p>RR <u> </u></p> <p>LR <u>16</u></p>	<p>TIRE TREAD DEPTH (mm)</p> <p>(MEASURE NEAR CENTER OF TIRE.)</p> <p>(99) UNKNOWN</p>	<p>LF <u>27</u> <u>30</u></p> <p>RF <u> </u> <u> </u></p> <p>RR <u> </u> <u> </u></p> <p>LR <u>35</u> <u>30</u></p>
<p>TIRE TREAD TYPE</p> <p>(1) REGULAR (2) SNOW (3) SLICKS (7) OTHER: _____ (9) UNKNOWN</p>	<p>LF <u>17</u></p> <p>RF <u> </u></p> <p>RR <u> </u></p> <p>LR <u>20</u></p>	<p>PRESSURE (kPa)</p> <p>(999) UNKNOWN</p>	<p>LF <u>37</u> <u> </u> <u>39</u></p> <p>RF <u> </u> <u> </u> <u> </u></p> <p>RR <u> </u> <u> </u> <u> </u></p> <p>LR <u>46</u> <u> </u> <u>48</u></p>
<p>INTENDED USE OF TIRE</p> <p>(1) PASSENGER (2) TRUCK (7) OTHER: _____ (9) UNKNOWN</p>	<p>LF <u>21</u></p> <p>RF <u> </u></p> <p>RR <u> </u></p> <p>LR <u>24</u></p>	<p>MAXIMUM INFLATION PRESSURE (kPa)</p> <p>(999) UNKNOWN</p>	<p>LF <u>49</u> <u> </u> <u>51</u></p> <p>RF <u> </u> <u> </u> <u> </u></p> <p>RR <u> </u> <u> </u> <u> </u></p> <p>LR <u>53</u> <u> </u> <u>60</u></p>
<p>CARCASS CONSTRUCTION</p> <p>(1) BIAS (2) BELTED BIAS (3) RADIAL (4) ELLIPTICAL (5) HI PRESSURE SPARE (6) SPACE SAVER SPARE (7) OTHER: _____ (9) UNKNOWN</p>	<p>LF <u>25</u></p> <p>RF <u> </u></p> <p>RR <u> </u></p> <p>LR <u>28</u></p>	<p>IF VEHICLE IS EQUIPPED WITH DUAL WHEELS, COMPLETE FOR OUTER WHEELS AND MAKE NOTES ON INNER WHEELS.</p> <p>NOTES: _____</p> <p>_____</p> <p>_____</p>	

Duplicate columns 1-8
from the previous card.

Module $\frac{W}{9}$ $\frac{T}{10}$ Format $\frac{0}{11}$ $\frac{2}{12}$

<p>SIZE (NOT DOT CODE. IF UNKNOWN, USE 9'S.)</p> <p>LF <u>13</u> _____ <u>22</u></p> <p>RF <u>23</u> _____ <u>32</u></p> <p>RR <u>33</u> _____ <u>42</u></p> <p>LR <u>43</u> _____ <u>52</u></p>	<p>BRAND (WRITE NAME.)</p> <p>LF _____</p> <p>RF _____</p> <p>RR _____</p> <p>LR _____</p>
--	--

Duplicate columns 1-8
from the previous card.

Module $\frac{F}{9}$ $\frac{T}{10}$

Format $\frac{0}{11}$ $\frac{1}{12}$

FUEL AND FUEL TANKS FT-1

TYPE OF PROPULSIVE FUEL	<u>13</u>	AUXILIARY TANK TYPE	<u>21</u>
(1) GASOLINE (2) DIESEL OIL (3) LPG (7) OTHER: _____ (9) UNKNOWN		(1) OEM TANK (2) AFTER MARKET TANK (8) NOT APPLICABLE (NOT EQUIPPED) (9) UNKNOWN	
MAIN TANK LOCATION	<u>14</u> <u>16</u>	AUXILIARY TANK LOCATION	<u>22</u> <u>24</u>
MAIN FILLER CAP LOCATION	<u>17</u> <u>19</u>	AUXILIARY FILLER CAP LOCATION	<u>25</u> <u>27</u>
MAIN TANK MATERIAL	<u>20</u>	AUXILIARY TANK MATERIAL	<u>28</u>

TANK AND FILLER CAP LOCATION CODES

FIRST DIGIT (LONGITUDINAL)

- (1) BEHIND KICK-UP
- (2) IN KICK-UP
- (3) BETWEEN KICK-UP & FIREWALL
- (4) FORWARD OF FIREWALL
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

SECOND DIGIT (LATERAL)

- (1) LEFT OF FRAME
- (2) WITHIN FRAME OR CENTERED
- (3) RIGHT OF FRAME
- (4) DUAL, RIGHT & LEFT TANKS
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

THIRD DIGIT (VERTICAL)

- (1) BELOW FRAME
- (2) WITHIN FRAME OR CENTERED
- (3) ABOVE FRAME
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

TANK MATERIAL CODES

- (1) STEEL
- (2) ALUMINUM
- (3) PLASTIC
- (7) OTHER
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

DID FUEL LEAKAGE RESULT FROM A CRASH EVENT

(1) YES COMPLETE PAGE.

(2) NO SKIP PAGE.

13

LEAK NUMBER	I LEAKING COMPONENT	II COMPONENT SOURCE	III TYPE OF DAMAGE	IV SEVERITY OF DAMAGE	V LOCATION OF LEAK	EVENT NUMBER
#1	<u>14</u> —	—	—	—	— —	<u>21</u>
#2	<u>22</u> —	—	—	—	— —	<u>29</u>
#3	<u>30</u> —	—	—	—	— —	<u>37</u>
#4	<u>38</u> —	—	—	—	— —	<u>45</u>
#5	<u>46</u> —	—	—	—	— —	<u>53</u>

I LEAKING COMPONENT

TANK AREA

- (11) MAIN FUEL TANK (INCLUDING VAPOR RECOVERY DOME)
- (12) AUXILIARY FUEL TANK
- (13) MAIN TANK FILLER TUBE
- (14) MAIN TANK CAP (GAS CAP)
- (15) AUXILIARY TANK FILLER TUBE
- (16) AUXILIARY TANK CAP (GAS CAP)
- (19) TANK AREA, DETAILS UNKNOWN

DELIVERY SYSTEM

- (21) FUEL FEED LINE (MAIN TANK TO FUEL PUMP)
- (22) FUEL FEED LINE (AUXILIARY TANK TO FUEL PUMP)
- (23) FUEL RETURN LINE (FUEL PUMP TO TANK)
- (24) INLINE FUEL FILTER
- (25) FUEL LINE (PUMP TO CARBURETOR OR INJECTOR PUMP)
- (26) CARBURETOR TO INJECTOR PUMP
- (27) FUEL PUMP
- (29) DELIVERY SYSTEM, DETAILS UNKNOWN

EVAPORATIVE EMISSION CONTROL SYSTEM

- (31) ATMOSPHERIC VENT PIPE (NON-ECC EQUIPPED)
- (32) EEC PIPE (VAPOR CANISTER TO CARBURETOR)

I LEAKING COMPONENT

EEC SYSTEM (CONTINUED)

- (33) VAPOR RECOVERY HOSES (CANISTER TO CARBURETOR)
- (34) LIQUID-VAPOR SEPARATOR (UNLESS PART OF TANK)
- (35) CANISTER
- (39) EEC SYSTEM, DETAILS UNKNOWN

- (49) ENGINE COMPARTMENT, COMPONENT UNKNOWN
- (99) COMPONENT UNKNOWN

II COMPONENT SOURCE

- (1) OEM
- (2) AFTER MARKET
- (9) UNKNOWN

III TYPE OF DAMAGE

- (1) DENTED/CRUSHED
- (2) PUNCTURED
- (3) RUPTURED
- (4) SEVERED/GROSS TEARS
- (5) DISCONNECTED/DEFEATED
- (9) UNKNOWN

IV SEVERITY OF DAMAGE

- (1) MINOR
- (2) MODERATE
- (3) SEVERE
- (4) DISCONNECTED/DEFEATED
- (9) UNKNOWN

V LOCATION OF LEAK

FIRST DIGIT

(LONGITUDINAL LOCATION)

- (1) F, FORWARD OF FIREWALL
- (2) P, BETWEEN FIREWALL & REAR BULKHEAD
- (3) B, BEHIND REAR BULKHEAD
- (4) Y, F & P
- (5) Z, P & B
- (6) D, DISTRIBUTED (F, P & B)
- (9) UNKNOWN

SECOND DIGIT

(LATERAL LOCATION)

- (1) L, LEFT
- (2) C, CENTER
- (3) R, RIGHT
- (4) Y, LEFT CENTER (L & C)
- (5) Z, RIGHT CENTER (R & C)
- (6) D, DISTRIBUTED (F, P & B)
- (9) UNKNOWN

Duplicate columns 1-8
from the previous card.

Module F R Format 0 1
9 10 11 12

FIRE FR-1

WAS THERE FIRE IN OR ON CASE VEHICLE

(1) YES COMPLETE PAGE.

(2) NO SKIP PAGE.

13

DID FIRE START IN CASE VEHICLE

- (1) YES
- (2) NO
- (9) UNKNOWN

14

SEVERITY OF FIRE DAMAGE

- (1) MINOR
- (2) MODERATE
- (3) SEVERE
- (9) UNKNOWN

16

FLAME PROPOGATION RATE

- (1) RAPID/EXPLOSIVE
- (2) SLOW/MODERATE
- (9) UNKNOWN

15

DID AN INJURY TO CASE
VEHICLE OCCUPANT RESULT FROM
FIRE IN OR ON CASE VEHICLE

- (1) YES
- (2) NO
- (9) UNKNOWN

17

PROVIDE NOTES IF FIRE OCCURRED.

SOURCE OF INITIAL BURNING MATERIAL: _____

IGNITION MECHANISM: _____

IGNITION LOCATION IN VEHICLE: _____

WHAT BURNED AND LOCATION: _____

DESCRIBE DAMAGE FROM FIRE: _____

DESCRIBE FIRE INJURIES: _____

HOOD PERFORMANCE

FOR THE FOLLOWING, USE CODES:

- (1) YES
- (2) NO
- (8) NOT APPLICABLE
- (9) UNKNOWN

HOOD LATCH(ES)- -RELEASED 13

-DAMAGED 14

-JAMMED 15

HOOD HINGES- -LEFT, DAMAGED 16

-LEFT, SEPARATED
(COMPLETE) 17

-RIGHT, DAMAGED 18

-RIGHT, SEPARATED
(COMPLETE) 19

HOOD REMAINED ON VEHICLE 20

REAR EDGE OF HOOD- -ELEVATED 21

-CONTACTED WINDSHIELD 22

-PENETRATED WINDSHIELD 23

OPTIONAL HOOD INSTALLED 24

ENGINE OR TRANSMISSION MOUNT

SEPARATION (COMPLETE)

- (1) YES
 - (2) NO
 - (9) UNKNOWN
- 25

STEERING COL FLEXIBLE COUPLING

FLEXIBLE COUPLING TYPE

- (0) NONE 26
- (1) FLEXIBLE MATERIAL
- (2) POT
- (3) SINGLE U-JOINT
- (4) DOUBLE U-JOINT
- (5) FLEXIBLE CABLE
- (6) COMBINATION OF ABOVE
(CIRCLE EACH)
- (7) OTHER:
- (8) EQUIPPED, TYPE UNKNOWN
- (9) UNKNOWN IF EQUIPPED

COUPLING- -DAMAGED 27

(USE CODES FROM HOOD PERFORMANCE)

-SEPARATED
(COMPLETE) 28

ENG COMPART TELESCOPING UNIT

TYPE OF UNIT

- (00) NONE INSTALLED
- (01)-(05) SEE UNITS ON PAGE ED-2 29
- (97) OTHER:
- (98) EQUIPPED, TYPE UNKNOWN
- (99) UNKNOWN IF EQUIPPED

ORIGINAL LENGTH (mm)

F (OR H): _____

TELESCOPED LENGTH (mm)

G: _____

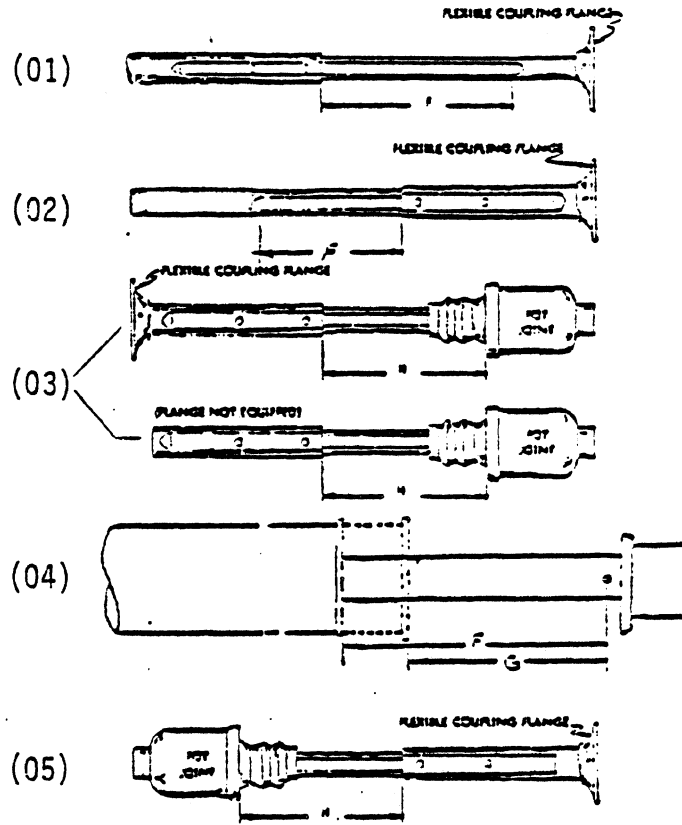
DIFFERENCE (mm)

F (OR H) - G

(IF LESS THAN 15mm, ENTER "000".)

- (991) NOT MEASURED/NO COMPRESSION 31
- (992) COMPRESSED, AMOUNT UNKNOWN
- (993) DEVICE EXTENDED
- (997) UNABLE TO BE MEASURED
- (998) NOT APPLICABLE (NOT EQUIPPED)
- (999) UNKNOWN 33

ENGINE COMPARTMENT TELESCOPING UNIT TYPES



LEFT-SIDE BODY MOUNT

DID BODY MOUNT SEPARATE

- (1) YES
- (2) NO
- (8) NOT APPLICABLE (UNITIZED)
- (9) UNKNOWN

34

LEFT PILLARS

PILLARS SEPARATED COMPLETELY-

USE CODES:

- (1) YES
- (2) NO
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

-A-PILLAR, UPPER

35

LOWER

36

-B-PILLAR, UPPER

37

LOWER

38

-C-PILLAR, UPPER

39

LOWER

40

-D-PILLAR, UPPER

41

LOWER

42

LEFT DOORS

HOW DID DOORS
OPEN DURING COLLISION-

USE CODES:

(0) DOOR DID NOT OPEN

OPENED BECAUSE OF

- (1) HINGE AREA SEPARATION
- (2) DOOR-LATCH SEPARATION
- (3) LATCH-STRIKER SEPARATION
- (4) STRIKER-PILLAR SEPARATION
- (5) BODY DISTORTION
- (6) COMBINATION OF ABOVE
(CIRCLE EACH)
- (7) OPENED, REASON UNKNOWN

- (8) NOT APPLICABLE (NO DOOR)
- (9) UNKNOWN

-FRONT

43

-REAR

44

DOORS JAMMED CLOSED-

USE CODES:

- (1) YES
- (2) NO
- (8) NOT APPLICABLE (NO DOOR)
- (9) UNKNOWN

-FRONT

45

-REAR

46

REAR DOOR

REAR DOOR TYPE

- (0) NO DOOR (INCLUDES PICKUPS)
- (1) HATCHBACK
- (2) ONE-WAY TAILGATE
- (3) TWO-WAY TAILGATE
- (4) CLAMSHELL/DISAPPEARING TAILGATE
- (5) SINGLE DOOR
- (6) DOUBLE DOOR
- (9) UNKNOWN

47

HOW DID DOOR OPEN DURING COLLISION

- (0) DOOR DID NOT OPEN

48

OPENED BECAUSE OF

- (1) HINGE AREA SEPARATION
- (2) DOOR-LATCH SEPARATION
- (3) LATCH-STRIKER SEPARATION
- (4) STRIKER-PILLAR SEPARATION
- (5) BODY DISTORTION
- (6) COMBINATION OF ABOVE (CIRCLE EACH)
- (7) OPENED, REASON UNKNOWN
- (8) NOT APPLICABLE (NO DOOR)
- (9) UNKNOWN

DOOR JAMMED CLOSED

- (1) YES
- (2) NO
- (8) NOT APPLICABLE (NO DOOR)
- (9) UNKNOWN

49

OTHER REAR DAMAGE

WAS PARTITION TO LUGGAGE AREA DAMAGED DURING COLLISION

- (1) YES
- (2) NO
- (8) NOT APPLICABLE
- (9) UNKNOWN

50

SPARE TIRE

- (0) NO SPARE TIRE
- (1) NOT ATTACHED BEFORE COLLISION
- (2) ATTACHED, NOT SEPARATED IN COLLISION
- (3) ATTACHED, SEPARATED DUE TO COLLISION
- (9) UNKNOWN

51

TRAILER HITCH TYPE

- (0) NO HITCH
- (1) BALL & SOCKET, TEMPORARY BUMPER (E.G. RENTAL CLAMP-ON)
- (2) BALL & SOCKET, BUMPER ONLY (E.G. LIGHT TRUCK)
- (3) BALL & SOCKET, FRAME HITCH (E.G. FRAME/BODY & BUMPER)
- (4) EQUALIZING, LOAD DISTRIBUTING
- (5) RING & PINTLE (E.G. DOUBLE TRAILER)
- (6) FIFTH WHEEL (E.G. SEMI)
- (7) OTHER (E.G. CLEVIS & PIN):
- (8) EQUIPPED, TYPE UNKNOWN
- (9) UNKNOWN

52

TRAILER TYPE

(AT TIME OF COLLISION)

- (0) NO TRAILER
- (1) TRAVEL-TRAILER/CAMPER
- (2) MOBILE HOME
- (3) BOAT/SNOWMOBILE/ATV TRAILER
- (4) UTILITY TRAILER
- (5) TOWED CAR
- (7) OTHER:
- (8) TRAILER, TYPE UNKNOWN
- (9) UNKNOWN

53

RIGHT-SIDE BODY MOUNT

DID BODY MOUNT SEPARATE

- (1) YES
- (2) NO
- (8) NOT APPLICABLE (UNITIZED)
- (9) UNKNOWN

54

RIGHT PILLARS

PILLARS SEPARATED COMPLETELY-

USE CODES

- (1) YES
- (2) NO
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

-A-PILLAR, UPPER

55

LOWER

56

-B-PILLAR, UPPER

57

LOWER

58

-C-PILLAR, UPPER

59

LOWER

60

-D-PILLAR, UPPER

61

LOWER

62

RIGHT DOORS

HOW DID DOORS
OPEN DURING COLLISION-

USE CODES:

(00) DOOR DID NOT OPEN

OPENED BECAUSE OF

- (01) HINGE AREA SEPARATION
- (02) DOOR-LATCH SEPARATION
- (03) LATCH-STRIKER SEPARATION
- (04) STRIKER-PILLAR SEPARATION
- (05) BODY DISTORTION
- (06) COMBINATION OF ABOVE
(CIRCLE EACH)
- (07) OPENED, REASON UNKNOWN
- (11) VAN RIGHT-REAR DOOR OPENED
(ANY MECHANISM)

(98) NOT APPLICABLE (NO DOOR)

(99) UNKNOWN

-FRONT

63

-REAR

65

DOORS JAMMED CLOSED-

USE CODES:

- (1) YES
- (2) NO
- (8) NOT APPLICABLE (NO DOOR)
- (9) UNKNOWN

-FRONT

67

-REAR

68

VAN RIGHT-REAR DOOR TYPE

- (0) VAN, NO RIGHT-REAR DOOR
- (1) TRACK (SLIDING)
- (2) SINGLE-HINGED
- (3) DOUBLE-HINGED
- (8) NOT APPLICABLE (NOT A VAN)
- (9) UNKNOWN

69

WINDSHIELD DAMAGE

WINDSHIELD CRACKED

- (1) YES
- (2) NO
- (8) NOT APPLICABLE
- (9) UNKNOWN

70

WINDSHIELD BROKEN
(PLASTIC INTERLAYER TORN)

- (1) YES
- (2) NO
- (8) NOT APPLICABLE
- (9) UNKNOWN

71

CRACKED OR BROKEN
BY OCCUPANT CONTACT

- (1) YES
- (2) NO
- (8) NOT APPLICABLE
- (9) UNKNOWN

72

EXTENT OF BOND SEPARATION

- (0) NONE
- (1) 1-20%
- (2) 21-40
- (3) 41-60
- (4) 61-80
- (5) 81-99
- (6) TOTAL
- (7) SEPARATED, AMOUNT UNKNOWN
- (8) NO WINDSHIELD
- (9) UNKNOWN IF SEPARATED

73

WINDSHIELD MARK

DRAW GLASS MANUFACTURER'S WINDSHIELD MARK (LOCATED ALONG BOTTOM OF WINDSHIELD AT CENTER OR AT ONE CORNER).

EXAMPLE OF TYPICAL MARK:

SAFETY  FLO-LITE
AS-1
LAMINATED
DOT 16 W 52

WINDSHIELD MARK ON CASE VEHICLE:

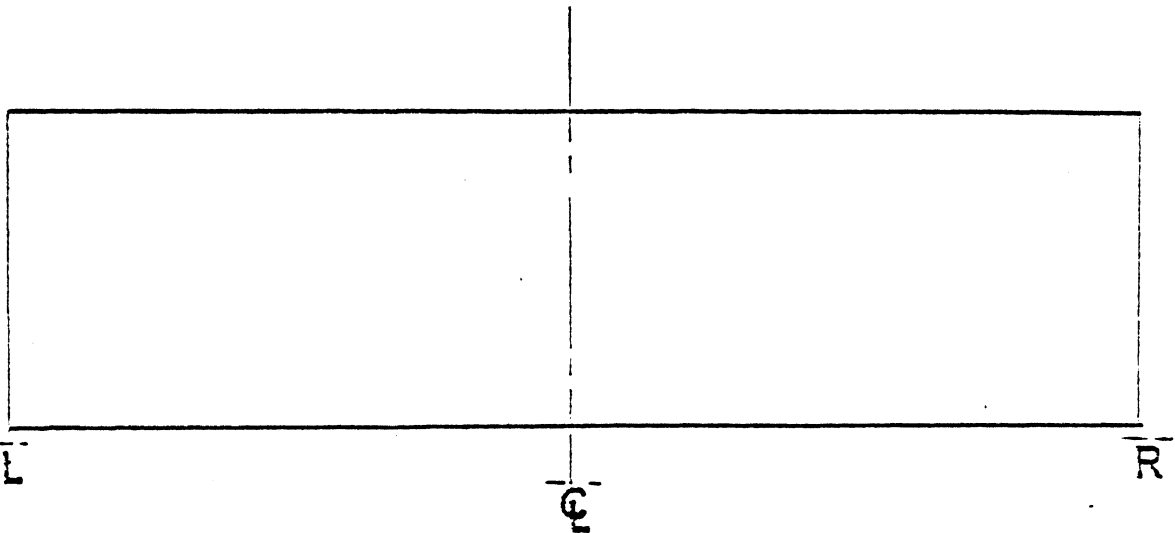
DOT _____

WINDSHIELD CODE

- (98) NOT APPLICABLE (NO WINDSHIELD)
- (99) UNKNOWN

75

LOCATE AREA OF WINDSHIELD INTEREST OR DAMAGE WITH DIMENSIONS (VERTICAL & HORIZONTAL) ON THIS DIAGRAM OF THE WINDSHIELD AS VIEWED FROM INSIDE.



STEERING WHEEL

STEERING WHEEL RIM DAMAGE

- (0) NONE
- (1) DEFORMED SLIGHTLY
- (2) SEVERELY BENT
- (3) BROKEN
- (9) UNKNOWN

13

NUMBER OF
STEERING WHEEL SPOKES

- (9) UNKNOWN

14

STEERING WHL SPOKE DAMAGE

- (0) NONE
- (1) DEFORMED SLIGHTLY
- (2) SEVERELY BENT
- (3) BROKEN
- (9) UNKNOWN

15

STEERING COLUMN OPTIONS

TILT FEATURE

- (1) YES, EQUIPPED
- (2) NOT EQUIPPED
- (9) UNKNOWN IF EQUIPPED

16

SWING-AWAY FEATURE

- (1) YES, EQUIPPED
- (2) NOT EQUIPPED
- (9) UNKNOWN IF EQUIPPED

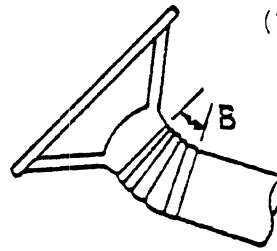
17

TELESCOPING FEATURE

- (1) YES, EQUIPPED
- (2) NOT EQUIPPED
- (9) UNKNOWN IF EQUIPPED

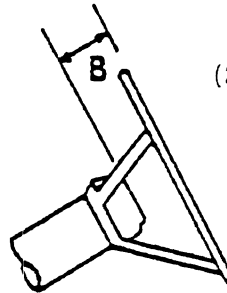
18

STEERING WHL ENERGY ABSORBING DEVICE



(1) EXAMPLES:

- BARRACUDA, 70-74
- CHALLENGER, 70-74
- CAPRI, 71-77



(2) EXAMPLES:

- OMNI, 78-
- HORIZON, 78-

TYPE OF DEVICE

- (0) NONE
- (1) CONVOLUTED OR MESH CYLINDER
- (2) DEEP DISH STEERING WHEEL
- (7) OTHER: _____
- (9) UNKNOWN IF EQUIPPED

19

ORIGINAL DIMENSION (mm)

A: _____

17

DAMAGE DIMENSION (mm)

B: _____

DIFFERENCE (mm)

A - B

- (991) NOT MEASURED/NO APPARENT COMPRESSION
- (992) COMPRESSED, AMOUNT UNKNOWN
- (998) NOT APPLICABLE (NOT EQUIPPED)
- (999) UNKNOWN

20 22

STEERING COL ENERGY ABSORBING DEVICE

TYPE OF DEVICE

- (00) NOT EQUIPPED
- (99) UNKNOWN

23

ORIGINAL LENGTH (mm)

C: _____

COMPRESSED LENGTH (mm)

D: _____

COMPRESSION (OR EXTRUSION) (mm)

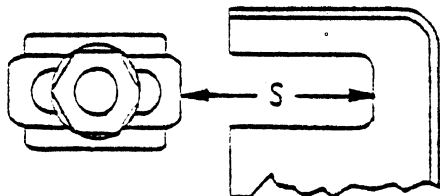
C - D (OR E) (TOLERANCE: ±10)

- (991) NOT MEASURED/NO APPARENT COMPRESSION
- (992) COMPRESSED, AMOUNT UNKNOWN
- (993) DEVICE EXTENDED
- (997) UNABLE TO BE MEASURED
- (998) NOT APPLICABLE (NOT EQUIPPED)
- (999) UNKNOWN

25 27

SHEAR CAPSULE SEPARATION (mm)

S (USE AVG. OF LEFT & RIGHT CAPSULES.)



- (991) NOT MEASURED/NO APPARENT SEPARATION
- (992) SEPARATED, AMOUNT UNKNOWN
- (997) UNABLE TO BE MEASURED
- (998) NOT APPLICABLE (NOT EQUIPPED)
- (999) UNKNOWN

28 30

COLUMN VERTICAL ROTATION

- (0) NO APPARENT ROTATION
- (1) UPWARD APPARENT ROTATION
- (2) DOWNWARD APPARENT ROTATION
- (9) UNKNOWN

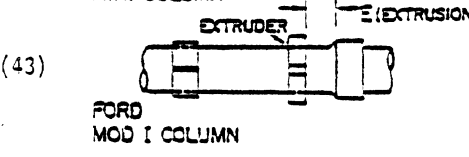
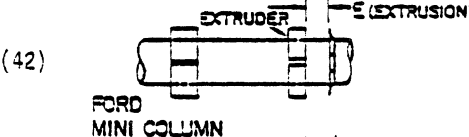
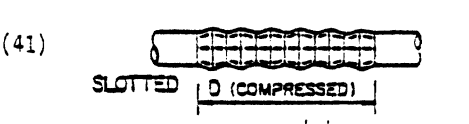
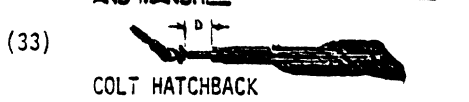
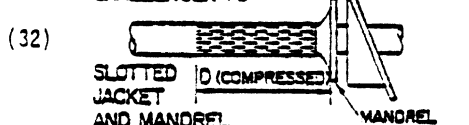
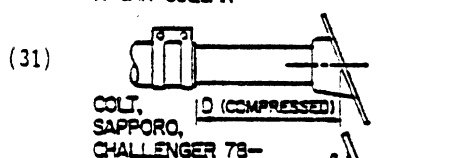
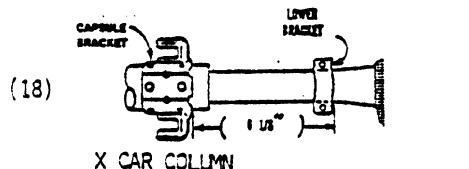
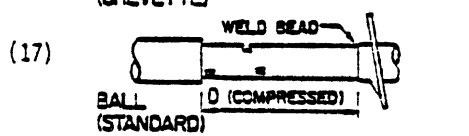
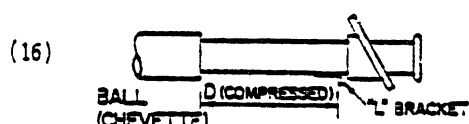
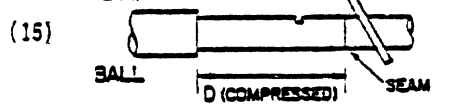
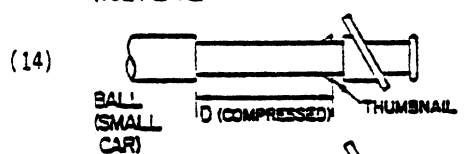
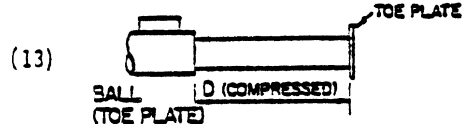
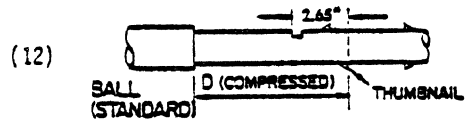
31

COLUMN LATERAL MOVEMENT

- (0) NO APPARENT MOVEMENT
- (1) LEFT APPARENT MOVEMENT
- (2) RIGHT APPARENT MOVEMENT
- (9) UNKNOWN

32

COLUMN DEVICE TYPES



CODES FOR COLUMN B, OCCUPANT SPACE NUMBER

OCCUPANT SPACE NUMBER IS A TWO-DIGIT CODE. THE USE OF THE CODE IS DETERMINED BY THE VEHICLE SEAT CONFIGURATION AT THE TIME OF THE ACCIDENT.

FIRST DIGIT

THE FIRST DIGIT (LEFT DIGIT) DENOTES THE SEAT ROW, WITH CODE VALUES FROM 1 TO 5.

SECOND DIGIT

THE SECOND DIGIT (RIGHT DIGIT) DENOTES THE POSITION ON THE SEAT AND, IN SOME INSTANCES, THE WIDTH OF THE SEAT.

- (1) LEFT (3) RIGHT INDIVIDUAL SEAT
- (1) LEFT (2) CENTER (3) RIGHT BENCH: FULL WIDTH 3 PASSENGER
- (1) LEFT (2) LEFT CENTER (6) RIGHT CENTER (3) RIGHT BENCH: FULL WIDTH 4 PASSENGER
- (1) LEFT (2) CENTER (5) RIGHT & BENCH: PARTIAL WIDTH, LEFT AISLE SPACE
- (0) LEFT & SPACE (2) CENTER (5) RIGHT & BENCH: PARTIAL WIDTH, CENTERED SPACE
- (4) ENTIRE VEHICLE WIDTH CARGO AREA

EXAMPLES

THE TWO FIGURES BELOW PROVIDE EXAMPLES OF THE OCCUPANT SPACE NUMBER.

PASSENGER CAR
5 PASSENGERS

X	X	11	13
X	X	X	21 22 23

VAN
12 PASSENGER CAPACITY

X	X	11	13	
X	X	X	21 22 23	
X	X	X	31 32 33	
X	X	X	X	41 42 43 43

CODES FOR COLUMN F, MEASUREMENT AXIS

- (X) X-AXIS (FORE & AFT)
- (Y) Y-AXIS (LATERAL)
- (Z) Z-AXIS (VERTICAL)

CODES FOR COLUMNS G, H, I & J, OCCUPANT & INJURY NUMBERS

OCCUPANT NUMBER	INJURY NUMBER	CONTACT
(00)	(00)	NO CONTACT
(#)	(00)	CONTACT, NO INJURY
(97)	(99)	CONTACT, OCCUPANT UNKNOWN, INJURY UNKNOWN
(99)	(00) or (99)	UNKNOWN IF CONTACT

CODES FOR COLUMN C, INTRUDING COMPONENT OR OBJECT

NOTE: DO NOT CODE OBJECTS OTHER THAN COMPONENTS OF CASE VEHICLE.

INDIVIDUAL COMPONENT

INTERNAL

- (01) INSTRUMENT PANEL
- (02) FIRE WALL
- (03) TOE PAN
- (04) FLOOR PAN
- (05) STEERING COLUMN
- (06) WINDSHIELD
- (07) WINDSHIELD HEADER
- (08) A-PILLAR
- (09) DOOR PANEL OR SIDE PANEL
- (10) WINDOW FRAME
- (11) B-PILLAR
- (12) C-PILLAR
- (13) D-PILLAR
- (14) ROOF SIDE RAILS
- (15) ROOF OR CONVERTIBLE TOP
- (16) BACKLIGHT HEADER
- (17) FRONT SEAT-BACK SURFACE/
SEAT-BACK BACK SURFACE
- (18) SECOND SEAT-BACK SURFACE/
SEAT-BACK BACK SURFACE
- (19) THIRD SEAT-BACK SURFACE/
SEAT-BACK BACK SURFACE
- (20) FOURTH SEAT-BACK SURFACE/
SEAT-BACK BACK SURFACE
- (21) FIFTH SEAT-BACK SURFACE/
SEAT-BACK BACK SURFACE
- (22) BACK PANEL/BACK DOOR SURFACE
- (23) SEAT CUSHION SURFACE/EDGE
- (24) CONSOLE
- (25) OTHER (*DESCRIBE*)
- (26) UNKNOWN INTERNAL SURFACES

EXTERNAL

- (43) HOOD
- (44) OBJECT EXTERNAL TO PASSENGER COMPARTMENT
BUT PART OF CASE VEHICLE
- (45) OUTSIDE SURFACE OF CASE VEHICLE
- (46) OTHER (*E.G. SPARE TIRE, JACK. DESCRIBE.*)
- (49) UNKNOWN EXTERNAL OBJECT

GROUPED FOR MASSIVE INTRUSION INTO AN OCCUPANT SPACE

*USE ONLY IF ALL THESE COMPONENTS
INTRUDED INTO A SINGLE OCCUPANT SPACE.*

- | | |
|--|--|
| (51) INSTRUMENT PANEL
A-PILLAR
DOOR PANEL | (60) ROOF
ROOF RAIL
A-PILLAR
B-PILLAR
C-PILLAR
WINDOW FRAME
DOOR PANEL
FLOOR PAN |
| (52) INSTRUMENT PANEL
A-PILLAR
WINDSHIELD HEADER | (61) INSTRUMENT PANEL
TOE PAN
WINDSHIELD HEADER
A-PILLAR
ROOF RAIL
WINDOW FRAME
DOOR PANEL
ROOF |
| (53) DOOR PANEL
B-PILLAR
ROOF RAIL | (62) ROOF
ROOF RAIL
C-PILLAR
WINDOW FRAME
FLOOR PAN
SECOND SEAT
DOOR PANEL |
| (54) DOOR PANEL
A-PILLAR
ROOF RAIL | (63) ROOF RAIL
ROOF
B-PILLAR
WINDOW FRAME
FLOOR PAN
DOOR PANEL
SECOND SEAT
FRONT SEAT |
| (55) INSTRUMENT PANEL
FLOOR PAN
A-PILLAR
DOOR FRAME | (64) ROOF RAIL
ROOF OR CONVERTIBLE TOP
A-PILLAR
B-PILLAR
WINDOW FRAME
WINDSHIELD HEADER |
| (56) ROOF RAIL
A-PILLAR
B-PILLAR
WINDOW FRAME | |
| (57) ROOF RAIL
A-PILLAR
B-PILLAR
C-PILLAR
DOOR PANEL | |
| (58) ROOF
ROOF RAIL
WINDOW FRAME
DOOR PANEL | |
| (59) BACKLIGHT HEADER
ROOF
C-PILLAR
THIRD SEAT-BACK | |

(98) NOT APPLICABLE

(99) UNKNOWN

Duplicate columns 1-8 from the previous card.

Module $\frac{I}{9} \frac{T}{10}$ Format $\frac{0}{11} \frac{1}{12}$

INTRUSION IT-3

WAS THERE OCCUPANT COMPARTMENT INTRUSION 13

- (1) YES ANSWER NEXT QUESTION.
 (2) NO DO NOT ANSWER NEXT QUESTION. SKIP PAGE.

WAS INTRUSION CATASTROPHIC 14

- (1) YES SKIP PAGE.
 (2) NO COMPLETE PAGE.

Duplicate columns 1-8 from the previous card.

Module $\frac{I}{9} \frac{T}{10}$ Format $\frac{0}{11} \frac{2}{12}$

NOTE: Each line in the table below is a separate record (card). Duplicate columns 1-12 for each completed line.

INTRUSIONS

CODE INTRUSIONS IN THIS ORDER: LEFT TO RIGHT ON ROW; FRONT TO BACK IN VEHICLES.

CODES FOR B, F, G, H, I, J ON PAGE IT-1

CODES FOR C ON PAGE IT-2

OCCUPANT CONTACT AND INJURY

A	B	C	D	E	F	G	H	I	J
INTRUSION NUMBER	OCCUPANT SPACE NO.	INTRUDING COMPONENT OR OBJECT	ASSOC. EVENT NO.	MAXIMUM INTRUSION (cm)	MEASUREMENT AXIS	OCCUPANT NUMBER	INJURY NUMBER	OCCUPANT NUMBER	INJURY NUMBER
13-14	15-16	17-18	19	20-21	22	23-24	25-26	27-28	29-30
0 1	---	---	---	---	---	---	---	---	---
0 2	---	---	---	---	---	---	---	---	---
0 3	---	---	---	---	---	---	---	---	---
0 4	---	---	---	---	---	---	---	---	---
0 5	---	---	---	---	---	---	---	---	---
0 6	---	---	---	---	---	---	---	---	---
0 7	---	---	---	---	---	---	---	---	---

Duplicate columns 1-12 for each line.

NOTE: USE ADDITIONAL PAGE IF MORE THAN 7 INTRUSIONS.

Duplicate columns 1-8 from the previous card.

Module $\frac{I}{9} \frac{T}{10}$ Format $\frac{0}{11} \frac{3}{12}$

NOTE: IF NO SIDE DOOR INTRUSION, SKIP REMAINDER OF PAGE.

SIDE DOOR INTRUSION RESULTED FROM

INTRUSION NUMBER	CAUSE
13	15
16	15
19	21

CODES FOR CAUSE:
 (1) DIRECT IMPACT
 (2) INDUCED DAMAGE
 (9) UNKNOWN

IF DAMAGE TO DOOR COMPONENT RESULTED IN INCREASED DOOR INTRUSION, CODE COMPONENT

INTRUSION NUMBER	DAMAGED COMPONENT 1	DAMAGED COMPONENT 2	CODES FOR COMPONENTS:
A 22	---	25	(0) NONE (1) A-PILLAR (2) B-PILLAR (3) C-PILLAR (4) LATCH/STRIKER (5) HINGES (7) OTHER: _____
B 26	---	29	(8) NOT APPLICABLE (9) UNKNOWN
C 30	---	33	
D 34	---	37	

Duplicate columns 1-8 from the previous card. Module $\frac{I}{9} \frac{T}{10}$ Format $\frac{0}{11} \frac{2}{12}$

INTRUSION IT-4

NOTE: Each line in the table below is a separate record (card). Duplicate columns 1-12 for each completed line.

— ADDITIONAL PAGE —

INTRUSIONS

CODE INTRUSIONS IN THIS ORDER: LEFT TO RIGHT ON ROW; FRONT TO BACK IN VEHICLES.

CODES FOR B, F, G, H, I, J ON PAGE IT-1

CODES FOR C ON PAGE IT-2

OCCUPANT CONTACT AND INJURY

A	B	C	D	E	F	G	H	I	J
INTRUSION NUMBER	OCCUPANT SPACE NO.	INTRUDING COMPONENT OR OBJECT	ASSOC. EVENT NO.	MAXIMUM INTRUSION (cm)	MEASUREMENT AXIS	OCCUPANT NUMBER	INJURY NUMBER	OCCUPANT NUMBER	INJURY NUMBER
13-14	15-16	17-18	19	20-21	22	23-24	25-26	27-28	29-30
0 8	---	---	---	---	---	---	---	---	---
0 9	---	---	---	---	---	---	---	---	---
1 0	---	---	---	---	---	---	---	---	---
1 1	---	---	---	---	---	---	---	---	---
1 2	---	---	---	---	---	---	---	---	---
1 3	---	---	---	---	---	---	---	---	---
1 4	---	---	---	---	---	---	---	---	---
1 5	---	---	---	---	---	---	---	---	---
1 6	---	---	---	---	---	---	---	---	---
1 7	---	---	---	---	---	---	---	---	---
1 8	---	---	---	---	---	---	---	---	---
1 9	---	---	---	---	---	---	---	---	---
2 0	---	---	---	---	---	---	---	---	---
2 1	---	---	---	---	---	---	---	---	---
2 2	---	---	---	---	---	---	---	---	---
2 3	---	---	---	---	---	---	---	---	---
2 4	---	---	---	---	---	---	---	---	---
2 5	---	---	---	---	---	---	---	---	---
2 6	---	---	---	---	---	---	---	---	---

Duplicate columns 1-12 for each line.

Duplicate columns 1-8
from the previous card.

Module $\frac{1}{4}$ $\frac{0}{10}$ Format $\frac{0}{11}$ $\frac{1}{12}$

INTERIOR DAMAGE ID-1

CODES: (1) YES
(2) NO
(8) NOT APPLICABLE
(9) UNKNOWN

INDICATE OCCUPANT CONTACT
BY CIRCLING RESPONSE.

SIDES	LEFT	RIGHT	FRONT		INSTRUMENT PANEL	
FRONT DOOR	<u>13</u>	<u>14</u>	FOOT CONTROLS	<u>43</u>	UPPER PANEL	<u>53</u>
FRONT HARDWARE	<u>15</u>	<u>16</u>	IGNITION KEYS	<u>44</u>	MID PANEL	<u>54</u>
FRONT ARMREST	<u>17</u>	<u>18</u>	REAR VIEW MIRROR	<u>45</u>	LOWER PANEL	<u>55</u>
FRONT GLASS	<u>19</u>	<u>20</u>	SUNVISOR/FITTINGS	<u>46</u>	ASHTRAY	<u>56</u>
REAR DOOR AREA	<u>21</u>	<u>22</u>	WINDSHIELD TOP MOLDINGS	<u>47</u>	CONTROL KNOBS & LEVERS	<u>57</u>
REAR HARDWARE	<u>23</u>	<u>24</u>	LEFT A-PILLAR (UPPER OR LOWER)	<u>48</u>	GLOVE COMPARTMENT AREA	<u>58</u>
REAR ARMREST	<u>25</u>	<u>26</u>	RIGHT A-PILLAR (UPPER OR LOWER)	<u>49</u>	INSTRUMENTS	<u>59</u>
REAR GLASS	<u>27</u>	<u>28</u>	CONSOLE	<u>50</u>	PARKING BRAKE RELEASE	<u>60</u>
ROOF SIDE RAIL	<u>29</u>	<u>30</u>	TRANSMISSION SELECTOR LEVER	<u>51</u>	PARKING BRAKE PEDAL	<u>61</u>
B-PILLAR	<u>31</u>	<u>32</u>	HORN, SPOKE SHROUD	<u>52</u>	A/C OR UPPER VENT OUTLETS	<u>62</u>
C-PILLAR	<u>33</u>	<u>34</u>	STEERING WHEEL RIM		HEATER OR A/C DUCTS	<u>63</u>
D-PILLAR	<u>35</u>	<u>36</u>	STEERING WHEEL SPOKES		RADIO	<u>64</u>
HEADLINING	<u>37</u>	<u>38</u>	WINDSHIELD		OTHER:*	<u>65</u>
ROOF STRUCTURE	<u>39</u>	<u>40</u>				
OTHER:*	<u>41</u>	<u>42</u>				

*MORE THAN ONE ITEM
MAY BE NOTED.

*MORE THAN ONE ITEM
MAY BE NOTED.

Duplicate columns 1-8
from the previous card.

Module $\frac{S}{4}$ $\frac{T}{10}$

Format $\frac{0}{11}$ $\frac{1}{12}$

SEATS ST-1

FRONT SEAT	DRIVER	PASSENGER	FRONT SEAT-BACK	DRIVER	PASSENGER
TYPE OF FRONT SEAT (00) NO SEAT (01) STANDARD BENCH (02) SPLIT BENCH, 50-50 (03) SPLIT BENCH, DRIVER WIDE (04) SPLIT BENCH, PASS. WIDE (05) BUCKET (06) CAPTAIN'S CHAIR (97) OTHER: _____ (99) UNKNOWN _____	13	15	OBVIOUS SEAT-BACK ROTATION (0) NONE APPARENT (1) FORWARD APPARENT (2) REARWARD APPARENT (8) NOT APPLICABLE (9) UNKNOWN	23	24
TYPE OF SEAT MOUNT (1) STANDARD (2) PEDESTAL (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN	17	18	SEAT-BACK TYPE (1) FORWARD FOLDING (2) RIGID (3) RECLINING (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN	30	31
SWIVEL MECHANISM EQUIPPED (1) YES (2) NO (8) NOT APPLICABLE (9) UNKNOWN	14	20	SEAT-BACK LOCK TYPE (0) NONE (RIGID) (1) MANUAL (2) INERTIA (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN	32	33
ORIGINAL EQUIPMENT SEATS (1) YES (2) NO (8) NOT APPLICABLE (9) UNKNOWN	21	22	LOCKS HELD (1) YES (2) NO (8) NOT APPLICABLE (9) UNKNOWN	34	35
CONTACT OF SEAT BY REAR OCCUPANT (1) YES (2) NO (8) NOT APPLICABLE (9) UNKNOWN	23	24	HEAD RESTRAINT HEAD RESTRAINT TYPE (0) NONE (1) ADJUSTABLE (2) INTEGRAL (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN	36	37
FRONT SEAT DAMAGE (0) NONE (1) BACKREST ONLY DAMAGED (2) CUSHION ONLY DAMAGED (3) BACKREST & CUSHION DAMAGED (8) NOT APPLICABLE (9) UNKNOWN	25	26	REMOVED PRE-CRASH (1) YES (2) NO (8) NOT APPLICABLE (9) UNKNOWN	38	39
CENTER ARMREST DAMAGED (1) YES (2) NO (7) EQUIPPED, DAMAGE UNKNOWN (8) NOT APPLICABLE (NO CENTER ARMREST) (9) UNKNOWN IF EQUIPPED	27		ADJUSTMENT AT CRASH (1) UP (2) DOWN (8) NOT APPLICABLE (9) UNKNOWN	40	41
			HEAD RESTRAINT DAMAGE (0) NONE (1) DAMAGED BUT NOT SEPARATED (2) SEPARATED (8) NOT APPLICABLE (9) UNKNOWN	42	43

FRONT SEAT ADJUSTMENT	DRIVER	PASSENGER	REAR SEAT	LEFT	RIGHT
<p>SEAT ADJUSTMENT TYPE</p> <p>(0) NONE (RIGID) (1) MANUAL (2) POWER (7) OTHER: (8) NOT APPLICABLE (NO SEAT) (9) UNKNOWN</p>	44	45	<p>TYPE OF REAR SEAT</p> <p>(0) NONE (1) NON-FOLDING (2) FOLDING (9) UNKNOWN</p>	54	55
<p>ADJUSTMENT PROVIDED</p> <p>(1) 2-WAY (2) 4-WAY (3) 6-WAY (7) OTHER: (8) NOT APPLICABLE (9) UNKNOWN</p>	46	47	<p>REAR SEAT DAMAGE</p> <p>(0) NONE (1) BACKREST ONLY (DAMAGED OR LOOSENED) (2) CUSHION ONLY (DAMAGED OR LOOSENED) (3) BACKREST & CUSHION (DAMAGED OR LOOSENED) (8) NOT APPLICABLE (9) UNKNOWN</p>	56	57
<p>SEAT ADJUSTER DAMAGE</p> <p>(0) NONE (1) CHUCKING (FREE PLAY) (2) DEFORMED (RELEASED/JAMMED) (3) SEPARATED (7) OTHER: (8) NOT APPLICABLE (9) UNKNOWN</p>	48	49	<p>CENTER ARMREST DAMAGED</p> <p>(1) YES (2) NO (7) EQUIPPED, DAMAGE UNKNOWN (8) NOT APPLICABLE (NO CENTER ARMREST) (9) UNKNOWN IF EQUIPPED</p>	58	
<p>SEAT ADJUSTER SEPARATION</p> <p>(0) NONE (1) SEPARATED AT FLOOR (2) SEPARATION OF ADJUSTER (3) SEPARATED AT SEAT (8) NOT APPLICABLE (9) UNKNOWN</p>	50	51	<p>REAR SEAT-BACK LOCKS</p> <p>FOR THE FOLLOWING, USE:</p> <p>(1) YES (2) NO (8) NOT APPLICABLE (9) UNKNOWN</p>	LEFT	RIGHT
<p>PRE-CRASH POSITION</p> <p>(1) FORWARD (2) MIDDLE (3) REARWARD (8) NOT APPLICABLE (9) UNKNOWN</p>	52	53	<p>LEFT OR CENTER, EQUIPPED</p> <p>LEFT OR CENTER, HELD (3) SEAT FOLDED DOWN</p>	59	60
<p>INVESTIGATOR'S NOTES:</p> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>			<p>RIGHT, EQUIPPED</p> <p>RIGHT, HELD (3) SEAT FOLDED DOWN</p>	63	64
			<p>THIRD SEAT</p> <p>EQUIPPED</p> <p>BACKREST DAMAGED</p> <p>CUSHION DAMAGED</p>	67	68

NOTE TO THE INVESTIGATOR:

THE FOLLOWING TWO SECTIONS,
OCCUPANT INFORMATION AND INJURY CLASSIFICATION,
ARE TO BE FILLED IN
FOR EACH CASE VEHICLE OCCUPANT,
WHETHER INJURED OR NOT.

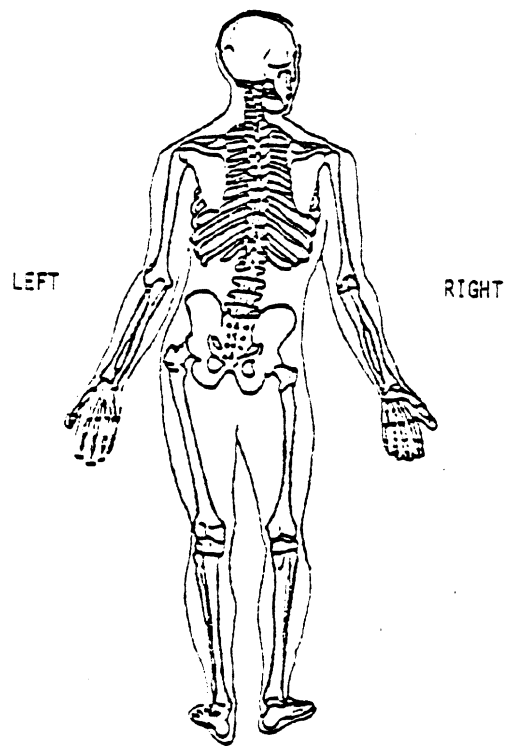
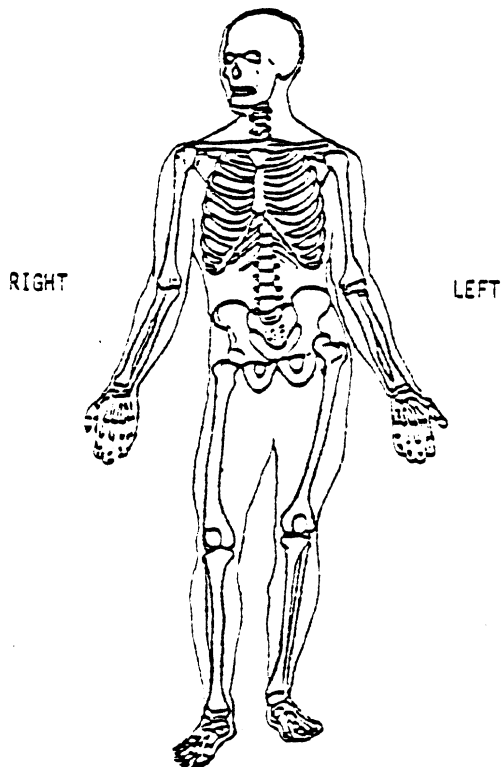
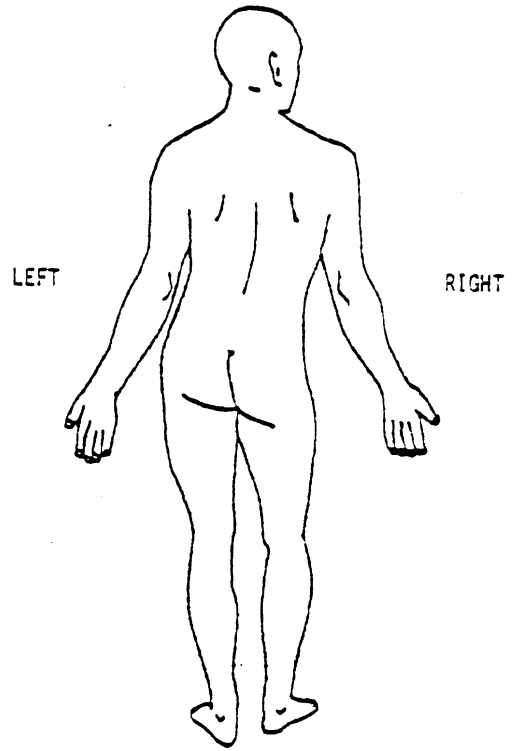
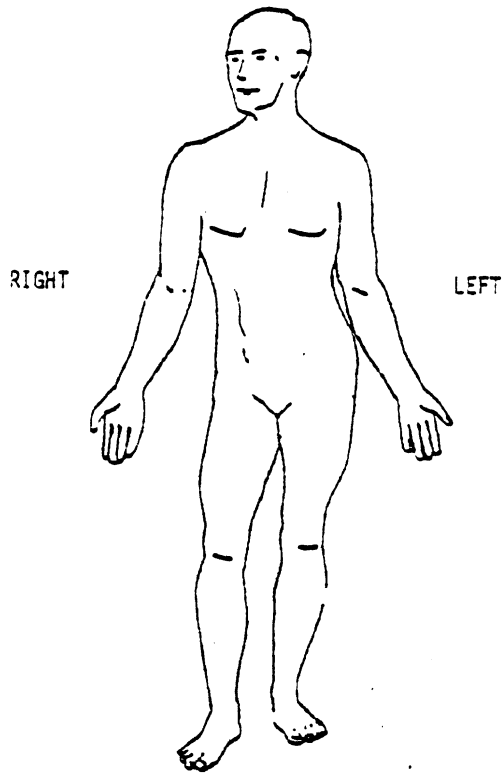
IF THERE IS MORE THAN ONE OCCUPANT,
USE ADDITIONAL COPIES
OF PAGES OC-1, OC-2, OC-3,
AND IC-2 TO DESCRIBE THEM
AND ATTACH THE COPIES TO THIS REPORT.

Duplicate columns 1-8 from the previous card. Module $\frac{0}{9} \frac{C}{10}$ Format $\frac{0}{11} \frac{1}{12}$

OCCUPANT INFORMATION OC-1

<p>OCCUPANT IDENTIFICATION</p> <p>OCCUPANT NUMBER</p> <p>ROLE OF OCCUPANT AT 1ST IMPACT</p> <p>(1) MOTOR VEHICLE DRIVER (2) MOTOR VEHICLE PASSENGER (NOT DRIVER) (9) UNKNOWN</p>	<p>13</p> <p>15</p>	<p>PHYSICAL DESCRIPTION</p> <p>AGE IN YEARS</p> <p>(00) LESS THAN 1 YEAR (98) 98 YEARS OR OLDER (99) UNKNOWN</p> <p>AGE IN MONTHS</p> <p>(00) LESS THAN 1 MONTH (25) 25 MONTHS OR OLDER (99) UNKNOWN</p> <p>MASS (kg)</p> <p>(999) UNKNOWN</p> <p>HEIGHT (cm)</p> <p>(999) UNKNOWN</p> <p>SEX</p> <p>(1) MALE (2) FEMALE (9) UNKNOWN</p>	<p>20</p> <p>22</p> <p>24</p> <p>26</p> <p>27</p> <p>29</p> <p>30</p>
<p>OCCUPANT POSITION</p> <p>ROW LOCATION</p> <p>(1) FRONT (2) SECOND (3) THIRD (4) FOURTH (7) OTHER: _____ (8) EXTERNAL TO PASSENGER COMPARTMENT (E.G. BED OF PICKUP) (9) UNKNOWN</p>	<p>16</p>	<p>MEDICAL CONDITIONS</p> <p>TREATMENT/MORTALITY</p> <p>(00) NONE (01) FIRST AID AT SCENE (02) TREATED AT HOSPITAL/CLINIC BUT NOT ADMITTED (03) HOSPITALIZED FOR OBSERVATION LESS THAN 24 HOURS (04) HOSPITALIZED OVER 24 HOURS OR FOR SIGNIFICANT TREATMENT (05) FATAL, DEAD AT SCENE (06) FATAL, DOA (07) FATAL, DEAD WITHIN 24 HOURS (08) FATAL, DEAD 24 HOURS TO 31 DAYS LATER (09) FATAL, DEAD 31 DAYS TO 1 YEAR LATER (10) FATAL, DEAD WITHIN UNKNOWN PERIOD (99) UNKNOWN</p> <p>INJURY SEVERITY SCORE (ISS)</p> <p>(99) UNKNOWN</p> <p>NON-IMPACT MED. CONDITIONS</p> <p>(0) NONE (1) YES, TIME & TYPE UNKNOWN (2) PRE-CRASH FATAL (CLINICAL DEATH AT WHEEL) (3) PRE-CRASH NON-FATAL (E.G. PRIOR INJURY, STROKE) (4) PREGNANT (5) POST-CRASH FATAL (DROWNING) (6) POST-CRASH NON-FATAL INJURY (7) OTHER: _____ (8) COMBINATION OF ABOVE (CIRCLE EACH) (9) UNKNOWN</p>	<p>31</p> <p>33</p> <p>35</p>
<p>LATERAL LOCATION</p> <p>(1) LEFT (2) LEFT CENTER (3) CENTER (4) RIGHT CENTER (5) RIGHT (6) ALL (LYING ON SEAT) (8) EXTERNAL TO PASSENGER COMPARTMENT (9) UNKNOWN</p> <p>POSTURE</p> <p>(10) SITTING ON SEAT (11) SITTING ON SEAT IN ABNORMAL POSITION (E.G. FEET ON DASH, SIDEWAYS) (12) SITTING ON CONSOLE (20) ON LAP OR IN ARMS (30) STANDING ON SEAT (40) STANDING ON FLOOR (47) STANDING, EXTERNAL TO PASSENGER COMPARTMENT (50) IN BASSINET (60) IN CHILD SEAT (65) IN CHILD HARNESS (70) LYING ON SEAT (80) LYING/SITTING ON PASSENGER FLOOR (83) LYING/SITTING ON OTHER OBJECT IN PASSENGER COMPARTMENT: _____ (85) ON CARGO FLOOR/FOLDED SEAT-BACK (87) LYING/SITTING, EXTERNAL TO PASSENGER COMPARTMENT (97) OTHER: _____ (99) UNKNOWN</p>	<p>17</p> <p>18</p>		

INDICATE LOCATION OF INJURIES, INCLUDING MAJOR BRUISES.



CODES FOR AREAS OF POSSIBLE OCCUPANT CONTACT

FRONT OF PASSENGER COMPARTMENT

- (12) WINDSHIELD
- (10) SUNVISOR, FITTING(S) &/OR TOP MOLDING
- (05) INSTRUMENT PANEL (*SPECIFIC AREA UNKNOWN*)
- (54) UPPER INSTRUMENT PANEL (X)
- (55) MIDDLE INSTRUMENT PANEL (Y)
- (56) LOWER INSTRUMENT PANEL (Z)
- (81) ASH TRAY (*INSTRUMENT PANEL*)
- (02) GLOVE COMPARTMENT AREA
- (47) AIR BAG (ACRS) COMPARTMENT DOOR/COVER
- (57) BENEATH INSTRUMENT PANEL
- (53) PARCEL TRAY
- (48) KNEE RESTRAINT
- (86) VERTICAL CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)
- (09) STEERING ASSEMBLY (*SPECIFIC AREA UNKNOWN*)
- (65) STEERING WHEEL
- (66) STEERING WHEEL COLUMN
- (59) TRANSMISSION LEVER ON COLUMN
- (03) HARDWARE ITEM (*SPECIFIC ITEM UNKNOWN*)
- (82) INSTRUMENT(S)
- (83) CONTROL KNOB(S) & LEVER(S) (*FRONT*)
- (84) PARKING BRAKE HANDLE IN FRONT
- (67) IGNITION KEY
- (06) MIRROR
- (04) HEATER OR AIR CONDITIONING DUCTS
- (01) AIR CONDITIONING OR VENTILATION OUTLET(S)
- (08) RADIO (*BUILT IN*)
- (58) ADD-ON TAPE DECK, RADIO, A/C
- (10) SUNVISOR, FITTING(S) &/OR TOP MOLDING

FLOOR

- (40) FLOOR
- (27) CONSOLE ON FLOOR OR BETWEEN SEATS
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)

INTERIOR-GENERAL

- (11) TRANSMISSION SELECTION LEVER (*LOCATION UNK.*)
- (59) TRANSMISSION LEVER ON STEERING COLUMN
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (07) PARKING BRAKE HANDLE (*LOCATION UNKNOWN*)
- (84) PARKING BRAKE HANDLE IN FRONT
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)
- (29) FRONT SEAT-BACK(S)
- (51) FRONT SEAT CUSHION
- (50) REAR SEAT CUSHION & BACK
- (30) HEAD RESTRAINT
- (49) ARMREST ON SEAT
- (89) UNDER SEAT BOTTOM
- (33) RESTRAINT SYSTEM HARDWARE
- (34) RESTRAINT SYSTEM WEBBING
- (87) AIR CUSHION SKIN (*AIR BAG*)
- (47) AIR BAG COMPARTMENT DOOR/COVER
- (48) KNEE RESTRAINT
- (30) HEAD RESTRAINT
- (31) INTERIOR LOOSE OBJECT
- (32) OTHER OCCUPANT(S)
- (52) INTERNAL FLYING GLASS (*FROM ANY SOURCE*)

SIDES

- (20) SURFACE OF SIDE INTERIOR
- (19) HARDWARE ON SIDE OR DOOR
- (13) ARMREST ON SIDE OR DOOR
- (24) COAT HOOK
- (22) WINDOW GLASS (*SIDE*)
- (21) WINDOW FRAMES (*SIDE*)
- (26) ROOF SIDE RAIL
- (14) A-PILLAR
- (15) B-PILLAR
- (16) C-PILLAR
- (17) D-PILLAR

REAR

- (88) SURFACE OF REAR INTERIOR
- (23) BACKLIGHT (*REAR WINDOW*)
- (39) BACKLIGHT HEADER
- (50) REAR SEAT CUSHION & BACK

ROOF

- (25) ROOF OR CONVERTIBLE TOP
- (10) SUNVISOR, FITTING(S) &/OR TOP MOLDING
- (26) ROOF SIDE RAIL
- (24) COAT HOOK
- (18) DOME LIGHT
- (39) BACKLIGHT HEADER

EXTERIOR SURFACE OF CASE VEHICLE

- (37) OUTSIDE SURFACE OF CASE VEHICLE (*SPECIFIC AREA UNKNOWN*)
- (35) HOOD OF CASE VEHICLE
- (60) EXTERIOR OF CASE VEHICLE HARDWARE (E.G. *OUTSIDE MIRRORS, ANTENNA, TRIM*)
- (62) EXTERIOR SIDE ROOF RAIL OF CASE VEHICLE
- (63) TRUNK LID OF CASE VEHICLE
- (64) TIRES OF CASE VEHICLE

BEYOND CASE VEHICLE BOUNDARY

- (36) AREA EXTERIOR TO CAR (*SPECIFIC AREA UNK.*)
- (70) HOOD OF OTHER VEHICLE
- (71) OTHER VEHICLE EXTERIOR HARDWARE (E.G. *OUTSIDE MIRRORS, ANTENNA, TRIM*)
- (73) EXTERIOR SIDE ROOF RAIL OF OTHER VEHICLE
- (74) HEADLIGHT OR FRONT GRILL OF OTHER VEH.
- (75) TRUNK OF OTHER VEHICLE
- (76) OUTSIDE SURFACE OF OTHER VEHICLE
- (77) TIRES OF OTHER VEHICLE
- (78) GROUND
- (79) WATER
- (80) EXTERIOR OBJECT (*NOT VEHICLE, GROUND, OR WATER. PLEASE DESCRIBE.*)

PENETRATING OBJECTS

- (61) OTHER VEHICLE
- (72) OBJECTS (*DESCRIBE*)

MISCELLANEOUS

- (38) OTHER (E.G. *FIRE. DESCRIBE.*)
- (90) SPARE TIRE
- (98) IMPACT FORCE, "WHIPLASH", HYPEREXTENSION/COMPRESSION
- (99) NO CONTACT (*INVALID FIELD FORM CODE*)
- (00) UNKNOWN AREA OF CONTACT

Duplicate columns 1-8 from the previous card.

Module I C Format 0 1
9 10 11 12

INJURY CLASSIFICATION IC-2

NOTE: Each line in the table below is a separate record (card). Duplicate columns 1-12 for each completed line.

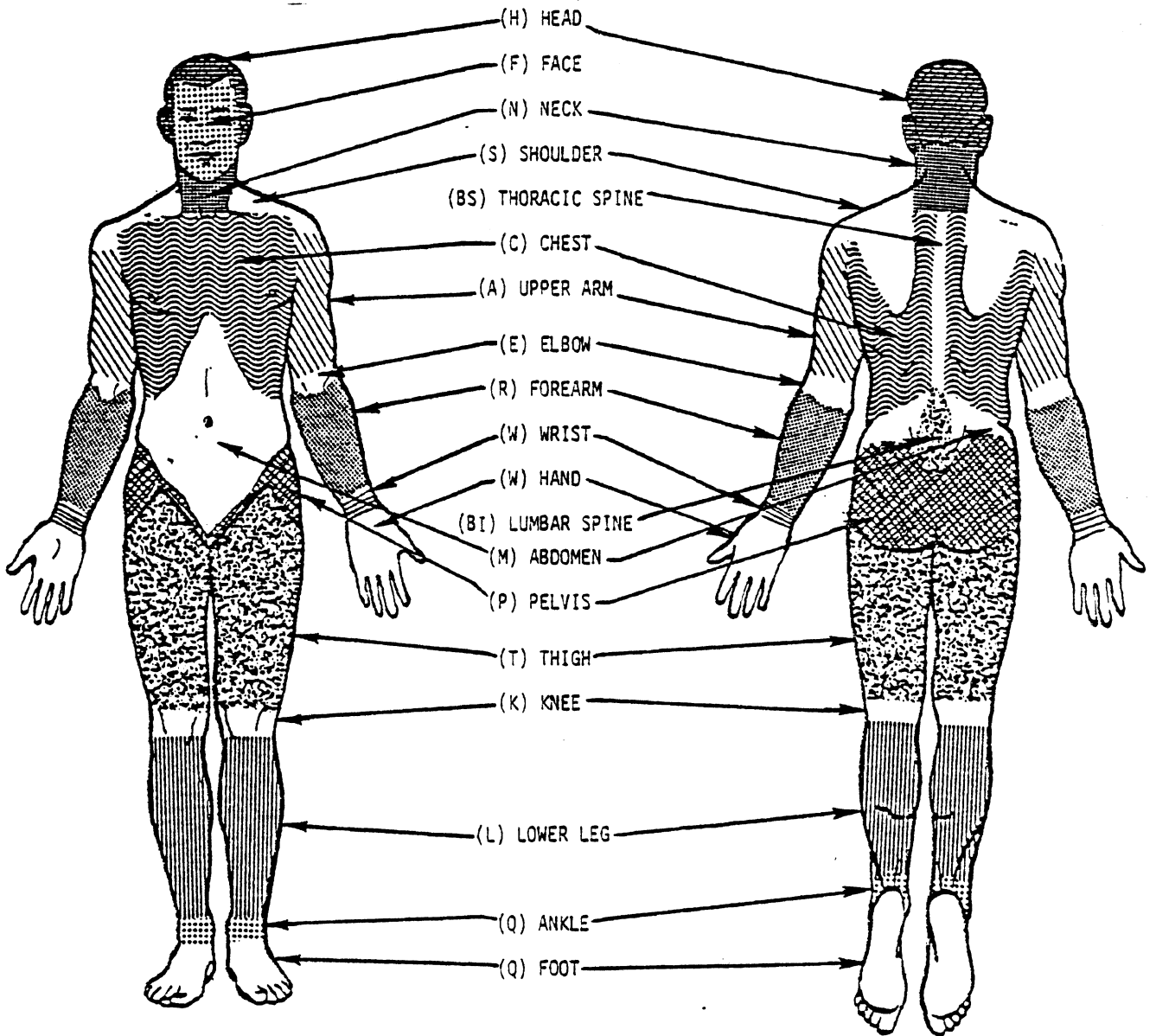
OCCUPANT INJURY CLASSIFICATION		PRIMARY OIC	ASSOCIATED OIC'S															
OCCUPANT NUMBER 13-14	INJURY NUMBER 15-16	PLACE CONTACTS IN ORDER OF PROBABILITY (HORIZONTALLY). START WITH MOST PROBABLE IN 1ST CONTACT AREA COLUMN. AREA(S) OF POSSIBLE CONTACT 1ST 2ND 3RD 4TH 17-18 19-20 21-22 23-24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	
																		SEVERITY 5

NOTE: USE ADDITIONAL PAGES IF NECESSARY.

Duplicate columns 1-12 for each line.

Duplicate "Occupant Number" for each line.

THE FIGURE BELOW
IS AN EXPLANATION OF THE BODY REGION CODES
LISTED ON PAGE IC-4.



CODES FOR OCCUPANT INJURY CLASSIFICATION (OIC)

1 BODY REGION

- (H) HEAD/SKULL
- (F) FACE
- (N) NECK
- (S) SHOULDER
- (X) UPPER EXTREMITIES
- (A) ARM (*UPPER*)
- (E) ELBOW
- (R) FOREARM
- (W) WRIST/HAND
- (C) CHEST
- (M) ABDOMEN
- (B) BACK
- (P) PELVIC/HIP
- (Y) LOWER EXTREMITIES
- (T) THIGH
- (K) KNEE
- (L) LEG (*LOWER*)
- (Q) ANKLE/FOOT
- (O) WHOLE BODY
- (U) UNKNOWN

3 LESION

- (L) LACERATION
- (C) CONTUSION
- (A) ABRASION
- (F) FRACTURE
- (P) PAIN
- (K) CONCUSSION
- (H) HEMORRHAGE
- (V) AVULSION
- (R) RUPTURE
- (S) SPRAIN
- (D) DISLOCATION
- (N) CRUSHING
- (M) AMPUTATION
- (B) BURN
- (X) ASPHYXIA
- (O) OTHER
- (U) UNKNOWN

4 SYSTEM/ORGAN

- (S) SKELETAL
- (V) VERTEBRAE
- (J) JOINTS
- (D) DIGESTIVE
- (L) LIVER
- (N) NERVOUS SYSTEM
- (B) BRAIN
- (C) SPINAL CORD
- (E) EYES/EARS
- (A) ARTERIES
- (H) HEART
- (Q) SPLEEN
- (G) UROGENITAL
- (K) KIDNEYS
- (R) RESPIRATORY
- (P) PULMONARY/LUNGS
- (M) MUSCLES
- (I) INTEGUMENTARY
- (W) ALL SYSTEMS IN REGION
- (U) UNKNOWN

2 ASPECT

- (R) RIGHT
- (L) LEFT
- (B) BILATERAL
- (C) CENTRAL
- (A) ANTERIOR/FRONT
- (P) POSTERIOR/BACK
- (S) SUPERIOR/UPPER
- (I) INFERIOR/LOWER
- (W) WHOLE REGION
- (U) UNKNOWN

BODY REGION	ASPECT	LESION	SYSTEM/ORGAN	SEVERITY
1	2	3	4	5

5 SEVERITY

(OR "AIS", ABBREVIATED INJURY SCALE)

- (0) NONE
- (1) MINOR
- (2) MODERATE
- (3) SEVERE
- (4) SERIOUS
- (5) CRITICAL
- (6) MAXIMUM
- (9) UNKNOWN

