

UMTRI-88-1
VERSION 03

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In-depth Vehicle Occupant Report

**The University
of Michigan
Transportation
Research Institute**

UMIVOR—UMIVOR—UMIVOR



Technical Report Documentation Page

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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 UMTRI 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 UMTRI 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	
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TIME

DATE OF COLLISION $\frac{m}{m} / \frac{d}{d} / \frac{y}{y}$

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

LOCATION

STATE: _____

STATE FIPS CODE $\frac{23}{-}$

AREA

- (1) URBAN
- (2) RURAL
- (9) UNKNOWN $\frac{25}{-}$

ENVIRONMENTAL CONDITIONS

LIMITED-ACCESS HIGHWAY

- (0) NO
- (1) YES
- (9) UNKNOWN $\frac{26}{-}$

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 $\frac{27}{-}$

INTERSECTING RD, TOTAL LANES

CHOOSE FROM THE ABOVE LIST, OR

- (8) NOT APPLICABLE $\frac{28}{-}$

TYPE OF ROAD SURFACE

- (1) ASPHALT
- (2) CONCRETE
- (3) GRAVEL
- (4) MORE THAN ONE (CIRCLE EACH)
- (7) OTHER: _____
- (9) UNKNOWN $\frac{29}{-}$

ROAD DEFECTS

- (0) NO
- (1) YES.
- (9) UNKNOWN $\frac{30}{-}$

ENVIRONMENTAL CONDITIONS

CONSTRUCTION ZONE

- (0) NO
- (1) YES
- (9) UNKNOWN $\frac{31}{-}$

RD ALIGNMENT, VERTICAL PLANE

- (1) LEVEL
- (2) CREST OF HILL
- (3) SLOPE (2%)
- (4) BOTTOM OF HILL
- (9) UNKNOWN $\frac{32}{-}$

RD ALIGNMENT, HORIZONTAL PLANE

- (1) STRAIGHT
- (2) CURVE
- (3) T-SHAPED
- (4) Y-SHAPED
- (7) OTHER: _____
- (9) UNKNOWN $\frac{33}{-}$

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 $\frac{34}{-}$

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 $\frac{36}{-}$

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 $\frac{37}{-}$

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 MALFUNCTION
IN CASE VEHICLE

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

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

COMMENTS: _____

CRASH DETAILS

CASE VEHICLE AND OBJECT

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

45

CASE VEHICLE ROLLOVER

- (0) NO ROLLOVER
- (1) YES, FIRST EVENT
- (2) YES, SUBSEQUENT EVENT
- (3) YES, SEQUENCE UNKNOWN
- (9) UNKNOWN

46

CASE VEHICLE RAN OFF ROADWAY
(BEFORE FIRST IMPACT)

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

47

MOVING CASE VEHICLE AND
CONTACTED MOVING VEHICLE

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

48

CASE VEHICLE AND
CONTACTED STOPPED VEHICLE

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

49

STOPPED CASE VEHICLE AND
CONTACTED VEHICLE

- (0) NO
- (1) YES
- (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)

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

52

HIGHEST POLICE INJURY
SEVERITY CODE IN CRASH
(NOT JUST CASE VEHICLE)

- (0) O - NO INJURY
- (1) C - POSSIBLE INJURY
- (2) B - NON-INCAPACITATING INJURY
- (3) A - INCAPACITATING INJURY
- (4) K - FATAL
- (5) INJURED, SEVERITY UNKNOWN
- (6) DIED PRIOR TO ACCIDENT
- (7) NON-FATAL INJURY, SEVERITY UNKNOWN
- (9) UNKNOWN

53

DRIVER IMPAIRMENT

DRIVER ALCOHOL INVOLVEMENT
(CASE VEHICLE)

- (0) NONE
- (1) YES
- (9) UNKNOWN/NOT REPORTED/NO DRIVER

54

DRIVER ALCOHOL BAC
(CASE VEHICLE)

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

55

WAS THERE MENTION OF DRIVER
IMPAIRMENT FOR CASE VEHICLE

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

57

LIST IMPAIRMENTS MENTIONED:

POST-CRASH DETAIL

MANNER CASE VEHICLE
LEFT SCENE

- (1) DRIVEN
- (2) TOWED DUE TO DAMAGE
- (3) TOWED, NOT DUE TO DAMAGE
- (4) TOWED, REASON UNKNOWN
- (9) UNKNOWN

58

ACCIDENT SCHEMATIC

ACCIDENT DESCRIPTION: _____ CASE VEHICLE (A): _____

_____ OTHER VEHICLE (B): _____

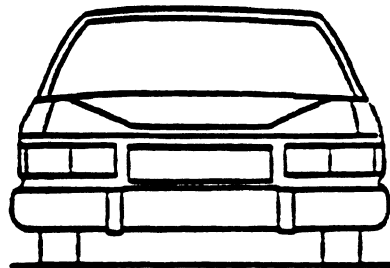
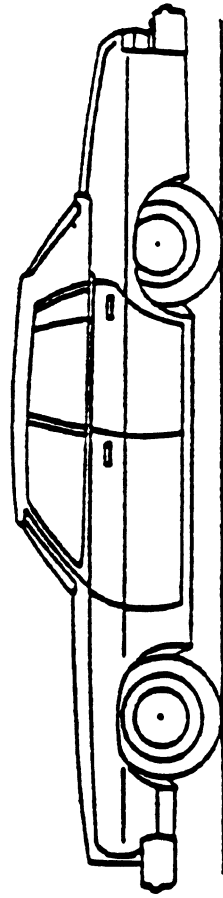
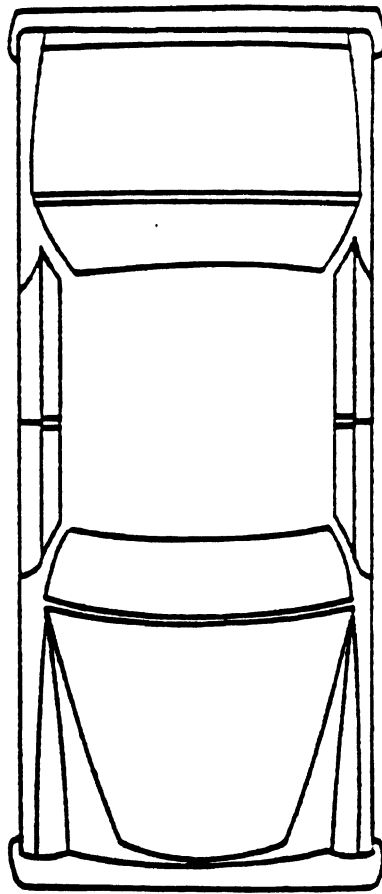
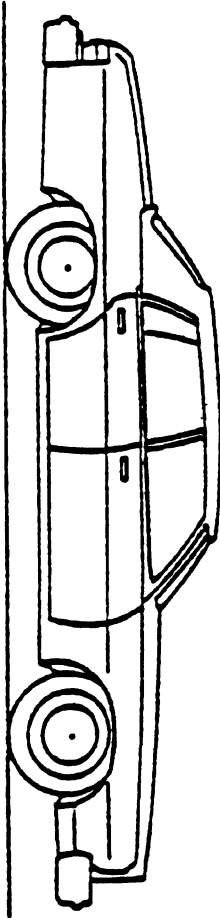
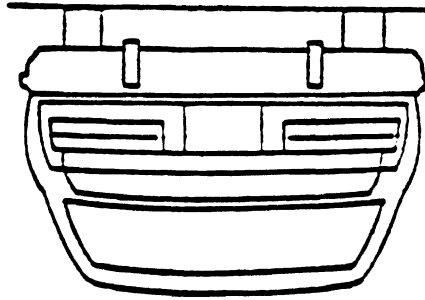
_____ THIRD VEHICLE (C): _____



NORTH

A large grid of 20 columns and 20 rows of dots for drawing the accident schematic.

VEHICLE DAMAGE
THIS SPACE TO ENTER DETAILS



TYPE OF BRAKES

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

64

WHEELBASE (cm)

72 14

BRAKE ANTI-LOCK DEVICE

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

65

PLASTIC ANTI-LACERATIVE
INNER LAYER GLASS EQUIPPED

- (0) NONE
- (1) WINDSHIELD
- (2) WINDSHIELD AND SIDE
- (7) OTHER
- (9) UNKNOWN

76

AIR CONDITIONING IN VEHICLE

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

66

TYPE OF DRIVE

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

67

DUAL REAR WHEELS

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

68

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.

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

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

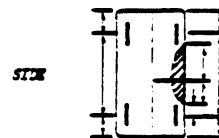
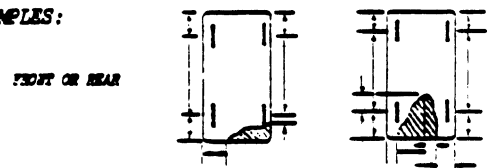
70

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

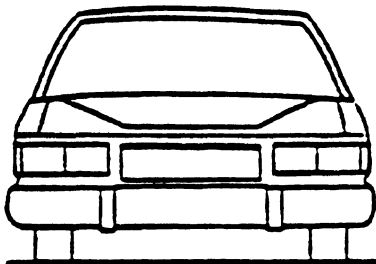
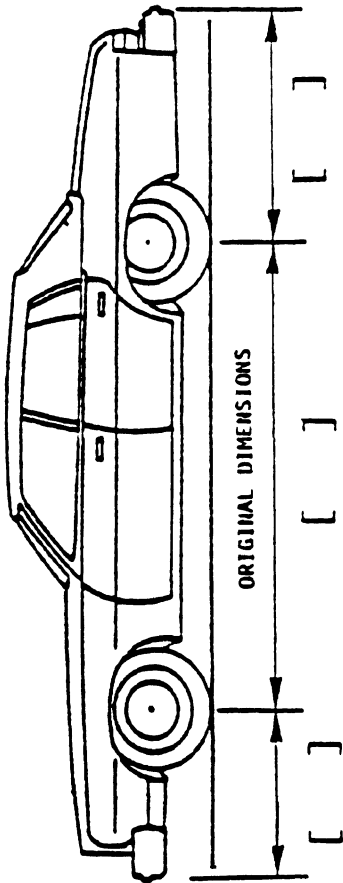
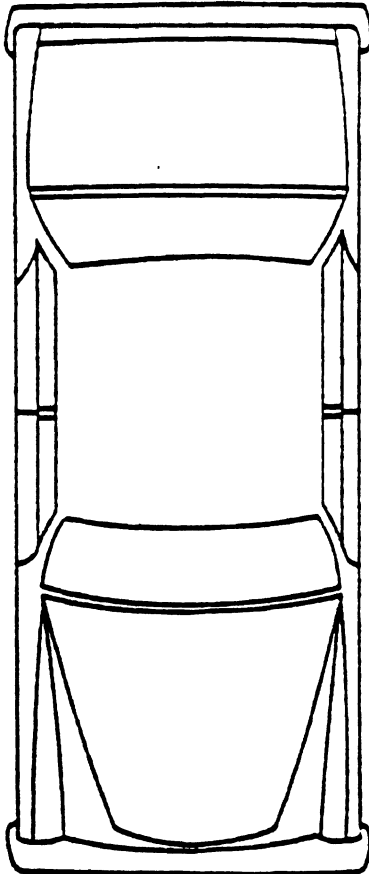
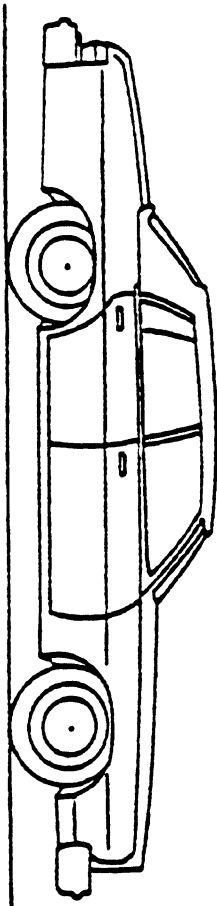
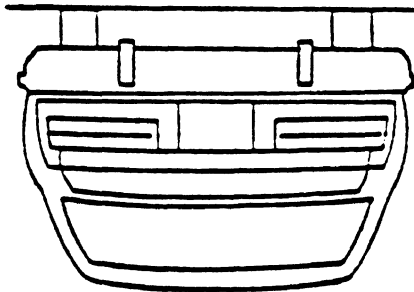
EXAMPLES:



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 15	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 15	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

- (980000) NOT APPLICABLE
- (990000) UNKNOWN

Duplicate columns 1-8
from the previous card.

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

DAMAGE DA-2

MAXIMUM SHEET METAL CRUSH

(cm) (999) UNKNOWN

FRONT	$\frac{13}{15}$	RIGHT SIDE	$\frac{16}{18}$
REAR	$\frac{19}{21}$	LEFT SIDE	$\frac{22}{24}$
ROOF	$\frac{25}{27}$	OTHER	$\frac{28}{30}$

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

31

(0) NO
(1) YES

EVENT NUMBER	IMPACT LOCATION (1) ON ROADWAY (2) SHOULDER/MEDIAN/GORE (3) ON ROADSIDE (4) OUTSIDE ROADSIDE RIGHT-OF-WAY (5) OTHER (6) OFF ROADWAY, LOC. UNK. (9) UNKNOWN	IMPACT CONFIGURATION FOR CODES, SEE TABLE ON PAGE DA-3.	OBJECT/VEHICLE CONTACTED FOR CODES, SEE TABLE ON PAGE DA-4.
#1	$\frac{32}{}$	$\frac{34}{}$	$\frac{50}{}$
#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/LIMOUSINE
- (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*	STANDARD	LUXURY/ SPECIALTY	SPORT
MINI/SUB-COMPACT	90-101.9	(09),(18)	(04)	(19)
COMPACT	102-111.9	(08)	(06)	(10)
INTERMEDIATE	112-118	(01),(17)	(07)	--
STANDARD	119-125	(02)	(05)	--
LUXURY/LIMOUSINE	128+	(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)

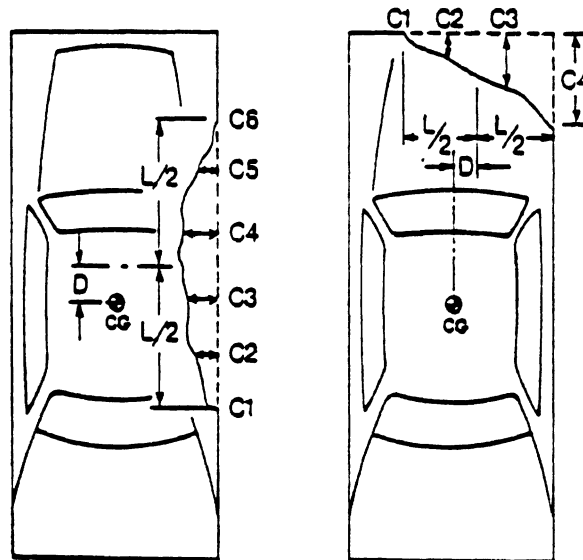
OBJECT

- (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 (85))
- (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

- NOTES: 1. ENTER CRASH RECONSTRUCTION DAMAGE MEASUREMENTS IN CENTIMETERS.
 2. MEASURE C_1 TO C_6 FROM DRIVER TO PASSENGER SIDE IN FRONT OR REAR IMPACTS, REAR TO FRONT IN SIDE IMPACTS.
 3. D IS POSITIVE IF MEASURED TO A POINT FORWARD OF OR TO THE RIGHT OF THE CG.
 4. USE THE CENTER OF THE WHEELBASE AS THE CG.

CASE VEHICLE

EVENT NUMBER	L	C_1	C_2	C_3	C_4	C_5	C_6	D^{\pm}



CONTACTED VEHICLE

EVENT NUMBER	L	C_1	C_2	C_3	C_4	C_5	C_6	D^{\pm}

Duplicate columns 1-8 from the previous card.

Module $\frac{C}{9}$ $\frac{9}{10}$

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

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>80</u>	<u>66</u> — <u>68</u>
LONGITUDINAL*	<u>17</u> — <u>20</u>	<u>35</u> — <u>38</u>	<u>51</u> — <u>54</u>	<u>67</u> — <u>72</u>
LATERAL*	<u>21</u> — <u>24</u>	<u>34</u> — <u>42</u>	<u>58</u> — <u>53</u>	<u>73</u> — <u>76</u>
*NOTE: THESE 1V COMPONENTS MUST INCLUDE SIGN. EXAMPLES: 10km/h = + <u>0</u> <u>0</u> <u>1</u> -7km/h = - <u>0</u> <u>0</u> <u>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>63</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 SIDEWAYS				
(09) YIELDING FIXED OBJECT				
(10) OTHER:				
(11) AT LEAST ONE VEHICLE BEYOND SCOPE				
(12) OTHER VEHICLE NOT INSPECTED				
MODE	<u>31</u>		<u>65</u>	
(1) CDC ONLY				
(2) CDC & DETAILED DAMAGE				
(3) TRAJECTORY & CDC				
(4) TRAJECTORY & CDC & DETAILED DAMAGE				
(5) NOT RECONSTRUCTED				
(6) POLES PROGRAM				
(7) OLDNIS PROGRAM				

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

WHEELS--DAMAGED

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

LF 13

RF

RR

LR 16

TIRE TREAD TYPE

- (1) REGULAR
- (2) SNOW
- (3) SLICKS
- (4) ALL WEATHER (MS)
- (7) OTHER: _____
- (9) UNKNOWN

LF 17

RF

RR

LR 20

CARCASS CONSTRUCTION

- (1) BIAS
- (2) BELTED BIAS
- (3) RADIAL
- (4) ELLIPTICAL
- (5) HI PRESSURE SPARE
- (6) SPACE SAVER SPARE
- (7) OTHER: _____
- (9) UNKNOWN

LF 21

RF

RR

LR 24

SIZE (NOT DOT CODE. IF UNKNOWN, USE 9'S.)

LF 25 _____

RF 35 _____

RR 45 _____

LR 55 _____

BRAND (WRITE NAME.)

LF _____

RF _____

RR _____

LR _____

*IF VEHICLE IS EQUIPPED WITH DUAL
WHEELS, COMPLETE FOR OUTER WHEELS
AND MAKE NOTES ON INNER WHEELS.*

NOTES: _____

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

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

TANK AND FILLER CAP LOCATION CODES

FIRST DIGIT (LONGITUDINAL)

- (1) BEHIND KICK-UP
- (2) IN KICK-UP
- (3) BETWEEN KICK-UP & COWL
- (4) FORWARD OF COWL
- (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

(0) NO KNOWN LEAKAGE SKIP PAGE.

13

(1) YES COMPLETE PAGE.

LEAK NUMBER	I LEAKING COMPONENT	II COMPONENT SOURCE	III TYPE OF DAMAGE	IV SEVERITY OF DAMAGE	V LOCATION OF LEAK	EVENT NUMBER
#1	<u>17</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 COWL
- (2) P, BETWEEN COWL & 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

(0) NO BRIEF PAGE.

13

(1) YES COMPLETE PAGE.

DID FIRE START IN CASE VEHICLE

- (0) NO
- (1) YES
- (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

- (0) NO
- (1) YES
- (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:

- (0) NO
- (1) YES
- (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

HOOD LATCH LOCATION

- (1) FRONT OF VEHICLE
- (2) COWL AREA
- (3) SIDE
- (8) NOT APPLICABLE
- (9) UNKNOWN

24

ENGINE OR TRANSMISSION MOUNT

SEPARATION (COMPLETE)

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

25

STEERING COL FLEXIBLE COUPLING

FLEXIBLE COUPLING TYPE

- (0) NONE
- (1) FLEXIBLE MATERIAL 26
- (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)-(07) SEE UNITS ON PAGE ED-2
- (97) OTHER: 29
- (98) EQUIPPED, TYPE UNKNOWN
- (99) UNKNOWN IF EQUIPPED

ORIGINAL LENGTH (mm)

F (OR H): _____

TELESCOPED LENGTH (mm)

G: _____

DIFFERENCE (mm)

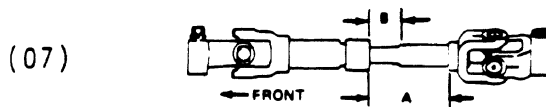
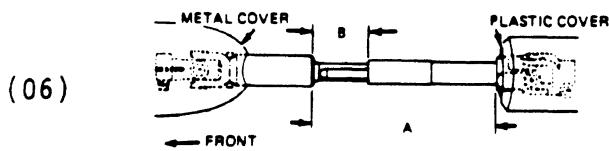
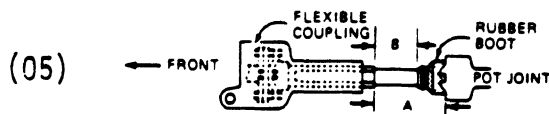
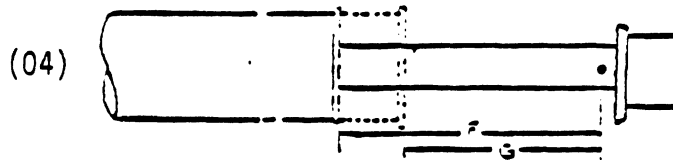
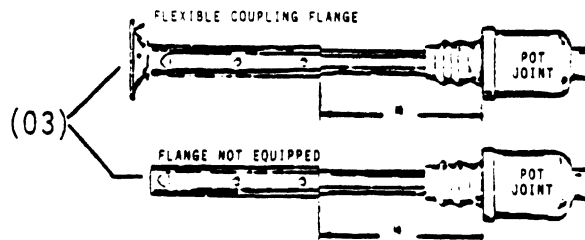
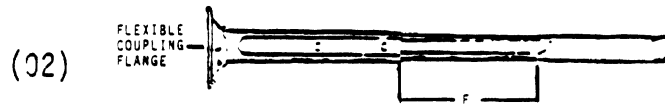
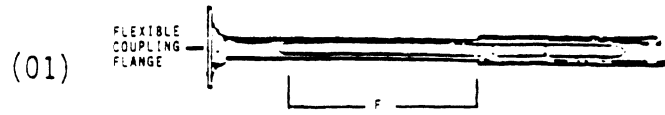
F (OR H) - G

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

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

31 33

ENGINE COMPARTMENT TELESCOPING UNIT TYPES



LEFT-SIDE BODY MOUNT

DID BODY MOUNT SEPARATE

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

34

LEFT PILLARS *

PILLARS SEPARATED COMPLETELY-

USE CODES:

- (0) NO
- (1) YES
- (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

*
(CIRCLE RESPONSE IF DAMAGED)

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:

- (0) NO
- (1) YES
- (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

45

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

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

44

OTHER REAR DAMAGE

WAS PARTITION TO LUGGAGE AREA DAMAGED DURING COLLISION

- (0) NO
- (1) YES
- (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

52

BALL-AND-SOCKET TYPES

- (1) TEMPORARY FRAMEWORK (E.G. RENTAL CLAMP-ON)
- (2) BUMPER-MOUNT ONLY (E.G. LIGHT TRUCK)
- (3) BUMPER-AND-FRAME (BUT NON-EQUALIZING)
- (4) LOAD EQUALIZING

OTHER TYPES

- (5) RING-AND-PINTLE
- (6) FIFTH-WHEEL (INCL. P/U)
- (7) OTHER (E.G. CLEVIS-AND-PIN)

- (8) EQUIPPED, TYPE UNKNOWN
- (9) UNKNOWN IF EQUIPPED

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

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

54

RIGHT PILLARS *

PILLARS SEPARATED COMPLETELY-

USE CODES

- (0) NO
- (1) YES
- (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

*

(CIRCLE RESPONSE IF DAMAGED)

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:

- (0) NO
- (1) YES
- (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

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

WINDSHIELD BROKEN
(PLASTIC INTERLAYER TORN)

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

CRACKED OR BROKEN
BY OCCUPANT CONTACT

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

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

WINDSHIELD MARK

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



WINDSHIELD MARK ON CASE VEHICLE:

70

71

72

73

WINDSHIELD CODE

- (97) DESCRIBED BUT NOT CODED
- (98) NOT APPLICABLE (NO WINDSHIELD)
- (99) UNKNOWN

75

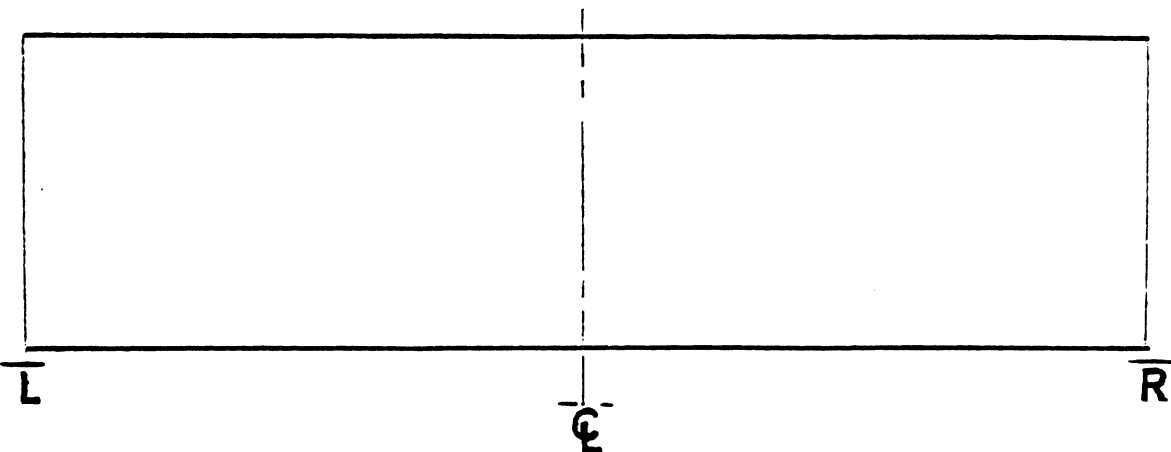
ROOF

DID T-ROOF/SUN ROOF OPEN DURING COLLISION?

- (0) NO
- (1) YES
- (8) NOT APPLICABLE (NOT A T-ROOF OR SUN ROOF)
- (9) UNKNOWN

76

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

NUMBER OF STEERING WHEEL SPOKES

- (9) UNKNOWN

STEERING WHL SPOKE DAMAGE

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

*

(INDICATE OCCUPANT CONTACT BY CIRCLING RESPONSE)

STEERING COLUMN OPTIONS

TILT FEATURE

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

SWING-AWAY FEATURE

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

TELESCOPING FEATURE

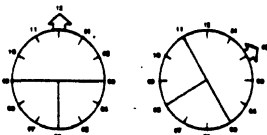
- (0) NOT EQUIPPED
- (1) YES, EQUIPPED
- (9) UNKNOWN IF EQUIPPED

STEERING WHEEL POSITION AT TIME OF COLLISION

IN WHAT O'CLOCK POSITION WAS THE NORMAL TOP OF THE WHEEL POINTED WHEN THE COLLISION OCCURRED?

EXAMPLES

o'clock - 12 o'clock - 02

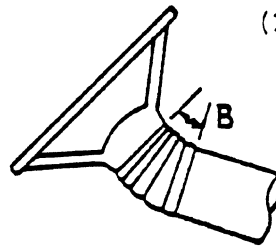


NORMAL STRAIGHT AHEAD

(99) UNKNOWN

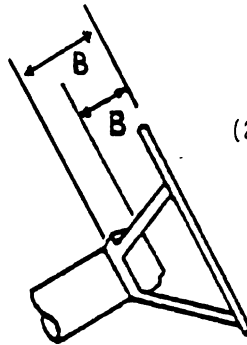
O'CLOCK - - -

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

ORIGINAL DIMENSION (mm)

A: _____

DAMAGE DIMENSION (mm)

B: _____

DIFFERENCE (mm)

A - B

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

20 22

STEERING COL ENERGY ABSORBING DEVICE

TYPE OF DEVICE * (IF 27 OR 28)

- (00) NOT EQUIPPED
- (99) UNKNOWN

ORIGINAL LENGTH (mm)

C: _____

COMPRESSED LENGTH (mm)

D: _____

BRACKET DEFLECTION (IF CODED 36,
OR 48, OR 49 ABOVE)

COMPRESSION (OR EXTRUSION) (mm)

C - D (OR E) (TOLERANCE: ±10)

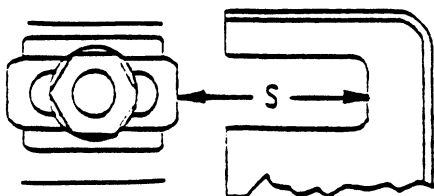
- (991) NOT MEASURED/NO APPARENT COMPRESSION
- (992) COMPRESSED, AMOUNT UNKNOWN
- (993) DEVICE EXTENDED
- (997) UNABLE TO BE MEASURED
- (998) NOT APPLICABLE (NOT EQUIPPED)
- (999) UNKNOWN

* (ADD A & B FOR TOTAL COMPRESSION)

SHEAR CAPSULE SEPARATION (mm)

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

LT:



RT:

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

COLUMN VERTICAL ROTATION

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

COLUMN LATERAL MOVEMENT

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

COLUMN DEVICE TYPES

GM

- (11)
- (12)
- (13)
- (14)
- (15)
- (16)
- (17)
- (18)
- OR
- (19)

23

25 27

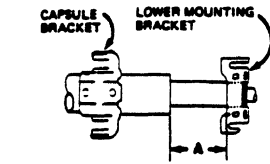
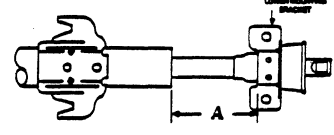
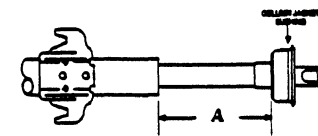
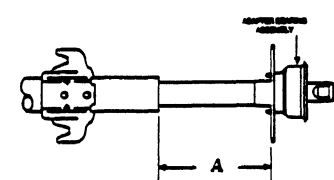
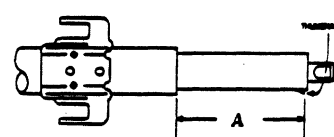
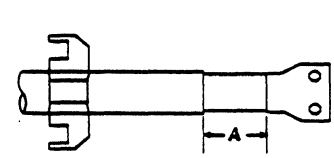
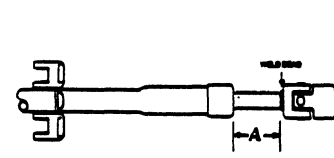
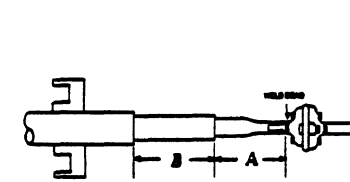
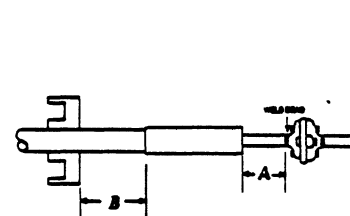
28 30

31

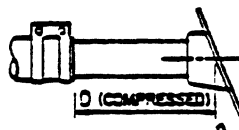
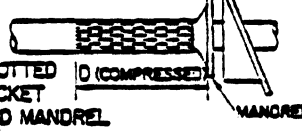
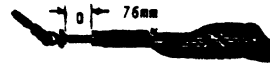
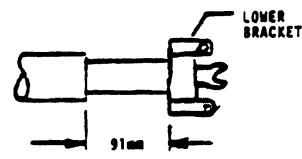
32

COLUMN DEVICE TYPES


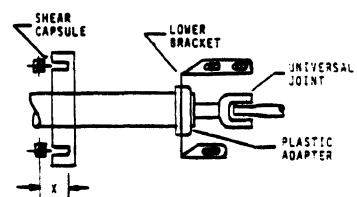
GM (CONT.)

- (20) 
- (21) 
- (22) 
- (23) 
- (24) 
- (25) 
- (26) 
- * (27) 
- * (28) 


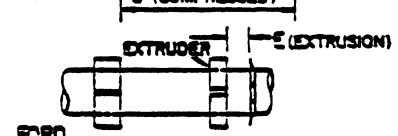
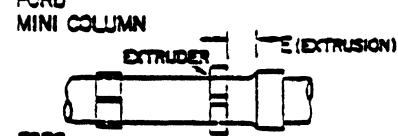
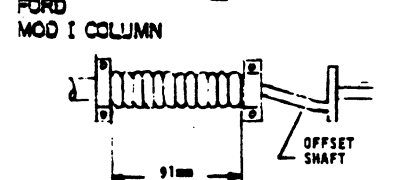
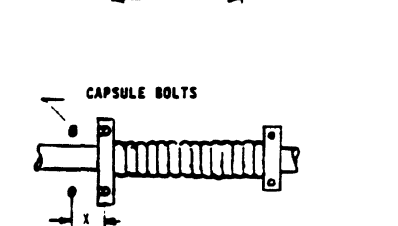
CHRYSLER

- (31) 
- (32) 
- (33) 
- (34) 

BALL-TILT

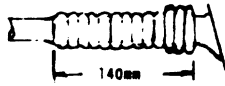
- (35) 
- (36) 

FORD

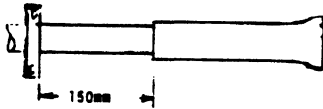
- (41) 
- (42) 
- (43) 
- (44) 
- (45) 

FORD (CONT.)

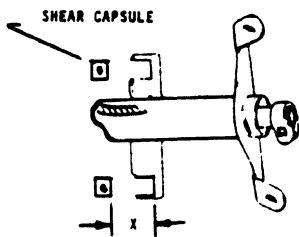
(46)



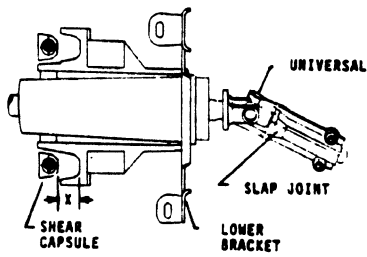
(47)



(48)

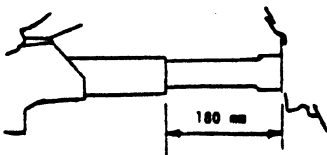


(49)

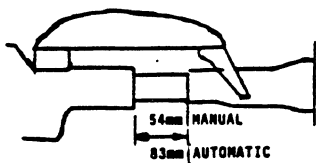


TOYOTA

(51)



(52)



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 & SPACE 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	21	22 23

VAN
12 PASSENGER CAPACITY

X	X	11	13
X	X	21	22 25
X	X	31	32 35
X	X	41	42 46 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.*

- (50) WINDSHIELD HEADER
A-PILLAR
ROOF SIDE RAIL
- (51) INSTRUMENT PANEL
A-PILLAR
DOOR PANEL
- (52) INSTRUMENT PANEL
A-PILLAR
WINDSHIELD HEADER
- (53) DOOR PANEL
B-PILLAR
ROOF RAIL
- (54) DOOR PANEL
A-PILLAR
ROOF RAIL
- (55) INSTRUMENT PANEL
FLOOR PAN
A-PILLAR
DOOR FRAME
- (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
- (60) ROOF
ROOF RAIL
A-PILLAR
B-PILLAR
C-PILLAR
WINDOW FRAME
DOOR PANEL
FLOOR PAN
- (61) INSTRUMENT PANEL
TOE PAN
WINDSHIELD HEADER
A-PILLAR
ROOF RAIL
WINDOW FRAME
DOOR PANEL
ROOF
- (62) ROOF
ROOF RAIL
C-PILLAR
WINDOW FRAME
FLOOR PAN
SECOND SEAT
DOOR PANEL
- (63) ROOF RAIL
ROOF
B-PILLAR
WINDOW FRAME
FLOOR PAN
DOOR PANEL
SECOND SEAT
FRONT SEAT
- (64) ROOF RAIL
ROOF OR CONVERTIBLE TOP
A-PILLAR
B-PILLAR
WINDOW FRAME
WINDSHIELD HEADER

(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 $\frac{13}{13}$

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

WAS INTRUSION CATASTROPHIC $\frac{14}{14}$

(0) NO SKIP PAGE.
 (1) YES 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	---	---	---	---	---	---	---	---	---

NOTE: USE ADDITIONAL PAGE IF MORE THAN 7 INTRUSIONS.

Duplicate columns 1-12 for each line.

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
$\frac{13}{13}$ ---	$\frac{15}{15}$ (1) DIRECT IMPACT
$\frac{16}{16}$ ---	$\frac{18}{18}$ (2) INDUCED DAMAGE
$\frac{19}{19}$ ---	$\frac{21}{21}$ (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 $\frac{22}{22}$ ---	---	$\frac{25}{25}$	(0) NONE
B $\frac{26}{26}$ ---	---	$\frac{29}{29}$	(1) A-PILLAR
C $\frac{30}{30}$ ---	---	$\frac{33}{33}$	(2) B-PILLAR
D $\frac{34}{34}$ ---	---	$\frac{37}{37}$	(3) C-PILLAR
			(4) LATCH/STRIKER
			(5) HINGES
			(7) OTHER: _____
			(8) NOT APPLICABLE
			(9) UNKNOWN

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.

INTRUSION IT-4
— 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 INTRUSION NUMBER	B OCCUPANT SPACE NO.	C INTRUDING COMPONENT OR OBJECT	D ASSOC. EVENT NO.	E MAXIMUM INTRUSION (cm)	F MEASURE- MENT AXIS	G OCCUPANT NUMBER	H INJURY NUMBER	I OCCUPANT NUMBER	J 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 $\frac{1}{9}$ $\frac{D}{10}$ Format $\frac{0}{11}$ $\frac{1}{12}$

INTERIOR DAMAGE ID-1

CODES: (0) NO
(1) YES
(8) NOT APPLICABLE
(9) UNKNOWN

INDICATE OCCUPANT CONTACT BY CIRCLING RESPONSE.

	LEFT	RIGHT	FRONT		INSTRUMENT PANEL	
SIDES						
FRONT DOOR	<u>13</u>	<u>14</u>	FOOT CONTROLS	<u>45</u>	UPPER PANEL	<u>55</u>
FRONT HARDWARE	<u>15</u>	<u>16</u>	IGNITION KEYS	<u>46</u>	MID PANEL	<u>56</u>
FRONT ARMREST	<u>17</u>	<u>18</u>	REAR VIEW MIRROR	<u>47</u>	LOWER PANEL	<u>57</u>
FRONT GLASS	<u>19</u>	<u>20</u>	SUNVISOR/FITTINGS	<u>48</u>	ASHTRAY	<u>58</u>
REAR DOOR AREA	<u>21</u>	<u>22</u>	WINDSHIELD TOP MOLDINGS	<u>49</u>	CONTROL KNOBS & LEVERS	<u>59</u>
REAR HARDWARE	<u>23</u>	<u>24</u>	LEFT A-PILLAR (UPPER OR LOWER)	<u>50</u>	GLOVE COMPARTMENT AREA	<u>60</u>
REAR ARMREST	<u>25</u>	<u>26</u>	RIGHT A-PILLAR (UPPER OR LOWER)	<u>51</u>	INSTRUMENTS	<u>61</u>
REAR GLASS	<u>27</u>	<u>28</u>	CONSOLE	<u>52</u>	PARKING BRAKE RELEASE	<u>62</u>
ROOF SIDE RAIL	<u>29</u>	<u>30</u>	TRANSMISSION SELECTOR LEVER	<u>53</u>	PARKING BRAKE PEDAL	<u>63</u>
B-PILLAR	<u>31</u>	<u>32</u>	HORN, SPOKE SHROUD	<u>54</u>	A/C OR UPPER VENT OUTLETS	<u>64</u>
C-PILLAR	<u>33</u>	<u>34</u>			HEATER OR A/C DUCTS	<u>65</u>
D-PILLAR	<u>35</u>	<u>36</u>			RADIO	<u>66</u>
HEADLINING	<u>37</u>	<u>38</u>			OTHER: * _____	<u>67</u>
ROOF STRUCTURE	<u>39</u>	<u>40</u>				
T-ROOF/SUN ROOF	<u>41</u>	<u>42</u>			REAR BACKLIGHT	<u>68</u>
OTHER: * _____	<u>43</u>	<u>44</u>			BACKLIGHT HEADER	<u>69</u>

* MORE THAN ONE ITEM MAY BE NOTED.

Duplicate columns 1-8 from the previous card.

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

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

SEATS ST-1

FRONT SEAT	DRIVER	PASSEN'R	FRONT SEAT-BACK (CONT.)	DRIVER	PASSEN'R
<p>TYPE OF FRONT SEAT</p> <p>(00) NO SEAT (01) STANDARD BENCH (02) SPLIT BACK, 50-50 (03) SPLIT BACK, DRIVER WIDE (04) SPLIT BACK, PASS. WIDE (05) BUCKET (06) CAPTAIN'S CHAIR (07) INDIV. BENCH, 50-50 (08) INDIV. BENCH, DRIVER WIDE (09) INDIV. BENCH, PASS. WIDE (97) OTHER: _____ (99) UNKNOWN</p>	13	15	<p>SEAT-BACK TYPE</p> <p>(1) FORWARD FOLDING (2) RIGID (3) RECLINING (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN</p>	30	31
<p>TYPE OF SEAT MOUNT</p> <p>(1) STANDARD (2) PEDESTAL (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN</p>	17	18	<p>SEAT-BACK LOCK TYPE</p> <p>(0) NONE (1) MANUAL (2) INERTIA (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN</p>	32	33
<p>SWIVEL MECHANISM EQUIPPED</p> <p>(0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN</p>	19	20	<p>LOCKS HELD</p> <p>(0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN</p>	34	35
<p>ORIGINAL EQUIPMENT SEATS</p> <p>(0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN</p>	21	22	<p>RECLINER MECHANISM FAILED</p> <p>(0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN</p>	36	37
<p>CONTACT OF SEAT BY REAR OCCUPANT</p> <p>(0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN</p>	23	24	<p>HEAD RESTRAINT</p> <p>HEAD RESTRAINT TYPE</p> <p>(0) NONE (1) ADJUSTABLE (2) INTEGRAL (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN</p>	38	39
<p>FRONT SEAT DAMAGE</p> <p>(0) NONE (1) BACKREST ONLY DAMAGED (2) CUSHION ONLY DAMAGED (3) BACKREST & CUSHION DAMAGED (8) NOT APPLICABLE (9) UNKNOWN</p>	25	26	<p>REMOVED PRE-CRASH</p> <p>(0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN</p>	40	41
<p>CENTER ARMREST DAMAGED</p> <p>(0) NO (1) YES (7) EQUIPPED, DAMAGE UNKNOWN (8) NOT APPLICABLE (NO CENTER ARMREST) (9) UNKNOWN IF EQUIPPED</p>	27		<p>ADJUSTMENT AT CRASH</p> <p>(1) UP (2) DOWN (8) NOT APPLICABLE (9) UNKNOWN</p>	42	43
<p>FRONT SEAT-BACK</p> <p>OBVIOUS SEAT-BACK ROTATION</p> <p>(0) NONE APPARENT (1) FORWARD APPARENT (2) REARWARD APPARENT (8) NOT APPLICABLE (9) UNKNOWN</p>	28	29	<p>HEAD RESTRAINT DAMAGE</p> <p>(0) NONE (1) DAMAGED BUT NOT SEPARATED (2) SEPARATED (8) NOT APPLICABLE (9) UNKNOWN</p>	44	45

FRONT SEAT ADJUSTMENT		DRIVER	PASSEN'R	REAR SEAT		LEFT	RIGHT
SEAT ADJUSTMENT TYPE				TYPE OF REAR SEAT			
(0) NONE (RIGID) (1) MANUAL (2) POWER (7) OTHER: _____ (8) NOT APPLICABLE (NO SEAT) (9) UNKNOWN		—	+7	(0) NONE (1) NON-FOLDING (2) FOLDING (9) UNKNOWN		56	57
ADJUSTMENT PROVIDED				REAR SEAT DAMAGE			
(1) 2-WAY (2) 4-WAY (3) 6-WAY (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		45	49	(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		58	59
SEAT ADJUSTER DAMAGE				CENTER ARMREST DAMAGED			
(0) NONE (1) CHUCKING (FREE PLAY) (2) DEFORMED (RELEASED/JAMMED) (3) SEPARATED (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		50	51	(0) NO (1) YES (7) EQUIPPED, DAMAGE UNKNOWN (8) NOT APPLICABLE (NO CENTER ARMREST) (9) UNKNOWN IF EQUIPPED		60	
SEAT ADJUSTER SEPARATION				REAR SEAT-BACK LOCKS		LEFT	RIGHT
(0) NONE (1) SEPARATED AT FLOOR (2) SEPARATION OF ADJUSTER (3) SEPARATED AT SEAT (8) NOT APPLICABLE (9) UNKNOWN		52	53	FOR THE FOLLOWING, USE: (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN			
PRE-CRASH POSITION				LEFT OR CENTER, EQUIPPED		61	62
(1) FORWARD (2) MIDDLE (3) REARWARD (8) NOT APPLICABLE (9) UNKNOWN		54	55	LEFT OR CENTER, HELD (3) SEAT FOLDED DOWN		63	64
INVESTIGATOR'S NOTES: _____ _____ _____ _____ _____ _____				RIGHT, EQUIPPED		65	66
				RIGHT, HELD (3) SEAT FOLDED DOWN		67	68
				THIRD SEAT			
				EQUIPPED		69	70
				BACKREST DAMAGED		71	72
				CUSHION DAMAGED		73	74

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>3</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>		

MEDICAL CONDITIONS (CONT.)

POLICE INJURY SEVERITY
CODE FOR THIS OCCUPANT

- (0) 0 - NO INJURY
- (1) C - POSSIBLE INJURY
- (2) B - NON-INCAPACITATING INJURY
- (3) A - INCAPACITATING INJURY
- (4) K - FATAL
- (5) INJURED, SEVERITY UNKNOWN
- (6) DIED PRIOR TO IMPACT
- (7) NON-FATAL INJURY, SEVERITY UNKNOWN
- (9) UNKNOWN

36

CHILD SEAT TYPE

- (00) NONE USED
- (01) YES, USED
- (88) NOT APPLICABLE (ADULT OR OLDER CHILD)
- (99) UNKNOWN

41

CHILD SEAT MAKE/MODEL

RESTRAINT SYSTEM

ACTIVE RESTRAINT SYSTEM

- (0) NONE
- (1) LAP BELT
- (2) SHOULDER HARNESS ONLY
- (3) BOTH LAP BELT & SHOULDER HARNESS
- (9) UNKNOWN

ACTIVE RESTRAINT SYSTEM USAGE

- (0) NONE (AVAILABLE BUT NOT USED)
- (1) LAP BELT ONLY
- (2) SHOULDER HARNESS ONLY
- (3) BOTH LAP BELT & SHOULDER HARNESS
- (8) NOT APPLICABLE (NONE AVAILABLE)
- (9) UNKNOWN

38

PASSIVE RESTRAINT SYSTEM

- (0) NONE
- (1) AIR BAG INSTALLED
- (2) PASSIVE UPPER TORSO WITH KNEE BOLSTERS
- (3) PASSIVE UPPER TORSO WITHOUT KNEE BOLSTERS
- (4) PASSIVE LAP & UPPER TORSO
- (7) OTHER: _____
- (9) UNKNOWN

PASSIVE RESTRAINT SYSTEM USAGE

- (1) AIR BAG NOT DEPLOYED
- (2) AIR BAG DEPLOYED
- (3) AIR BAG NOT REINSTALLED
- (4) PASSIVE UPPER TORSO USED
- (5) PASSIVE LAP & UPPER TORSO USED
- (6) SYSTEM DEFEATED
- (8) NOT APPLICABLE (NOT ORIGINALLY EQUIPPED)
- (9) UNKNOWN

40

EJECTION

DEGREE OF EJECTION

- (0) NONE
- (1) PARTIAL
- (2) COMPLETE
- (7) EJECTED, DEGREE UNKNOWN
- (9) UNKNOWN IF EJECTED

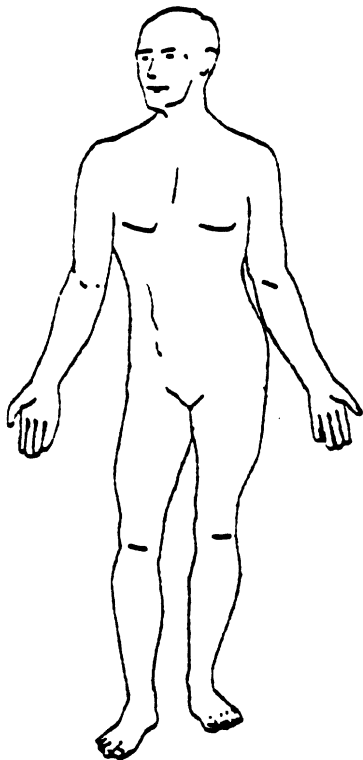
AREA OF EJECTION

- (01) WINDOW, LEFT SIDE
- (02) WINDOW, RIGHT SIDE
- (03) WINDOW, REAR
- (04) DOOR, LEFT SIDE
- (05) DOOR, RIGHT SIDE
- (06) DOOR, REAR OR TAILGATE
- (07) WINDSHIELD
- (08) ROOF OR OPEN CONVERTIBLE OR FROM EXTERNAL AREA
- (96) EJECTED AREA UNKNOWN
- (97) OTHER AREA: _____
- (98) NOT APPLICABLE (NOT EJECTED)
- (99) UNKNOWN IF EJECTED

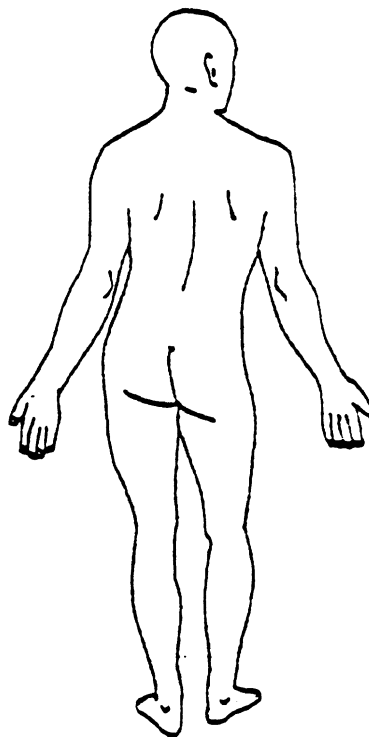
45

IF OCCUPANT WAS EJECTED, DESCRIBE
IN DETAIL BELOW:

INDICATE LOCATION OF INJURIES, INCLUDING MAJOR BRUISES.

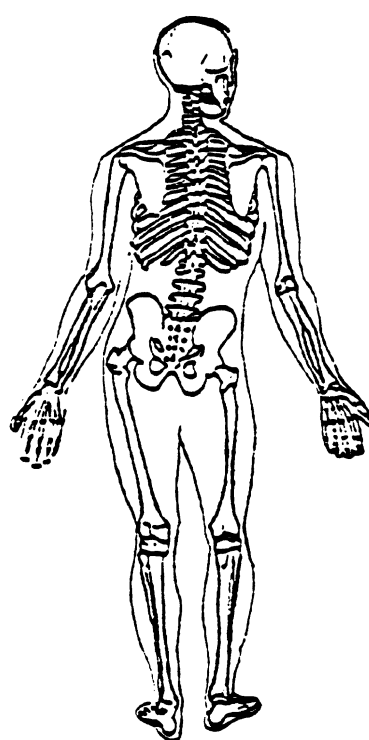
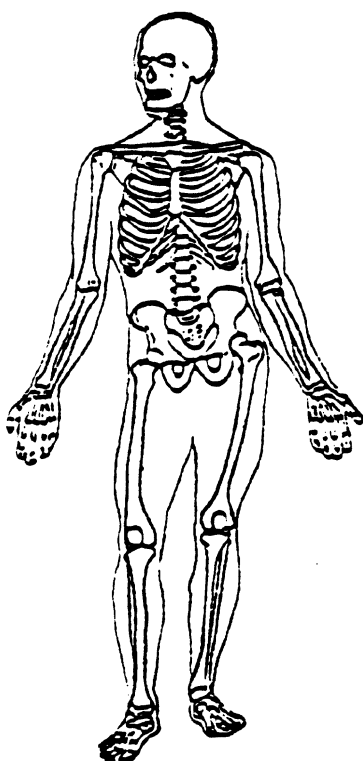


RIGHT



LEFT

RIGHT



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.*)

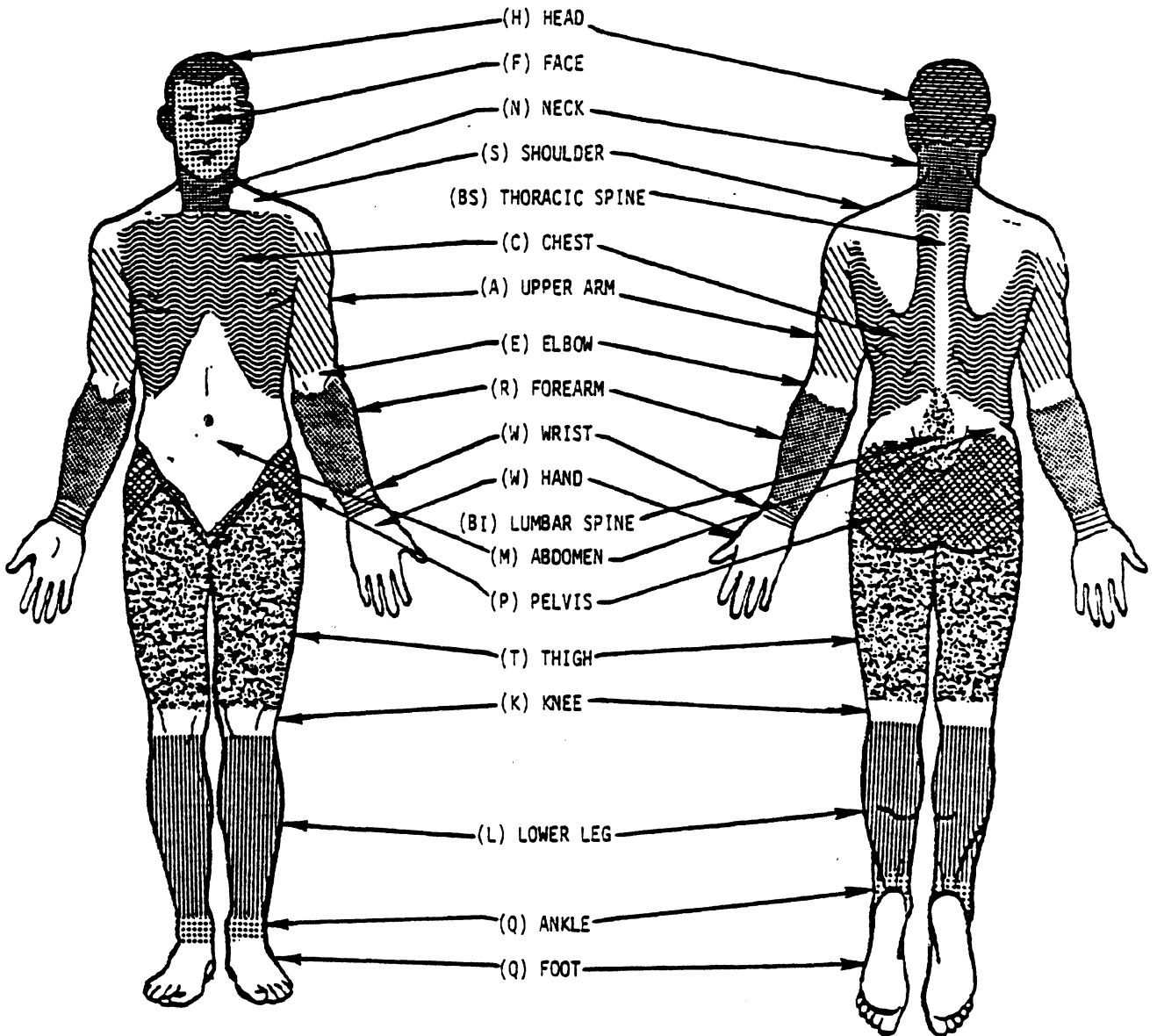
PENETRATING OBJECTS

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

MISCELLANEOUS

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

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) PERFORATION, PUNCTURE
- (K) CONCUSSION
- (V) AVULSION
- (R) RUPTURE
- (S) SPRAIN
- (D) DISLOCATION
- (N) CRUSH
- (M) AMPUTATION
- (B) BURN
- (G) DETACHMENT, SEPARATION
- (Z) FRACTURE AND DISLOCATION
- (T) STRAIN
- (E) TOTAL SEVERANCE, TRANSECTION
- (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) EARS
- (O) EYES
- (A) ARTERIES
- (H) HEART
- (Q) SPLEEN
- (G) UROGENITAL
- (K) KIDNEYS
- (R) RESPIRATORY
- (P) PULMONARY/LUNGS
- (M) MUSCLES
- (T) THYROID, OTHER ENDOCRINE GLAND
- (I) INTEGUMENTARY (*SKIN*)
- (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

