

UM-HSRI-80-52-2

REVIEW OF LITERATURE AND REGULATION  
RELATING TO HEAD IMPACT TOLERANCE  
AND INJURY CRITERIA

APPENDIX C  
NCSS HEAD INJURY ACCIDENT DATA

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Technical Report Documentation Page

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16. Abstract  Illustrations of head injury accident data from the NCSS file are presented, correlations between AIS and various measures of crash severity are calculated, and suggestions for improving accident data collection are made.			
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### Appendix C: NCSS Head Injury Accident Data

The National Crash Severity Study (NCSS) data file, as modified in March 1980, was used as a source of field data relating to head injury. Cases were selected from that file using a global filter that passed only those cases in which an injured occupant was the driver or right front passenger of a 1970 or later model passenger vehicle. Previous examination of these files indicated that the numbers of NCSS cases involving occupants in other seating positions would be too small to be significant.

The data set produced above was matched to and merged with a secondary NCSS file available at HSRI that contained measured crush data for most case vehicles. In those cases for which there were no actual crush data, such data were derived from the CDC code for the case vehicle and added to the file. A single digit appended to the end of each file provides a code by which one can determine if the crush data is actual or derived.

In addition, based upon an inquiry by Professor Donald Huelke, the data of each case were processed through an elementary program to produce a new variable that describes the front seating pattern of each case vehicle. This code is incorporated into the data file.

It was convenient to partition the data file according to the class of object struck by the case vehicle. Preliminary examination indicated that the physics of the event could be only poorly inferred in those cases in which the struck object was a heavy truck, a rail, an abutment, a building, or a field. Later examination also eliminated those cases involving trucks of less than 10,000 lbs. GVW, because it was not

possible to infer the crash configuration. Thus, the field data were reduced to two broad categories: (1) case cars striking cars and (2) case cars striking trees over six inches in diameter or utility poles. In each instance, the crashes were subdivided according to whether they had frontal crush or side crush (on the side adjacent to the case occupant). Thus, there is a 2 x 2 x 2 structure to the cases examined: occupant position, object struck, side crushed.

A primary reason for examining field case data was to deduce, if possible, the kinetics and kinematics associated with particular categories of occupant injury. Specifically, we were interested in the prospects of deducing, for this study, which vehicle target points were struck by the occupant's head/skull and the probable striking velocity vector. This goal was paramount in the choice of cases. The March 1980 revision of the NCSS file, however, served to remove from the file a portion of the previously reported head/skull contact point information, because these data were discovered to have been erroneously coded. The file's potential for illuminating head-to-vehicle interactions was therefore reduced. The contact points for other body regions, however, are reported in reasonable frequency. These interactions, described as facial, neck, thorax, abdominal, pelvic, or upper/lower limbs, are noted for each case but are reserved for discussion elsewhere.

To provide an estimate of the vehicle kinematics, the NHTSA CRASH2 algorithm was utilized (in partial form) to deduce, for each case vehicle, a peak deceleration and a barrier-equivalent velocity. These parameters were deduced from the peak force associated with crush and the energy absorbed in the crush respectively. Both of these parameters are used in full CRASH2 runs when the struck vehicle/object is

specified. The NCSS file reports values of the DOT-derived Delta-V for a significant number of cases.

The data presented here are in eight separate categories of head injury:

- Driver, Car to Car, Front Crush (p. 9)
- Driver, Car to Car, Left-Side Crush (p. 71)
- Right Front Passenger, Car to Car, Front Crush (p. 106)
- Right Front Passenger, Car to Car, Right-Side Crush (p. 144)
- Driver, Car to Tree/Pole, Front Crush (p. 162)
- Driver, Car to Tree/Pole, Left-Side Crush (p. 194)
- Right Front Passenger, Car to Tree/Pole, Front Crush (p. 204)
- Right Front Passenger, Car to Tree/Pole, Right-Side Crush (p. 219)

For each category there is a listing summarizing the cases, which are ordered according to the occupant's OAIS. The NCSS case number may be used to extract a full data set listing, in English, of any case from the NCSS file or to retrieve the original hard copy case reports. Each NCSS case record may contain a report of three injuries, and it is not uncommon among the cases in these listings to have more than one head injury per occupant.

In a set of three figures following each of the category listings, the DOT-derived Delta-Velocity (when available), the Barrier-Equivalent Velocity, and the Peak Deceleration for each case are plotted versus the AIS value of the most severe head injury of each case. (The AIS values plotted were perturbed by a random number generator to reduce the probability of exact overplotting of two or more data points.) A least-squares linear regression line was then calculated and plotted for these cases, and the equation of that line is printed on the figure. In addition, a correlation coefficient was determined for each category and is printed on the figure. The square of the correlation coefficient represents the fraction of the variability that is thought to be accounted for by the independent variable of the plot.

Following these listings and plots, there are sets of computer-composed sketches of the case reports. Each sketch is divided into three regions. The upper region describes the case vehicle data, the occupant's use of restraints, and the value of the ejection/entrapment variable. The weighting factor is derived from the NCSS code and could be used to infer the significance of a case according to the sampling protocol of the NCSS study. This factor was not used in this report. The statement ICOD = 1 indicates a CDC-derived crush shape, and ICOD = 2 indicates a measured crush profile. The middle portion of each sketch reports the nature of the occupant's injuries to all body regions.

The lower portion of each sketch has three subparts. The first is a standard sized box within which the case number and a scaled sketch of the crushed case vehicle are shown. Vehicles have been scaled to the outside dimensions of their size category according to the data built into the CRASH2 program. The crush region is plotted from the coordinates given. CDC-derived crush shapes fit the vehicle sketch, while measured NCSS crush shapes may not. From the centroid of each crush shape, a short line runs in the direction of the reported crash force and terminates where a line perpendicular to the force would intersect the vehicle's center. This line does not indicate magnitude of force, but rather it assists the reader in appreciating the rotational motions associated with the crash. Small circles illustrate the front seating pattern, the filled-in circle being the case occupant.

Next to the vehicle sketch is a frontal view of an upright occupant. This sketch depicts a head, neck, thorax, and abdominal region in a vertical array. Below the abdominal region is an area representing the lower back, pelvis, and lower limbs. To each side of

the thorax region are areas representing the shoulders and upper limbs. The program places the AIS code corresponding to the various injuries into these regions for rapid visual appreciation, but the location of an AIS number within a given area is not significant.

Below these two sketches are a variety of reported and deduced data on the vehicle and occupant. The variables IXP and IYP report the percentage coordinates of the centroid of the crush shape relative to the front left corner of the vehicle. The "mass factor," which is used to adjust the weight of the vehicle to an "effective weight" for non-central impacts, is also reported.

The correlation between an occupant's greatest head injury AIS value and the DOT Delta-Velocity parameter is overall better than any other correlation attempted. For the driver,  $AIS = 0.1559 (D.V. - 11.23)$  and  $R = .656$  (see Fig. 1). For the right front passenger,  $AIS = 0.2447 (D.V. - 11.23)$  and  $R = .523$  (see Fig. 2). Detailed review of the cases by category seems to lead to the same conclusion that is indicated by the R values, namely that Delta-V should be considered as only a principal factor in predicting the degree of head injury. Other factors, potentially more significant, apparently exist but are not available from the NCSS data. It is unfortunate, for instance, that the object struck by the occupant's head and responsible for injury is seldomly reported. In addition, because there is no physical description of the occupant's body size or the longitudinal position of the occupant's seat, it is not possible to infer either the contact region or the relative striking velocity.

Data of the NCSS type are now being collected under the NASS program of NHTSA. While it is expected that reports of head injury may

have a higher level of reported contact points or regions, this in itself is not adequate. Anthropometric and interior geometric indicators are still needed before occupant injury kinetics can be determined and analyzed. These data should not continue to be ignored.



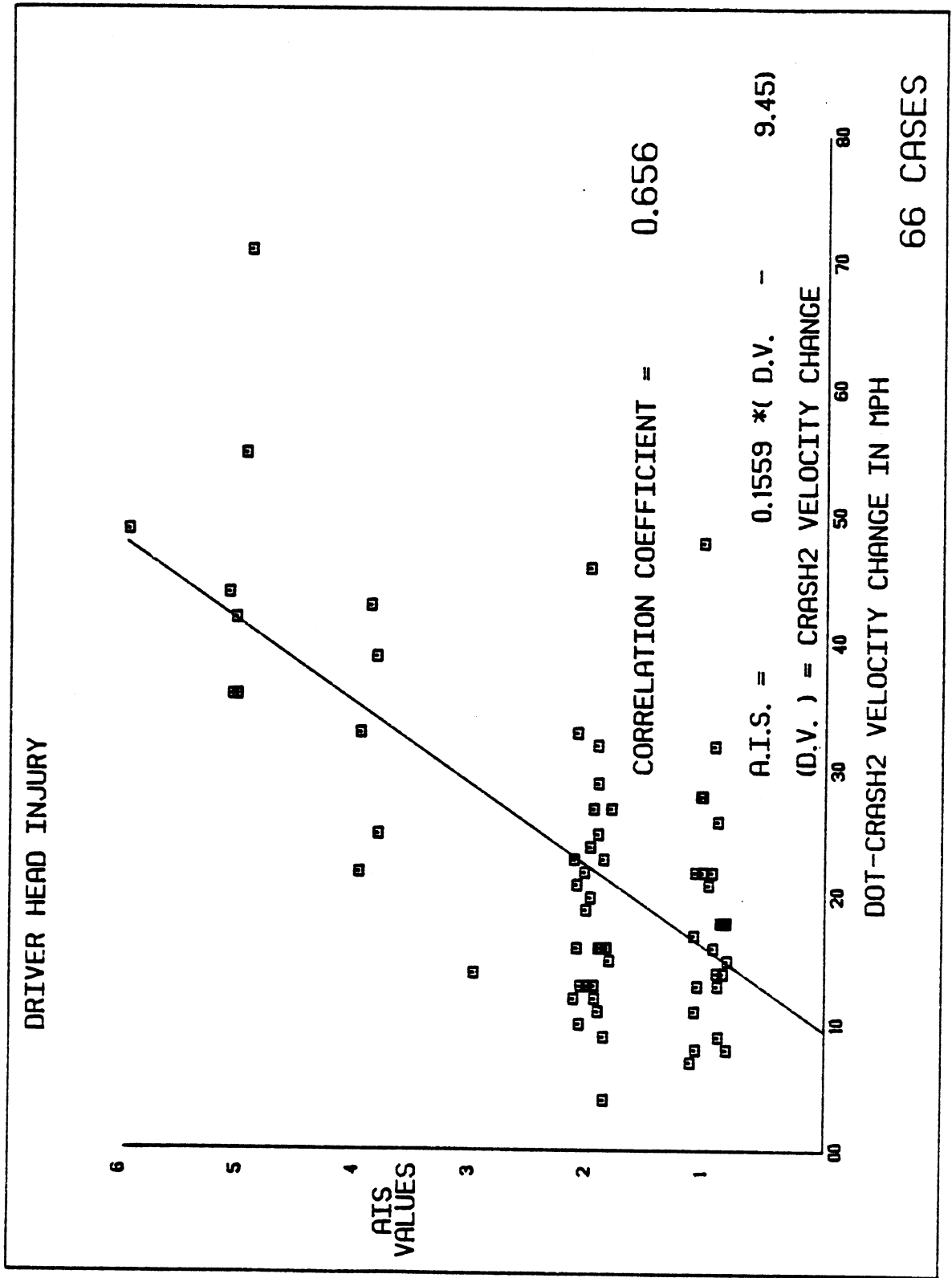


FIGURE 1

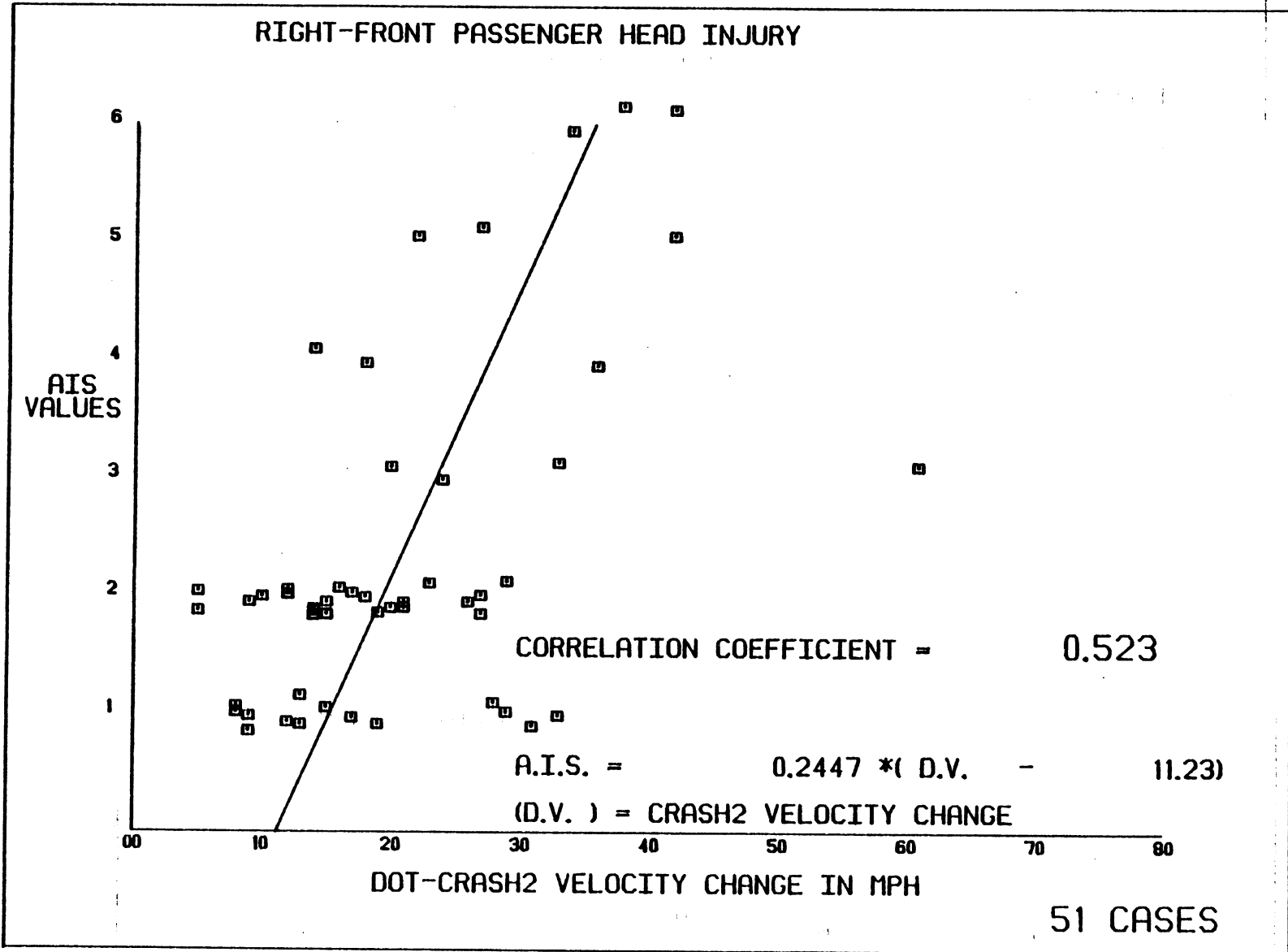
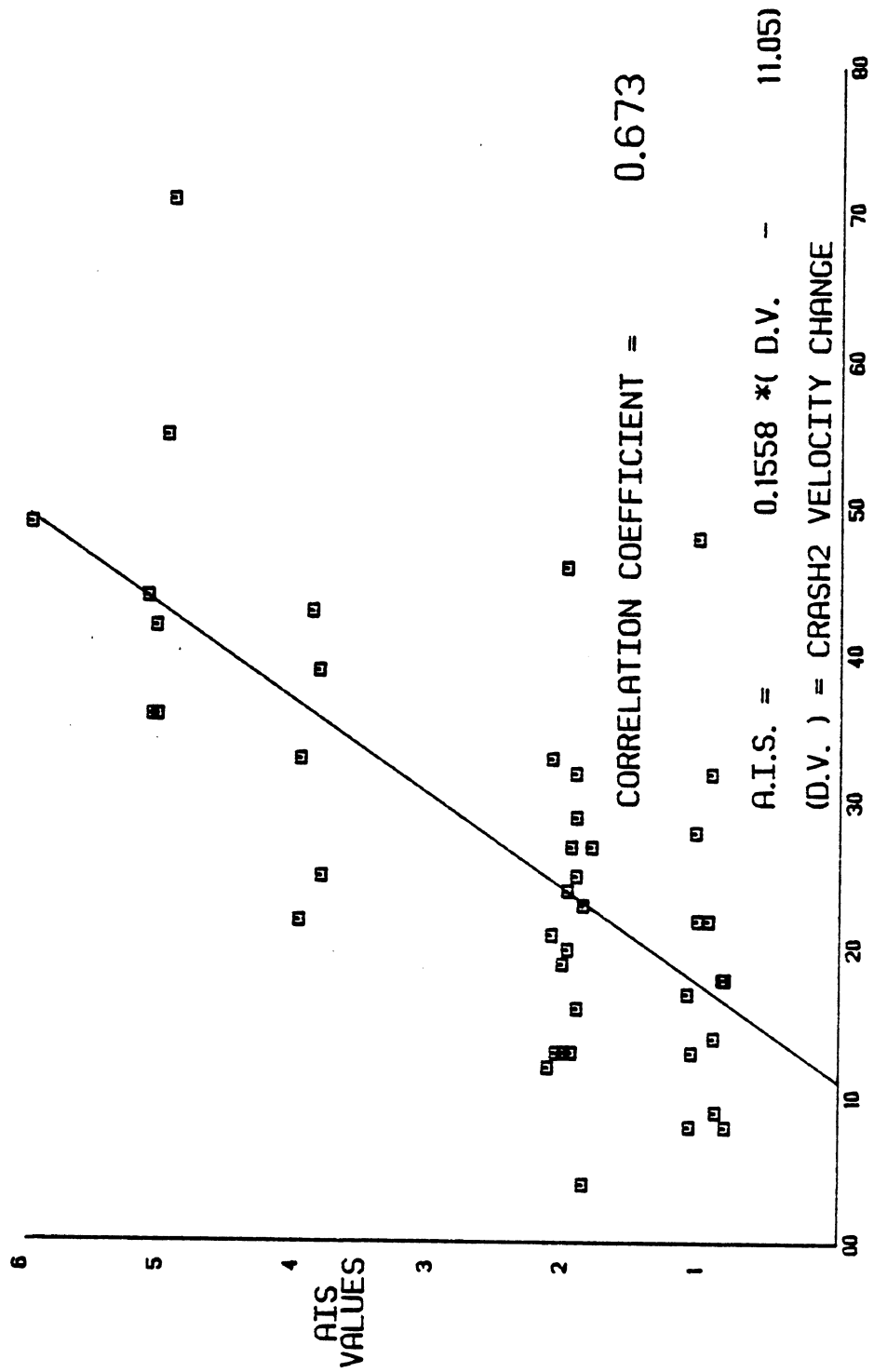


FIGURE 2

DRIVER HEAD INJURY		LARI TO CAR CRASH, FRONT CRUSH				EQUIVALENT BARRIER SPEED		PEAK DECELERATION		OBJECT CONTACTED		DOT-CRASHZ DELTA-V			
VEHICLE CODE	ACSS CASE	LEVEL INJURY	TYPE INJURY	OBJECT CONTACTED	PEAK DECELERATION	EQUIVALENT BARRIER SPEED	DOT-CRASHZ DELTA-V	VEHICLE CODE	ACSS CASE	LEVEL INJURY	TYPE INJURY	OBJECT CONTACTED	PEAK DECELERATION	EQUIVALENT BARRIER SPEED	DOT-CRASHZ DELTA-V
12104	170105011	1	AIS CONCUSSION	UNKNOWN	5 G	15 MPH	8 MPH								
11401	170125057	2	AIS CONCUSSION	UNKNOWN	1 G	5 MPH	4 MPH								
12106	170415042	1	AIS CONCUSSION	UNKNOWN	22 G	28 MPH	0 MPH								
14101	170423051	1	AIS CONCUSSION	UNKNOWN	1 G	5 MPH	8 MPH								
83209	170501003	1	AIS CONCUSSION	UNKNOWN	7 G	13 MPH	14 MPH								
11302	170805035	2	AIS CONCUSSION	WINDSHIELD	7 G	16 MPH	0 MPH								
11306	170916044	2	AIS CONCUSSION	MIRRORS	56 G	51 MPH	29 MPH								
11506	180304007	2	AIS CONCUSSION	WINDSHIELD	13 G	15 MPH	13 MPH								
12118	270105045	2	AIS CONCUSSION	UNKNOWN	76 G	109 MPH	46 MPH								
88109	270307021	2	AIS CONCUSSION	UNKNOWN	9 G	17 MPH	0 MPH								
14118	270504045	2	AIS CONCUSSION	UNKNOWN	9 G	15 MPH	0 MPH								
61809	270522036	1	AIS CONCUSSION	UNKNOWN	13 G	23 MPH	22 MPH								
12118	270726028	2	AIS CONCUSSION	UNKNOWN											
13102	371213055	1	AIS LACERATION	UNKNOWN	15 G	12 MPH	0 MPH								
11101	470220024	1	AIS CONCUSSION	A-PILLAR	7 G	27 MPH	0 MPH								
11502	470304003	2	AIS CONCUSSION	UNKNOWN	5 G	7 MPH	9 MPH								
11102	470530045	2	AIS FRACTURE	UNKNOWN	10 G	20 MPH	13 MPH								
11318	470924043	1	AIS CONCUSSION	UNKNOWN	8 G	15 MPH	13 MPH								
11507	471102004	2	AIS CONCUSSION	UNKNOWN											
12118	471111024	1	AIS LACERATION	WINDSHIELD	1 G	2 MPH	20 MPH								
12118	471205002	2	AIS LACERATION	WINDSHIELD	22 G	32 MPH	28 MPH								
11501	471220029	1	AIS CONCUSSION	UNKNOWN	16 G	22 MPH	16 MPH								
12108	570104014	2	AIS CONCUSSION	WINDSHIELD	20 G	22 MPH	22 MPH								
11318	570109024	2	AIS CONCUSSION	STEERING ASSEMBL	1 G	7 MPH	12 MPH								
11306	571220042	2	AIS CONCUSSION	UNKNOWN	5 G	10 MPH	0 MPH								
66109	580122041	2	AIS LACERATION	UNKNOWN	5 G	9 MPH	21 MPH								
11401	670204018	1	AIS LACERATION	WINDSHIELD	23 G	38 MPH	0 MPH								
12118	670824093	2	AIS LACERATION	WINDSHIELD	33 G	38 MPH	19 MPH								
12101	670903012	2	AIS CONCUSSION	A-PILLAR											
14108	670923083	1	AIS LACERATION	MIRRORS	19 G	39 MPH	17 MPH								
12106	671017065	2	AIS CONCUSSION	MIRRORS	21 G	48 MPH	25 MPH								
11308	671030130	2	AIS CONCUSSION	SUNVISOR/FITTING	21 G	36 MPH	23 MPH								
11501	671113036	2	AIS CONCUSSION	WINDSHIELD	15 G	23 MPH	18 MPH								
12106	680217045	1	AIS LACERATION	STEERING ASSEMBL	15 G	39 MPH	27 MPH								
13206	680228076	2	AIS CONCUSSION	A-PILLAR											
86119	700307020	2	AIS CONCUSSION	WINDSHIELD	21 G	20 MPH	32 MPH								
12118	171030046	1	AIS LACERATION	SUNVISOR/FITTING	17 G	38 MPH	0 MPH								
11403	271117027	1	AIS LACERATION	WINDSHIELD	13 G	21 MPH	0 MPH								
12118	370406020	3	AIS CONCUSSION	SUNVISOR/FITTING	35 G	52 MPH	27 MPH								
14118	370628031	2	AIS FRACTURE	WINDSHIELD	9 G	16 MPH	13 MPH								
11318	370828064	1	AIS LACERATION	MIRRORS	52 G	41 MPH	0 MPH								
66219	571220042	3	AIS CONCUSSION	STEERING ASSEMBL	16 G	29 MPH	33 MPH								
66109	670409060	1	AIS LACERATION	UNKNOWN	22 G	21 MPH	32 MPH								
		1	AIS LACERATION	UNKNOWN	22 G	21 MPH	32 MPH								
		3	AIS CONCUSSION	WINDSHIELD	36 G	33 MPH	0 MPH								
		1	AIS LACERATION	UNKNOWN	19 G	29 MPH	0 MPH								
		1	AIS LACERATION	UNKNOWN	18 G	32 MPH	18 MPH								

87109	771128036	2	AIS LACERATION	A-PILLAR	19 G	18 MPH	24 MPH
11101	370821009	4	AIS CONCUSSION	WINDSHIELD	22 G	32 MPH	43 MPH
66109	771119029	4	AIS CONCUSSION	SUNVISOR/FITTING	31 G	29 MPH	22 MPH
86109	780108008	4	AIS CONCUSSION	SUNVISOR/FITTING	27 G	30 MPH	25 MPH
11318	170215016	4	AIS CONTUSION	MIRRORS	14 G	18 MPH	33 MPH
14108	170608007	5	AIS CONTUSION	UNKNOWN	38 G	40 MPH	42 MPH
12118	171223045	5	AIS CONTUSION	SUNVISOR/ROOF	28 G	44 MPH	36 MPH
13201	180322060	5	AIS CONTUSION	WINDSHIELD	42 G	64 MPH	55 MPH
11506	370526071	5	AIS CONCUSSION	UNKNOWN	64 G	80 MPH	36 MPH
12106	470219040	5	AIS CONCUSSION	UNKNOWN	39 G	49 MPH	44 MPH
11318	470918025	5	AIS CONCUSSION	WINDSHIELD	70 G	68 MPH	71 MPH
11302	670328119	5	AIS CONCUSSION	UNKNOWN	4 G	34 MPH	0 MPH
61809	680217083	4	AIS CONCUSSION	WINDSHIELD	36 G	33 MPH	39 MPH
12118	170521029	6	AIS CRUSHING	UNKNOWN	18 G	44 MPH	49 MPH

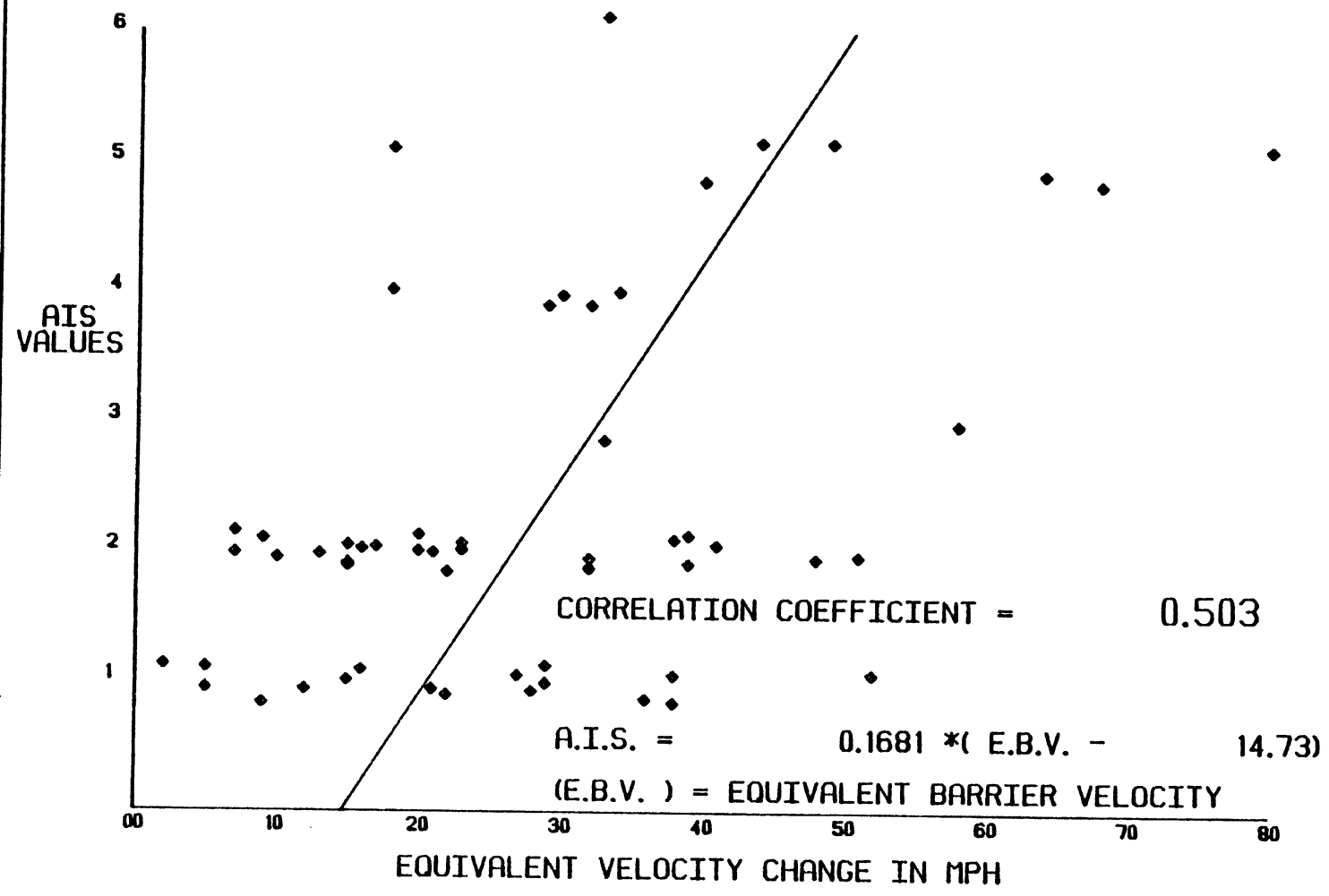
DRIVER HEAD INJURY  
CAR TO CAR CRASH , FRONT CRUSH



DOT-CRASH2 VELOCITY CHANGE IN MPH

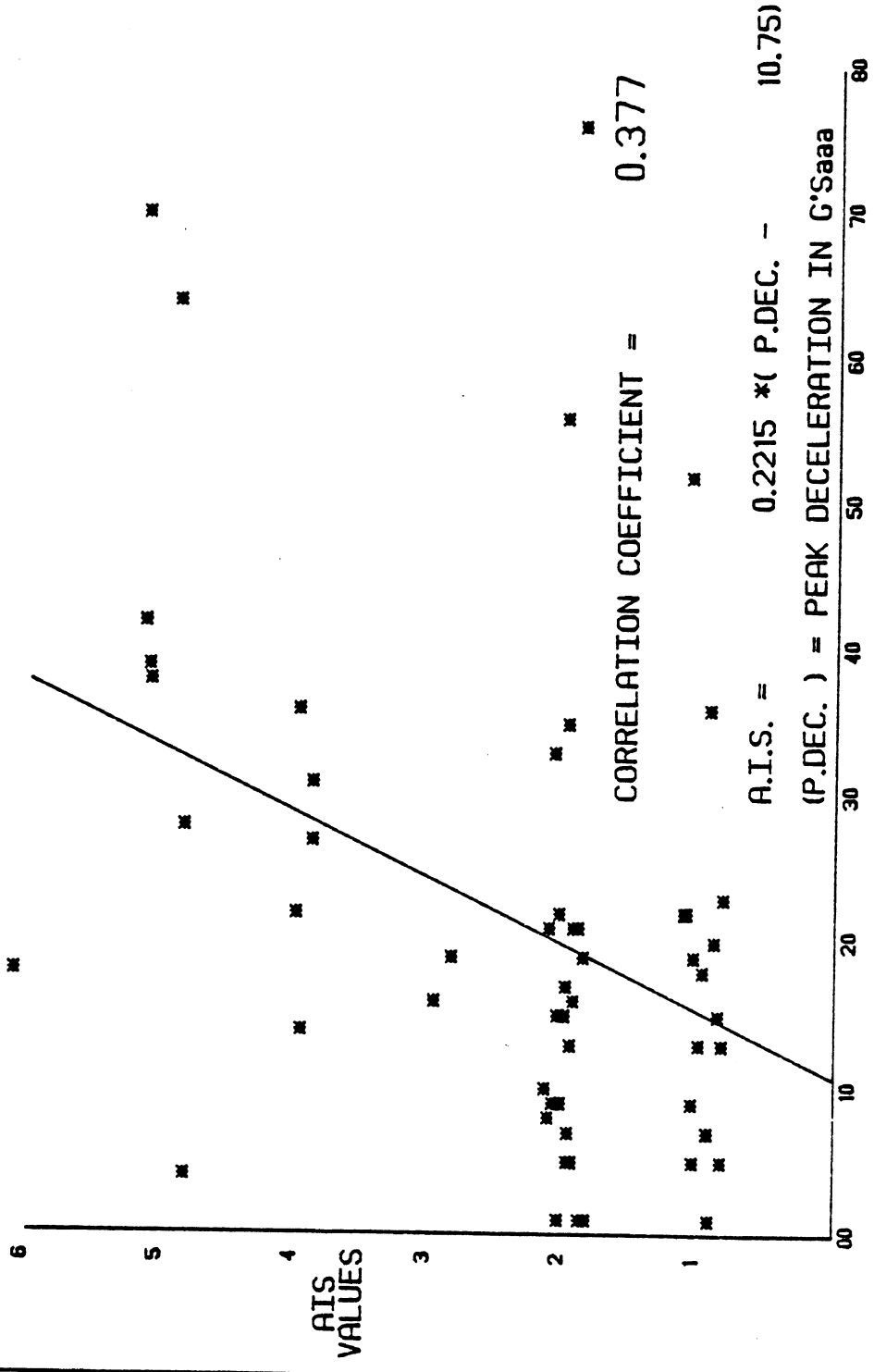
43 CASES

DRIVER HEAD INJURY  
 CAR TO CAR CRASH , FRONT CRUSH



57 CASES

DRIVER HEAD INJURY  
 CAR TO CAR CRASH , FRONT CRUSH

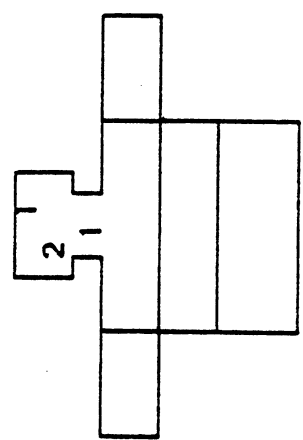
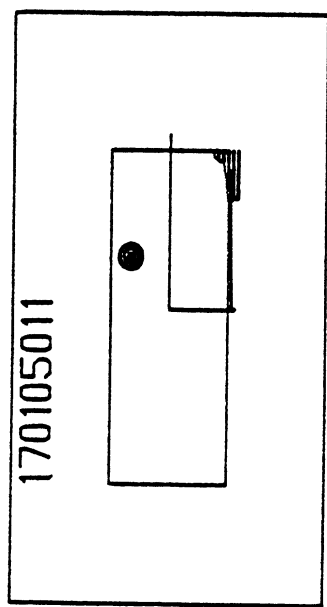


PEAK DECELERATION IN G UNITS

57 CASES

NCSS CASE NO. 170105011 5 PM WED 5 JAN 1977  
 74 PASS CAR MINI-SPECIALTY CHEVROLET 12104  
 2 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 4  
 A V/V REAR TYPE CRASH WITH COMPACT CAR  
 L= 13 C1= 3 C2= 5 C3= 6 C4= 25 C5= 23 C6= 23 D= 29 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 8 DELTA-V = 8

BODY REGION DIRECTION TYPE INJURY BODY ELEMENT INJURY LEVEL OBJECT CONTACTED	FACE INFERIOR/LOWER LACERATION DIGESTIVE MODERATE AIS2 UNKNOWN	NECK WHOLE REGION PAIN MUSCLES MINOR AIS1 UNKNOWN	HEAD-SKULL WHOLE REGION CONCUSSION BRAIN MINOR AIS1 UNKNOWN
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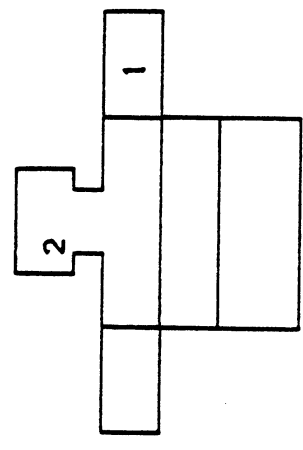
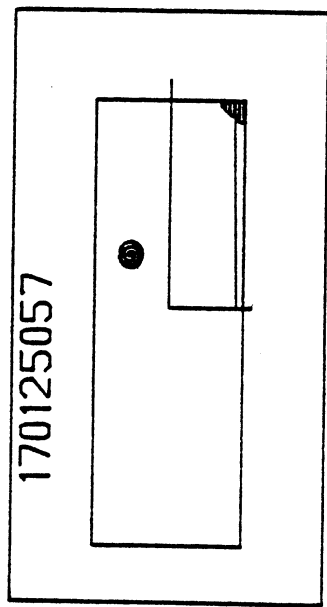


IXP = 6 IYP = 101 ZONE = 3  
 WEIGHT = 2203. FORCE = 13091.  
 CRUSH ENERGY = 135066. MASS FACTOR = 0.66  
 OCCUPANT ORAIS 2 SEATING POSITION 11  
 AGE = 21 SEX = 2 HEIGHT = 99 WEIGHT = 999



NCSS CASE NO. 170125057 10PM TUE 25 JAN 1977  
 70 PASS CAR INTERMEDIATE UNKNOWN 11401  
 1 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 OASIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V REAR TYPE CRASH WITH LUXURY CAR  
 L= 12 C1= 3 C2= 5 C3= 7 C4= 8 C5= 10 C6= 11 D= 32 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 4 DELTA-V = 4

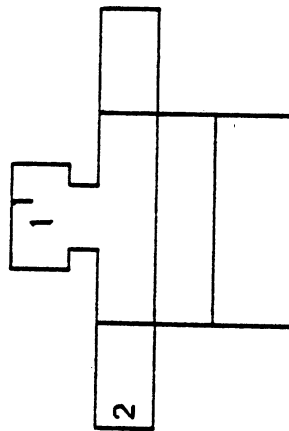
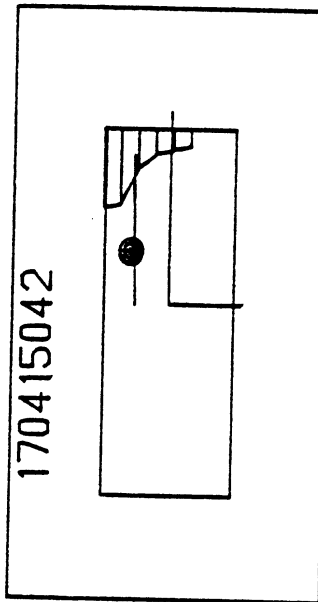
BODY REGION	HEAD-SKULL	FOREARM	UNKNOWN
DIRECTION	WHOLE REGION	LEFT	UNKNOWN
TYPE INJURY	CONCUSSION	CONTUSION	OTHER
BODY ELEMENT	BRAIN	INTEGUMENTARY	MISSING
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	INJURED/UNK SEV
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 1 IYP = 92 ZONE = 3  
 WEIGHT = 4247. FORCE = 7236.  
 CRUSH ENERGY= 45324. MASS FACTOR = 0.75  
 OCCUPANT OASIS 2 SEATING POSITION 11  
 AGE = 28 SEX = 2 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 170415042 2 AM FRI 15 APL 1977  
 75 PASS CAR SPECIALTY/PONY PONTIAC 12106  
 4 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 OASIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 4  
 A V/V HEAD ON TYPE CRASH WITH SUB-COMPACT CAR  
 L= 45 C1= 38 C2= 36 C3= 19 C4= 12 C5= 10 C6= 8 D=-12 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

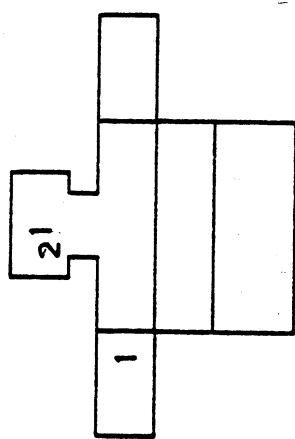
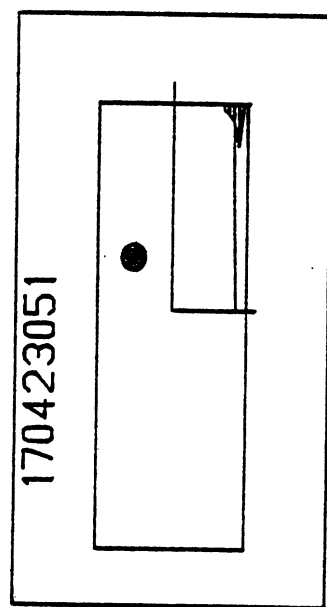
BODY REGION	WRIST-HAND	HEAD-SKULL	FACE
DIRECTION	RIGHT	SUPERIOR/UPPER	INFERIOR/LOWER
TYPE INJURY	FRACTURE	CONTUSION	CONTUSION
BODY ELEMENT	JOINTS	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 7 IYP = 22 ZONE = 1  
 WEIGHT = 3053. FORCE = 68269.  
 CRUSH ENERGY= 919169. MASS FACTOR = 0.91  
 OCCUPANT OASIS 2 SEATING POSITION 11  
 AGE = 21 SEX = 1 HEIGHT= 69 WEIGHT= 160

NCSS CASE NO. 170423051 8 PM SAT 23 APL 1977  
 72 PASS CAR INTERMEDIATE UNKNOWN 14101  
 2 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 ORIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V REAR TYPE CRASH WITH INTERMEDIATE CAR  
 L= 8 C1= 3 C2= 5 C3= 9 C4= 20 C5= 0 C6= 0 D= 30 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 8 DELTA-V = 8

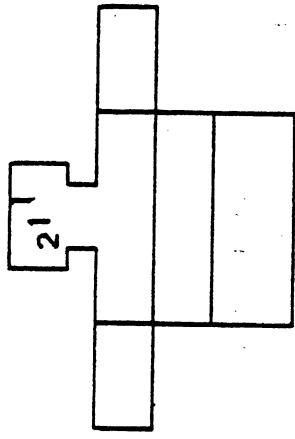
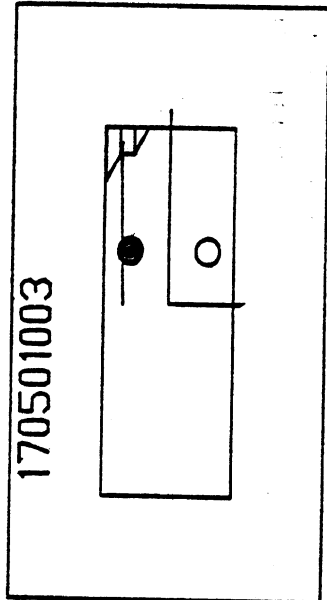
BODY REGION	FACE	HEAD-SKULL	ELBOW
DIRECTION	INFERIOR/LOWER	WHOLE REGION	RIGHT
TYPE INJURY	FRACTURE	CONCUSSION	CONTUSION
BODY ELEMENT	SKELETAL	BRAIN	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 2 IYP = 90 ZONE = 3  
 WEIGHT = 4247. FORCE = 5263.  
 CRUSH ENERGY= 39365. MASS FACTOR = 0.77  
 OCCUPANT ORIS 2 SEATING POSITION 11  
 AGE = 29 SEX = 2 HEIGHT= 65 WEIGHT= 110

NCSS CASE NO. 170501003 3 AM SUN 1 MAY 1977  
 72 PASS CAR SUB-COMP/IMPORT MERCURY 83209  
 3 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHING F= 1  
 A V/V HEAD ON TYPE CRASH WITH COMPACT CAR  
 L= 22 C1= 26 C2= 13 C3= 13 C4= 0 C5= 0 C6= 0 D=-22 ICOD= 1  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 14 DELTA-V = 14

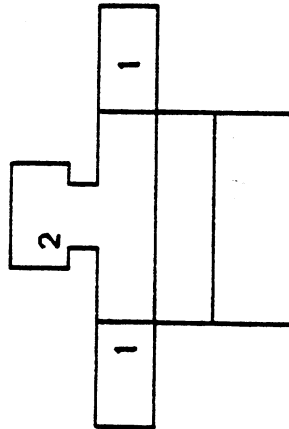
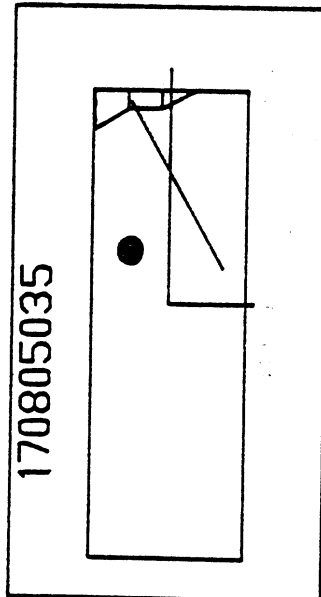
BODY REGION DIRECTION TYPE INJURY BODY ELEMENT INJURY LEVEL OBJECT CONTACTED	FACE LEFT AVULSION EYES,EARS MODERATE AIS2 UNKNOWN	FACE INFERIOR/LOWER LACERATION INTEGUMENTARY MINOR AIS1 UNKNOWN	HEAD-SKULL WHOLE REGION CONCUSSION BRAIN MINOR AIS1 UNKNOWN
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IXP = 4 IYP = 13 ZONE = 1  
 WEIGHT = 3053. FORCE = 22425.  
 CRUSH ENERGY= 190101. MASS FACTOR = 0.84  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 24 SEX = 1 HEIGHT= 76 WEIGHT= 175

NCSS CASE NO. 170805035 1 PM FRI 5 AUG 1977  
 71 PASS CAR FULL SIZE BUICK 11302  
 2 CDC EXTENT TO FRONT SIDE FROM 11OCLOCK  
 OAIS- 2 RESTRAINT- UNKNOWN EJECT/TRAP- NONE WEIGHTING F- 4  
 A UNKNOWN TYPE CRASH WITH COMPACT CAR  
 L- 52 C1- 19 C2- 9 C3- 9 C4- 0 C5- 0 C6- 0 D--13 ICOD- 1  
 LATERAL DELTA-V- 0 LONGITUDINAL DELTA-V- 0 DELTA-V - 0

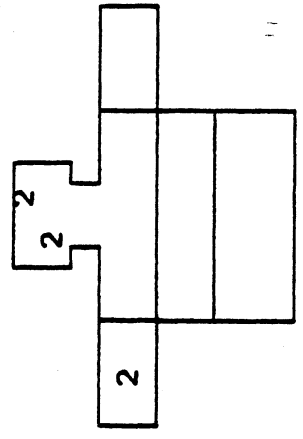
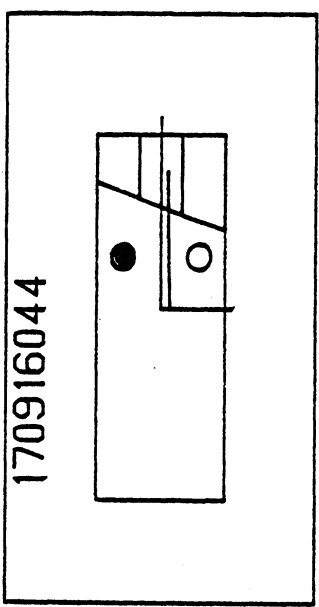
BODY REGION	HEAD-SKULL	FOREARM	SHOULDER
DIRECTION	WHOLE REGION	LEFT	RIGHT
TYPE INJURY	CONCUSSION	CONCUSSION	CONCUSSION
BODY ELEMENT	BRAIN	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	WINDSHIELD	UNKNOWN	UNKNOWN



IXP - 2 IYP - 24 ZONE - 1  
 WEIGHT - 4865. FORCE - 38767.  
 CRUSH ENERGY- 417414. MASS FACTOR - 0.79  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE - 41 SEX = 2 HEIGHT- 99 WEIGHT- 999

NCSS CASE NO. 170916044 11PM FRI 16 SEP 1977  
 71 PASS CAR SPECIALTY/PONY PONTIAC 11306  
 5 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH COMPACT CAR  
 L= 67 C1= 23 C2= 31 C3= 39 C4= 46 C5= 0 C6= 0 D= 0 ICOD= 1  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 29 DELTA-V = 29

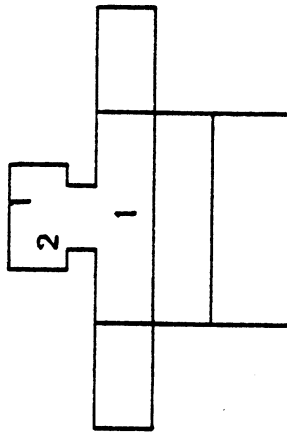
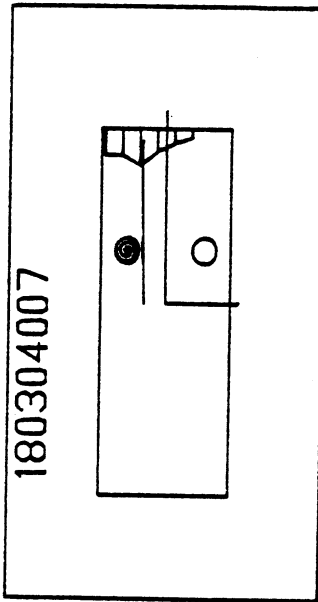
BODY REGION	HEAD-SKULL	WRIST-HAND	FACE
DIRECTION	WHOLE REGION	RIGHT	INFERIOR/LOWER
TYPE INJURY	CONCUSSION	FRACTURE	FRACTURE
BODY ELEMENT	BRAIN	SKELETAL	SKELETAL
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MODERATE AIS2
OBJECT CONTACTED	MIRRORS	HARDWARE ITEMS	STEERING ASSEMBL



IXP = 10 IYP = 55 ZONE = 2  
 WEIGHT = 3053. FORCE = 172316.  
 CRUSH ENERGY= 3223278. MASS FACTOR = 0.99  
 OCCUPANT ORIS 2 SEATING POSITION 11  
 AGE = 18 SEX = 1 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 180304007 6 PM SAT 4 MAR 1978  
 72 PASS CAR SPECIALTY/PONY PONTIAC 11506  
 2 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH INTERMEDIATE CAR  
 L= 45 C1= 13 C2= 13 C3= 18 C4= 11 C5= 7 C6= 4 D= -9 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 13 DELTA-V = 13

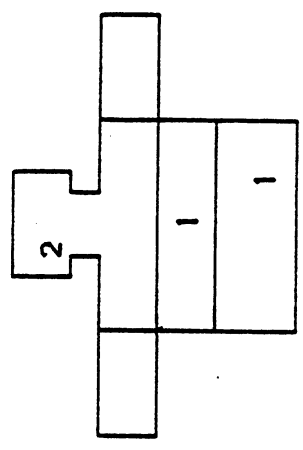
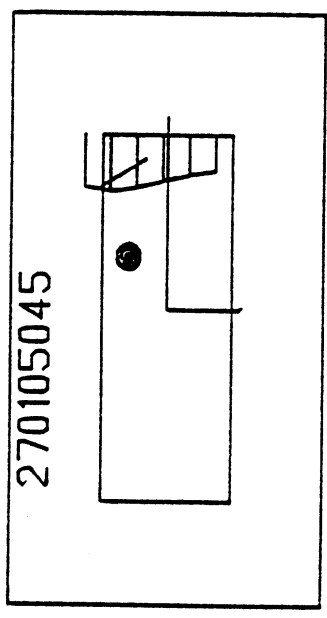
BODY REGION	HEAD-SKULL	CHEST	FACE
DIRECTION	WHOLE REGION	LEFT	INFERIOR/LOWER
TYPE INJURY	CONCUSSION	CONTOUSION	LACERATION
BODY ELEMENT	BRAIN	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	WINDSHIELD	STEERING ASSEMBL	WINDSHIELD



IXP = 3 IYP = 31 ZONE = 1  
 WEIGHT = 3053. FORCE = 41070.  
 CRUSH ENERGY= 288431. MASS FACTOR = 0.96  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 41 SEX = 2 HEIGHT= 62 WEIGHT= 146

NCSS CASE NO. 270105045 9 PM WED 5 JAN 1977  
 71 PASS CAR SUB-COMP/USA CHEVY/CANADA 12118  
 3 CDC EXTENT TO FRONT SIDE FROM 2 OCLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A UNLISTED TYPE CRASH WITH COMPACT CAR  
 L= 68 C1= 25 C2= 27 C3= 25 C4= 22 C5= 19 C6= 17 D= -9 ICOD= 2  
 LATERAL DELTA-V= 40 LONGITUDINAL DELTA-V= 23 DELTA-V = 46

BODY REGION	HEAD-SKULL	ABDOMEN	KNEE
DIRECTION	WHOLE REGION	RIGHT	BILATERAL
TYPE INJURY	CONCUSSION	PAIN	CONTUSION
BODY ELEMENT	BRAIN	MUSCLES	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN

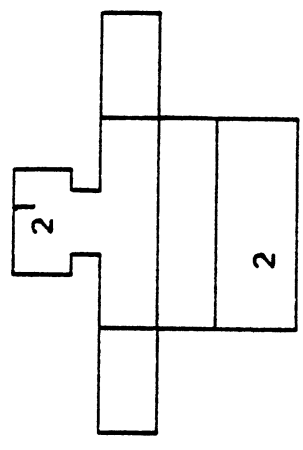
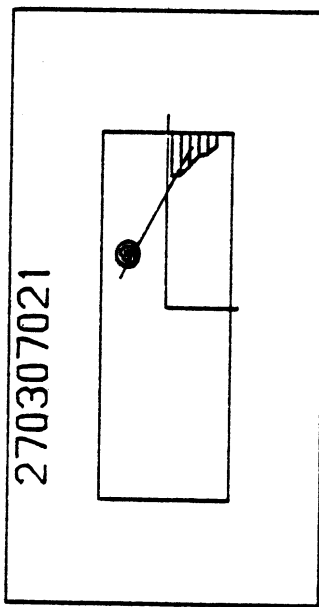


IXP = 6 IYP = 32 ZONE = 1  
 WEIGHT = 3053. FORCE = 233371.  
 CRUSH ENERGY= 5731680. MASS FACTOR = 0.39  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 32 SEX = 2 HEIGHT= 99 WEIGHT= 999



NCSS CASE NO. 270307021 6 PM MON 7 MAR 1977  
 74 PASS CAR SUB-COMP/IMPORT MERCURY 88109  
 3 CDC EXTENT TO FRONT SIDE FROM 1 OCLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH FULL-SIZE CAR  
 L= 23 C1= 21 C2= 20 C3= 16 C4= 11 C5= 10 C6= 6 D= 14 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

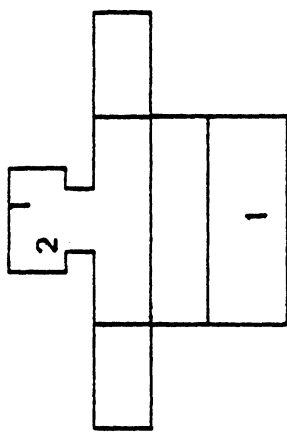
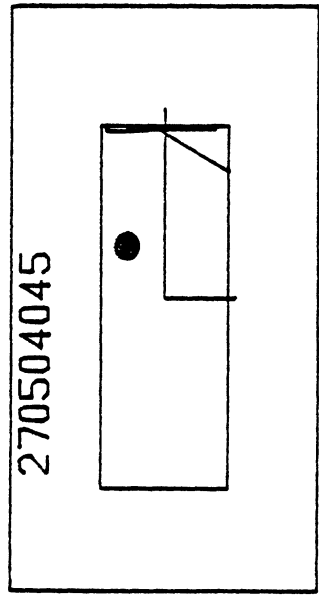
BODY REGION	ANKLE-FOOT	HEAD-SKULL	FACE
DIRECTION	LEFT	WHOLE REGION	SUPERIOR/UPPER
TYPE INJURY	OTHER	CONCUSSION	CONTOUSION
BODY ELEMENT	MUSCLES	BRAIN	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 4 IYP = 67 ZONE = 2  
 WEIGHT = 3053. FORCE = 29148.  
 CRUSH ENERGY= 284072. MASS FACTOR = 0.80  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 23 SEX = 2 HEIGHT= 65 WEIGHT= 115

NCSS CASE NO. 270504045 NOON WED 4 MAY 1977  
 74 PASS CAR SUB-COMP/USA CHEVY/CANADA 14118  
 1 CDC EXTENT TO FRONT SIDE FROM 100CLOCK WEIGHTING F= 4  
 OAIRS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE  
 A V/V ANG SIDE TYPE CRASH WITH LUXURY CAR  
 L= 57 C1= 3 C2= 3 C3= 2 C4= 2 C5= 2 C6= 2 D= -2 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

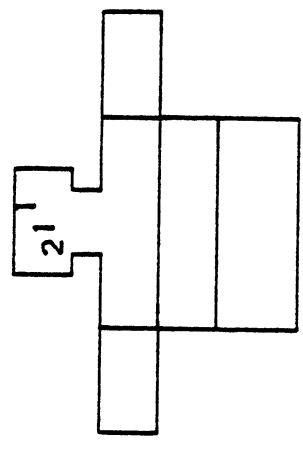
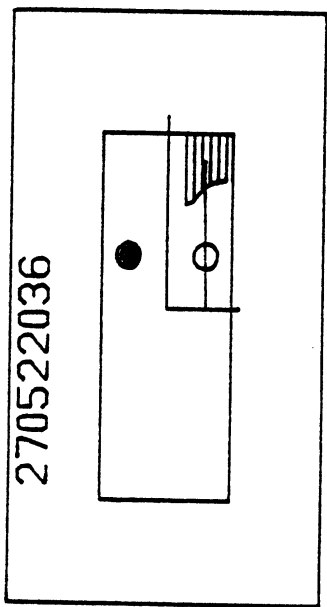
BODY REGION	HEAD-SKULL	PELVIC-HIP	FACE
DIRECTION	WHOLE REGION	LEFT	SUPERIOR/UPPER
TYPE INJURY	CONCUSSION	PAIN	CONTUSION
BODY ELEMENT	BRAIN	MUSCLES	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 0 IYP = 43 ZONE = 2  
 WEIGHT = 3053. FORCE = 29459.  
 CRUSH ENERGY = 108482. MASS FACTOR = 0.38  
 OCCUPANT OAIRS 2 SEATING POSITION 11  
 AGE = 25 SEX = 2 HEIGHT = 66 WEIGHT = 145

NCCS CASE NO. 270522036 NOON SUN 22 MAY 1977  
 74 PASS CAR SUB-COMP/IMPORT MERCURY 61809  
 5 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 OASIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH INTERMEDIATE CAR  
 L= 21 C1= 34 C2= 32 C3= 27 C4= 24 C5= 23 C6= 22 D= 20 ICOD= 2  
 LATERAL DELTA-V= 11 LONGITUDINAL DELTA-V= 19 DELTA-V = 22

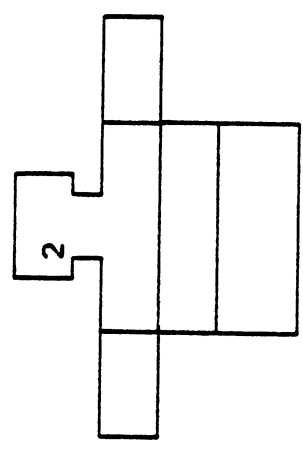
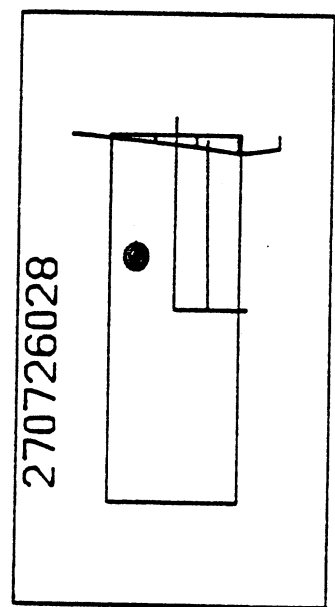
BODY REGION	FACE	HEAD-SKULL	HEAD-SKULL
DIRECTION	CENTRAL	WHOLE REGION	POSTERIOR/BACK
TYPE INJURY	CONTUSION	CONCUSSION	CONTUSION
BODY ELEMENT	RESPIRATORY	BRAIN	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 7 IYP = 78 ZONE = 3  
 WEIGHT = 3053. FORCE = 42013.  
 CRUSH ENERGY= 602976. MASS FACTOR = 0.88  
 OCCUPANT OASIS 2 SEATING POSITION 11  
 AGE = 16 SEX = 1 HEIGHT= 68 WEIGHT= 125

NCSS CASE NO. 270726028 2 AM TUE 26 JUL 1977  
 77 PASS CAR SUB-COMP/USA CHEVY/CANADA 12118  
 7 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH COMPACT CAR  
 L= 107 C1= 0 C2= 2 C3= 4 C4= 6 C5= 9 C6= 6 D= 0 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

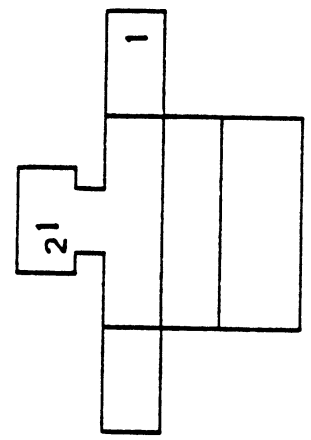
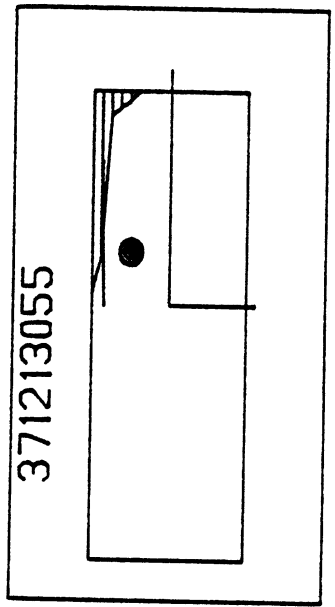
BODY REGION	HEAD-SKULL	UNKNOWN	UNKNOWN
DIRECTION	WHOLE REGION	UNKNOWN	UNKNOWN
TYPE INJURY	CONCUSSION	OTHER	UNKNOWN
BODY ELEMENT	BRAIN	MISSING	OTHER
INJURY LEVEL	MODERATE AIS2	INJURED/UNK SEV	MISSING
OBJECT CONTACTED	UNKNOWN	UNKNOWN	INJURED/UNK SEV



IXP = 1 IYP = 73 ZONE = 3  
 WEIGHT = 3053. FORCE = 46675.  
 CRUSH ENERGY= 169641. MASS FACTOR = 0.91  
 OCCUPANT ORIS 2 SEATING POSITION 11  
 AGE = 24 SEX = 1 HEIGHT= 70 WEIGHT= 160

NCSS CASE NO. 371213055 3 PM TUE 13 DEC 1977  
 75 PASS CAR FULL SIZE BUICK 13102  
 9 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH FULL-SIZE CAR  
 L= 24 C1= 97 C2= 79 C3= 12 C4= 8 C5= 5 C6= 0 D=28 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

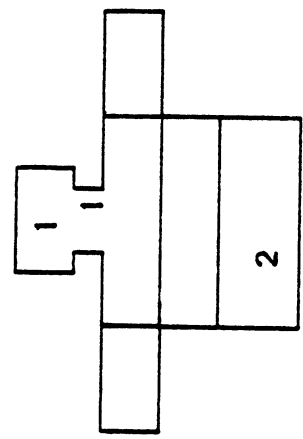
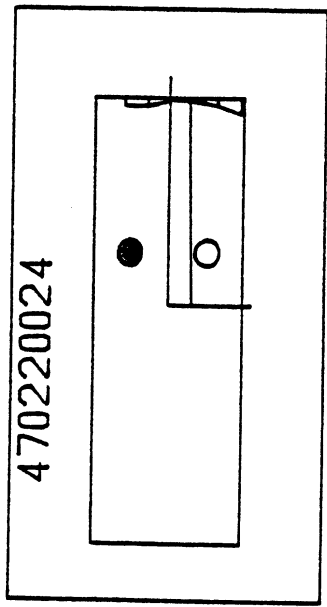
BODY REGION	FACE	HEAD-SKULL	SHOULDER
DIRECTION	SUPERIOR/UPPER	LEFT	LEFT
TYPE INJURY	LACERATION	LACERATION	CONTUSION
BODY ELEMENT	INTEGUMENTARY	EYES,EARS	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	WINDSHIELD	A-PILLAR	SIDE INTERIOR



IXP = 15 IYP = 6 ZONE = 1  
 WEIGHT = 4865. FORCE = 34383.  
 CRUSH ENERGY= 1173787. MASS FACTOR = 0.78  
 OCCUPANT ORAIS 2 SEATING POSITION 11  
 AGE = 50 SEX = 2 HEIGHT= 64 WEIGHT= 185

NCSS CASE NO. 470220024 1 AM SUN 20 FEB 1977  
 73 PASS CAR INTERMEDIATE UNKNOWN 11101  
 1 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 4  
 A V/V HEAD ON TYPE CRASH WITH COMPACT CAR  
 L= 60 C1= 4 C2= 4 C3= 1 C4= 2 C5= 4 C6= 8 D= 7 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 9 DELTA-V = 9

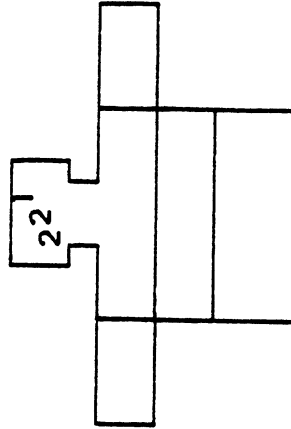
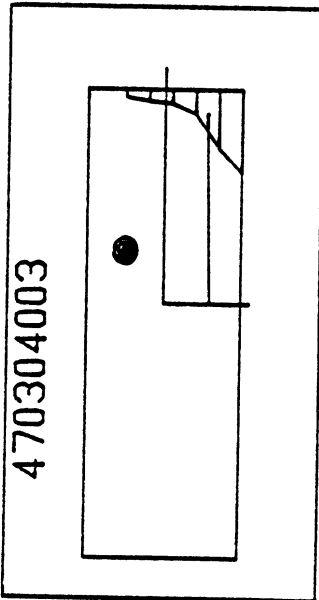
BODY REGION	KNEE	HEAD-SKULL	NECK
DIRECTION	RIGHT	SUPERIOR/UPPER	POSTERIOR/BACK
TYPE INJURY	FRACTURE	CONTUSION	PAIN
BODY ELEMENT	JOINTS	INTEGUMENTARY	MUSCLES
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 0 IYP = 63 ZONE = 2  
 WEIGHT = 4247. FORCE = 24202.  
 CRUSH ENERGY= 102067. MASS FACTOR = 0.96  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 32 SEX = 1 HEIGHT= 70 WEIGHT= 156

NCSS CASE NO. 470304003 11PM FRI 4 MAR 1977  
 70 PASS CAR FULL SIZE BUICK 11502  
 3 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 OASIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 4  
 A UNLISTED TYPE CRASH WITH COMPACT CAR  
 L= 60 C1= 4 C2= 6 C3= 7 C4= 12 C5= 28 C6= 40 D= 10 ICOD= 2  
 LATERAL DELTA-V= 7 LONGITUDINAL DELTA-V= 12 DELTA-V = 13

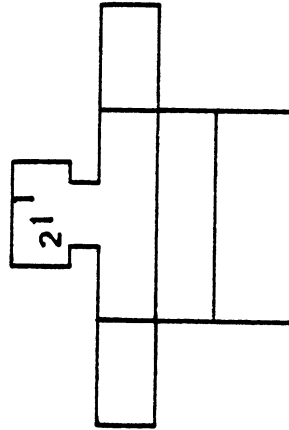
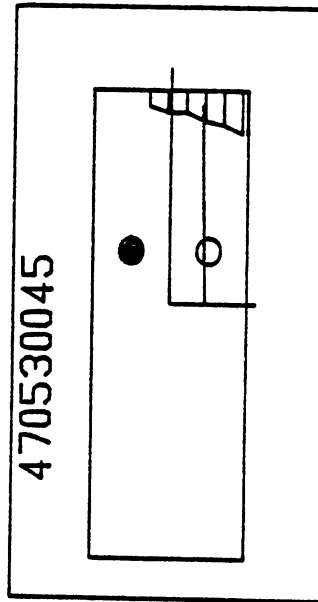
BODY REGION	FACE	HEAD-SKULL	FACE
DIRECTION	INFERIOR/LOWER	WHOLE REGION	LEFT
TYPE INJURY	FRACTURE	CONCUSSION	ABRASION
BODY ELEMENT	SKELETAL	BRAIN	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AISI
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 5 IYP = 77 ZONE = 3  
 WEIGHT = 4865. FORCE = 51651.  
 CRUSH ENERGY= 740843. MASS FACTOR = 0.88  
 OCCUPANT OASIS 2 SEATING POSITION 11  
 AGE = 21 SEX = 1 HEIGHT= 69 WEIGHT= 165

NCSS CASE NO. 470530045 5 PM MON 30 MAY 1977  
 72 PASS CAR FULL SIZE BUICK 11102  
 2 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORIS- 2 RESTRAINT- NOT USED EJECT/TRAP- NONE WEIGHTING F- 1  
 A V/V SIDE TYPE CRASH WITH SUB-COMPACT CAR  
 L- 48 C1- 8 C2- 11 C3- 11 C4- 15 C5- 17 C6- 21 D- 13 ICOD- 2  
 LATERAL DELTA-V- 0 LONGITUDINAL DELTA-V- 13 DELTA-V - 13

BODY REGION	HEAD-SKULL	HEAD-SKULL	FACE
DIRECTION	RIGHT	WHOLE REGION	CENTRAL
TYPE INJURY	FRACTURE	CONCUSSION	ABRASION
BODY ELEMENT	SKELETAL	BRAIN	RESPIRATORY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN

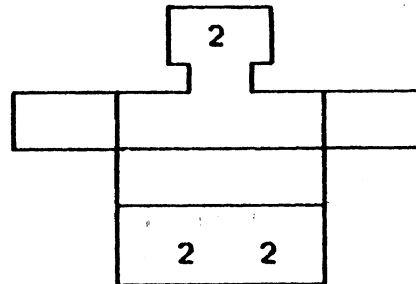
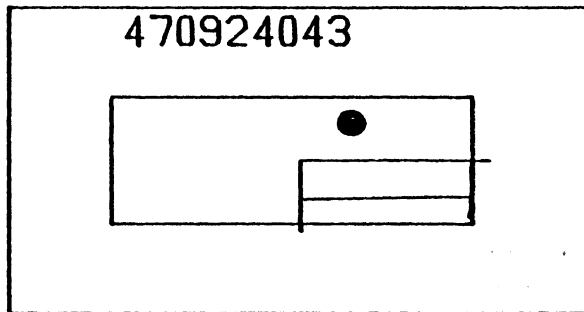


IXP - 3 IYP - 70 ZONE - 3  
 WEIGHT - 4865. FORCE - 39019.  
 CRUSH ENERGY- 440977. MASS FACTOR - 0.92  
 OCCUPANT ORIS 2 SEATING POSITION 11  
 AGE - 45 SEX - 1 HEIGHT- 69 WEIGHT- 185



NCSS CASE NO. 470924043 11PM SAT 24 SEP 1977  
 73 PASS CAR SUB-COMP/USA CHEVY/CANADA 11318  
 2 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH COMPACT CAR  
 L= 30 C1= 0 C2= 1 C3= 0 C4= 1 C5= 1 C6= 2 D= 15 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 20 DELTA-V = 20

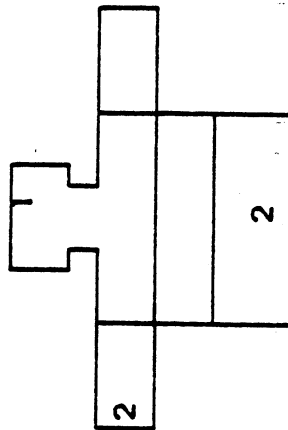
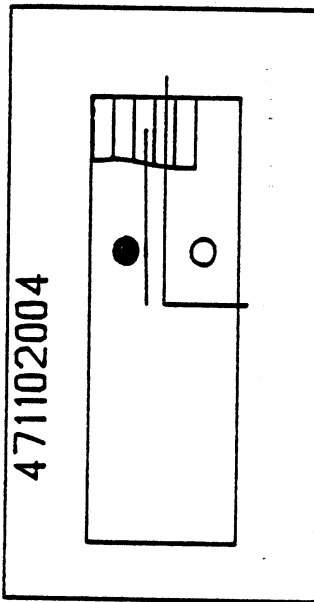
BODY REGION	ANKLE-FOOT	HEAD-SKULL	ANKLE-FOOT
DIRECTION	RIGHT	WHOLE REGION	LEFT
TYPE INJURY	DISLOCATION	CONCUSSION	FRACTURE
BODY ELEMENT	JOINTS	BRAIN	SKELETAL
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MODERATE AIS2
OBJECT CONTACTED	FOOT CONTROLS	WINDSHIELD	FOOT CONTROLS



IXP = 0 IYP = 78 ZONE = 3  
 WEIGHT = 3053. FORCE = 4553.  
 CRUSH ENERGY= 5101. MASS FACTOR = 0.87  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 25 SEX = 1 HEIGHT= 69 WEIGHT= 185

NCSS CASE NO. 471102004 MIDN MED 2 NOV 1977  
 75 PASS CAR SPECIALTY/INTERM GMC TRUCK 11507  
 3 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH SUB-COMPACT CAR  
 L= 53 C1= 31 C2= 30 C3= 31 C4= 33 C5= 34 C6= 34 D=-11 ICOD= 2  
 LATERAL DELTA-V= 7 LONGITUDINAL DELTA-V= 27 DELTA-V = 28

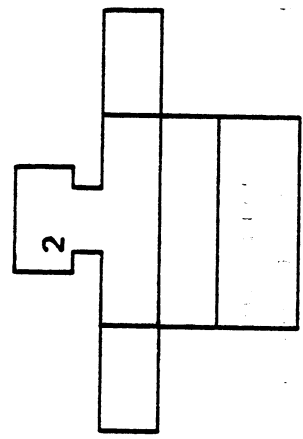
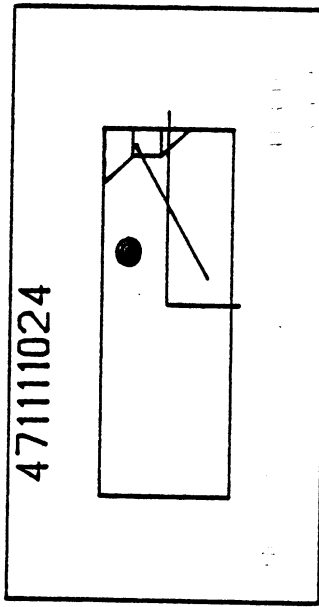
BODY REGION	WRIST-HAND	KNEE	HEAD-SKULL
DIRECTION	RIGHT	RIGHT	SUPERIOR/UPPER
TYPE INJURY	FRACTURE	LACERATION	LACERATION
BODY ELEMENT	JOINTS	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	STEERING ASSEMBL	INSTRUMENT PANEL	WINDSHIELD



IXP = 7 IYP = 36 ZONE = 2  
 WEIGHT = 4247. FORCE = 97281.  
 CRUSH ENERGY= 1792142. MASS FACTOR = 0.98  
 OCCUPANT ORIS 2 SEATING POSITION 11  
 AGE = 24 SEX = 1 HEIGHT= 68 WEIGHT= 140

NCSS CASE NO. 47111024 2 PM FRI 11 NOV 1977  
 71 PASS CAR SUB-COMP/USA CHEVY/CANADA 12118  
 3 CDC EXTENT TO FRONT SIDE FROM 110CLOCK  
 ORIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 4  
 A V/V SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 44 C1= 26 C2= 13 C3= 13 C4= 0 C5= 0 C6= 0 D=11 ICOD= 1  
 LATERAL DELTA-V= 4 LONGITUDINAL DELTA-V= 16 DELTA-V = 16

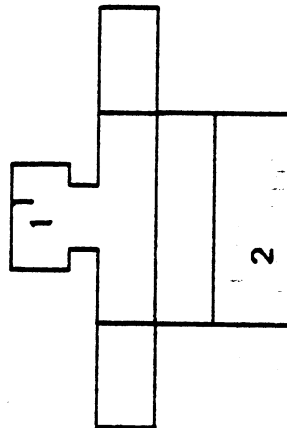
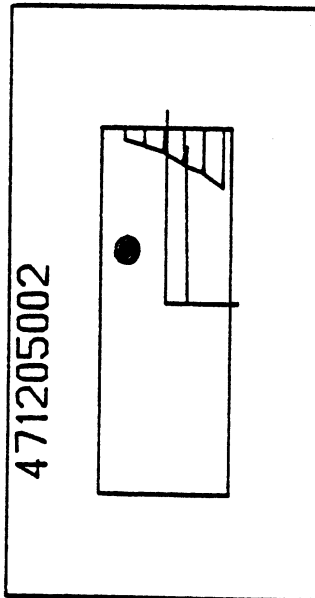
BODY REGION	HEAD-SKULL	WHOLE BODY	UNKNOWN
DIRECTION	SUPERIOR/UPPER	WHOLE REGION	UNKNOWN
TYPE INJURY	LACERATION	PAIN	OTHER
BODY ELEMENT	INTEGUMENTARY	MUSCLES	MISSING
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	INJURED/UNK SEV
OBJECT CONTACTED	UNKNOWN	UNKNOWN	MISSING



IXP = 4 IYP = 25 ZONE = 1  
 WEIGHT = 3053. FORCE = 51787.  
 CRUSH ENERGY= 506913. MASS FACTOR = 0.83  
 OCCUPANT ORIS 2 SEATING POSITION 11  
 AGE = 19 SEX = 2 HEIGHT= 63 WEIGHT= 100

NCSS CASE NO. 471205002 2 PM MON 5 DEC 1977  
 73 WAGON SUB-COMP/USA CHEVY/CANADA 12118  
 3 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH FULL-SIZE CAR  
 L= 51 C1= 6 C2= 9 C3= 12 C4= 18 C5= 22 C6= 29 D= 4 ICOD= 2  
 LATERAL DELTA-V= 6 LONGITUDINAL DELTA-V= 21 DELTA-V = 22

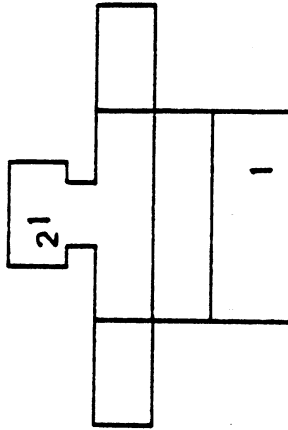
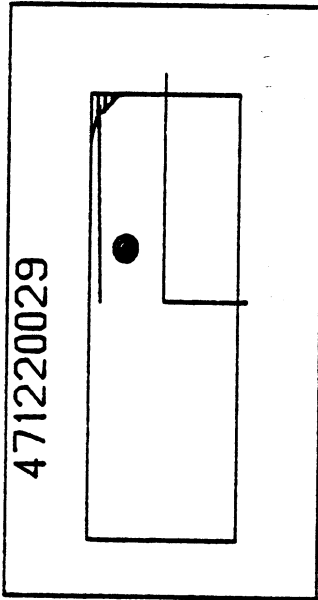
BODY REGION	KNEE	HEAD-SKULL	FACE
DIRECTION	BILATERAL	WHOLE REGION	INFERIOR/LOWER
TYPE INJURY	LACERATION	CONCUSSION	LACERATION
BODY ELEMENT	INTEGUMENTARY	BRAIN	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	STEERING ASSEMBL	WINDSHIELD	STEERING ASSEMBL



IXP = 5 IYP = 65 ZONE = 2  
 WEIGHT = 3053. FORCE = 61777.  
 CRUSH ENERGY= 605669. MASS FACTOR = 0.96  
 OCCUPANT ORIS 2 SEATING POSITION 11  
 AGE = 16 SEX = 2 HEIGHT= 63 WEIGHT= 115

NCSS CASE NO. 471220029 8 PM TUE 20 DEC 1977  
 70 PASS CAR INTERMEDIATE UNKNOWN 11501  
 2 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 OASIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH FULL-SIZE CAR  
 L= 11 C1= 23 C2= 10 C3= 8 C4= 4 C5= 0 C6= 0 D=33 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 12 DELTA-V = 12

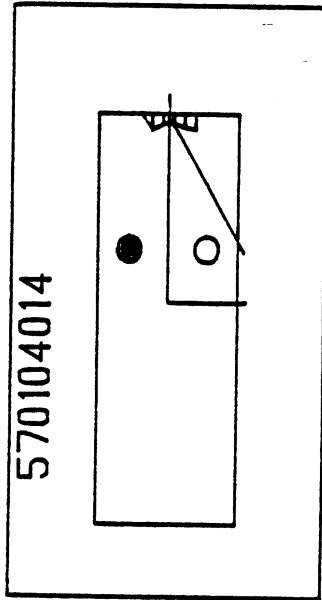
BODY REGION	HEAD-SKULL	FACE	BACK
DIRECTION	WHOLE REGION	SUPERIOR/UPPER	UNKNOWN
TYPE INJURY	CONCUSSION	LACERATION	PAIN
BODY ELEMENT	BRAIN	INTEGUMENTARY	MUSCLES
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	STEERING ASSEMBL	STEERING ASSEMBL	UNKNOWN



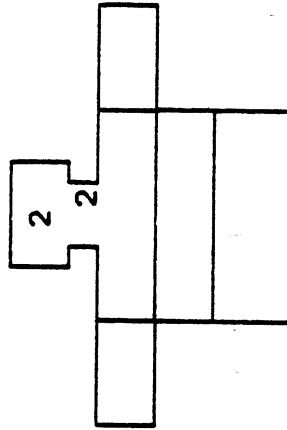
IXP = 3 IYP = 5 ZONE = 1  
 WEIGHT = 4247. FORCE = 8334.  
 CRUSH ENERGY= 70063. MASS FACTOR = 0.78  
 OCCUPANT OASIS 2 SEATING POSITION 11  
 AGE = 52 SEX = 2 HEIGHT= 66 WEIGHT= 125

NCCS CASE NO. 570104014 9 PM TUE 4 JAN 1977  
 76 PASS CAR COMPACT FORD 12108  
 1 CDC EXTENT TO FRONT SIDE FROM 110CLOCK  
 ORIS= 2 RESTRAINT= UNKNOWN EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 28 C1= 0 C2= 8 C3= 5 C4= 5 C5= 7 C6= 8 D= 0 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

BODY REGION	ABDOMEN	HEAD-SKULL	NECK
DIRECTION	RIGHT	SUPERIOR/UPPER	ANTERIOR/FRONT
TYPE INJURY	OTHER	CONTUSION	CONTUSION
BODY ELEMENT	LIVER	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	INJURED/UNK SEV	MODERATE AIS2	MODERATE AIS2
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



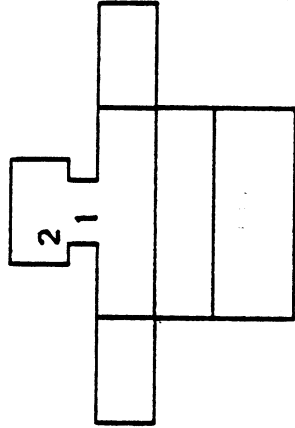
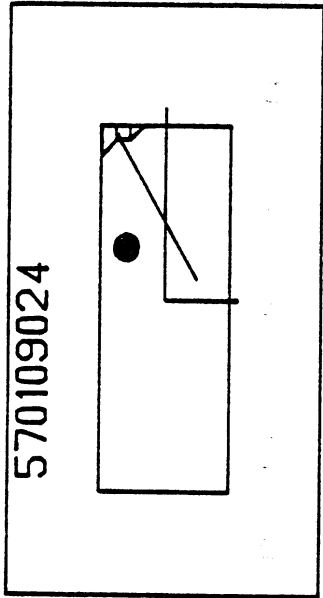
570104014



IXP = 1 IYP = 51 ZONE = 2  
 WEIGHT = 3547. FORCE = 18035.  
 CRUSH ENERGY= 87126. MASS FACTOR = 0.61  
 OCCUPANT ORIS 2 SEATING POSITION 11  
 AGE = 60 SEX = 2 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 570109024 7 PM SUN 9 JAN 1977  
 76 PASS CAR SUB-COMP/USA CHEVY/CANADA 11318  
 2 CDC EXTENT TO FRONT SIDE FROM 110CLOCK WEIGHTING F- 1  
 ORIS- 2 RESTRAINT- UNKNOWN EJECT/TRAP- NONE  
 A V/V HEAD ON TYPE CRASH WITH COMPACT CAR  
 L- 22 C1- 15 C2- 7 C3- 7 C4- 0 C5- 0 C6- 0 D--22 ICOD- 1  
 LATERAL DELTA-V- 11 LONGITUDINAL DELTA-V- 18 DELTA-V - 21

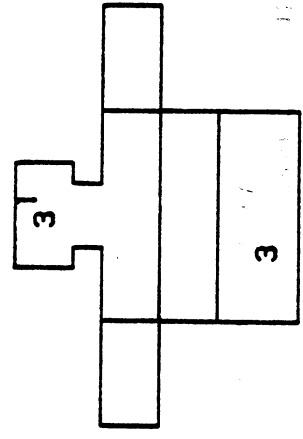
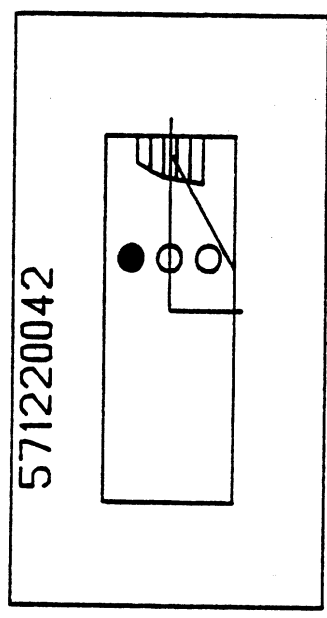
BODY REGION	HEAD-SKULL	NECK	UNKNOWN
DIRECTION	WHOLE REGION	POSTERIOR/BACK	UNKNOWN
TYPE INJURY	CONCUSSION	OTHER	OTHER
BODY ELEMENT	BRAIN	MUSCLES	MISSING
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	INJURED/UNK SEV
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP - 2 IYP - 12 ZONE - 1  
 WEIGHT - 3053. FORCE - 15356.  
 CRUSH ENERGY- 88434. MASS FACTOR - 0.89  
 OCCUPANT ORIS 2 SEATING POSITION 11  
 AGE - 19 SEX - 2 HEIGHT- 64 WEIGHT- 103

NCSS CASE NO. 571220042 9 PM TUE 20 DEC 1977  
 77 PASS CAR FOREIGN SPORTS PONTIAC/CANADA 66219  
 3 CDC EXTENT TO FRONT SIDE FROM 110CLOCK  
 OAIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH COMPACT CAR  
 L= 34 C1= 13 C2= 17 C3= 20 C4= 21 C5= 22 C6= 23 D= 0 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

BODY REGION	PELVIC-HIP	HEAD-SKULL	FACE
DIRECTION	RIGHT	WHOLE REGION	INFERIOR/LOWER
TYPE INJURY	DISLOCATION	CONCUSSION	LACERATION
BODY ELEMENT	JOINTS	BRAIN	INTEGUMENTARY
INJURY LEVEL	SEVERE AIS3	SEVERE AIS3	MINOR AIS1
OBJECT CONTACTED	STEERING ASSEMBL	WINDSHIELD	WINDSHIELD

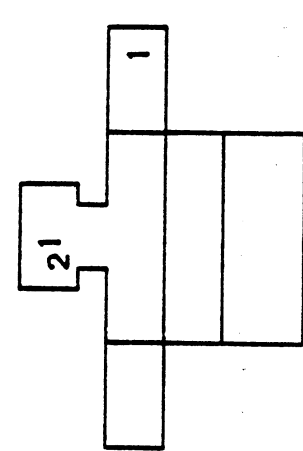
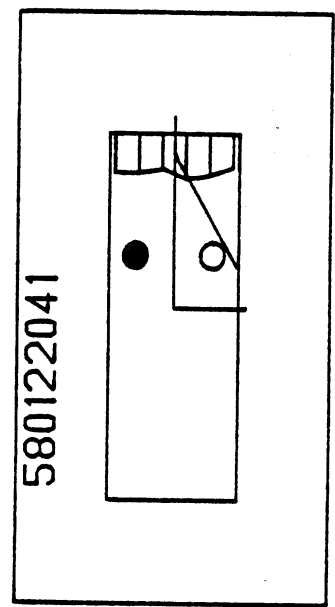


IXP = 5 IYP = 51 ZONE = 2  
 WEIGHT = 3053. FORCE = 58443.  
 CRUSH ENERGY= 718448. MASS FACTOR = 0.66  
 OCCUPANT OAIS 3 SEATING POSITION 11  
 AGE = 39 SEX = 1 HEIGHT= 68 WEIGHT= 155



NCSS CASE NO. 580122041 10PM SUN 22 JAN 1978  
 72 PASS CAR SUB-COMP/IMPORT MERCURY 66109  
 2 CDC EXTENT TO FRONT SIDE FROM 110CLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 4  
 A V/V SIDE TYPE CRASH WITH COMPACT CAR  
 L= 61 C1= 19 C2= 19 C3= 17 C4= 22 C5= 20 C6= 16 D= 0 ICOD= 2  
 LATERAL DELTA-V= 9 LONGITUDINAL DELTA-V= 16 DELTA-V = 19

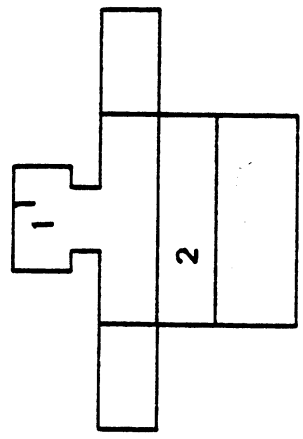
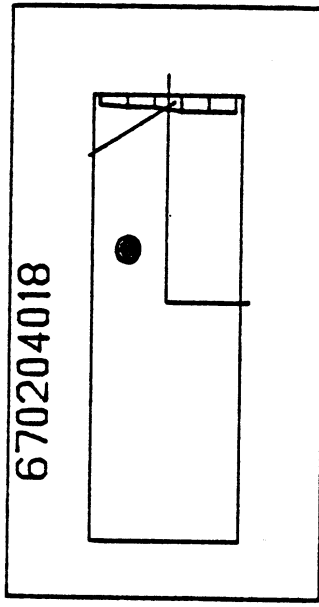
BODY REGION	HEAD-SKULL	HEAD-SKULL	ELBOW
DIRECTION	LEFT	UNKNOWN	LEFT
TYPE INJURY	LACERATION	CONTUSION	CONTUSION
BODY ELEMENT	INTEGUMENTARY	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	WINDSHIELD	WINDSHIELD	INSTRUMENT PANEL



IXP = 5 IYP = 50 ZONE = 2  
 WEIGHT = 3053. FORCE = 102349.  
 CRUSH ENERGY= 1213408. MASS FACTOR = 0.67  
 OCCUPANT ORAIS 2 SEATING POSITION 11  
 AGE = 38 SEX = 2 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 670204018 3 PM FRI 4 FEB 1977  
 76 PASS CAR INTERMEDIATE UNKNOWN 11401  
 1 CDC EXTENT TO FRONT SIDE FROM 2 OCLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A UNLISTED TYPE CRASH WITH FULL-SIZE CAR  
 L= 70 C1= 5 C2= 6 C3= 6 C4= 8 C5= 8 C6= 8 D= 0 ICOD= 2  
 LATERAL DELTA-V= 12 LONGITUDINAL DELTA-V= 12 DELTA-V = 17

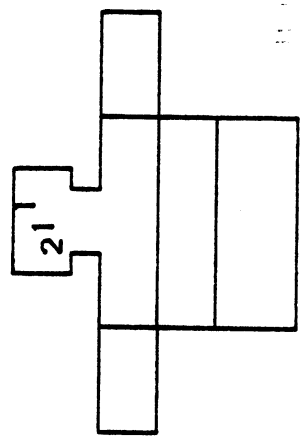
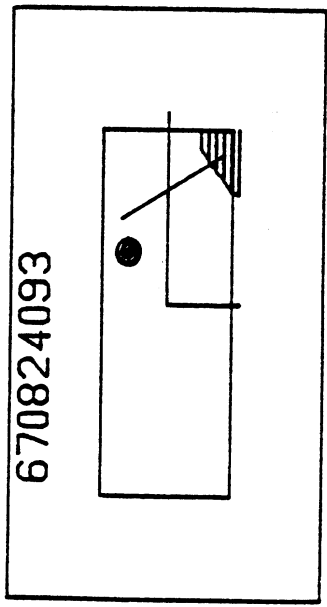
BODY REGION	ABDOMEN	HEAD-SKULL	FACE
DIRECTION	UNKNOWN	RIGHT	SUPERIOR/UPPER
TYPE INJURY	CONTUSION	LACERATION	LACERATION
BODY ELEMENT	INTEGUMENTARY	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	STEERING ASSEMBL	A-PILLAR	WINDSHIELD



IXP = 1 IYP = 53 ZONE = 2  
 WEIGHT = 4247. FORCE = 80911.  
 CRUSH ENERGY= 944936. MASS FACTOR = 0.36  
 OCCUPANT ORAIS 2 SEATING POSITION 11  
 AGE = 64 SEX = 1 HEIGHT= 68 WEIGHT= 195

NCCS CASE NO. 670824093 4 PM WED 24 AUG 1977  
 74 WAGON SUB-COMP/USA CHEVY/CANADA 12118  
 2 CDC EXTENT TO FRONT SIDE FROM 2 OCLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE  
 A UNLISTED TYPE CRASH WITH COMPACT CAR  
 L= 20 C1= 9 C2= 15 C3= 20 C4= 24 C5= 30 C6= 31 D= 27 ICOD= 2  
 LATERAL DELTA-V= 21 LONGITUDINAL DELTA-V= 12 DELTA-V = 25  
 WEIGHTING F= 1

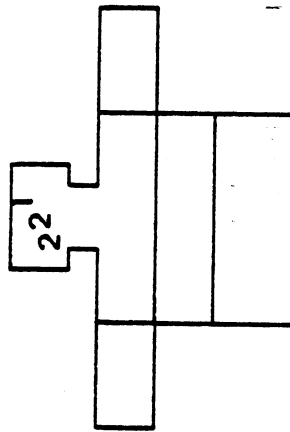
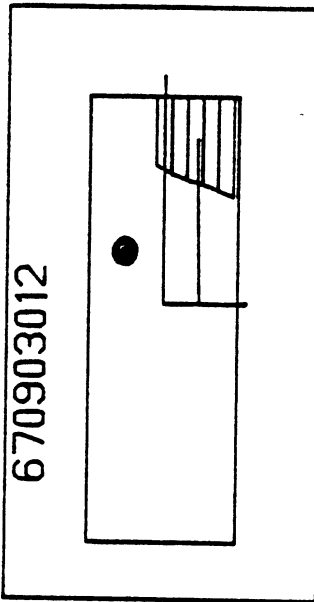
BODY REGION	HEAD-SKULL	FACE	FACE
DIRECTION	RIGHT	RIGHT	SUPERIOR/UPPER
TYPE INJURY	LACERATION	LACERATION	LACERATION
BODY ELEMENT	INTEGUMENTARY	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	MIRRORS	UNKNOWN	UNKNOWN



IXP = 6 IYP = 92 ZONE = 3  
 WEIGHT = 3053. FORCE = 65795.  
 CRUSH ENERGY= 1650903. MASS FACTOR = 0.57  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 61 SEX = 1 HEIGHT= 72 WEIGHT= 190

NCSS CASE NO. 670903012 5 AM SAT 3 SEP 1977  
 71 WAGON INTERMEDIATE UNKNOWN 12101  
 4 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 ORIS= 2 RESTRAINT= NOT USED EJECT/TRAP= UNKNOWN WEIGHTING F= 1  
 A V/V REAR TYPE CRASH WITH FULL-SIZE CAR  
 L= 40 C1= 33 C2= 37 C3= 40 C4= 42 C5= 45 C6= 48 D= 16 ICOD= 2  
 LATERAL DELTA-V= 11 LONGITUDINAL DELTA-V= 20 DELTA-V = 23

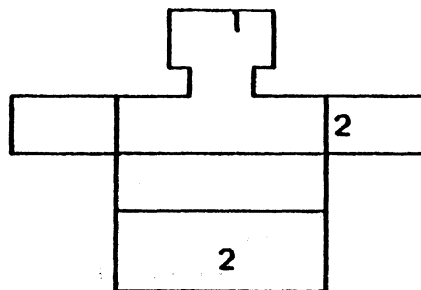
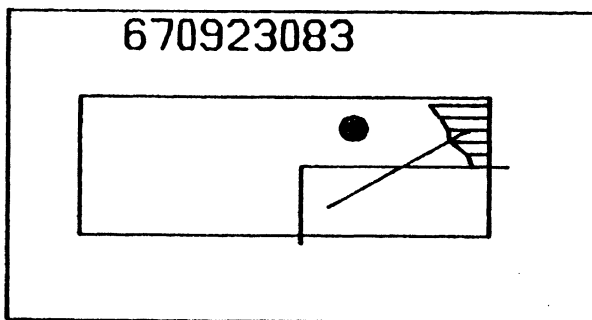
BODY REGION	FACE	HEAD-SKULL	FACE
DIRECTION	CENTRAL	SUPERIOR/UPPER	SUPERIOR/UPPER
TYPE INJURY	FRACTURE	CONCUSSION	LACERATION
BODY ELEMENT	RESPIRATORY	BRAIN	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	WINDSHIELD	SUNVISOR/FITTING	WINDSHIELD



IXP = 9 IYP = 72 ZONE = 3  
 WEIGHT = 4247. FORCE = 90984.  
 CRUSH ENERGY= 2090176. MASS FACTOR = 0.92  
 OCCUPANT ORIS 2 SEATING POSITION 11  
 AGE = 22 SEX = 1 HEIGHT= 75 WEIGHT= 190

NCSS CASE NO. 670923083 7 AM FRI 23 SEP 1977  
 77 PASS CAR COMPACT FORD 14108  
 3 CDC EXTENT TO FRONT SIDE FROM 11OCLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 32 C1= 29 C2= 24 C3= 20 C4= 19 C5= 11 C6= 8 D=-16 ICOD= 2  
 LATERAL DELTA-V= 11 LONGITUDINAL DELTA-V= 14 DELTA-V = 18

BODY REGION	ELBOW	KNEE	HEAD-SKULL
DIRECTION	LEFT	RIGHT	POSTERIOR/BACK
TYPE INJURY	LACERATION	LACERATION	LACERATION
BODY ELEMENT	INTEGUMENTARY	JOINTS	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	STEERING ASSEMBL	INSTRUMENT PANEL	WINDSHIELD



IXP = 5 IYP = 23 ZONE = 1  
 WEIGHT = 3547. FORCE = 53234.  
 CRUSH ENERGY= 690337. MASS FACTOR = 0.84  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 36 SEX = 1 HEIGHT= 75 WEIGHT= 215

NCSS CASE NO. 671017065 4 PM MON 17 OCT 1977

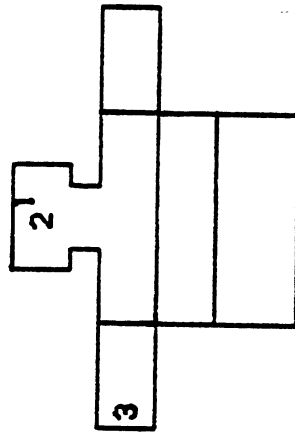
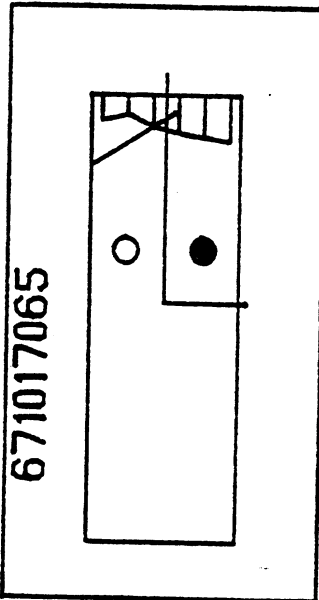
74 PASS CAR INTERMEDIATE UNKNOWN 12101

2 CDC EXTENT TO FRONT SIDE FROM 2 OCLOCK  
ORIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1

A V/V ANG FRONT TYPE CRASH WITH COMPACT CAR

L= 66 C1= 12 C2= 9 C3= 15 C4= 18 C5= 20 C6= 22 D= 0 ICOD= 2  
LATERAL DELTA-V= 18 LONGITUDINAL DELTA-V= 11 DELTA-V = 21

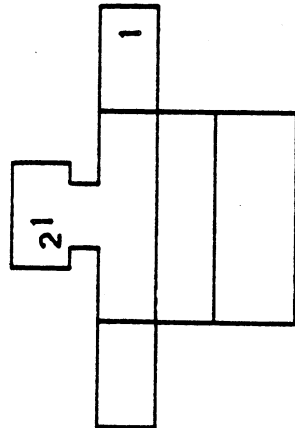
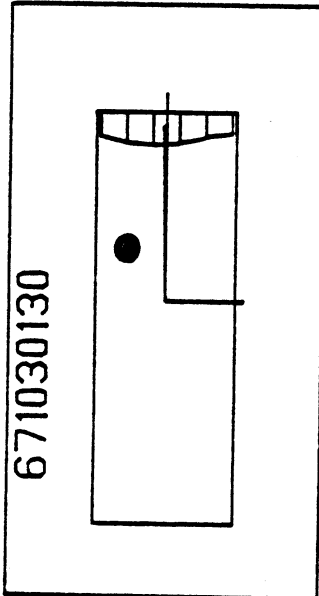
BODY REGION	FOREARM	HEAD-SKULL	FACE
DIRECTION	RIGHT	WHOLE REGION	SUPERIOR/UPPER
TYPE INJURY	FRACTURE	CONCUSSION	CONTOUSION
BODY ELEMEN	SKELETAL	BRAIN	INTEGUMENTARY
INJURY LEVEL	SEVERE AIS3	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	GLOVE COMPARTMEN	WINDSHIELD	WINDSHIELD



IXP = 3 IYP = 56 ZONE = 2  
 WEIGHT = 4247. FORCE = 134902.  
 CRUSH ENERGY= 2875427. MASS FACTOR = 0.40  
 OCCUPANT ORIS 3 SEATING POSITION 13  
 AGE = 86 SEX = 2 HEIGHT= 63 WEIGHT= 120

NCSS CASE NO. 671030130 MIDN SUN 30 OCT 1977  
 73 PASS CAR COMPACT FORD 11308  
 2 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH FULL-SIZE CAR  
 L= 68 C1= 12 C2= 15 C3= 16 C4= 15 C5= 12 C6= 10 D= 0 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 32 DELTA-V = 32

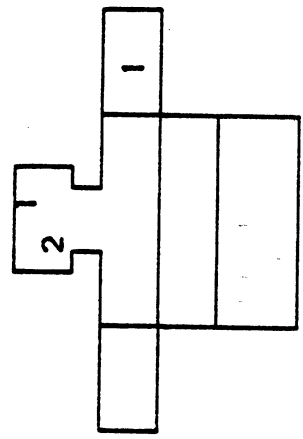
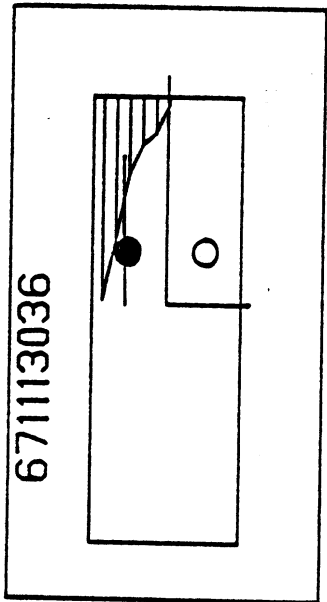
BODY REGION	HEAD-SKULL	FACE	SHOULDER
DIRECTION	SUPERIOR/UPPER	SUPERIOR/UPPER	LEFT
TYPE INJURY	CONCUSSION	ABRASION	PAIN
BODY ELEMENT	BRAIN	INTEGUMENTARY	MUSCLES
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	WINDSHIELD	WINDSHIELD	STEERING ASSEMBL



IXP = 3 IYP = 48 ZONE = 2  
 WEIGHT = 3547. FORCE = 75750.  
 CRUSH ENERGY= 614374. MASS FACTOR = 1.00  
 OCCUPANT ORAIS 2 SEATING POSITION 11  
 AGE = 16 SEX = 1 HEIGHT= 68 WEIGHT= 132

NCSS CASE NO. 671113036 9 PM SUN 13 NOV 1977  
 77 PASS CAR INTERMEDIATE UNKNOWN 11501  
 6 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH COMPACT CAR  
 L= 34 C1= 97 C2= 68 C3= 37 C4= 23 C5= 17 C6= 3 D=16 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

BODY REGION	HEAD-SKULL	FOREARM	HEAD-SKULL
DIRECTION	SUPERIOR/UPPER	LEFT	SUPERIOR/UPPER
TYPE INJURY	CONCUSSION	CONCUSSION	CONCUSSION
BODY ELEMENT	BRAIN	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	SUNVISOR/FITTING	STEERING ASSEMBL	WINDSHIELD

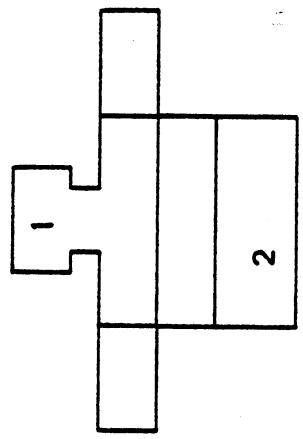
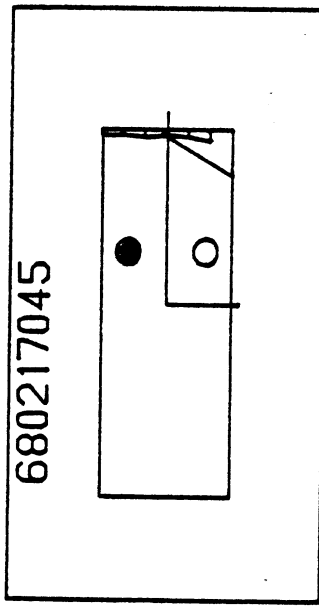


IXP = 13 IYP = 20 ZONE = 1  
 WEIGHT = 4247. FORCE = 74113.  
 CRUSH ENERGY= 2219915. MASS FACTOR = 0.89  
 OCCUPANT ORAIS 2 SEATING POSITION 11  
 AGE = 17 SEX = 1 HEIGHT= 74 WEIGHT= 260



NCSS CASE NO. 680217045 11AM FRI 17 FEB 1978  
 76 PASS CAR SPECIALTY/PONY PONTIAC 12106  
 1 CDC EXTENT TO FRONT SIDE FROM 100CLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 4  
 A V/V ANG SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 56 C1= 3 C2= 3 C3= 4 C4= 3 C5= 4 C6= 6 D= -6 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

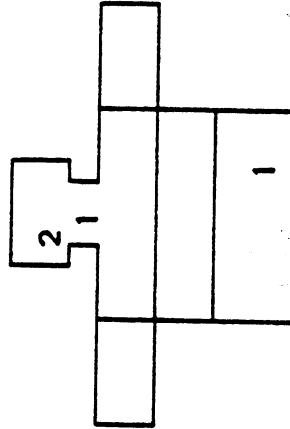
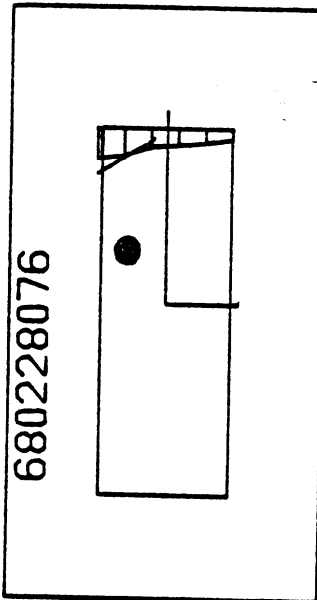
BODY REGION	ANKLE-FOOT	HEAD-SKULL	UNKNOWN
DIRECTION	RIGHT	SUPERIOR/UPPER	UNKNOWN
TYPE INJURY	SPRAIN	CONTUSION	OTHER
BODY ELEMENT	JOINTS	INTEGUMENTARY	MISSING
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	INJURED/UNK SEV
OBJECT CONTACTED	FOOT CONTROLS	SUNVISOR/FITTING	MISSING



IXP = 1 IYP = 44 ZONE = 2  
 WEIGHT = 3053. FORCE = 40090.  
 CRUSH ENERGY= 206395. MASS FACTOR = 0.38  
 OCCUPANT ORAIS 2 SEATING POSITION 11  
 AGE = 43 SEX = 2 HEIGHT= 62 WEIGHT= 131

NCSS CASE NO. 680228076 8 AM TUE 28 FEB 1978  
 76 PASS CAR SPECIALTY/PONY PONTIAC 13206  
 2 CDC EXTENT TO FRONT SIDE FROM 2 OCLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE  
 A V/V ANG FRONT TYPE CRASH WITH FULL-SIZE CAR  
 L= 70 C1= 15 C2= 13 C3= 9 C4= 8 C5= 7 C6= 5 D= -1 ICOD= 2  
 LATERAL DELTA-V= 24 LONGITUDINAL DELTA-V= 14 DELTA-V = 27  
 WEIGHTING F= 1

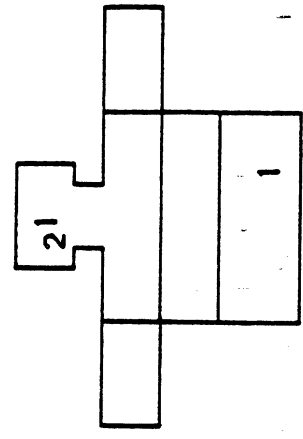
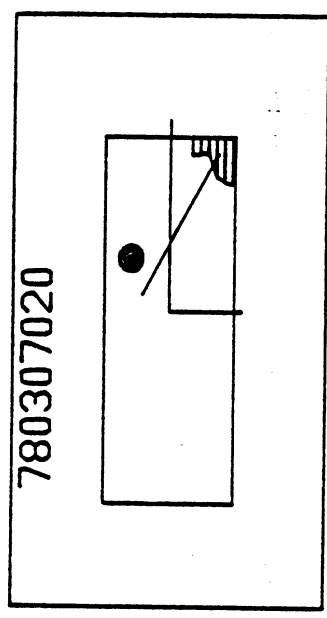
BODY REGION	HEAD-SKULL	NECK	BACK
DIRECTION	SUPERIOR/UPPER	POSTERIOR/BACK	INFERIOR/LOWER
TYPE INJURY	CONCUSSION	PAIN	PAIN
BODY ELEMENT	BRAIN	MUSCLES	MUSCLES
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	SUNVISOR/FITTING	UNKNOWN	UNKNOWN



IXP = 2 IYP = 39 ZONE = 2  
 WEIGHT = 3053. FORCE = 106851.  
 CRUSH ENERGY = 1230165. MASS FACTOR = 0.37  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 43 SEX = 2 HEIGHT = 66 WEIGHT = 160

NCSS CASE NO. 780307020 10PM TUE 7 MAR 1978  
 70 PASS CAR FOREIGN SPORTS PONTIAC/CANADA 86119  
 3 CDC EXTENT TO FRONT SIDE FROM 1 OCLOCK  
 OAIS= 2 RESTRAINT= UNKNOWN EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH COMPACT CAR  
 L= 21 C1= 9 C2= 8 C3= 8 C4= 19 C5= 22 C6= 23 D= 22 ICOD= 2  
 LATERAL DELTA-V= 7 LONGITUDINAL DELTA-V= 12 DELTA-V = 13

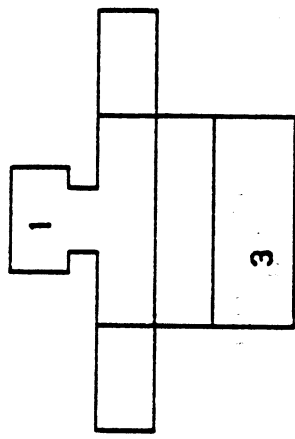
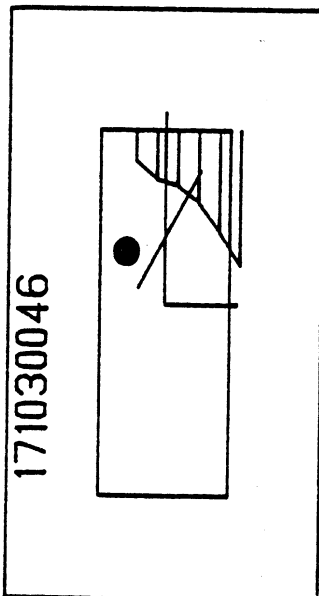
BODY REGION	FACE	HEAD-SKULL	ANKLE-FOOT
DIRECTION	INFERIOR/LOWER	SUPERIOR/UPPER	LEFT
TYPE INJURY	LACERATION	LACERATION	PAIN
BODY ELEMENT	DIGESTIVE	INTEGUMENTARY	MUSCLES
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	STEERING ASSEMBL	WINDSHIELD	FOOT CONTROLS



IXP = 4 IYP = 86 ZONE = 3  
 WEIGHT = 3053. FORCE = 27476.  
 CRUSH ENERGY= 290630. MASS FACTOR = 0.92  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 45 SEX = 1 HEIGHT= 69 WEIGHT= 160

NCSS CASE NO. 171030046 1 AM SUN 30 OCT 1977  
 74 PASS CAR SUB-COMP/USA CHEVY/CANADA 12118  
 6 CDC EXTENT TO FRONT SIDE FROM 1 OCLOCK  
 ORAIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH INTERMEDIATE CAR  
 L= 54 C1= 15 C2= 24 C3= 27 C4= 35 C5= 49 C6= 65 D= 12 ICOD= 2  
 LATERAL DELTA-V= 24 LONGITUDINAL DELTA-V= 42 DELTA-V = 48

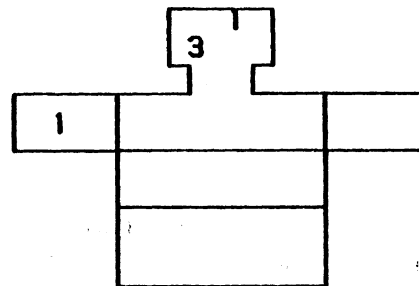
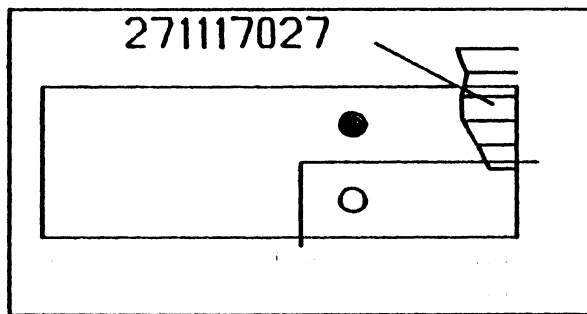
BODY REGION	PELVIC-HIP	HEAD-SKULL	UNKNOWN
DIRECTION	RIGHT	LEFT	UNKNOWN
TYPE INJURY	DISLOCATION	LACERATION	OTHER
BODY ELEMENT	JOINTS	EYES,EARS	MISSING
INJURY LEVEL	SEVERE AIS3	MINOR AIS1	INJURED/UNK SEV
OBJECT CONTACTED	GLOVE COMPARTMEN	MIRRORS	MISSING



IXP = 11 IYP = 76 ZONE = 3  
 WEIGHT = 3053. FORCE = 161102.  
 CRUSH ENERGY= 3855606. MASS FACTOR = 0.92  
 OCCUPANT ORAIS 3 SEATING POSITION 11  
 AGE = 19 SEX = 1 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 271117027 3 PM THU 17 NOV 1977  
 71 PASS CAR LUXURY/LIMOSINE CADILLAC 11403  
 3 CDC EXTENT TO FRONT SIDE FROM 1 OCLOCK  
 OAIS= 3 RESTRAINT= UNKNOWN EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH LUXURY CAR  
 L= 64 C1= 29 C2= 24 C3= 27 C4= 26 C5= 19 C6= 13 D--28 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

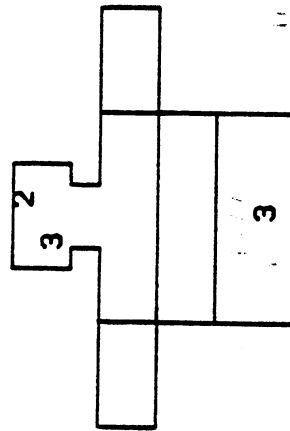
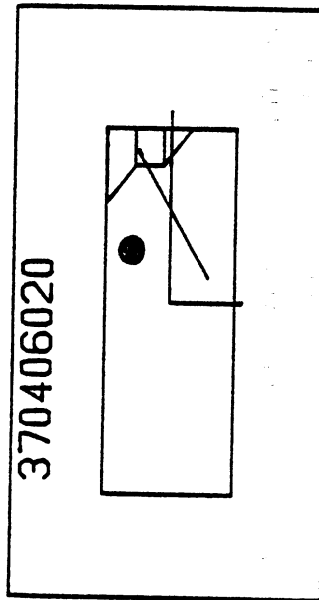
BODY REGION	HEAD-SKULL	WRIST-HAND	FACE
DIRECTION	SUPERIOR/UPPER	RIGHT	SUPERIOR/UPPER
TYPE INJURY	CONCUSSION	CONTUSION	LACERATION
BODY ELEMENT	BRAIN	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	SEVERE AIS3	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	STEERING ASSEMBL	INSTRUMENT PANEL	STEERING ASSEMBL



IXP = 5 IYP = 11 ZONE = 1  
 WEIGHT = 5309. FORCE = 86516.  
 CRUSH ENERGY= 1613228. MASS FACTOR = 0.45  
 OCCUPANT OAIS 3 SEATING POSITION 11  
 AGE = 26 SEX = 2 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 370406020 6 PM WED 6 APL 1977  
 76 PASS CAR SUB-COMP/USA CHEVY/CANADA 12118  
 4 CDC EXTENT TO FRONT SIDE FROM 11OCLOCK  
 OASIS= 3 RESTRAINT= NOT USED EJECT/TRAP= UNK. DEG. EJECT. WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH FULL-SIZE CAR  
 L= 44 C1= 36 C2= 18 C3= 18 C4= 0 C5= 0 C6= 0 D=11 ICOD= 1  
 LATERAL DELTA-V= 17 LONGITUDINAL DELTA-V= 29 DELTA-V = 33

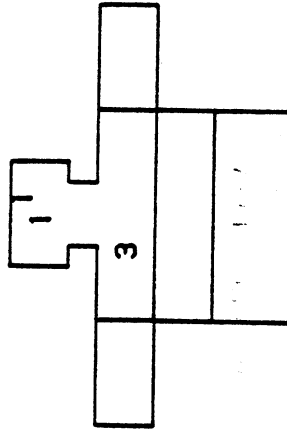
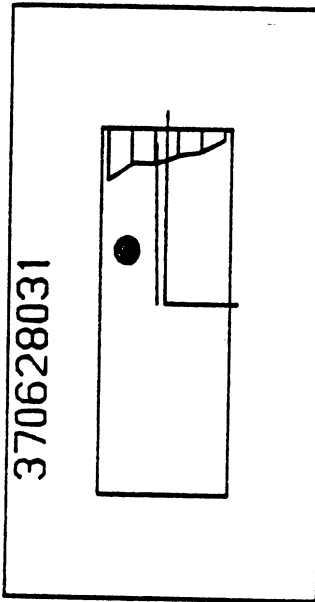
BODY REGION	FACE	LEG	HEAD-SKULL
DIRECTION	SUPERIOR/UPPER	RIGHT	POSTERIOR/BACK
TYPE INJURY	FRACTURE	FRACTURE	FRACTURE
BODY ELEMENT	SKELETAL	SKELETAL	SKELETAL
INJURY LEVEL	SEVERE AIS3	SEVERE AIS3	MODERATE AIS2
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 6 IYP = 25 ZONE = 1  
 WEIGHT = 3053. FORCE = 69851.  
 CRUSH ENERGY= 929888. MASS FACTOR = 0.85  
 OCCUPANT OASIS 3 SEATING POSITION 11  
 AGE = 18 SEX = 2 HEIGHT= 63 WEIGHT= 136

NCSS CASE NO. 370628031 5 PM TUE 28 JUN 1977  
 75 PASS CAR SUB-COMP/USA CHEVY/CANADA 14118  
 3 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORIS= 3 RESTRAINT= NOT USED EJECT/TRAP= TRAPPED WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH FULL-SIZE CAR  
 L= 60 C1= 25 C2= 17 C3= 17 C4= 13 C5= 11 C6= 5 D= 0 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 32 DELTA-V = 32

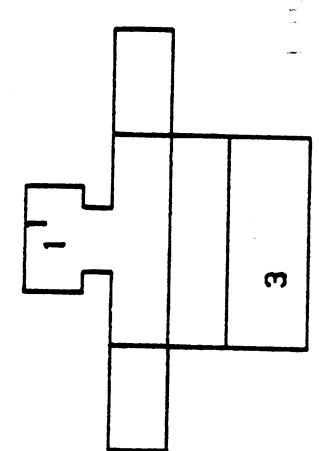
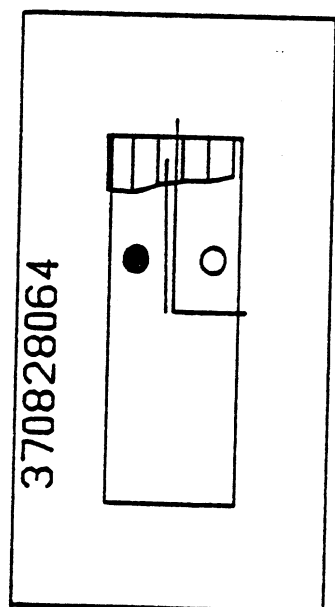
BODY REGION	CHEST	HEAD-SKULL	FACE
DIRECTION	RIGHT	LEFT	SUPERIOR/UPPER
TYPE INJURY	CONTUSION	LACERATION	ABRASION
BODY ELEMENT	PULMONARY	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	SEVERE AIS3	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 4 IYP = 42 ZONE = 2  
 WEIGHT = 3053. FORCE = 67986.  
 CRUSH ENERGY= 587393. MASS FACTOR = 0.99  
 OCCUPANT ORIS 3 SEATING POSITION 11  
 AGE = 31 SEX = 1 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 370828064 2 PM SUN 28 AUG 1977  
 74 PASS CAR SUB-COMP/USA CHEVY/CANADA 11318  
 3 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORIS= 3 RESTRAINT= NOT USED EJECT/TRAP= TRAPPED WEIGHTING F= 1  
 A UNLISTED TYPE CRASH WITH SUB-COMPACT CAR  
 L= 65 C1= 26 C2= 27 C3= 23 C4= 21 C5= 21 C6= 18 D= -3 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

BODY REGION	KNEE	HEAD-SKULL	FACE
DIRECTION	RIGHT	UNKNOWN	SUPERIOR/UPPER
TYPE INJURY	FRACTURE	LACERATION	LACERATION
BODY ELEMENT	JOINTS	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	SEVERE AIS3	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	INSTRUMENT PANEL	WINDSHIELD	WINDSHIELD

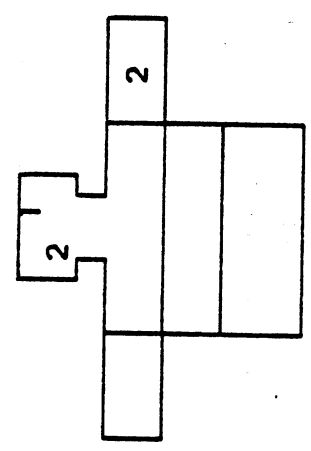
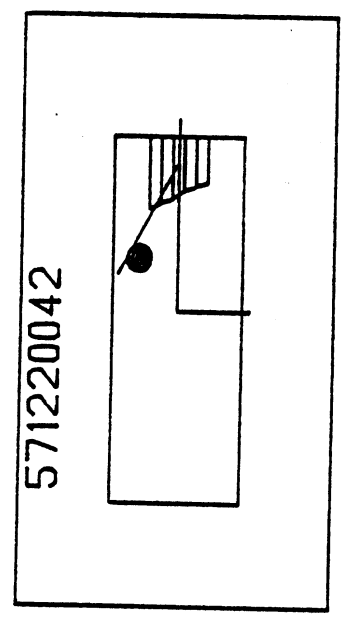


IXP = 6 IYP = 42 ZONE = 2  
 WEIGHT = 3053. FORCE = 111553.  
 CRUSH ENERGY= 1362676. MASS FACTOR = 1.00  
 OCCUPANT ORIS 3 SEATING POSITION 11  
 AGE = 16 SEX = 1 HEIGHT= 71 WEIGHT= 140



NCSS CASE NO. 571220042 9 PM TUE 20 DEC 1977  
 77 PASS CAR SPECIALTY/PONY PONTIAC 11306  
 2 CDC EXTENT TO FRONT SIDE FROM 1 OCLOCK  
 ORIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH SUB-COMPACT CAR  
 L= 30 C1= 35 C2= 32 C3= 30 C4= 26 C5= 24 C6= 22 D= 0 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

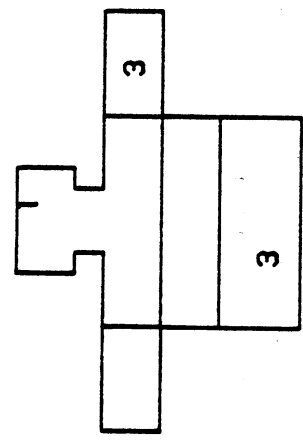
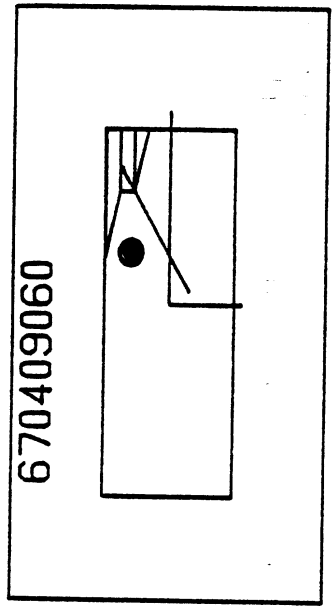
BODY REGION	FACE	WRIST-HAND	HEAD-SKULL
DIRECTION	CENTRAL	LEFT	WHOLE REGION
TYPE INJURY	FRACTURE	FRACTURE	CONCUSSION
BODY ELEMENT	RESPIRATORY	SKELETAL	BRAIN
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	WINDSHIELD	UNKNOWN	WINDSHIELD



IXP = 8 IYP = 48 ZONE = 2  
 WEIGHT = 3053. FORCE = 72505.  
 CRUSH ENERGY= 1253811. MASS FACTOR = 0.70  
 OCCUPANT ORIS 2 SEATING POSITION 11  
 AGE = 22 SEX = 4 HEIGHT= 65 WEIGHT= 115

NCSS CASE NO. 670409060 11PM SAT 9 APL 1977  
 75 PASS CAR SUB-COMP/IMPORT MERCURY 66109  
 6 CDC EXTENT TO FRONT SIDE FROM 110CLOCK  
 OAIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH INTERMEDIATE CAR  
 L= 22 C1= 61 C2= 30 C3= 30 C4= 0 C5= 0 C6= 0 D=22 ICOD= 1  
 LATERAL DELTA-V= 9 LONGITUDINAL DELTA-V= 16 DELTA-V = 18

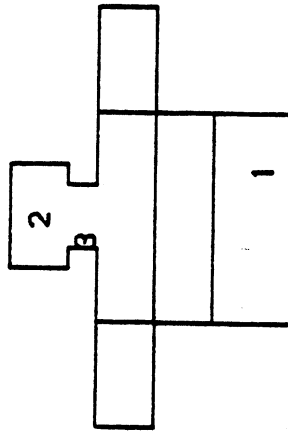
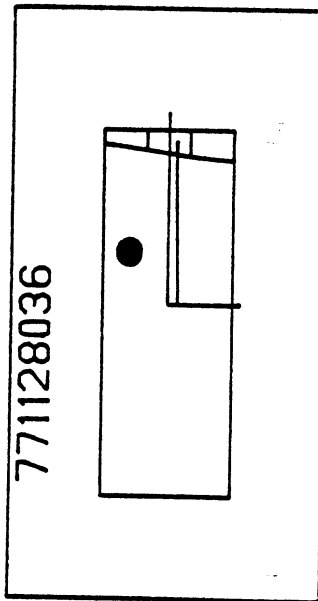
BODY REGION	KNEE	SHOULDER	HEAD-SKULL
DIRECTION	RIGHT	LEFT	LEFT
TYPE INJURY	FRACTURE	DISLOCATION	LACERATION
BODY ELEMENT	JOINTS	JOINTS	EYES,EARS
INJURY LEVEL	SEVERE AIS3	SEVERE AIS3	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 10 IYP = 12 ZONE = 1  
 WEIGHT = 3053. FORCE = 56903.  
 CRUSH ENERGY= 1250506. MASS FACTOR = 0.95  
 OCCUPANT OAIS 3 SEATING POSITION 11  
 AGE = 28 SEX = 1 HEIGHT= 72 WEIGHT= 205

NCSS CASE NO. 771128036 2 AM MON 28 NOV 1977  
 72 PASS CAR SUB-COMP/IMPORT MERCURY 87109  
 2 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 OASIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH FULL-SIZE CAR  
 L= 67 C1= 7 C2= 10 C3= 13 C4= 15 C5= 0 C6= 0 D= 0 ICOD= 1  
 LATERAL DELTA-V= 6 LONGITUDINAL DELTA-V= 23 DELTA-V = 24

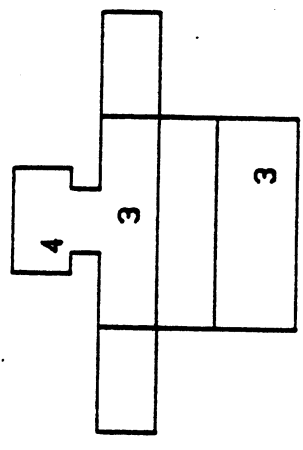
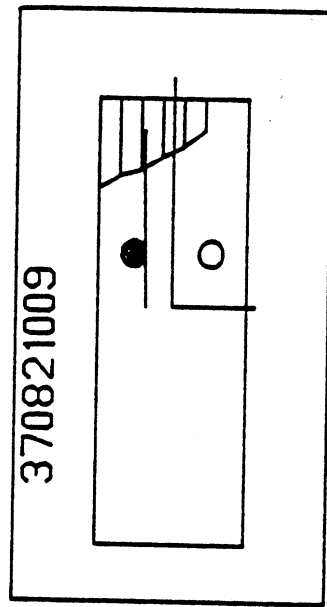
BODY REGION	NECK	HEAD-SKULL	KNEE
DIRECTION	POSTERIOR/BACK	SUPERIOR/UPPER	RIGHT
TYPE INJURY	FRACTURE	LACERATION	LACERATION
BODY ELEMENT	VERTEBRAE	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	SEVERE AIS3	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	A-PILLAR	UNKNOWN



IXP = 3 IYP = 56 ZONE = 2  
 WEIGHT = 3053. FORCE = 60354.  
 CRUSH ENERGY= 395772. MASS FACTOR = 0.99  
 OCCUPANT OASIS 3 SEATING POSITION 11  
 AGE = 25 SEX = 2 HEIGHT= 64 WEIGHT= 130

NCSS CASE NO. 370821009 4 PM SUN 21 AUG 1977  
 75 PASS CAR INTERMEDIATE UNKNOWN 11101  
 3 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORAIS= 4 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A UNLISTED TYPE CRASH WITH INTERMEDIATE CAR  
 L= 55 C1= 43 C2= 37 C3= 34 C4= 28 C5= 23 C6= 15 D=-11 ICOD= 2  
 LATERAL DELTA-V= 11 LONGITUDINAL DELTA-V= 41 DELTA-V = 43

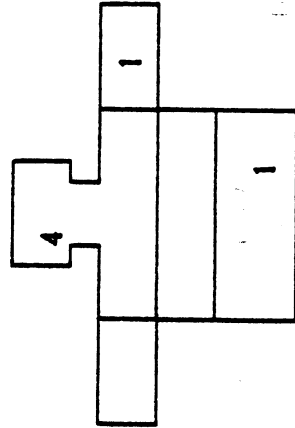
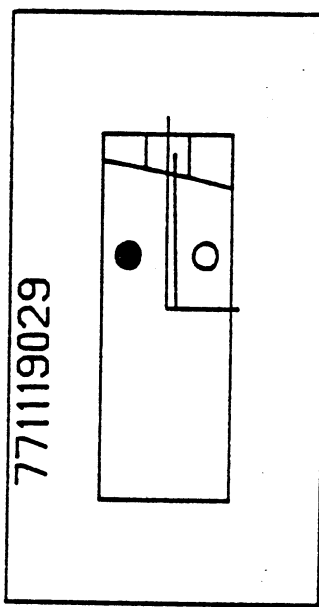
BODY REGION	HEAD-SKULL	CHEST	KNEE
DIRECTION	WHOLE REGION	RIGHT	LEFT
TYPE INJURY	CONCUSSION	FRACTURE	FRACTURE
BODY ELEMENT	BRAIN	SKELETAL	JOINTS
INJURY LEVEL	SERIOUS AIS4	SEVERE AIS3	SEVERE AIS3
OBJECT CONTACTED	WINDSHIELD	STEERING ASSEMBL	INSTRUMENT PANEL



IXP = 7 IYP = 30 ZONE = 1  
 WEIGHT = 4247. FORCE = 95737.  
 CRUSH ENERGY= 1748440. MASS FACTOR = 0.95  
 OCCUPANT ORAIS 4 SEATING POSITION 11  
 AGE = 67 SEX = 1 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 77119029 2 AM SAT 19 NOV 1977  
 71 PASS CAR SUB-COMP/IMPORT MERCURY 66109  
 3 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORIS= 4 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH FULL-SIZE CAR  
 L= 67 C1= 13 C2= 17 C3= 21 C4= 26 C5= 0 C6= 0 D= 0 ICOD= 1  
 LATERAL DELTA-V= 4 LONGITUDINAL DELTA-V= 22 DELTA-V = 22

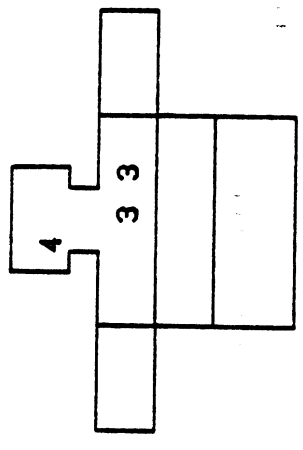
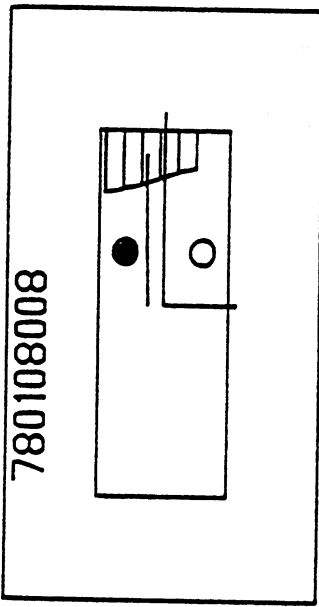
BODY REGION	HEAD-SKULL	ELBOW	KNEE
DIRECTION	WHOLE REGION	LEFT	LEFT
TYPE INJURY	CONCUSSION	LACERATION	LACERATION
BODY ELEMENT	BRAIN	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	SERIOUS AIS4	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	SUNVISOR/FITTING	WINDOW GLASS	HARDWARE ITEMS



IXP = 5 IYP = 55 ZONE = 2  
 WEIGHT = 3053. FORCE = 97675.  
 CRUSH ENERGY = 1033707. MASS FACTOR = 0.99  
 OCCUPANT ORIS 4 SEATING POSITION 11  
 AGE = 19 SEX = 2 HEIGHT = 65 WEIGHT = 140

NCSS CASE NO. 780108008 2 PM SUN 8 JAN 1978  
 76 PASS CAR SUB-COMP/IMPORT MERCURY 86109  
 3 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORAIS= 4 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V REAR TYPE CRASH WITH INTERMEDIATE CAR  
 L= 47 C1= 30 C2= 28 C3= 26 C4= 23 C5= 20 C6= 18 D= -7 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 25 DELTA-V = 25

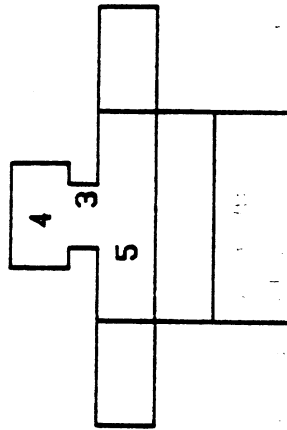
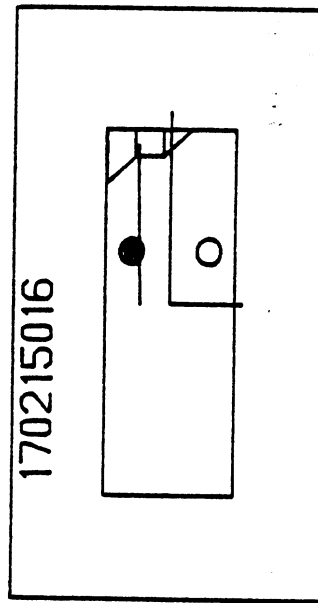
BODY REGION	HEAD-SKULL	CHEST	CHEST
DIRECTION	WHOLE REGION	CENTRAL	LEFT
TYPE INJURY	CONCUSSION	CONCUSSION	CONCUSSION
BODY ELEMENT	BRAIN	HEART	PULMONARY
INJURY LEVEL	SERIOUS AIS4	SEVERE AIS3	SEVERE AIS3
OBJECT CONTACTED	SUNVISOR/FITTING	STEERING ASSEMBL	STEERING ASSEMBL



IXP = 7 IYP = 36 ZONE = 2  
 WEIGHT = 3053. FORCE = 85340.  
 CRUSH ENERGY= 1112215. MASS FACTOR = 0.98  
 OCCUPANT ORAIS 4 SEATING POSITION 11  
 AGE = 27 SEX = 2 HEIGHT= 63 WEIGHT= 140

NCSS CASE NO. 170215016 2 PM TUE 15 FEB 1977  
 71 PASS CAR SUB-COMP/USA CHEVY/CANADA 11318  
 3 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 OAIS= 5 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH FULL-SIZE CAR  
 L= 44 C1= 26 C2= 13 C3= 13 C4= 0 C5= 0 C6= 0 D=11 ICOD= 1  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 33 DELTA-V = 33

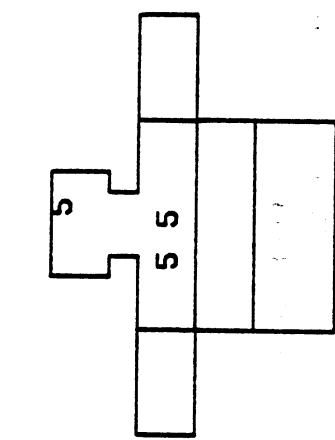
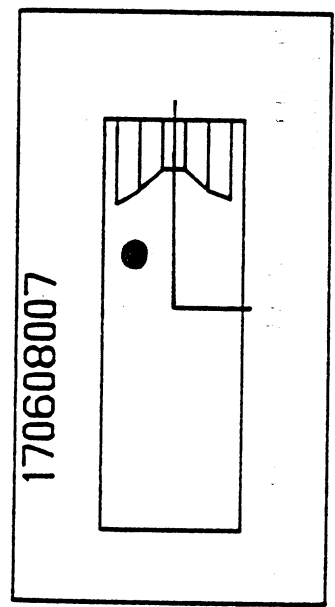
BODY REGION	CHEST	HEAD-SKULL	NECK
DIRECTION	CENTRAL	POSTERIOR/BACK	POSTERIOR/BACK
TYPE INJURY	LACERATION	CONTUSION	FRACTURE
BODY ELEMENT	ARTERIES	BRAIN	VERTEBRAE
INJURY LEVEL	CRITICAL AIS5	SERIOUS AIS4	SEVERE AIS3
OBJECT CONTACTED	STEERING ASSEMBL	MIRRORS	UNK EXTER OBJECT



IXP = 4 IYP = 25 ZONE = 1  
 WEIGHT = 3053. FORCE = 44850.  
 CRUSH ENERGY= 380202. MASS FACTOR = 0.93  
 OCCUPANT OAIS 5 SEATING POSITION 11  
 AGE = 18 SEX = 2 HEIGHT= 64 WEIGHT= 115

NCSS CASE NO. 170608007 11PM WED 8 JUN 1977  
 71 WAGON COMPACT FORD 14108  
 4 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 OASIS= 5 RESTRAINT= NOT USED EJECT/TRAP= UNKNOWN WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH INTERMEDIATE CAR  
 L= 59 C1= 41 C2= 34 C3= 24 C4= 24 C5= 34 C6= 38 D= 0 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 42 DELTA-V = 42

BODY REGION	CHEST	CHEST	HEAD-SKULL
DIRECTION	RIGHT	CENTRAL	POSTERIOR/BACK
TYPE INJURY	LACERATION	LACERATION	CONTUSION
BODY ELEMENT	ARTERIES	HEART	BRAIN
INJURY LEVEL	CRITICAL AISS	CRITICAL AISS	CRITICAL AISS
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN

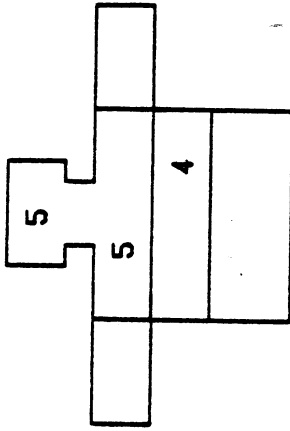
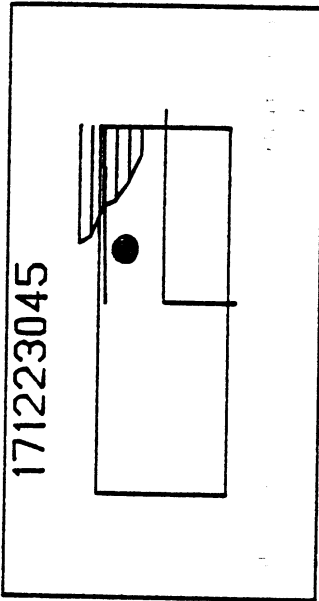


170608007  
 IXP = 8 IYP = 49 ZONE = 2  
 WEIGHT = 3547. FORCE = 136684.  
 CRUSH ENERGY = 2337408. MASS FACTOR = 1.00  
 OCCUPANT OASIS 5 SEATING POSITION 11  
 AGE = 21 SEX = 1 HEIGHT = 71 WEIGHT = 156



NCSS CASE NO. 171223045 8 PM FRI 23 DEC 1977  
 71 PASS CAR SUB-COMP/USA CHEVY/CANADA 12118  
 6 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORAIS- 5 RESTRAINT- NOT USED EJECT/TRAP- PART. EJECTION WEIGHTING F- 1  
 A V/V HEAD ON TYPE CRASH WITH INTERMEDIATE CAR  
 L- 32 C1- 56 C2- 52 C3- 38 C4- 35 C5- 26 C6- 13 D--28 ICOD- 2  
 LATERAL DELTA-V- 0 LONGITUDINAL DELTA-V- 36 DELTA-V - 36

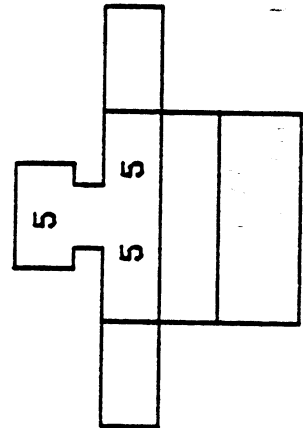
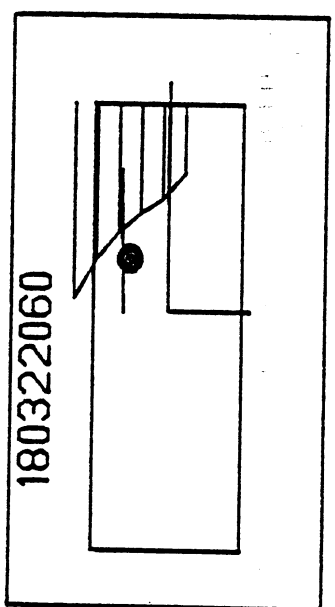
BODY REGION	CHEST	HEAD-SKULL	ABDOMEN
DIRECTION	CENTRAL	POSTERIOR/BACK	RIGHT
TYPE INJURY	LACERATION	CONTUSION	LACERATION
BODY ELEMENT	ARTERIES	BRAIN	LIVER
INJURY LEVEL	CRITICAL AISS	CRITICAL AISS	SERIOUS AIS4
OBJECT CONTACTED	STEERING ASSEMBL	SUNVISOR/ROOF	STEERING ASSEMBL



IXP - 11 IYP - 3 ZONE - 1  
 WEIGHT - 3053. FORCE - 87458.  
 CRUSH ENERGY- 1849306. MASS FACTOR - 0.77  
 OCCUPANT ORAIS 5 SEATING POSITION 11  
 AGE - 38 SEX - 1 HEIGHT- 69 WEIGHT- 240

NCSS CASE NO. 180322060 11PM MED 22 MAR 1978  
 73 PASS CAR INTERMEDIATE UNKNOWN 13201  
 7 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORIS= 5 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH LUXURY CAR  
 L= 57 C1= 93 C2= 74 C3= 61 C4= 52 C5= 45 C6= 33 D=20 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 55 DELTA-V = 55

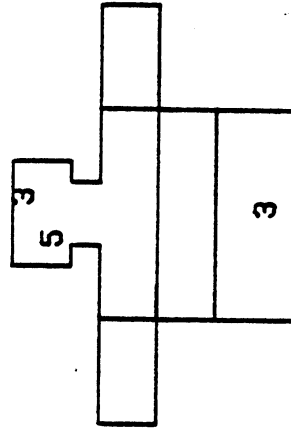
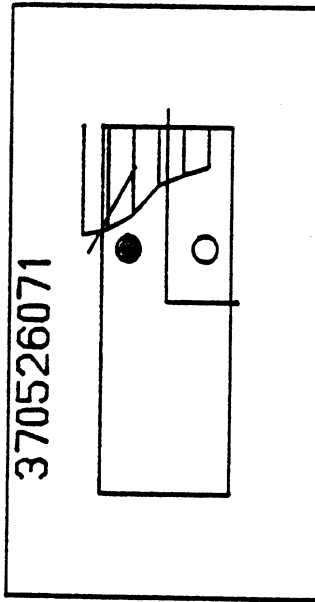
BODY REGION	CHEST	HEAD-SKULL	CHEST
DIRECTION	CENTRAL	INFERIOR/LOWER	BILATERAL
TYPE INJURY	LACERATION	CONTUSION	LACERATION
BODY ELEMENT	ARTERIES	BRAIN	PULMONARY
INJURY LEVEL	CRITICAL AISS	CRITICAL AISS	CRITICAL AISS
OBJECT CONTACTED	STEERING ASSEMBL	WINDSHIELD	STEERING ASSEMBL



IXP = 14 IYP = 18 ZONE = 1  
 WEIGHT = 4247. FORCE = 181135.  
 CRUSH ENERGY= 6124863. MASS FACTOR = 0.88  
 OCCUPANT ORIS 5 SEATING POSITION 11  
 AGE = 26 SEX = 1 HEIGHT= 70 WEIGHT= 185

NCSS CASE NO. 370526071 1 PM THU 26 MAY 1977  
 76 PASS CAR SPECIALTY/PONY PONTIAC 11506  
 5 CDC EXTENT TO FRONT SIDE FROM 1 OCLOCK  
 ORIS= 5 RESTRAINT= NOT USED EJECT/TRAP= UNKNOWN WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH FULL-SIZE CAR  
 L= 65 C1= 52 C2= 49 C3= 42 C4= 28 C5= 23 C6= 19 D=-11 ICOD= 2  
 LATERAL DELTA-V= 18 LONGITUDINAL DELTA-V= 32 DELTA-V = 36

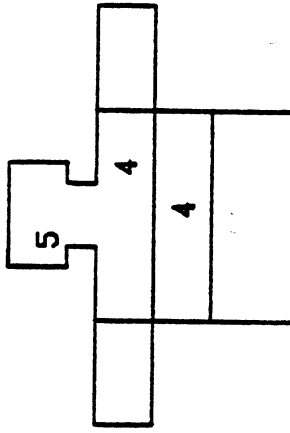
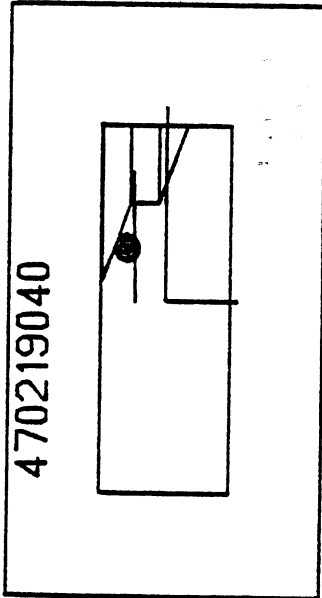
BODY REGION	HEAD-SKULL	PELVIC-HIP	FACE
DIRECTION	SUPERIOR/UPPER	ANTERIOR/FRONT	INFERIOR/LOWER
TYPE INJURY	CONCUSSION	FRACTURE	FRACTURE
BODY ELEMENT	BRAIN	SKELETAL	SKELETAL
INJURY LEVEL	CRITICAL AIS5	SEVERE AIS3	SEVERE AIS3
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 11 IYP = 24 ZONE = 1  
 WEIGHT = 3053. FORCE = 196588.  
 CRUSH ENERGY = 4587397. MASS FACTOR = 0.58  
 OCCUPANT ORIS 5 SEATING POSITION 11  
 AGE = 18 SEX = 1 HEIGHT = 70 WEIGHT = 200

NCSS CASE NO. 470219040 3 AM SAT 19 FEB 1977  
 71 PASS CAR SPECIALTY/PONY PONTIAC 12106  
 7 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 OAIS= 5 RESTRAINT= NOT USED EJECT/TRAP= UNKNOWN WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH FULL-SIZE CAR  
 L= 44 C1= 74 C2= 37 C3= 37 C4= 0 C5= 0 C6= 0 D=-11 ICOD= 1  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 44 DELTA-V = 44

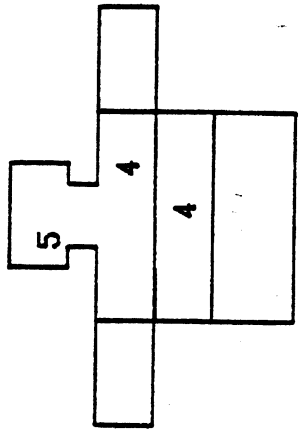
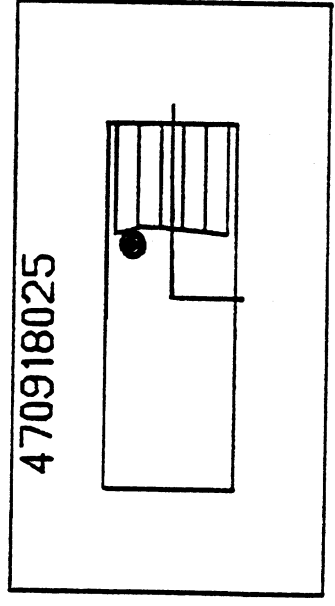
BODY REGION	HEAD-SKULL	ABDOMEN	CHEST
DIRECTION	SUPERIOR/UPPER	RIGHT	RIGHT
TYPE INJURY	CONCUSSION	LACERATION	FRACTURE
BODY ELEMENT	BRAIN	LIVER	SKELETAL
INJURY LEVEL	CRITICAL AISS	SERIOUS AIS4	SERIOUS AIS4
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 12 IYP = 25 ZONE = 1  
 WEIGHT = 3053. FORCE = 119942.  
 CRUSH ENERGY= 2774886. MASS FACTOR = 0.92  
 OCCUPANT OAIS 5 SEATING POSITION 11  
 AGE = 24 SEX = 1 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 470918025 11AM SUN 18 SEP 1977  
 77 WAGON SUB-COMP/USA CHEVY/CANADA 11318  
 5 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 OASIS= 5 RESTRAINT= NOT USED EJECT/TRAP= TRAPPED WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH COMPACT CAR  
 L= 58 C1= 53 C2= 50 C3= 50 C4= 51 C5= 52 C6= 53 D= 0 ICOD= 2  
 LATERAL DELTA-V= 12 LONGITUDINAL DELTA-V= 70 DELTA-V = 71

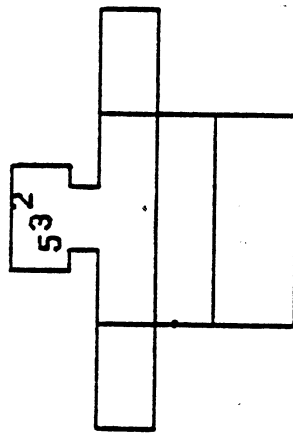
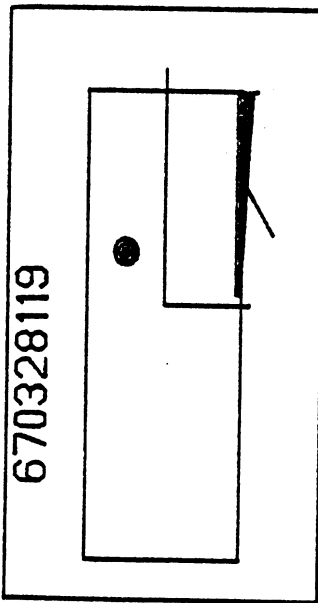
BODY REGION	HEAD-SKULL	ABDOMEN	CHEST
DIRECTION	WHOLE REGION	RIGHT	RIGHT
TYPE INJURY	CONCUSSION	LACERATION	FRACTURE
BODY ELEMENT	BRAIN	LIVER	SKELETAL
INJURY LEVEL	CRITICAL AISS	SERIOUS AIS4	SERIOUS AIS4
OBJECT CONTACTED	WINDSHIELD	STEERING ASSEMBL	STEERING ASSEMBL



IXP = 14 IYP = 50 ZONE = 2  
 WEIGHT = 3053. FORCE = 216672.  
 CRUSH ENERGY= 5693341. MASS FACTOR = 1.00  
 OCCUPANT OASIS 5 SEATING POSITION 11  
 AGE = 35 SEX = 1 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 670328119 1 AM MON 28 MAR 1977  
 73 WAGON FULL SIZE BUICK 11302  
 9 CDC EXTENT TO FRONT SIDE FROM 110CLOCK WEIGHTING F= 1  
 OAIS= 5 RESTRAINT= UNKNOWN EJECT/TRAP= UNKNOWN  
 A V/V HEAD ON TYPE CRASH WITH FULL-SIZE CAR  
 L= 6 C1= 97 C2= 97 C3= 87 C4= 27 C5= 0 C6= 0 D= 40 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

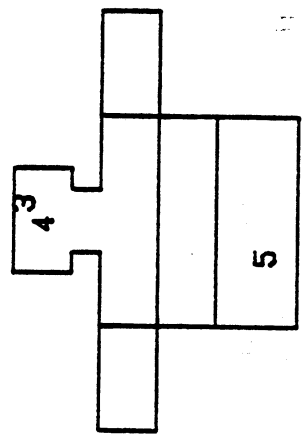
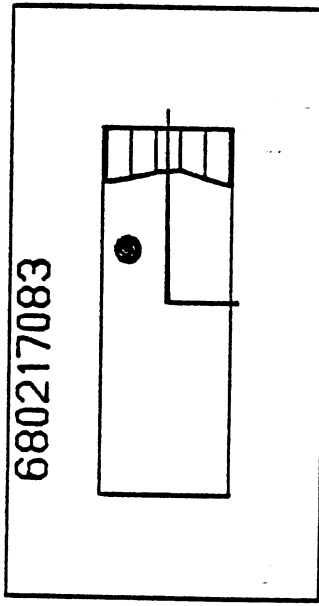
BODY REGION	HEAD-SKULL	FACE	FACE
DIRECTION	LEFT	INFERIOR/LOWER	LEFT
TYPE INJURY	CONCUSSION	FRACTURE	LACERATION
BODY ELEMENT	BRAIN	SKELETAL	EYES,EARS
INJURY LEVEL	CRITICAL AIS5	SEVERE AIS3	MODERATE AIS2
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 18 IYP = 99 ZONE = 3  
 WEIGHT = 4865. FORCE = 21384.  
 CRUSH ENERGY= 1107950. MASS FACTOR = 0.49  
 OCCUPANT OAIS 5 SEATING POSITION 11  
 AGE = 29 SEX = 1 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 680217083 6 PM FRI 17 FEB 1978  
 71 PASS CAR SUB-COMP/IMPORT MERCURY 61809  
 3 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 ORIS= 5 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH INTERMEDIATE CAR  
 L= 64 C1= 26 C2= 24 C3= 21 C4= 20 C5= 24 C6= 27 D= 0 ICOD= 2  
 LATERAL DELTA-V= 5 LONGITUDINAL DELTA-V= 39 DELTA-V = 39

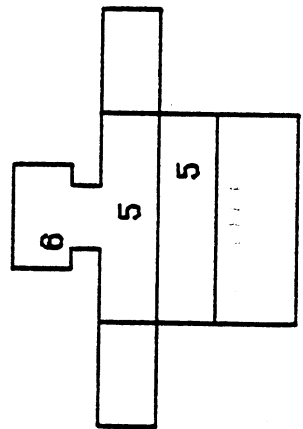
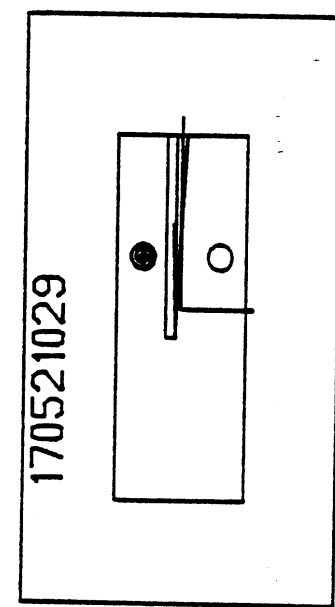
BODY REGION DIRECTION TYPE INJURY BODY ELEMENT INJURY LEVEL OBJECT CONTACTED	BACK INFERIOR/LOWER DISLOCATION VERTEBRAE CRITICAL AIS5 UNKNOWN	HEAD-SKULL WHOLE REGION CONCUSSION BRAIN SERIOUS AIS4 WINDSHIELD	FACE RIGHT AVULSION EYES,EARS SEVERE AIS3 UNKNOWN
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IXP = 6 IYP = 50 ZONE = 2  
 WEIGHT = 3053, FORCE = 11202,  
 CRUSH ENERGY= 1368109, MASS FACTOR = 1.00  
 OCCUPANT ORIS 5 SEATING POSITION 11  
 AGE = 19 SEX = 2 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 170521029 10AM SAT 21 MAY 1977  
 76 PASS CAR SUB-COMP/USA CHEVY/CANADA 12118  
 9 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 OAIS= 6 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A UNLISTED TYPE CRASH WITH FULL-SIZE CAR  
 L= 16 C1= 97 C2= 97 C3= 0 C4= 0 C5= 0 C6= 0 D= 0 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 49 DELTA-V = 49

BODY REGION	HEAD-SKULL	CHEST	ABDOMEN
DIRECTION	WHOLE REGION	CENTRAL	RIGHT
TYPE INJURY	CRUSHING	LACERATION	LACERATION
BODY ELEMENT	ALL SYSTEMS	ARTERIES	LIVER
INJURY LEVEL	MAXIMUM-FATAL	CRITICAL AISS	CRITICAL AISS
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



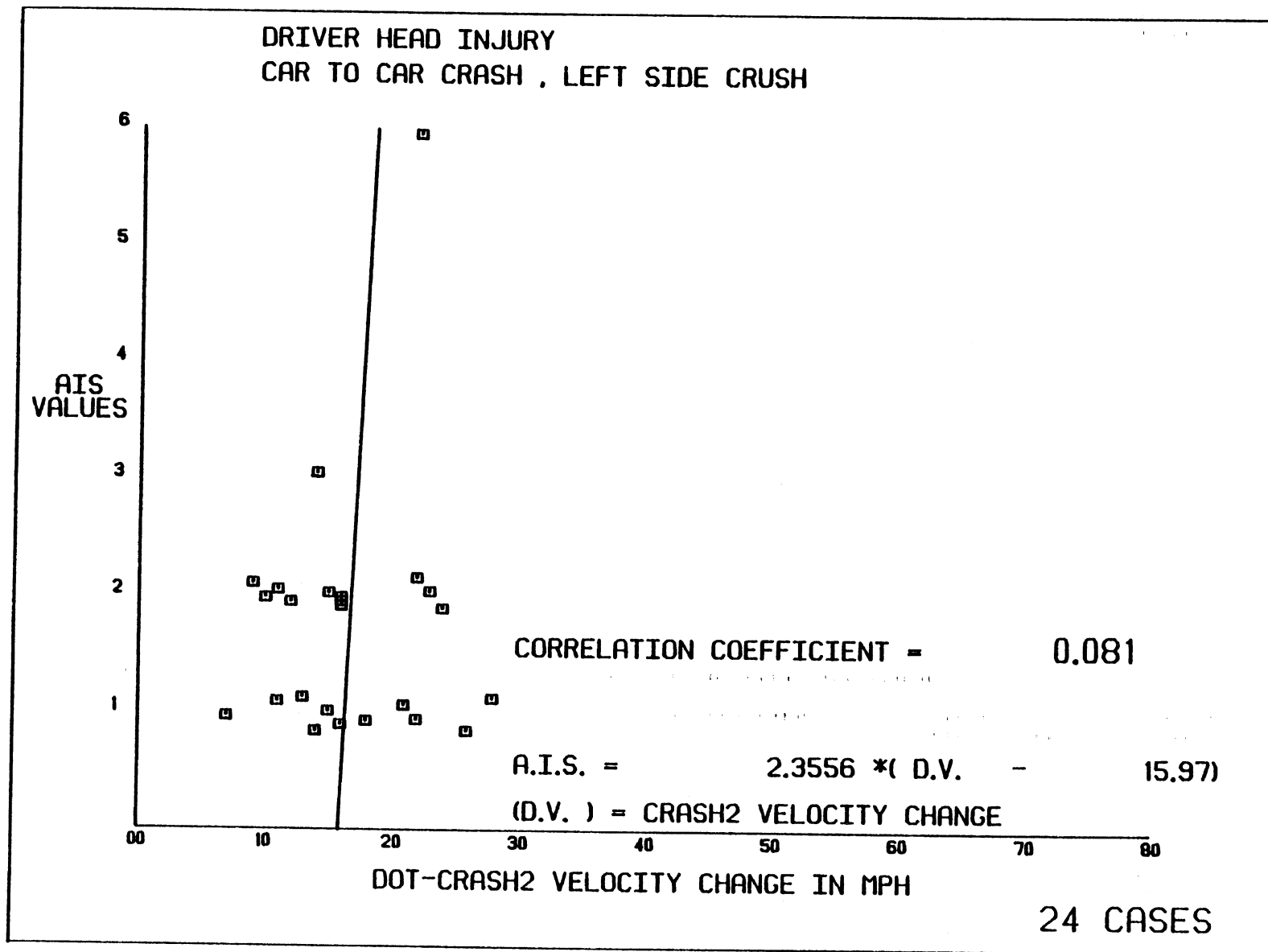
IXP = 24 IYP = 44 ZONE = 2  
 WEIGHT = 3053, FORCE = 56700.  
 CRUSH ENERGY= 2453573, MASS FACTOR = 1.00  
 OCCUPANT OAIS 6 SEATING POSITION 11  
 AGE = 64 SEX = 1 HEIGHT= 71 WEIGHT= 140

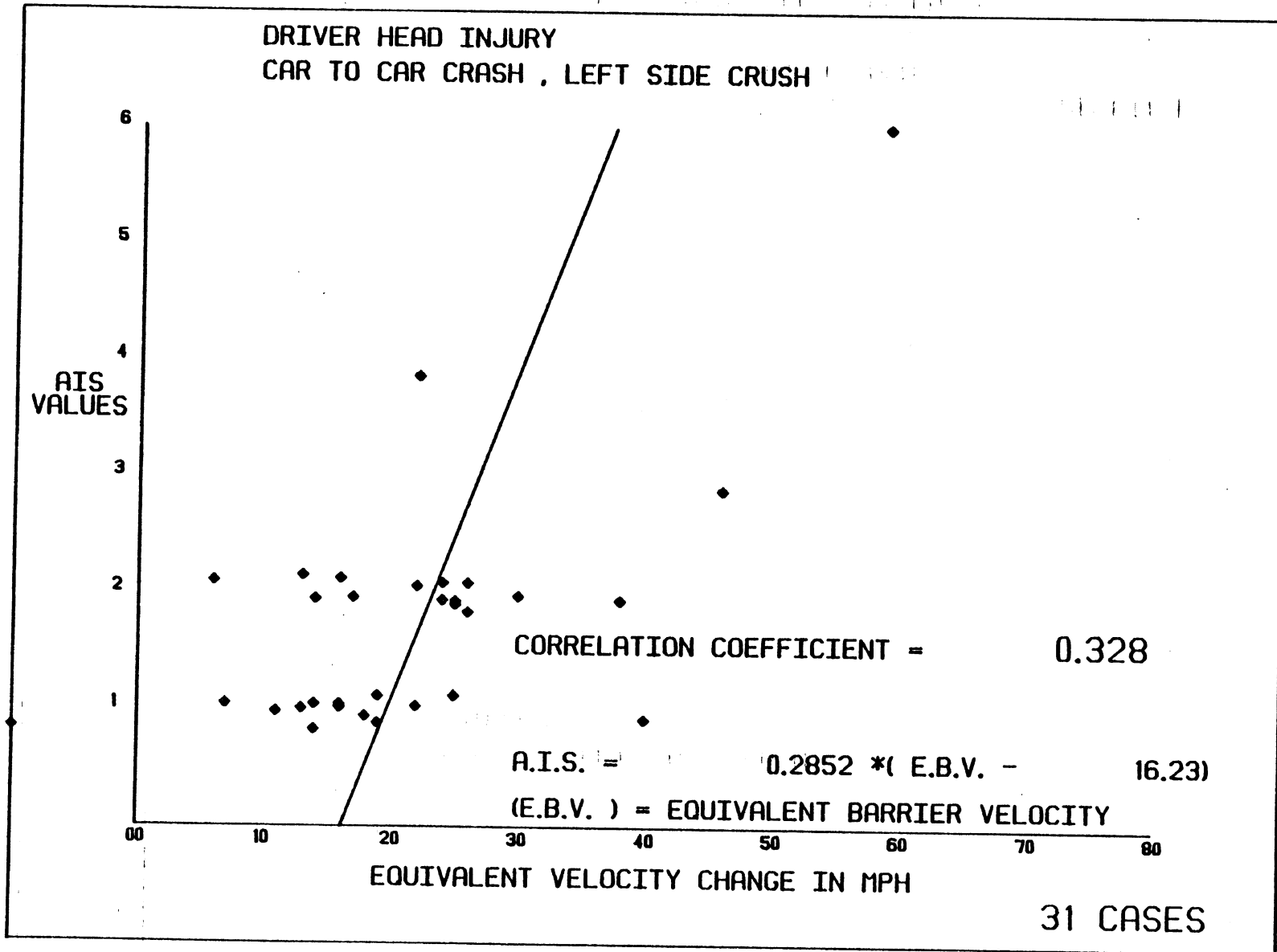


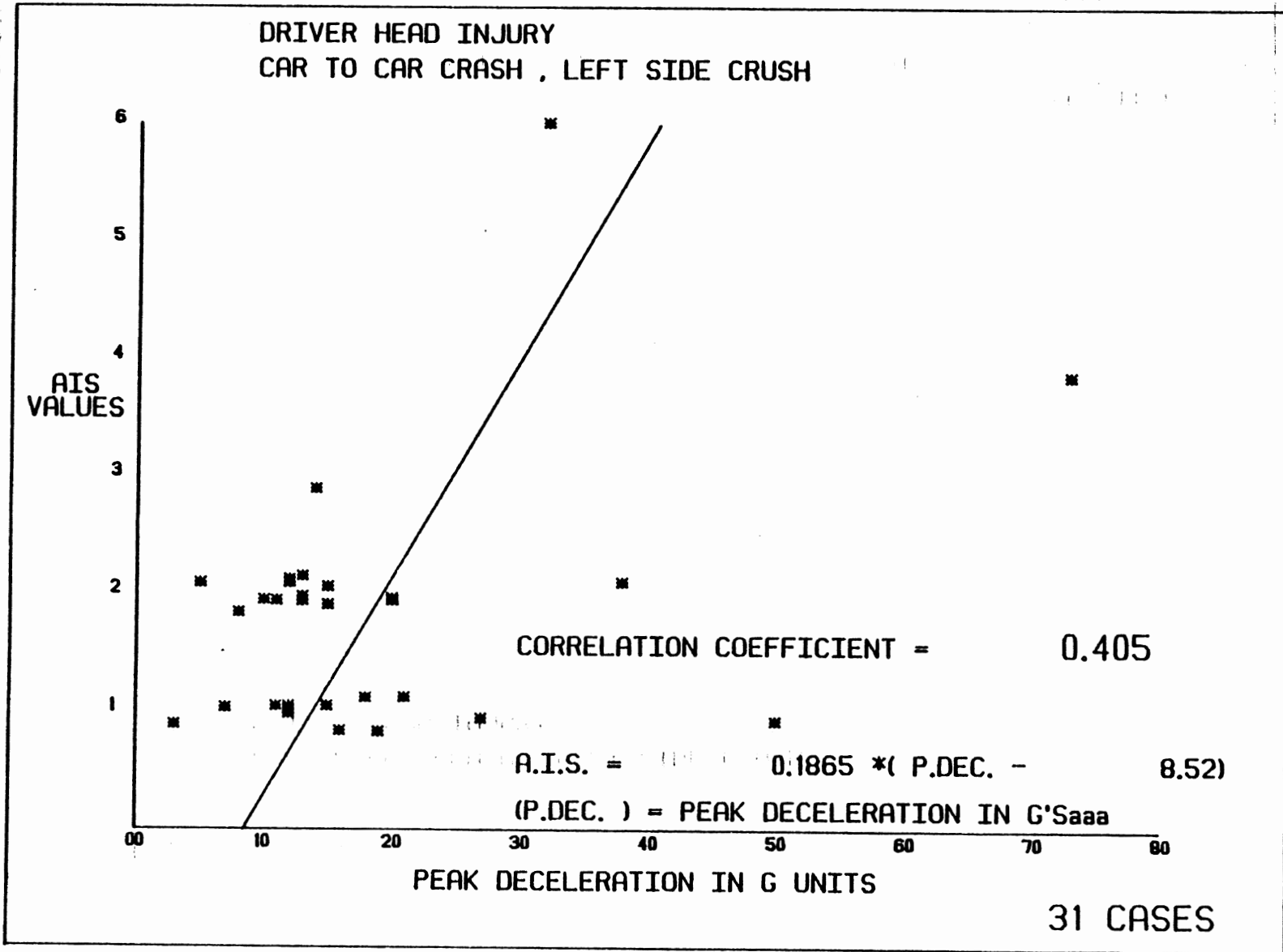
## DRIVER HEAD INJURY

## CAR TO CAR CRASH, LEFT-SIDE CRUSH

VEHICLE CODE	NCSS CASE	LEVEL INJURY	TYPE INJURY	OBJECT CONTACTED	PEAK DECELERATION	EQUIVALENT BARRIER SPEED	DDT-CRASH2 DELTA-V
11401	170407021	1 AIS	CONCUSSION	UNKNOWN	16 G	19 MPH	0 MPH
11310	170808025	1 AIS	LACERATION	STEERING ASSEMBL	3 G	6 MPH	14 MPH
12101	170907017	2 AIS	CONCUSSION	A-PILLAR	38 G	40 MPH	0 MPH
		2 AIS	LACERATION	A-PILLAR			
12104	171129065	1 AIS	LACERATION	WINDOW GLASS	50 G	38 MPH	0 MPH
12104	270928022	2 AIS	CONCUSSION	WINDSHIELD	20 G	30 MPH	24 MPH
		1 AIS	LACERATION	WINDSHIELD			
13201	271117019	2 AIS	CONCUSSION	B-PILLAR	13 G	16 MPH	9 MPH
13402	470324037	1 AIS	CONCUSSION	UNKNOWN	12 G	17 MPH	18 MPH
11318	470406012	2 AIS	CONCUSSION	UNKNOWN	20 G	25 MPH	12 MPH
		1 AIS	LACERATION	UNKNOWN			
11102	470916027	2 AIS	CONCUSSION	EXTERIOR OBJECT	15 G	24 MPH	10 MPH
11101	471006009	2 AIS	CONCUSSION	STEERING ASSEMBL	12 G	22 MPH	15 MPH
11103	471105053	1 AIS	ABRASION	UNKNOWN	7 G	13 MPH	0 MPH
12101	471205001	1 AIS	CONTUSION	WINDOW GLASS	12 G	22 MPH	7 MPH
11307	570619028	2 AIS	CONCUSSION	UNKNOWN	15 G	25 MPH	0 MPH
11307	570725072	2 AIS	CONCUSSION	UNKNOWN	13 G	16 MPH	16 MPH
13206	570831080	1 AIS	CONCUSSION	SIDE INTERIOR	12 G	13 MPH	11 MPH
11401	600114038	2 AIS	CONCUSSION	A-PILLAR	13 G	16 MPH	23 MPH
95206	680328078	2 AIS	CONCUSSION	SUNVISOR/FITTING	12 G	14 MPH	0 MPH
		1 AIS	LACERATION	SUNVISOR/FITTING			
11304	170125084	1 AIS	CONCUSSION	UNKNOWN	11 G	19 MPH	15 MPH
13406	171218036	1 AIS	LACERATION	WINDOW GLASS	18 G	18 MPH	21 MPH
12104	180311001	1 AIS	CONCUSSION	MIRRORS	27 G	46 MPH	22 MPH
12102	480311012	3 AIS	CONCUSSION	WINDOW GLASS	14 G	26 MPH	14 MPH
11502	570129070	2 AIS	CONCUSSION	UNKNOWN	8 G	11 MPH	22 MPH
11310	570131080	1 AIS	CONCUSSION	UNKNOWN	12 G	14 MPH	13 MPH
11306	580215046	2 AIS	CONCUSSION	UNKNOWN	10 G	14 MPH	11 MPH
11401	671103005	1 AIS	LACERATION	WINDOW GLASS	19 G	26 MPH	28 MPH
0	671111037	2 AIS	CONCUSSION	WINDSHIELD	5 G	7 MPH	16 MPH
		1 AIS	LACERATION	WINDSHIELD			
11101	671130099	1 AIS	LACERATION	WINDOW GLASS	15 G	25 MPH	16 MPH
12101	171222049	1 AIS	CONCUSSION	A-PILLAR	21 G	24 MPH	26 MPH
11402	271219001	8 AIS	CONCUSSION	WINDSHIELD	5 G	14 MPH	10 MPH
		4 AIS	LACERATION	WINDSHIELD			
12101	570126067	2 AIS	CONCUSSION	UNKNOWN	11 G	22 MPH	16 MPH
		1 AIS	LACERATION	UNKNOWN			
11318	570910027	4 AIS	CONTUSION	LOOSE OBJECTS	73 G	59 MPH	0 MPH
12106	780212017	6 AIS	LACERATION	ROOF SIDERAIL	32 G	29 MPH	22 MPH

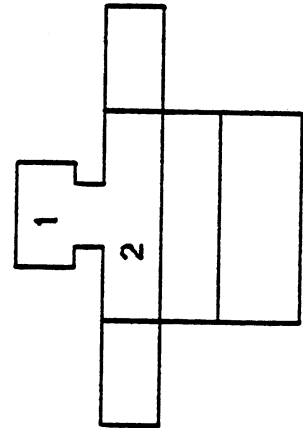
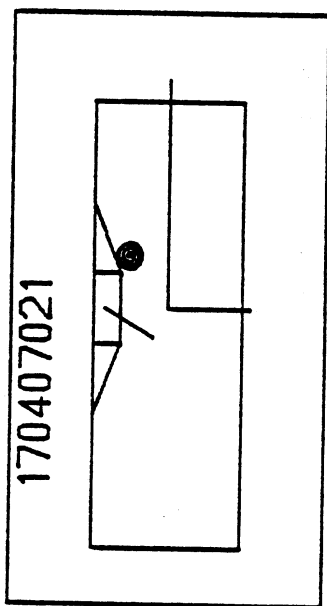






NCSS CASE NO. 170407021 8 PM THU 7 APR 1977  
 72 PASS CAR INTERMEDIATE UNKNOWN 11401  
 3 CDC EXTENT TO LEFT SIDE FROM 100CLOCK  
 OAIRS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH INTERMEDIATE CAR  
 L= 101 C1= 0 C2= 14 C3= 14 C4= 0 C5= 0 C6= 0 D= 0 ICOD= 1  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

BODY REGION	CHEST	HEAD-SKULL	UNKNOWN
DIRECTION	LEFT	WHOLE REGION	UNKNOWN
TYPE INJURY	FRACTURE	CONCUSSION	CONTOUSION
BODY ELEMENT	SKELETAL	BRAIN	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN

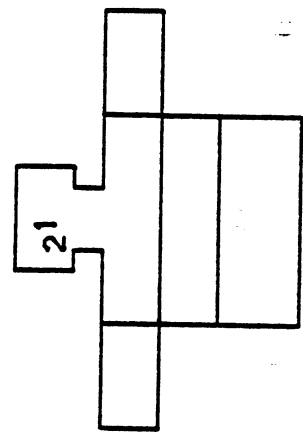
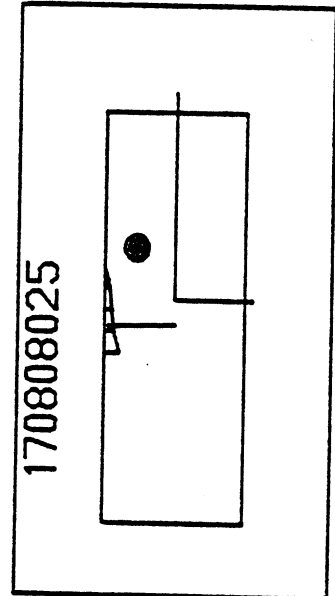


IXP = 46 IYP = 7 ZONE = 4  
 WEIGHT = 4247. FORCE = 71536.  
 CRUSH ENERGY= 576553. MASS FACTOR = 0.94  
 OCCUPANT OAIRS 2 SEATING POSITION 11  
 AGE = 57 SEX = 2 HEIGHT= 65 WEIGHT= 145

NCSS CASE NO. 170808025 MIDN MON 8 AUG 1977  
 76 PASS CAR SUPER SPORT CHRYSLER 11310

4 CDC EXTENT TO LEFT SIDE FROM 9 OCLOCK  
 OAIRS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH COMPACT CAR  
 L= 31 C1= 8 C2= 5 C3= 4 C4= 3 C5= 0 C6= 0 D=-10 ICOD= 2  
 LATERAL DELTA-V= 7 LONGITUDINAL DELTA-V= 12 DELTA-V = 14

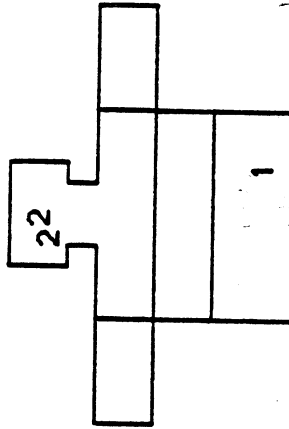
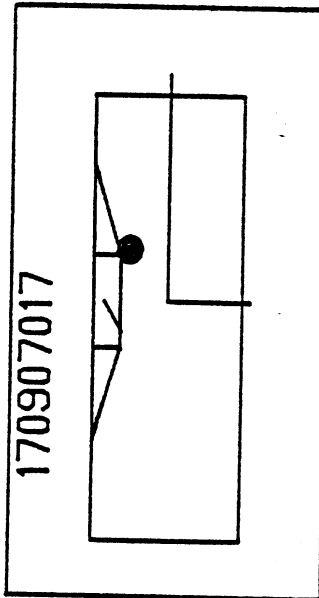
BODY REGION	FACE	HEAD-SKULL	UNKNOWN
DIRECTION	SUPERIOR/UPPER	LEFT	UNKNOWN
TYPE INJURY	LACERATION	LACERATION	OTHER
BODY ELEMENT	INTEGUMENTARY	INTEGUMENTARY	MISSING
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	INJURED/UNK SEV
OBJECT CONTACTED	STEERING ASSEMBL	STEERING ASSEMBL	MISSING



IXP = 52 IYP = 3 ZONE = 4  
 WEIGHT = 3547. FORCE = 13928.  
 CRUSH ENERGY= 56442. MASS FACTOR = 0.96  
 OCCUPANT OAIRS 2 SEATING POSITION 11  
 AGE = 26 SEX = 4 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 170907017 7 AM WED 7 SEP 1977  
 74 WAGON INTERMEDIATE UNKNOWN 12101  
 3 CDC EXTENT TO LEFT SIDE FROM 110CLOCK  
 OASIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V ANG SIDE TYPE CRASH WITH INTERMEDIATE CAR  
 L= 133 C1= 0 C2= 14 C3= 14 C4= 0 C5= 0 C6= 0 D= 0 ICOD= 1  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

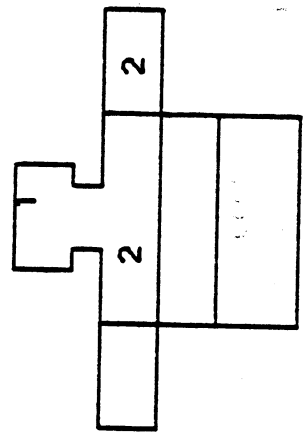
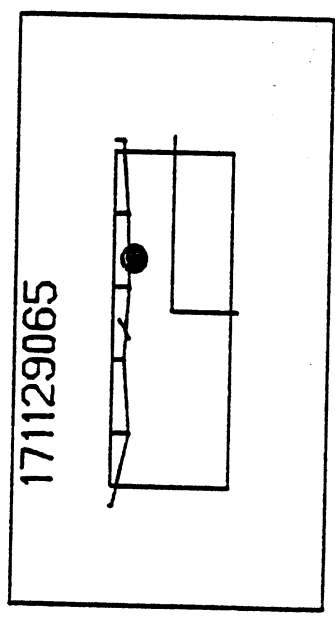
BODY REGION DIRECTION TYPE INJURY BODY ELEMENT INJURY LEVEL OBJECT CONTACTED	HEAD-SKULL WHOLE REGION CONCUSSION BRAIN MODERATE AIS2 A-PILLAR	HEAD-SKULL LEFT LACERATION EYES,EARS MODERATE AIS2 A-PILLAR	LEG LEFT CONTOUSION INTEGUMENTARY MINOR AIS1 SIDE INTERIOR
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IXP = 46 IYP = 7 ZONE = 4  
 WEIGHT = 4247. FORCE = 163142.  
 CRUSH ENERGY= 2277161. MASS FACTOR = 0.83  
 OCCUPANT OASIS 2 SEATING POSITION 11  
 AGE = 29 SEX = 2 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 171129065 10AM TUE 29 NOV 1977  
 74 PASS CAR MINI-SPECIALTY CHEVROLET 12104  
 2 CDC EXTENT TO LEFT SIDE FROM 110CLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 4  
 A UNLISTED TYPE CRASH WITH INTERMEDIATE CAR  
 L= 175 C1= 1 C2= 9 C3= 6 C4= 8 C5= 7 C6= 4 D= -6 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

BODY REGION	CHEST	ELBOW	HEAD-SKULL
DIRECTION	LEFT	LEFT	POSTERIOR/BACK
TYPE INJURY	FRACTURE	FRACTURE	LACERATION
BODY ELEMENT	SKELETAL	JOINTS	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	STEERING ASSEMBL	SIDE INTERIOR	WINDOW GLASS

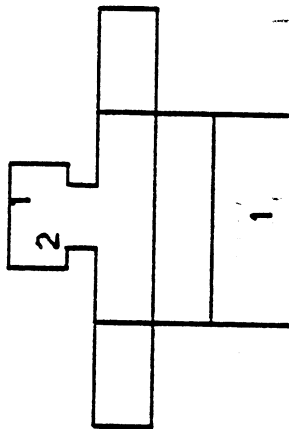
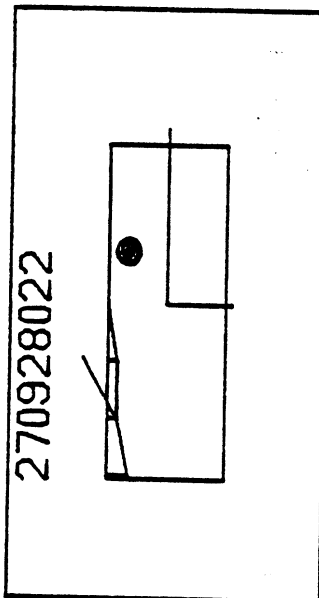


IXP = 50 IYP = 5 ZONE = 4  
 WEIGHT = 2203. FORCE = 110498.  
 CRUSH ENERGY= 983288. MASS FACTOR = 0.76  
 OCCUPANT ORAIS 2 SEATING POSITION 11  
 AGE = 36 SEX = 1 HEIGHT= 68 WEIGHT= 145



NCSS CASE NO. 270928022 6 AM WED 28 SEP 1977  
 74 PASS CAR MINI-SPECIALTY CHEVROLET 12104  
 3 CDC EXTENT TO LEFT SIDE FROM 110CLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= TRAPPED WEIGHTING F= 1  
 A V/V ANG SIDE TYPE CRASH WITH INTERMEDIATE CAR  
 L= 83 C1= 11 C2= 5 C3= 5 C4= 0 C5= 0 C6= 0 D=-41 ICOD= 1  
 LATERAL DELTA-V= 12 LONGITUDINAL DELTA-V= 20 DELTA-V = 24

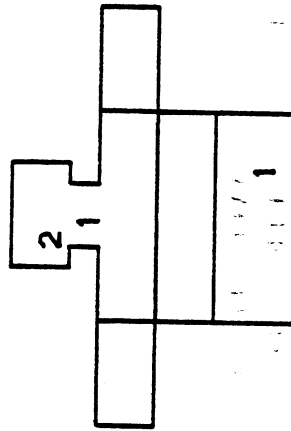
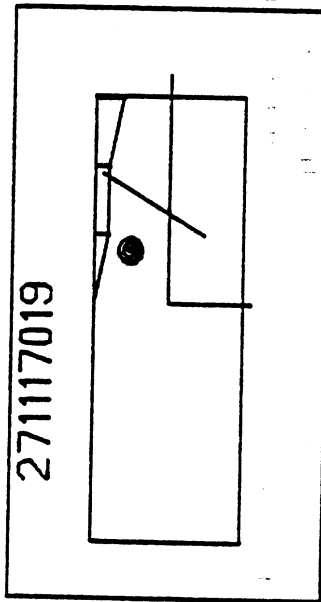
BODY REGION	HEAD-SKULL	KNEE	HEAD-SKULL
DIRECTION	WHOLE REGION	LEFT	SUPERIOR/UPPER
TYPE INJURY	CONCUSSION	CONTUSION	LACERATION
BODY ELEMENT	BRAIN	JOINTS	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	WINDSHIELD	INSTRUMENT PANEL	WINDSHIELD



IXP = 80 IYP = 5 ZONE = 6  
 WEIGHT = 2203. FORCE = 44286.  
 CRUSH ENERGY= 363033. MASS FACTOR = 0.44  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 64 SEX = 1 HEIGHT= 68 WEIGHT= 175

NCSS CASE NO. 271117019 10PM THU 17 NOV 1977  
 74 PASS CAR INTERMEDIATE UNKNOWN 13201  
 3 CDC EXTENT TO LEFT SIDE FROM 100CLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= PART. EJECTION WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH COMPACT CAR  
 L= 98 C1= 0 C2= 7 C3= 7 C4= 14 C5= 0 C6= 0 D= 49 ICOD= 1  
 LATERAL DELTA-V= 9 LONGITUDINAL DELTA-V= 0 DELTA-V = 9

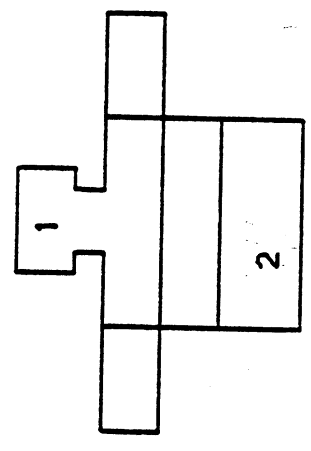
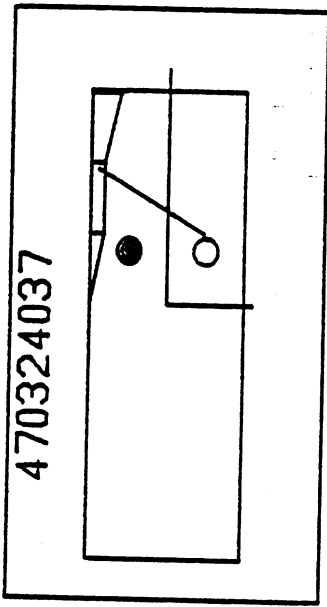
BODY REGION	HEAD-SKULL	NECK	BACK
DIRECTION	SUPERIOR/UPPER	POSTERIOR/BACK	SUPERIOR/UPPER
TYPE INJURY	CONCUSSION	PAIN	RUPTURE
BODY ELEMENT	BRAIN	MUSCLES	MUSCLES
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	B-PILLAR	UNKNOWN	UNKNOWN



IXP = 17 IYP = 5 ZONE = 1  
 WEIGHT = 4247. FORCE = 56104.  
 CRUSH ENERGY= 354491. MASS FACTOR = 0.73  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 20 SEX = 2 HEIGHT= 66 WEIGHT= 154

NCSS CASE NO. 470324037 11PM THU 24 MAR 1977 13402  
 75 WAGON FULL SIZE BUICK  
 3 CDC EXTENT TO LEFT SIDE FROM 100CLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 101 C1= 0 C2= 7 C3= 7 C4= 15 C5= 0 C6= 0 D= 50 ICOD= 1  
 LATERAL DELTA-V= 15 LONGITUDINAL DELTA-V= 9 DELTA-V = 18

BODY REGION	LEG	HEAD-SKULL	UNKNOWN
DIRECTION	LEFT	WHOLE REGION	UNKNOWN
TYPE INJURY	FRACTURE	CONCUSSION	OTHER
BODY ELEMENT	SKELETAL	BRAIN	MISSING
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	INJURED/UNK SEV
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN

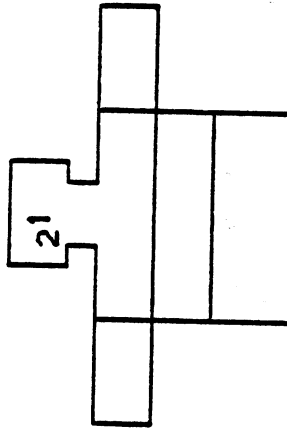
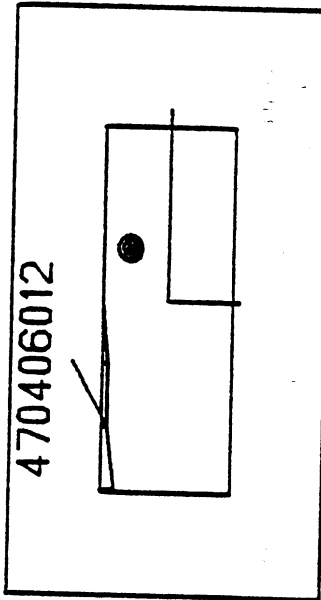


IXP = 17 IYP = 5 ZONE = 1  
 WEIGHT = 4865. FORCE = 59950.  
 CRUSH ENERGY= 417475. MASS FACTOR = 0.73  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 50 SEX = 1 HEIGHT= 70 WEIGHT= 165

NCSS CASE NO. 470406012 6 PM WED 6 APL 1977  
 72 PASS CAR SUB-COMP/USA CHEVY/CANADA 11318  
 2 CDC EXTENT TO LEFT SIDE FROM 11OCLOCK  
 OASIS= 2 RESTRAINT= UNKNOWN EJECT/TRAP= NONE  
 A V/V ANG SIDE TYPE CRASH WITH LUXURY CAR  
 L= 91 C1= 7 C2= 3 C3= 3 C4= 0 C5= 0 C6= 0 D=-45 ICOD= 1  
 LATERAL DELTA-V= 6 LONGITUDINAL DELTA-V= 11 DELTA-V = 12

WEIGHTING F= 1

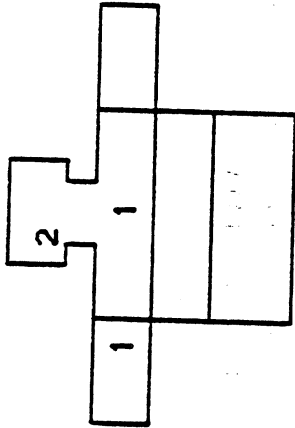
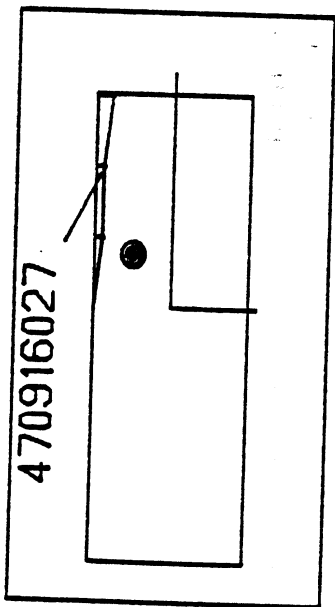
BODY REGION	HEAD-SKULL	HEAD-SKULL	HEAD-SKULL
DIRECTION	WHOLE REGION	SUPERIOR/UPPER	UNKNOWN
TYPE INJURY	CONCUSSION	LACERATION	UNKNOWN
BODY ELEMENT	BRAIN	INTEGUMENTARY	OTHER
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MISSING
OBJECT CONTACTED	UNKNOWN	UNKNOWN	INJURED/UNK SEV



IXP = 80 IYP = 3 ZONE = 6  
 WEIGHT = 3053. FORCE = 63986.  
 CRUSH ENERGY= 370636. MASS FACTOR = 0.48  
 OCCUPANT OASIS 2 SEATING POSITION 11  
 AGE = 19 SEX = 2 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 470916027 4 PM FRI 16 SEP 1977  
 72 PASS CAR FULL SIZE BUICK 11102  
 2 CDC EXTENT TO LEFT SIDE FROM 7 OCLOCK  
 OASIS= 2 RESTRAINT= NOT USED EJECT/TRAP= COMPLETE EJECTIO WEIGHTING F= 1  
 A UNLISTED TYPE CRASH WITH FULL-SIZE CAR  
 L= 101 C1= 0 C2= 4 C3= 4 C4= 8 C5= 0 C6= 0 D= 50 ICOD= 1  
 LATERAL DELTA-V= 5 LONGITUDINAL DELTA-V= 8 DELTA-V = 10

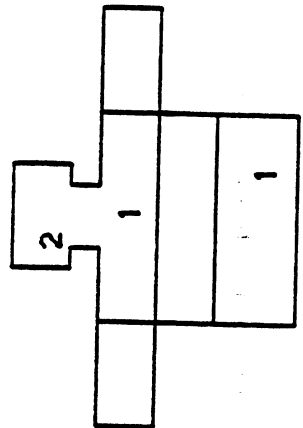
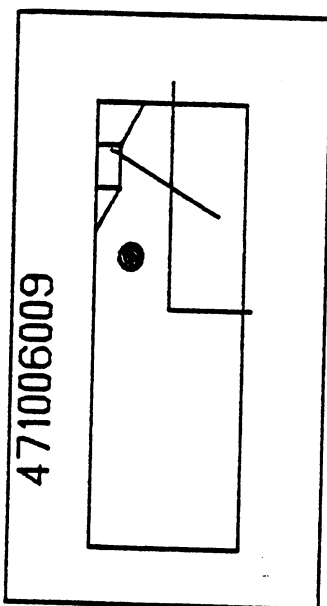
BODY REGION	HEAD-SKULL	CHEST	FOREARM
DIRECTION	WHOLE REGION	LEFT	RIGHT
TYPE INJURY	CONCUSSION	CONCUSSION	CONCUSSION
BODY ELEMENT	BRAIN	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	EXTERIOR OBJECT	EXTERIOR OBJECT	EXTERIOR OBJECT



IXP = 17 IYP = 3 ZONE = 1  
 WEIGHT = 4865. FORCE = 73700.  
 CRUSH ENERGY= 604721. MASS FACTOR = 0.50  
 OCCUPANT OASIS 2 SEATING POSITION 11  
 AGE = 39 SEX = 2 HEIGHT= 61 WEIGHT= 200

NCSS CASE NO. 471006009 MIDN THU 6 OCT 1977  
 77 PASS CAR INTERMEDIATE UNKNOWN 11101  
 4 CDC EXTENT TO LEFT SIDE FROM 100CLOCK  
 OAIS= 2 RESTRAINT= UNKNOWN EJECT/TRAP= NONE WEIGHTING F= 4  
 A V/V SIDE TYPE CRASH WITH COMPACT CAR  
 L= 62 C1= 0 C2= 12 C3= 12 C4= 24 C5= 0 C6= 0 D= 68 ICOD= 1  
 LATERAL DELTA-V= 13 LONGITUDINAL DELTA-V= 7 DELTA-V = 15

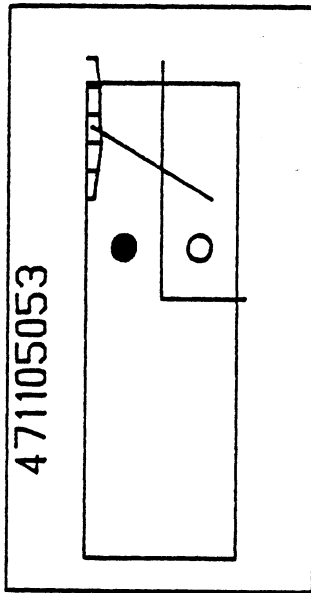
BODY REGION	HEAD-SKULL	CHEST	KNEE
DIRECTION	POSTERIOR/BACK	LEFT	BILATERAL
TYPE INJURY	CONCUSSION	PAIN	CONTUSION
BODY ELEMENT	BRAIN	MUSCLES	JOINTS
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	STEERING ASSEMBL	STEERING ASSEMBL	STEERING ASSEMBL



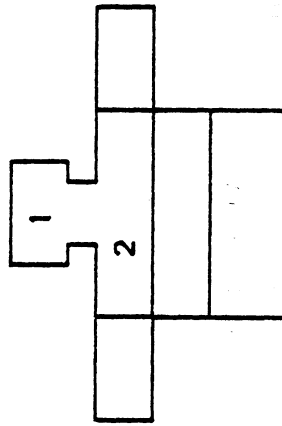
IXP = 10 IYP = 9 ZONE = 1  
 WEIGHT = 4247. FORCE = 53535.  
 CRUSH ENERGY= 525245. MASS FACTOR = 0.59  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 23 SEX = 2 HEIGHT= 64 WEIGHT= 150

NCSS CASE NO. 471105053 2 PM SAT 5 NOV 1977  
 76 WAGON LUXURY/LIMOSINE CADILLAC 11103  
 3 CDC EXTENT TO LEFT SIDE FROM 100CLOCK  
 OAIS= 2 RESTRAINT= LAP ONLY EJECT/TRAP= NONE WEIGHTING F= 1  
 A UNLISTED TYPE CRASH WITH SUB-COMPACT CAR  
 L= 68 C1= 4 C2= 6 C3= 8 C4= 7 C5= 7 C6= 5 D= 82 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

BODY REGION	CHEST	HEAD-SKULL	UNKNOWN
DIRECTION	LEFT	LEFT	UNKNOWN
TYPE INJURY	FRACTURE	ABRASION	OTHER
BODY ELEMENT	SKELETAL	INTEGUMENTARY	MISSING
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	INJURED/UNK SEV
OBJECT CONTACTED	STEERING ASSEMBL	UNKNOWN	MISSING



471105053



IXP = 9 IYP = 4 ZONE = 1  
 WEIGHT = 5309. FORCE = 37897.  
 CRUSH ENERGY= 226373. MASS FACTOR = 0.59  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 64 SEX = 1 HEIGHT= 70 WEIGHT= 145

NCSS CASE NO. 471205001 2 AM MON 5 DEC 1977

73 PASS CAR INTERMEDIATE UNKNOWN 12101

4 CDC EXTENT TO LEFT SIDE FROM 100CLOCK

ORIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE

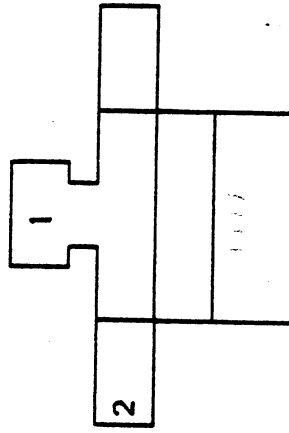
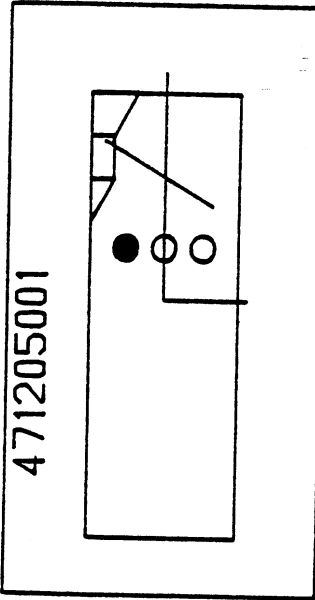
A V/V SIDE TYPE CRASH WITH INTERMEDIATE CAR

L= 62 C1= 0 C2= 12 C3= 12 C4= 24 C5= 0 C6= 0 D= 68 ICOD= 1

LATERAL DELTA-V= 7 LONGITUDINAL DELTA-V= 0 DELTA-V = 7

WEIGHTING F= 4

BODY REGION	SHOULDER	HEAD-SKULL	UNKNOWN
DIRECTION	RIGHT	LEFT	UNKNOWN
TYPE INJURY	FRACTURE	CONTUSION	OTHER
BODY ELEMENT	SKELETAL	INTEGUMENTARY	MISSING
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	INJURED/UNK SEV
OBJECT CONTACTED	OTHER OCCUPANTS	WINDOW GLASS	MISSING



IXP = 10 IYP = 9 ZONE = 1

WEIGHT = 4247. FORCE = 53535.

CRUSH ENERGY= 525245. MASS FACTOR = 0.59

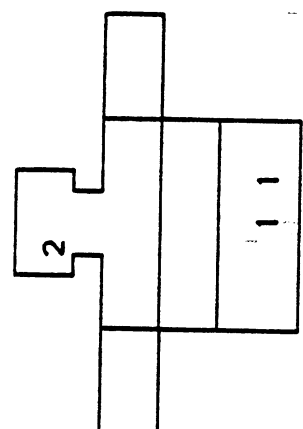
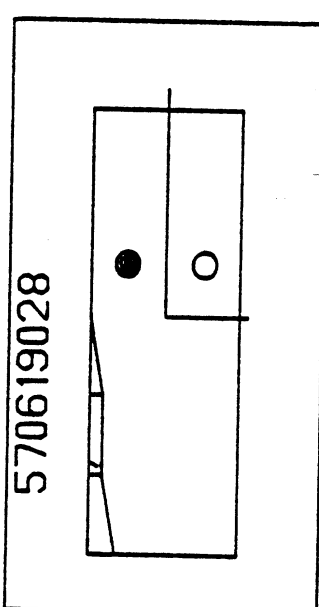
OCCUPANT ORIS 2 SEATING POSITION 11

AGE = 27 SEX = 2 HEIGHT= 68 WEIGHT= 142



NCSS CASE NO. 570619028 4 AM SUN 19 JUN 1977  
 77 PASS CAR SPECIALTY/INTERM GMC TRUCK 11307  
 3 CDC EXTENT TO LEFT SIDE FROM 100CLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH INTERMEDIATE CAR  
 L= 114 C1= 14 C2= 7 C3= 7 C4= 0 C5= 0 C6= 0 D--57 ICOD= 1  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

BODY REGION	HEAD-SKULL	BACK	BACK
DIRECTION	WHOLE REGION	SUPERIOR/UPPER	INFERIOR/LOWER
TYPE INJURY	CONCUSSION	OTHER	OTHER
BODY ELEMENT	BRAIN	MUSCLES	MUSCLES
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 80 IYP = 5 ZONE = 6  
 WEIGHT = 4247. FORCE = 65264.  
 CRUSH ENERGY= 412367. MASS FACTOR = 0.37  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 27 SEX = 4 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 570725072 4 PM MON 25 JUL 1977

77 PASS CAR SPECIALTY/INTERM GMC TRUCK 11307

3 CDC EXTENT TO LEFT SIDE FROM 100CLOCK

ORIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE

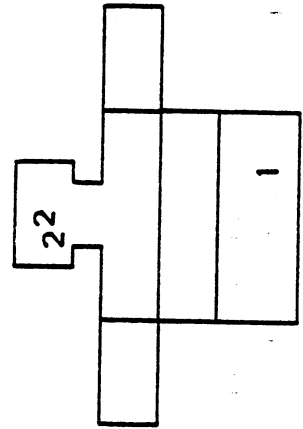
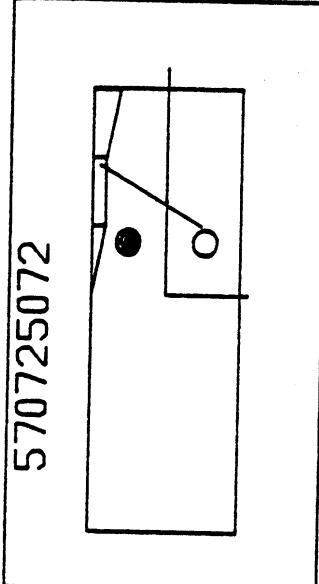
A V/V SIDE TYPE CRASH WITH INTERMEDIATE CAR

L= 98 C1= 0 C2= 7 C3= 7 C4= 14 C5= 0 C6= 0 D= 49 ICOD= 1

LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 16 DELTA-V = 16

WEIGHTING F= 1

BODY REGION	HEAD-SKULL	FACE	BACK
DIRECTION	WHOLE REGION	INFERIOR/LOWER	INFERIOR/LOWER
TYPE INJURY	CONCUSSION	LACERATION	OTHER
BODY ELEMENT	BRAIN	DIGESTIVE	MUSCLES
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN

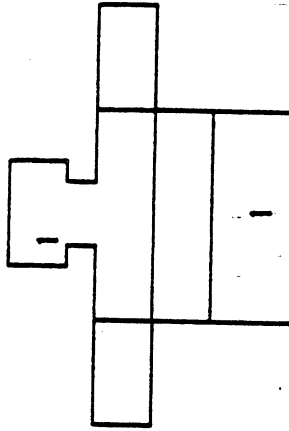
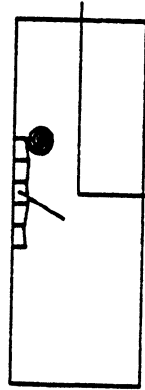


IXP = 17 IYP = 5 ZONE = 1  
 WEIGHT = 4247. FORCE = 56104.  
 CRUSH ENERGY= 354491. MASS FACTOR = 0.73  
 OCCUPANT ORIS 2 SEATING POSITION 11  
 AGE = 44 SEX = 1 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 570831088 5 PM WED 31 AUG 1977  
 76 PASS CAR SPECIALTY/PONY PONTIAC 13206  
 2 CDC EXTENT TO LEFT SIDE FROM 100CLOCK  
 ORIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH SUB-COMPACT CAR  
 L= 52 C1= 7 C2= 6 C3= 8 C4= 7 C5= 8 C6= 6 D= 0 ICOD= 2  
 LATERAL DELTA-V= 9 LONGITUDINAL DELTA-V= 7 DELTA-V = 11

BODY REGION	HEAD-SKULL	LEG	UNKNOWN
DIRECTION	WHOLE REGION	LEFT	UNKNOWN
TYPE INJURY	CONCUSSION	ABRASION	OTHER
BODY ELEMENT	BRAIN	INTEGUMENTARY	MISSING
INJURY LEVEL	MINOR AISI	MINOR AISI	INJURED/UNK SEV
OBJECT CONTACTED	SIDE INTERIOR	SIDE INTERIOR	MISSING

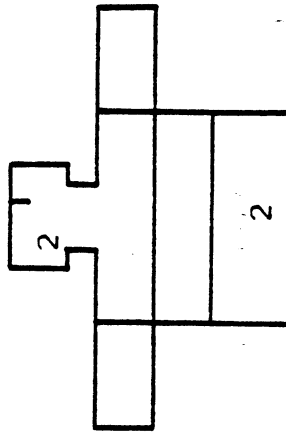
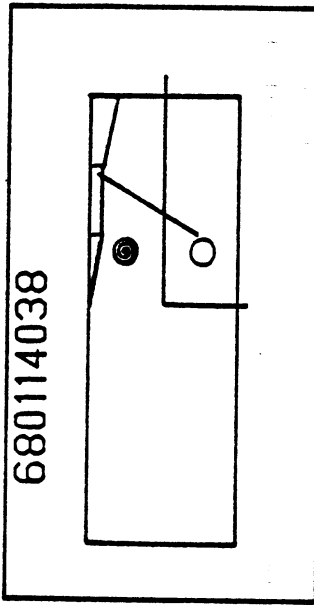
570831088



IXP = 47 IYP = 5 ZONE = 4  
 WEIGHT = 3053. FORCE = 36865.  
 CRUSH ENERGY= 196659. MASS FACTOR = 0.94  
 OCCUPANT ORIS 2 SEATING POSITION 11  
 AGE = 37 SEX = 1 HEIGHT= 66 WEIGHT= 217

NCSS CASE NO. 680114038 UNKN SAT 14 JAN 1978  
 75 PASS CAR INTERMEDIATE UNKNOWN 11401  
 3 CDC EXTENT TO LEFT SIDE FROM 100CLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 98 C1= 0 C2= 7 C3= 7 C4= 14 C5= 0 C6= 0 D= 49 ICOD= 1  
 LATERAL DELTA-V= 22 LONGITUDINAL DELTA-V= 6 DELTA-V = 23

BODY REGION	HEAD-SKULL	PELVIC-HIP	FACE
DIRECTION	LEFT	ANTERIOR/FRONT	LEFT
TYPE INJURY	CONCUSSION	FRACTURE	ABRASION
BODY ELEMENT	BRAIN	SKELETAL	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	A-PILLAR	SIDE ARMRESTS	WINDOW GLASS

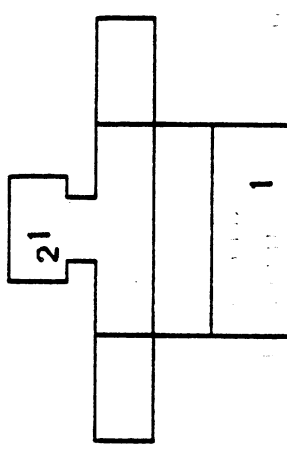
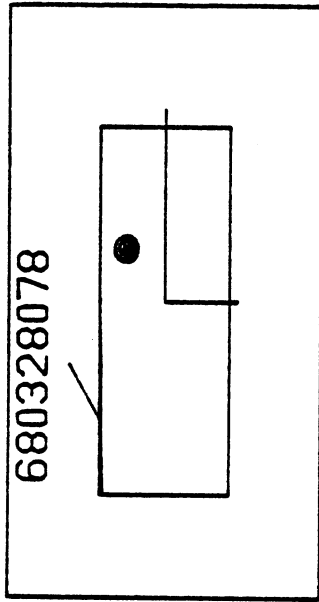


IXP = 17 IYP = 5 ZONE = 1  
 WEIGHT = 4247. FORCE = 56104.  
 CRUSH ENERGY= 354491. MASS FACTOR = 0.73  
 OCCUPANT ORAIS 2 SEATING POSITION 11  
 AGE = 27 SEX = 2 HEIGHT= 64 WEIGHT= 118

NCSS CASE NO. 680328078 8 AM TUE 28 MAR 1978  
 77 PASS CAR SPECIALTY/PONY PONTIAC 95206

1 CDC EXTENT TO LEFT SIDE FROM 110CLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V ANG SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 91 C1= 2 C2= 1 C3= 1 C4= 0 C5= 0 C6= 0 D=-45 ICOD= 1  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

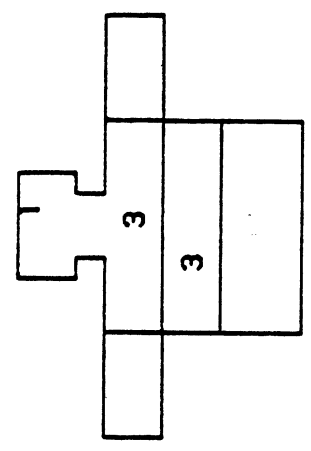
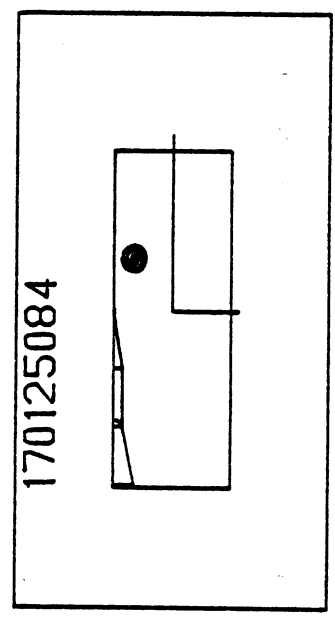
BODY REGION	HEAD-SKULL	HEAD-SKULL	KNEE
DIRECTION	WHOLE REGION	SUPERIOR/UPPER	LEFT
TYPE INJURY	CONCUSSION	LACERATION	CONTUSION
BODY ELEMENT	BRAIN	INTEGUMENTARY	JOINTS
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	SUNVISOR/FITTING	SUNVISOR/FITTING	INSTRUMENT PANEL



IXP = 80 IYP = 0 ZONE = 6  
 WEIGHT = 3053. FORCE = 37687.  
 CRUSH ENERGY= 119698. MASS FACTOR = 0.47  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 28 SEX = 2 HEIGHT= 61 WEIGHT= 122

NCSS CASE NO. 170125084 2 AM TUE 25 JAN 1977  
 75 PASS CAR MINI-SPECIALTY CHEVROLET 11304  
 3 CDC EXTENT TO LEFT SIDE FROM 100CLOCK  
 ORAIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 83 C1= 11 C2= 5 C3= 5 C4= 0 C5= 0 C6= 0 D=-41 ICOD= 1  
 LATERAL DELTA-V= 13 LONGITUDINAL DELTA-V= 8 DELTA-V = 15

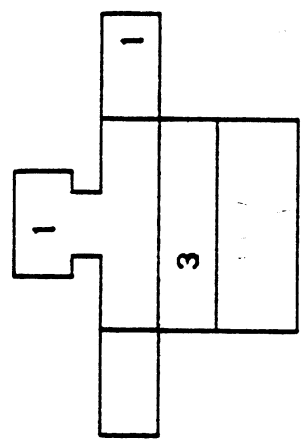
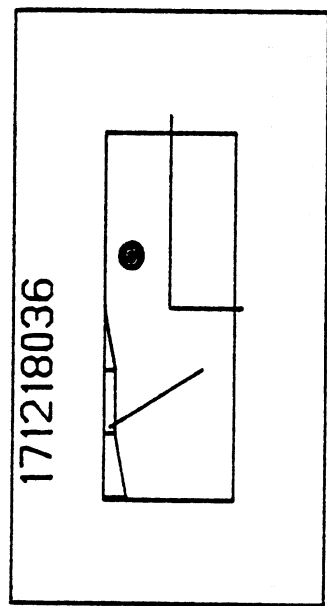
BODY REGION	ABDOMEN	CHEST	HEAD-SKULL
DIRECTION	LEFT	LEFT	WHOLE REGION
TYPE INJURY	CONTUSION	FRACTURE	CONCUSSION
BODY ELEMENT	KIDNEYS	SKELETAL	BRAIN
INJURY LEVEL	SEVERE AIS3	SEVERE AIS3	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 80 IYP = 5 ZONE = 6  
 WEIGHT = 2203. FORCE = 25571.  
 CRUSH ENERGY= 121038. MASS FACTOR = 0.37  
 OCCUPANT ORAIS 3 SEATING POSITION 11  
 AGE = 27 SEX = 1 HEIGHT= 70 WEIGHT= 175

NCCS CASE NO. 171218036 5 PM SUN 18 DEC 1977  
 71 PASS CAR SPECIALTY/PONY PONTIAC 13406  
 3 CDC EXTENT TO LEFT SIDE FROM 8 OCLOCK  
 OAIS= 3 RESTRAINT= NOT USED EJECT/TRAP= TRAPPED WEIGHING F= 1  
 A V/V SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 91 C1= 12 C2= 6 C3= 6 C4= 0 C5= 0 C6= 0 D=45 ICOD= 1  
 LATERAL DELTA-V= 18 LONGITUDINAL DELTA-V= 11 DELTA-V = 21

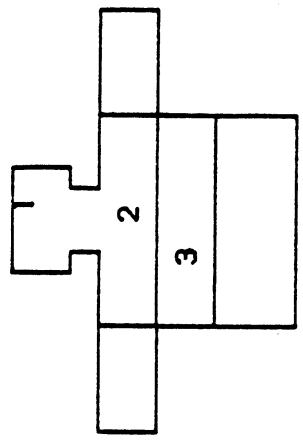
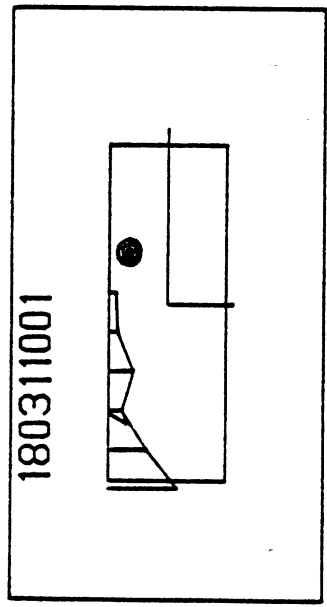
BODY REGION	ABDOMEN	HEAD-SKULL	WRIST-HAND
DIRECTION	UNKNOWN	POSTERIOR/BACK	LEFT
TYPE INJURY	CONTUSION	LACERATION	PAIN
BODY ELEMENT	KIDNEYS	INTEGUMENTARY	MUSCLES
INJURY LEVEL	SEVERE AIS3	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	SIDE INTERIOR	WINDOW GLASS	SIDE HARDWARE



IXP = 80 IYP = 5 ZONE = 6  
 WEIGHT = 3053. FORCE = 56804.  
 CRUSH ENERGY= 298171. MASS FACTOR = 0.72  
 OCCUPANT OAIS 3 SEATING POSITION 11  
 AGE = 23 SEX = 1 HEIGHT= 99 WEIGHT= 155

NCSS CASE NO. 180311001 2 AM SAT 11 MAR 1978  
 74 PASS CAR MINI-SPECIALTY CHEVROLET 12104  
 5 CDC EXTENT TO LEFT SIDE FROM 10OCLOCK  
 ORAIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 93 C1= 36 C2= 20 C3= 7 C4= 13 C5= 5 C6= 4 D--41 ICOD= 2  
 LATERAL DELTA-V= 20 LONGITUDINAL DELTA-V= 11 DELTA-V = 22

BODY REGION	ABDOMEN	CHEST	HEAD-SKULL
DIRECTION	LEFT	LEFT	WHOLE REGION
TYPE INJURY	CONTUSION	FRACTURE	CONCUSSION
BODY ELEMENT	KIDNEYS	SKELETAL	BRAIN
INJURY LEVEL	SEVERE AIS3	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	STEERING ASSEMBL	STEERING ASSEMBL	MIRRORS

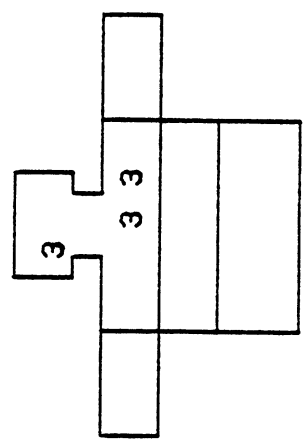
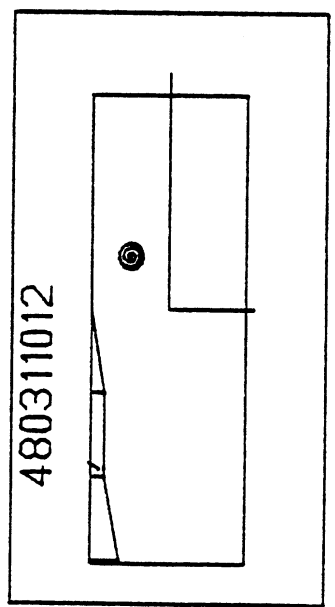


IXP = 82 IYP = 15 ZONE = 6  
 WEIGHT = 2203. FORCE = 59523.  
 CRUSH ENERGY= 685736. MASS FACTOR = 0.36  
 OCCUPANT ORAIS 3 SEATING POSITION 11  
 AGE = 24 SEX = 2 HEIGHT= 99 WEIGHT= 999



NCSS CASE NO. 480311012 11PM SAT 11 MAR 1978  
 73 PASS CAR FULL SIZE BUICK 12102  
 3 CDC EXTENT TO LEFT SIDE FROM 100CLOCK  
 OAIRS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH LUXURY CAR  
 L= 121 C1= 15 C2= 7 C3= 7 C4= 0 C5= 0 C6= 0 D=-60 ICOD= 1  
 LATERAL DELTA-V= 14 LONGITUDINAL DELTA-V= 2 DELTA-V = 14

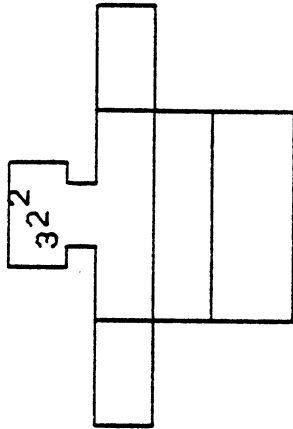
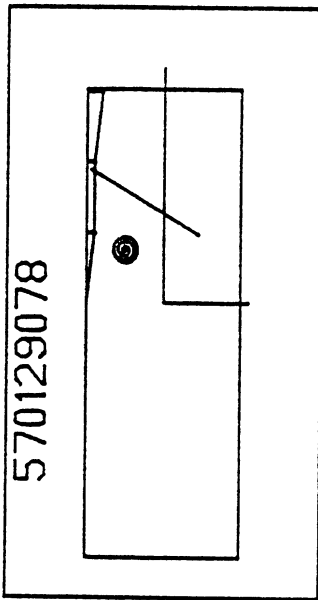
BODY REGION	HEAD-SKULL	CHEST	CHEST
DIRECTION	WHOLE REGION	LEFT	LEFT
TYPE INJURY	CONCUSSION	FRACTURE	OTHER
BODY ELEMENT	BRAIN	SKELETAL	PULMONARY
INJURY LEVEL	SEVERE AIS3	SEVERE AIS3	SEVERE AIS3
OBJECT CONTACTED	WINDOW GLASS	SIDE HARDWARE	SIDE HARDWARE



IXP = 79 IYP = 5 ZONE = 6  
 WEIGHT = 4865. FORCE = 71821.  
 CRUSH ENERGY= 500143. MASS FACTOR = 0.36  
 OCCUPANT OAIRS 3 SEATING POSITION 11  
 AGE = 51 SEX = 1 HEIGHT= 71 WEIGHT= 170

NCSS CASE NO. 570129078 9 PM SAT 29 JAN 1977  
 70 PASS CAR FULL SIZE BUICK 11502  
 2 CDC EXTENT TO LEFT SIDE FROM 100CLOCK  
 OAIS= 3 RESTRAINT= UNKNOWN EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 101 C1= 0 C2= 4 C3= 4 C4= 8 C5= 0 C6= 0 D= 50 ICOD= 1  
 LATERAL DELTA-V= 19 LONGITUDINAL DELTA-V= 11 DELTA-V = 22

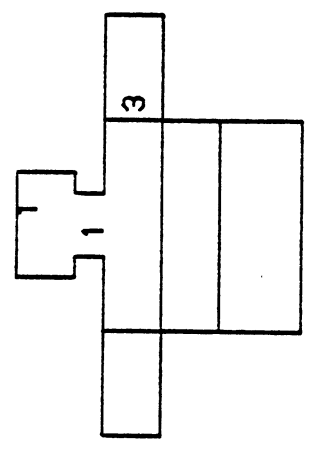
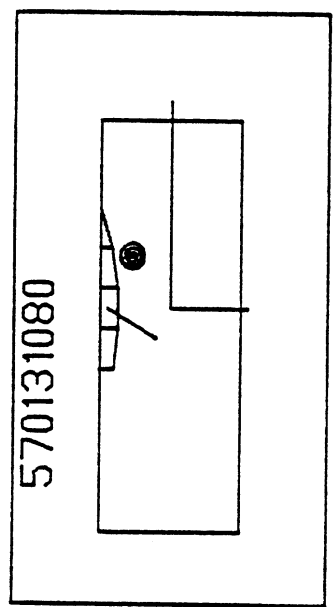
BODY REGION	FACE	HEAD-SKULL	FACE
DIRECTION	SUPERIOR/UPPER	WHOLE REGION	INFERIOR/LOWER
TYPE INJURY	LACERATION	CONCUSSION	LACERATION
BODY ELEMENT	INTEGUMENTARY	BRAIN	INTEGUMENTARY
INJURY LEVEL	SEVERE AIS3	MODERATE AIS2	MODERATE AIS2
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 17 IYP = 3 ZONE = 1  
 WEIGHT = 4865. FORCE = 42555.  
 CRUSH ENERGY= 201619. MASS FACTOR = 0.75  
 OCCUPANT OAIS 3 SEATING POSITION 11  
 AGE = 15 SEX = 1 HEIGHT= 68 WEIGHT= 130

NCSS CASE NO. 570131080 11AM MON 31 JAN 1977  
 77 PASS CAR SUPER SPORT CHRYSLER 11310  
 2 CDC EXTENT TO LEFT SIDE FROM 100CLOCK  
 OAIS= 3 RESTRAINT= UNKNOWN EJECT/TRAP= NONE WEIGHTING F= 4  
 A V/V SIDE TYPE CRASH WITH INTERMEDIATE CAR  
 L= 58 C1= 7 C2= 9 C3= 9 C4= 6 C5= 0 C6= 0 D= 0 ICOD= 2  
 LATERAL DELTA-V= 13 LONGITUDINAL DELTA-V= 3 DELTA-V = 13

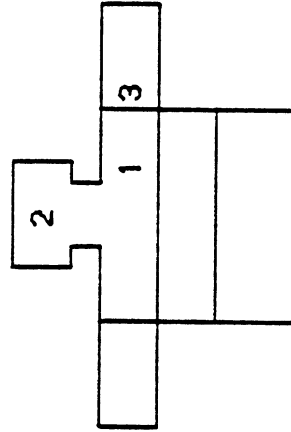
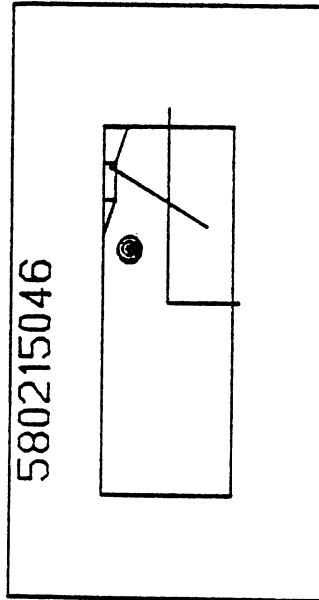
BODY REGION	SHOULDER	NECK	HEAD-SKULL
DIRECTION	LEFT	POSTERIOR/BACK	WHOLE REGION
TYPE INJURY	FRACTURE	PAIN	CONCUSSION
BODY ELEMENT	SKELETAL	MUSCLES	BRAIN
INJURY LEVEL	SEVERE AIS3	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 46 IYP = 5 ZONE = 4  
 WEIGHT = 3547, FORCE = 42836.  
 CRUSH ENERGY= 278681, MASS FACTOR = 0.93  
 OCCUPANT OAIS 3 SEATING POSITION 11  
 AGE = 28 SEX = 4 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 580215046 9 AM WED 15 FEB 1978  
 78 PASS CAR SPECIALTY/PONY PONTIAC 11306  
 3 CDC EXTENT TO LEFT SIDE FROM 100CLOCK  
 OAIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH LUXURY CAR  
 L= 52 C1= 0 C2= 6 C3= 6 C4= 12 C5= 0 C6= 0 D= 57 ICOD= 1  
 LATERAL DELTA-V= 9 LONGITUDINAL DELTA-V= 5 DELTA-V = 11

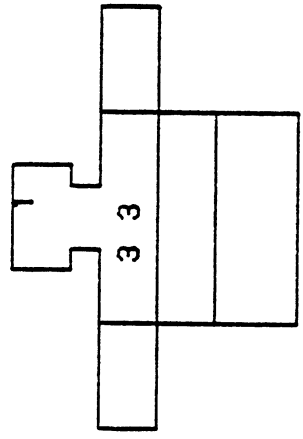
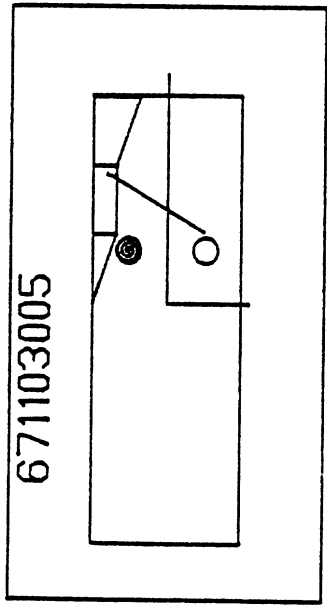
BODY REGION	SHOULDER	HEAD-SKULL	CHEST
DIRECTION	LEFT	WHOLE REGION	LEFT
TYPE INJURY	FRACTURE	CONCUSSION	PAIN
BODY ELEMENT	SKELETAL	BRAIN	MUSCLES
INJURY LEVEL	SEVERE AIS3	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 11 IYP = 5 ZONE = 1  
 WEIGHT = 3053. FORCE = 32459.  
 CRUSH ENERGY= 170383. MASS FACTOR = 0.64  
 OCCUPANT OAIS 3 SEATING POSITION 11  
 AGE = 27 SEX = 4 HEIGHT= 62 WEIGHT= 107

NCSS CASE NO. 671103005 5 PM THU 3 NOV 1977  
 73 PASS CAR INTERMEDIATE UNKNOWN 11401  
 4 CDC EXTENT TO LEFT SIDE FROM 100CLOCK  
 OAIRS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 98 C1= 0 C2= 12 C3= 12 C4= 24 C5= 0 C6= 0 D= 49 ICOD= 1  
 LATERAL DELTA-V= 25 LONGITUDINAL DELTA-V= 14 DELTA-V = 28

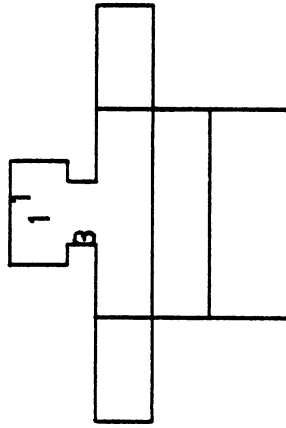
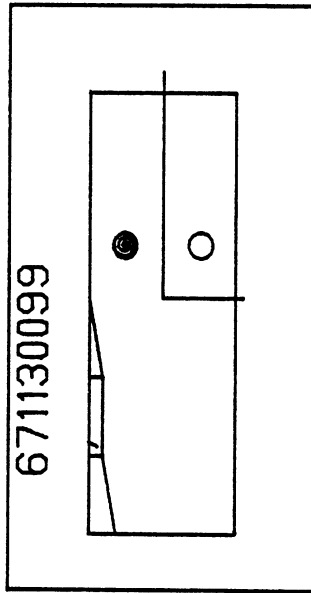
BODY REGION	CHEST	CHEST	HEAD-SKULL
DIRECTION	LEFT	LEFT	SUPERIOR/UPPER
TYPE INJURY	OTHER	FRACTURE	LACERATION
BODY ELEMENT	PULMONARY	SKELETAL	INTEGUMENTARY
INJURY LEVEL	SEVERE AIS3	SEVERE AIS3	MINOR AIS1
OBJECT CONTACTED	SIDE INTERIOR	SIDE INTERIOR	WINDOW GLASS



IXP = 17 IYP = 9 ZONE = 1  
 WEIGHT = 4247. FORCE = 84620.  
 CRUSH ENERGY= 830226. MASS FACTOR = 0.71  
 OCCUPANT OAIRS 3 SEATING POSITION 11  
 AGE = 34 SEX = 2 HEIGHT= 63 WEIGHT= 100

NCSS CASE NO. 671130099 6 AM WED 30 NOV 1977  
 77 WAGON INTERMEDIATE UNKNOWN 11101  
 3 CDC EXTENT TO LEFT SIDE FROM 100CLOCK  
 ORAIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH COMPACT CAR  
 L= 114 C1= 14 C2= 7 C3= 7 C4= 0 C5= 0 C6= 0 D=-57 ICOD= 1  
 LATERAL DELTA-V= 14 LONGITUDINAL DELTA-V= 8 DELTA-V = 16

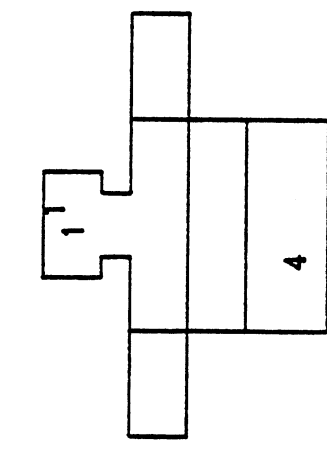
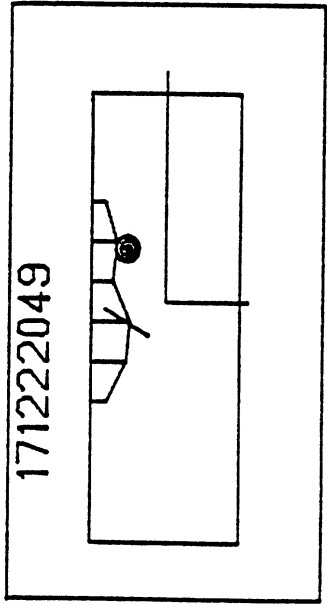
BODY REGION	NECK	FACE	HEAD-SKULL
DIRECTION	POSTERIOR/BACK	SUPERIOR/UPPER	SUPERIOR/UPPER
TYPE INJURY	FRACTURE	LACERATION	LACERATION
BODY ELEMENT	VERTEBRAE	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	SEVERE AIS3	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	WINDOW GLASS	WINDOW GLASS



IXP = 80 IYP = 5 ZONE = 6  
 WEIGHT = 4247. FORCE = 65264.  
 CRUSH ENERGY= 412367. MASS FACTOR = 0.37  
 OCCUPANT ORAIS 3 SEATING POSITION 11  
 AGE = 34 SEX = 2 HEIGHT= 65 WEIGHT= 120

NCSS CASE NO. 171222049 8 PM THU 22 DEC 1977  
 70 WAGON INTERMEDIATE UNKNOWN 12101  
 3 CDC EXTENT TO LEFT SIDE FROM 100CLOCK  
 OAIS= 4 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH COMPACT CAR  
 L= 95 C1= 8 C2= 18 C3= 20 C4= 11 C5= 13 C6= 7 D= 0 ICOD= 2  
 LATERAL DELTA-V= 22 LONGITUDINAL DELTA-V= 13 DELTA-V = 26

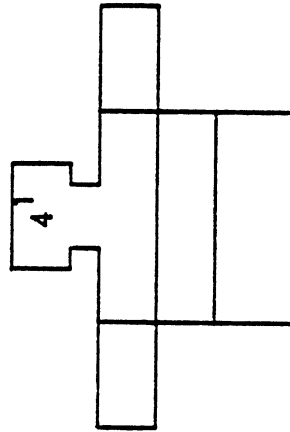
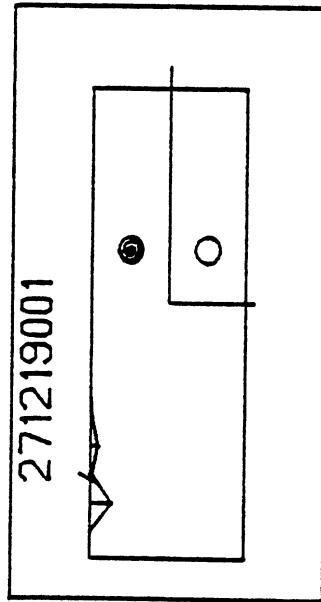
BODY REGION	LEG	HEAD-SKULL	FACE
DIRECTION	LEFT	WHOLE REGION	WHOLE REGION
TYPE INJURY	FRACTURE	CONCUSSION	LACERATION
BODY ELEMENT	SKELETAL	BRAIN	INTEGUMENTARY
INJURY LEVEL	SERIOUS AIS4	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	SIDE ARMRESTS	A-PILLAR	A-PILLAR



IXP = 48 IYP = 9 ZONE = 4  
 WEIGHT = 4247. FORCE = 92534.  
 CRUSH ENERGY= 936895. MASS FACTOR = 0.92  
 OCCUPANT OAIS 4 SEATING POSITION 11  
 AGE = 20 SEX = 1 HEIGHT= 61 WEIGHT= 165

NCSS CASE NO. 271219001 2 PM MON 19 DEC 1977  
 72 PASS CAR FULL SIZE BUICK 11402  
 3 CDC EXTENT TO LEFT SIDE FROM 100CLOCK  
 OAIS= 4 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH SUB-COMPACT CAR  
 L= 69 C1= 0 C2= 11 C3= 1 C4= 4 C5= 1 C6= 0 D=75 ICOD= 2  
 LATERAL DELTA-V= 9 LONGITUDINAL DELTA-V= 5 DELTA-V = 10

BODY REGION	HEAD-SKULL	FACE
DIRECTION	WHOLE REGION	SUPERIOR/UPPER
TYPE INJURY	CONCUSSION	LACERATION
BODY ELEMENT	BRAIN	INTEGUMENTARY
INJURY LEVEL	INJURED/UNK SEV	MINOR AIS1
OBJECT CONTACTED	WINDSHIELD	WINDSHIELD

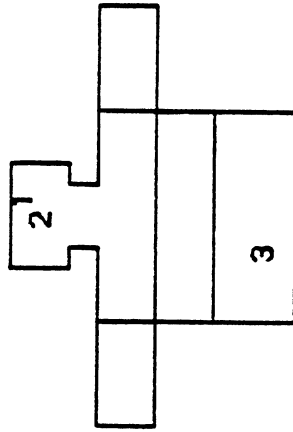
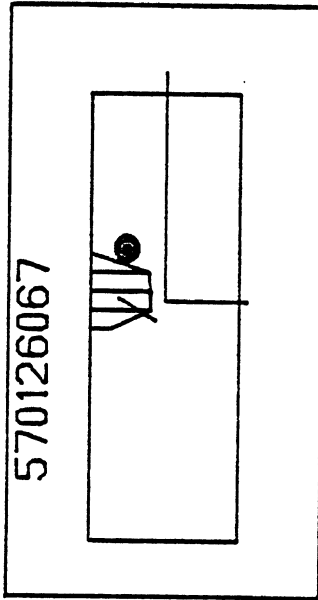


IXP = 83 IYP = 3 ZONE = 6  
 WEIGHT = 4865. FORCE = 26821.  
 CRUSH ENERGY= 128527. MASS FACTOR = 0.32  
 OCCUPANT OAIS 4 SEATING POSITION 11  
 AGE = 72 SEX = 1 HEIGHT= 63 WEIGHT= 137



NCSS CASE NO. 570126067 5 PM WED 26 JAN 1977  
 72 PASS CAR INTERMEDIATE UNKNOWN 12101  
 4 CDC EXTENT TO LEFT SIDE FROM 100CLOCK  
 ORAIS= 4 RESTRAINT= UNKNOWN EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH INTERMEDIATE CAR  
 L= 27 C1= 10 C2= 31 C3= 31 C4= 30 C5= 0 C6= 0 D= 0 ICOD= 2  
 LATERAL DELTA-V= 16 LONGITUDINAL DELTA-V= 4 DELTA-V = 16

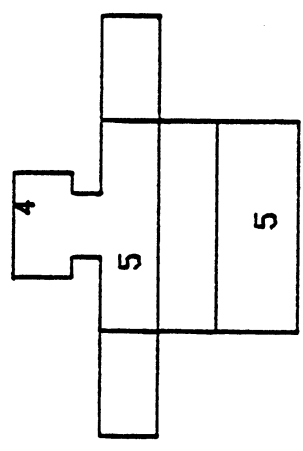
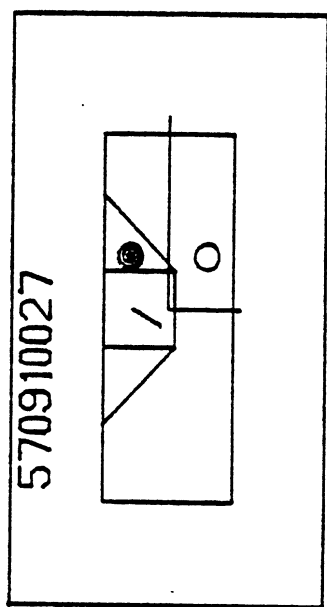
BODY REGION	PELVIC-HIP	HEAD-SKULL	HEAD-SKULL
DIRECTION	ANTERIOR/FRONT	WHOLE REGION	POSTERIOR/BACK
TYPE INJURY	FRACTURE	CONCUSSION	LACERATION
BODY ELEMENT	SKELETAL	BRAIN	INTEGUMENTARY
INJURY LEVEL	SEVERE AIS3	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 45 IYP = 18 ZONE = 4  
 WEIGHT = 4247. FORCE = 47407.  
 CRUSH ENERGY= 858111. MASS FACTOR = 0.97  
 OCCUPANT ORAIS 4 SEATING POSITION 11  
 AGE = 19 SEX = 2 HEIGHT= 64 WEIGHT= 125

NCSS CASE NO. 570910027 8 AM SAT 10 SEP 1977  
 76 PASS CAR SUB-COMP/USA CHEVY/CANADA 11318  
 6 CDC EXTENT TO LEFT SIDE FROM 100CLOCK  
 ORIS= 5 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH LUXURY CAR  
 L= 109 C1= 0 C2= 37 C3= 37 C4= 0 C5= 0 C6= 0 D= 0 ICOD= 1  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

BODY REGION	CHEST	BACK	HEAD-SKULL
DIRECTION	CENTRAL	SUPERIOR/UPPER	POSTERIOR/BACK
TYPE INJURY	RUPTURE	FRACTURE	CONTUSION
BODY ELEMENT	HEART	VERTEBRAE	BRAIN
INJURY LEVEL	CRITICAL AISS	CRITICAL AIS5	SERIOUS AIS4
OBJECT CONTACTED	SIDE INTERIOR	SIDE INTERIOR	LOOSE OBJECTS



IXP = 47 IYP = 22 ZONE = 4  
 WEIGHT = 3053. FORCE = 224743.  
 CRUSH ENERGY= 4210911. MASS FACTOR = 0.97  
 OCCUPANT ORIS 5 SEATING POSITION 11  
 AGE = 57 SEX = 1 HEIGHT= 65 WEIGHT= 150

NCSS CASE NO. 780212017 3 AM SUN 12 FEB 1978

77 PASS CAR SPECIALTY/PONY PONTIAC 12106

4 CDC EXTENT TO LEFT SIDE FROM 100CLOCK

OAIS= 6 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1

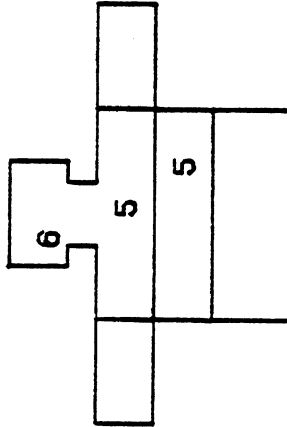
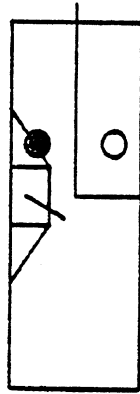
A V/V SIDE TYPE CRASH WITH INTERMEDIATE CAR

L= 83 C1= 0 C2= 20 C3= 20 C4= 0 C5= 0 C6= 0 D= 0 ICOD= 1

LATERAL DELTA-V= 22 LONGITUDINAL DELTA-V= 6 DELTA-V = 22

BODY REGION	HEAD-SKULL	CHEST	ABDOMEN
DIRECTION	INFERIOR/LOWER	CENTRAL	RIGHT
TYPE INJURY	LACERATION	LACERATION	LACERATION
BODY ELEMENT	BRAIN	ARTERIES	LIVER
INJURY LEVEL	MAXIMUM-FATAL	CRITICAL AISS	CRITICAL AISS
OBJECT CONTACTED	ROOF SIDERAIL	SIDE HARDWARE	SIDE ARMRESTS

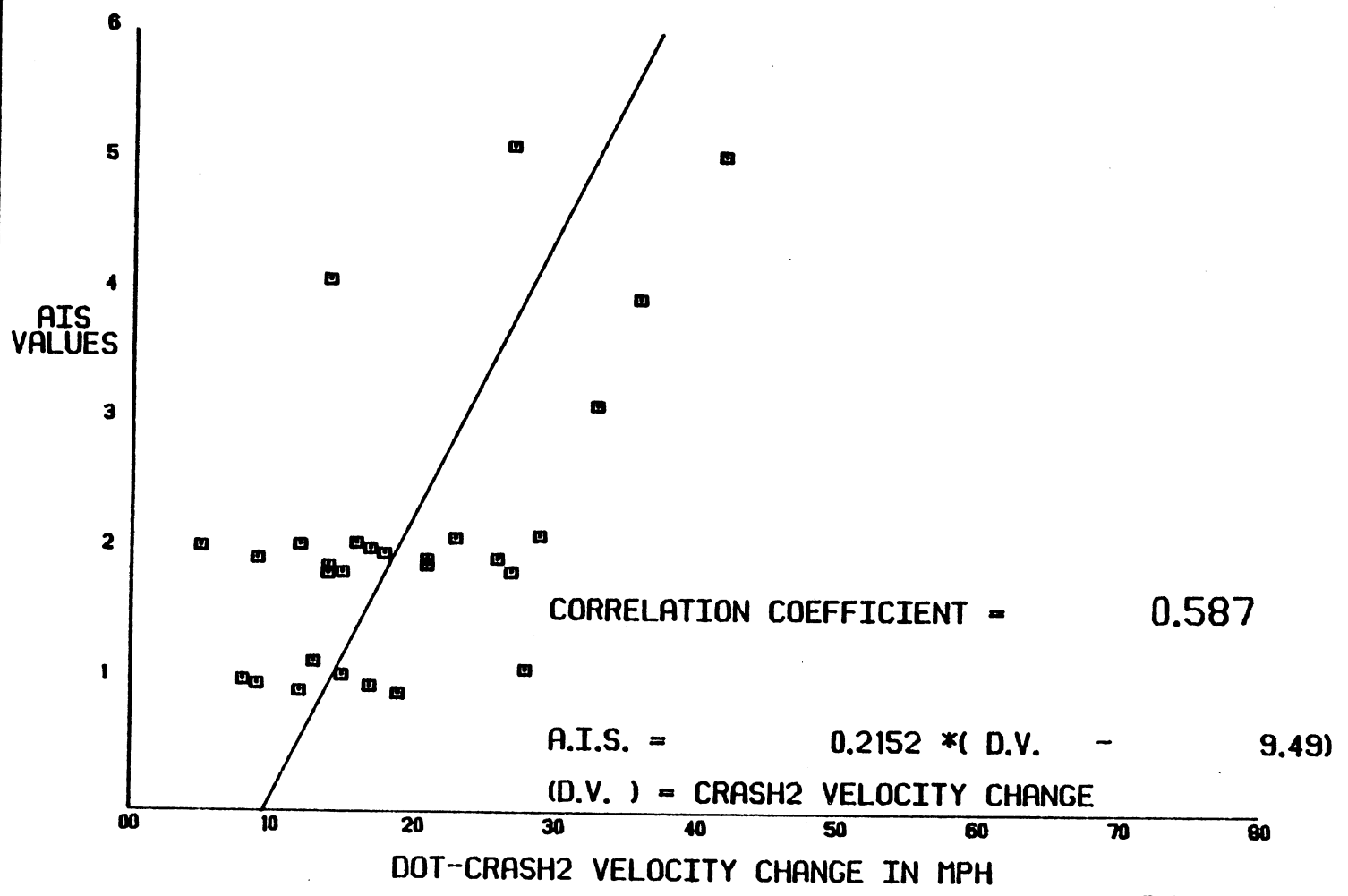
780212017



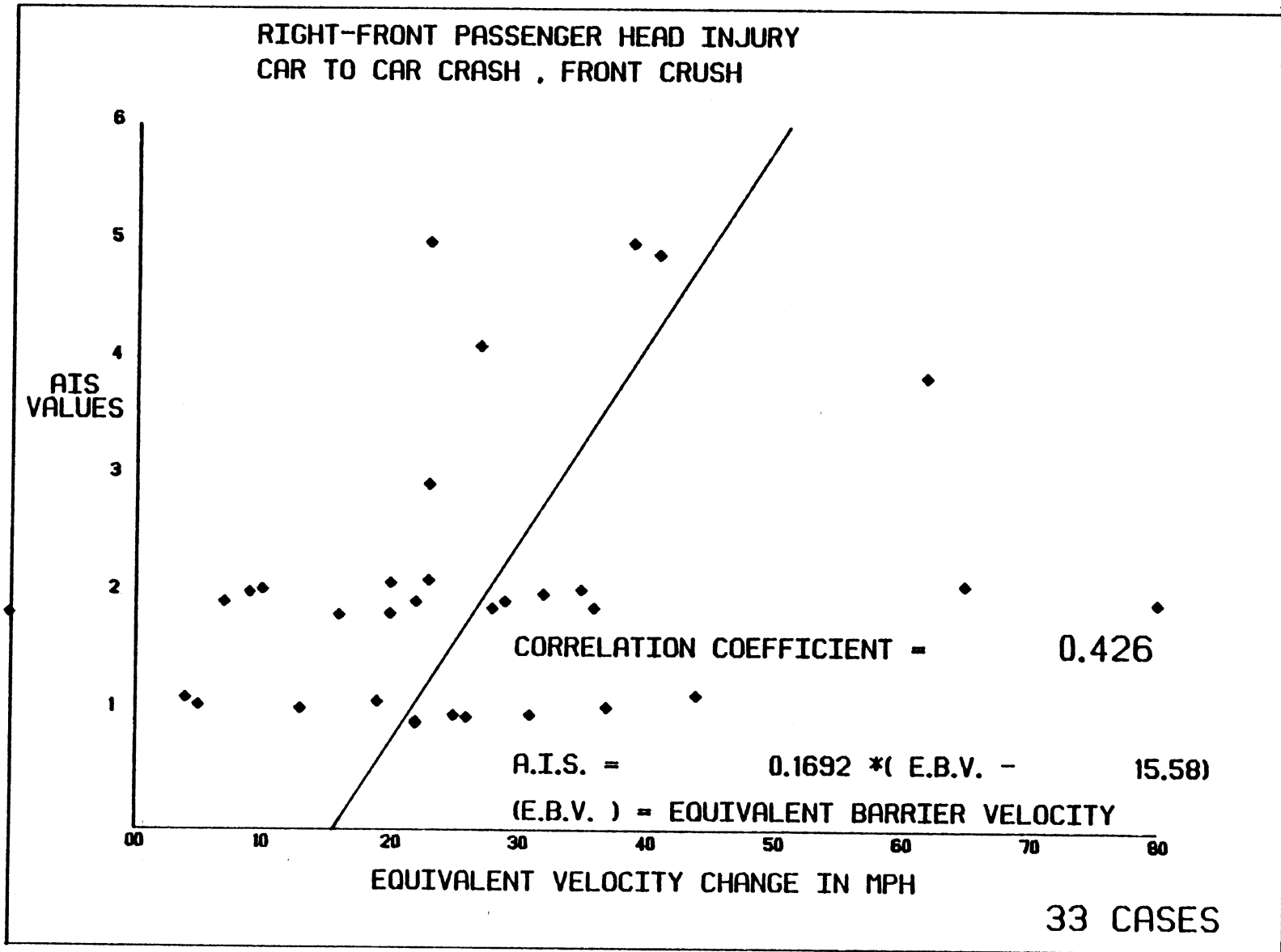
IXP = 47 IYP = 12 ZONE = 4  
 WEIGHT = 3053. FORCE = 98687.  
 CRUSH ENERGY= 1043634. MASS FACTOR = 0.95  
 OCCUPANT OAIS 6 SEATING POSITION 11  
 AGE = 55 SEX = 2 HEIGHT= 62 WEIGHT= 115

RIGHT-FRONT PASSENGER HEAD INJURY		CAR TO CAR CRASH, FRONT CRUSH			EQUIVALENT BARRIER SPEED		DOT-CRASH2 DELTA-V	
VEHICLE CODE	NCSS CASE	LEVEL INJURY	TYPE INJURY	OBJECT CONTACTED	PEAK DECELERATION	EQUIVALENT BARRIER SPEED	DOT-CRASH2 DELTA-V	
11302	170505013	2	ATIS CONCUSSION	UNKNOWN	14 G	28 MPH	15 MPH	
12102	170715035	2	ATIS CONCUSSION	UNKNOWN	10 G	20 MPH	14 MPH	
12202	170924050	2	ATIS CONCUSSION	INSTRUMENT PANEL	15 G	22 MPH	23 MPH	
11302	171211027	1	ATIS CONTUSION	WINDSHIELD	6 G	22 MPH	12 MPH	
13202	180122039	2	ATIS CONCUSSION	MIRRORS	11 G	25 MPH	26 MPH	
11502	180217037	1	ATIS CONTUSION	MIRRORS				
11101	180311040	1	ATIS CONTUSION	HARDWARE ITEMS	4 G	9 MPH	9 MPH	
11302	370420043	2	ATIS CONCUSSION	WINDSHIELD	16 G	26 MPH	17 MPH	
12202	370529059	8	ATIS CONCUSSION	UNKNOWN	18 G	33 MPH	15 MPH	
13408	470209032	1	ATIS CONCUSSION	UNKNOWN	10 G	22 MPH	17 MPH	
86109	471020045	1	ATIS CONCUSSION	WINDSHIELD	20 G	19 MPH	19 MPH	
11507	471102004	1	ATIS PAIN	WINDSHIELD	10 G	13 MPH	0 MPH	
11307	480211018	2	ATIS CONCUSSION	UNKNOWN	22 G	32 MPH	28 MPH	
11308	5711110021	1	ATIS CONCUSSION	WINDSHIELD	2 G	5 MPH	5 MPH	
14118	580207030	1	ATIS CONCUSSION	WINDSHIELD	2 G	7 MPH	8 MPH	
11408	671203006	2	ATIS CONCUSSION	SUNVISOR/FITTING	8 G	10 MPH	16 MPH	
12102	671212033	2	ATIS CONCUSSION	INSTRUMENT PANEL	22 G	44 MPH	0 MPH	
13408	680310037	1	ATIS CONCUSSION	WINDSHIELD	11 G	23 MPH	0 MPH	
75119	270528042	2	ATIS CONCUSSION	WINDSHIELD	29 G	37 MPH	0 MPH	
11308	271008035	1	ATIS CONCUSSION	UNKNOWN	3 G	4 MPH	15 MPH	
13202	370917060	1	ATIS PAIN	MIRRORS	6 G	23 MPH	13 MPH	
62209	470131030	3	ATIS CONCUSSION	A-PILLAR	20 G	36 MPH	33 MPH	
11302	570501001	2	ATIS CONCUSSION	UNKNOWN	13 G	20 MPH	12 MPH	
66219	571220042	2	ATIS CONCUSSION	UNKNOWN	21 G	31 MPH	29 MPH	
11102	580124066	1	ATIS CONCUSSION	WINDSHIELD	19 G	29 MPH	0 MPH	
12101	671017065	2	ATIS CONCUSSION	WINDSHIELD	6 G	16 MPH	9 MPH	
11401	671103006	2	ATIS CONCUSSION	WINDSHIELD	31 G	65 MPH	21 MPH	
11302	180203004	2	ATIS CONCUSSION	WINDSHIELD	21 G	35 MPH	27 MPH	
11506	370526071	1	ATIS LACERATION	WINDSHIELD	18 G	27 MPH	18 MPH	
13208	471115022	2	ATIS CONCUSSION	MIRRORS	64 G	80 MPH	36 MPH	
12101	271002044	4	ATIS CONTUSION	UNKNOWN	164 G	62 MPH	14 MPH	
11403	271117027	4	ATIS CONCUSSION	UNKNOWN	13 G	23 MPH	14 MPH	
11506	470918025	5	ATIS CONCUSSION	INSTRUMENT PANEL	16 G	41 MPH	0 MPH	
11205	671228083	5	ATIS FRACTURE	WINDSHIELD	34 G	39 MPH	42 MPH	
		5	ATIS CONTUSION	A-PILLAR	12 G	27 MPH	27 MPH	

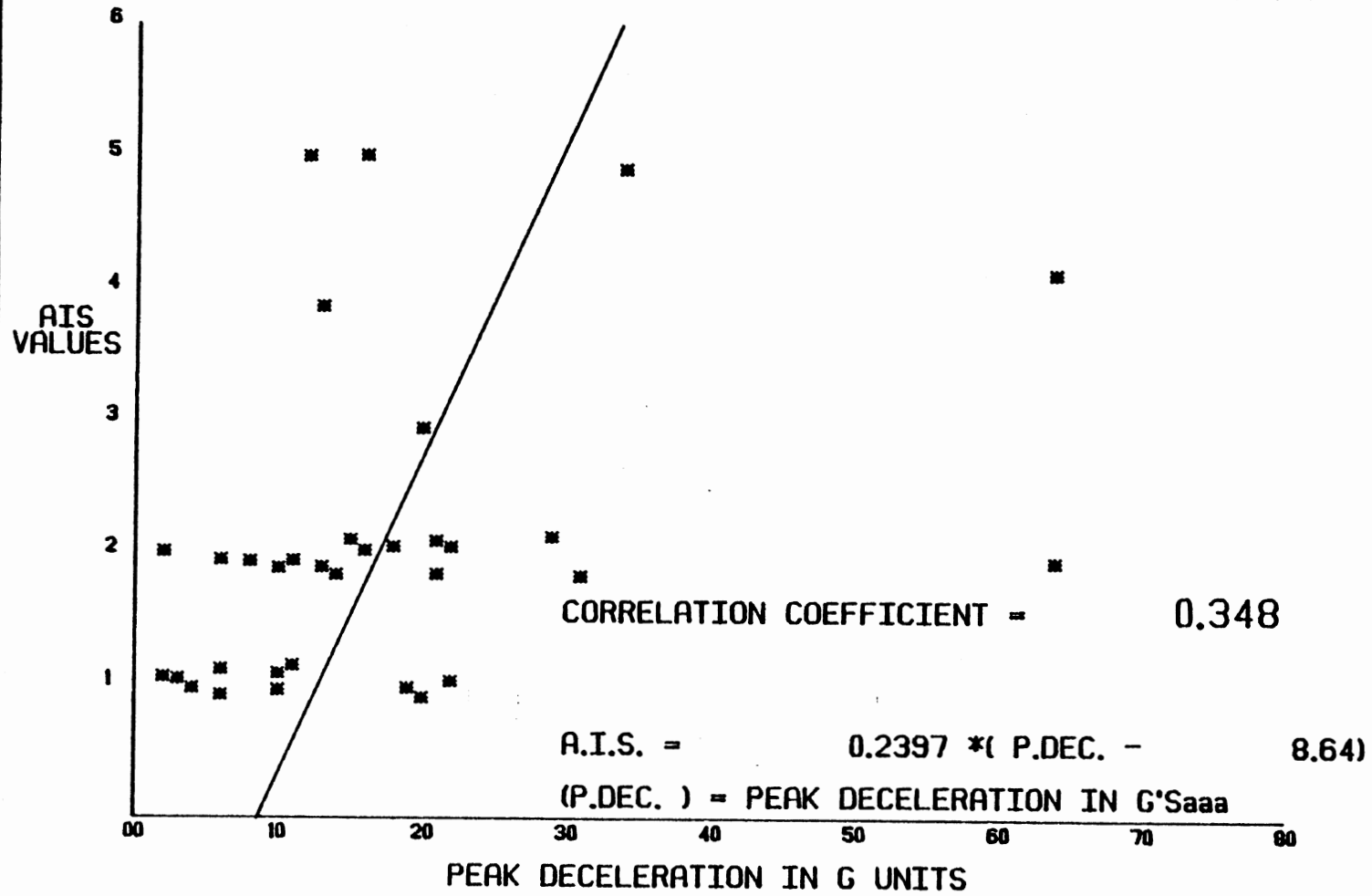
### RIGHT-FRONT PASSENGER HEAD INJURY CAR TO CAR CRASH , FRONT CRUSH



28 CASES



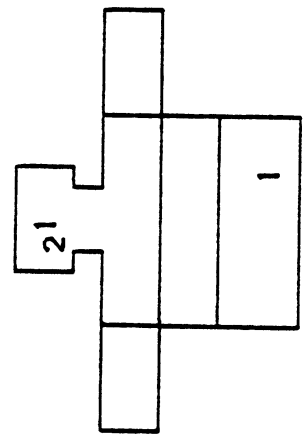
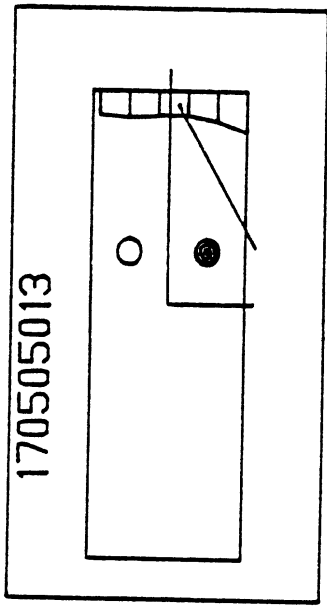
### RIGHT-FRONT PASSENGER HEAD INJURY CAR TO CAR CRASH , FRONT CRUSH



33 CASES

NCSS CASE NO. 170505013 3 PM THU 5 MAY 1977  
 75 PASS CAR FULL SIZE BUICK 11302  
 2 CDC EXTENT TO FRONT SIDE FROM 110CLOCK WEIGHTING F= 1  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE  
 A V/V SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 76 C1= 12 C2= 13 C3= 12 C4= 12 C5= 15 C6= 20 D= 2 ICOD= 2  
 LATERAL DELTA-V= 8 LONGITUDINAL DELTA-V= 13 DELTA-V = 15

BODY REGION	HEAD-SKULL	FACE	KNEE
DIRECTION	WHOLE REGION	INFERIOR/LOWER	UNKNOWN
TYPE INJURY	CONCUSSION	ABRASION	CONTUSION
BODY ELEMENT	BRAIN	INTEGUMENTARY	JOINTS
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN

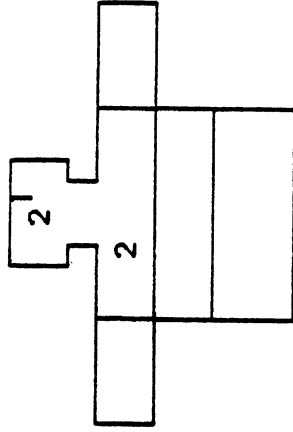
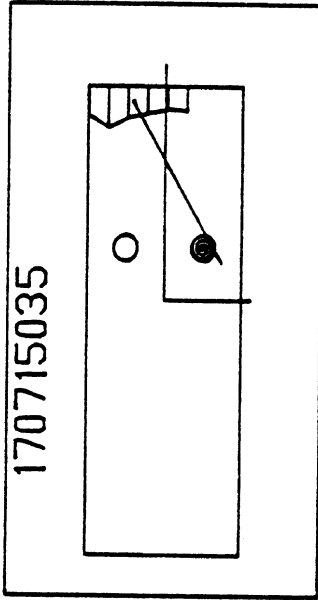


IXP = 3 IYP = 55 ZONE = 2  
 WEIGHT = 4865. FORCE = 71012.  
 CRUSH ENERGY= 907983. MASS FACTOR = 0.59  
 OCCUPANT ORAIS 2 SEATING POSITION 13  
 AGE = 44 SEX = 4 HEIGHT= 64 WEIGHT= 120



NCSS CASE NO. 170715035 10PM FRI 15 JUL 1977  
 75 PASS CAR FULL SIZE BUICK 12102  
 2 CDC EXTENT TO FRONT SIDE FROM 110CLOCK  
 OAIRS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH INTERMEDIATE CAR  
 L= 51 C1= 14 C2= 20 C3= 15 C4= 13 C5= 11 C6= 12 D=-14 ICOD= 2  
 LATERAL DELTA-V= 7 LONGITUDINAL DELTA-V= 12 DELTA-V = 14

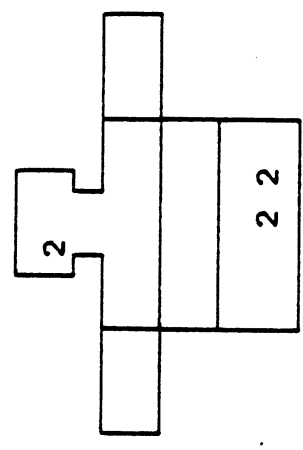
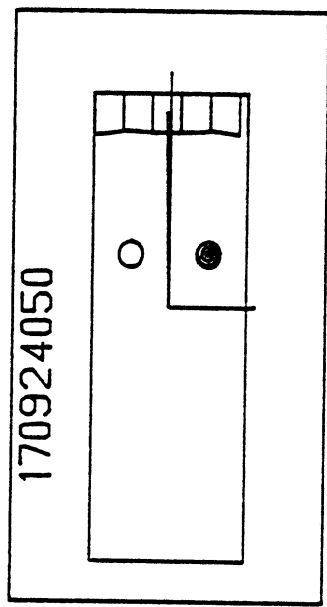
BODY REGION	CHEST	HEAD-SKULL	FACE
DIRECTION	LEFT	WHOLE REGION	SUPERIOR/UPPER
TYPE INJURY	FRACTURE	CONCUSSION	LACERATION
BODY ELEMENT	SKELETAL	BRAIN	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 3 IYP = 29 ZONE = 1  
 WEIGHT = 4865. FORCE = 49391.  
 CRUSH ENERGY= 657470. MASS FACTOR = 0.77  
 OCCUPANT OAIRS 2 SEATING POSITION 13  
 AGE = 60 SEX = 2 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 170924050 4 PM SAT 24 SEP 1977  
 77 PASS CAR FULL SIZE BUICK 12202  
 2 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 75 C1= 20 C2= 18 C3= 19 C4= 19 C5= 18 C6= 20 D= -2 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 23 DELTA-V = 23

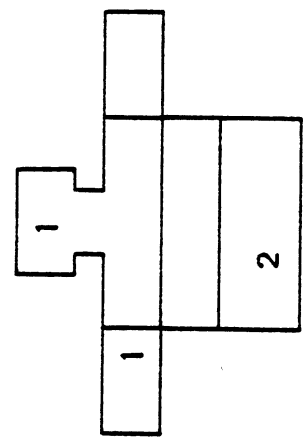
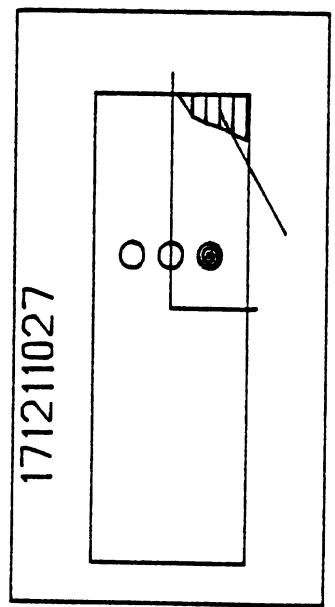
BODY REGION	HEAD-SKULL	KNEE	LEG
DIRECTION	WHOLE REGION	RIGHT	RIGHT
TYPE INJURY	CONCUSSION	AVULSION	AVULSION
BODY ELEMENT	BRAIN	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MODERATE AIS2
OBJECT CONTACTED	INSTRUMENT PANEL	GLOVE COMPARTMEN	HARDWARE ITEMS



IXP = 4 IYP = 47 ZONE = 2  
 WEIGHT = 4865. FORCE = 75077.  
 CRUSH ENERGY= 1018947. MASS FACTOR = 1.00  
 OCCUPANT ORAIS 2 SEATING POSITION 13  
 AGE = 47 SEX = 2 HEIGHT= 68 WEIGHT= 170

NCSS CASE NO. 171211027 9 PM SUN 11 DEC 1977  
 70 PASS CAR FULL SIZE BUICK 11302  
 2 CDC EXTENT TO FRONT SIDE FROM 110CLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 4  
 A V/V SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 35 C1= 1 C2= 11 C3= 14 C4= 16 C5= 19 C6= 22 D= 21 ICOD= 2  
 LATERAL DELTA-V= 6 LONGITUDINAL DELTA-V= 11 DELTA-V = 12

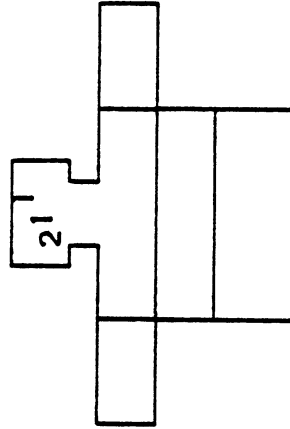
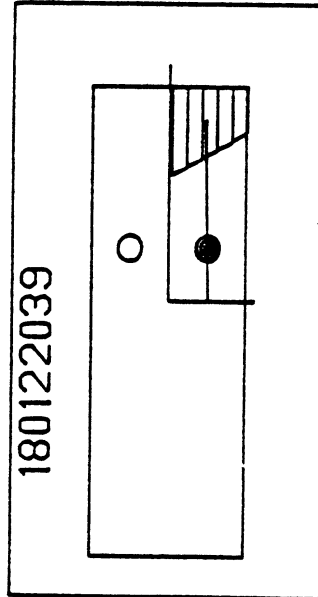
BODY REGION	ANKLE-FOOT	HEAD-SKULL	WRIST-HAND
DIRECTION	RIGHT	SUPERIOR/UPPER	RIGHT
TYPE INJURY	SPRAIN	CONTUSION	CONTUSION
BODY ELEMENT	JOINTS	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	FLOOR	WINDSHIELD	HARDWARE ITEMS



IXP = 3 IYP = 80 ZONE = 3  
 WEIGHT = 4865. FORCE = 33747.  
 CRUSH ENERGY= 463771. MASS FACTOR = 0.46  
 OCCUPANT ORAIS 2 SEATING POSITION 13  
 AGE = 30 SEX = 2 HEIGHT= 64 WEIGHT= 999

NCSS CASE NO. 180122039 2 PM SUN 22 JAN 1978  
 70 PASS CAR FULL SIZE BUICK 13202  
 4 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH COMPACT CAR  
 L= 39 C1= 42 C2= 38 C3= 34 C4= 30 C5= 26 C6= 21 D= 21 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 26 DELTA-V = 26

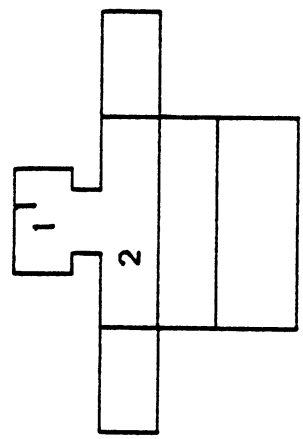
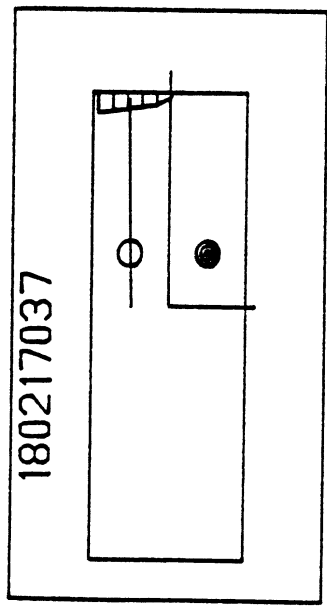
BODY REGION	HEAD-SKULL	FACE	HEAD-SKULL
DIRECTION	WHOLE REGION	CENTRAL	SUPERIOR/UPPER
TYPE INJURY	CONCUSSION	FRACTURE	CONTUSION
BODY ELEMENT	BRAIN	RESPIRATORY	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	MIRRORS	MIRRORS	MIRRORS



IXP = 7 IYP = 73 ZONE = 3  
 WEIGHT = 4865. FORCE = 57887.  
 CRUSH ENERGY= 1189830. MASS FACTOR = 0.91  
 OCCUPANT OAIS 2 SEATING POSITION 13  
 AGE = 17 SEX = 1 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 180217037 3 PM FRI 17 FEB 1978  
 70 PASS CAR FULL SIZE BUICK 11502  
 1 CDC EXTENT TO FRONT SIDE FROM 120CLOCK WEIGHTING F= 4  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE  
 A CHAIN CRASH TYPE CRASH WITH COMPACT CAR  
 L= 38 C1= 10 C2= 9 C3= 8 C4= 7 C5= 6 C6= 2 D=18 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 9 DELTA-V = 9

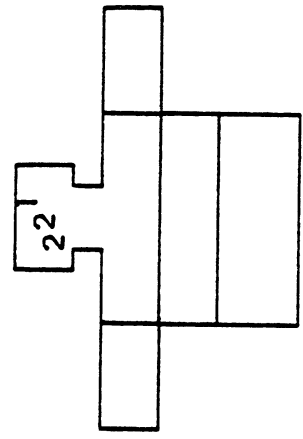
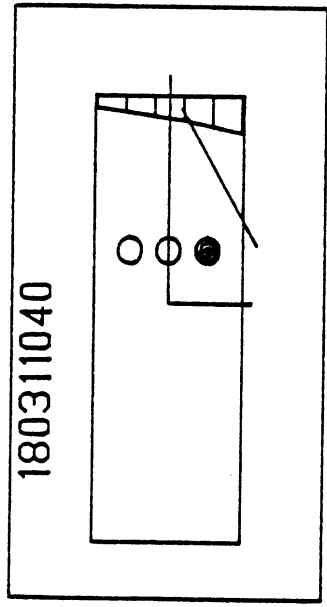
BODY REGION	CHEST	HEAD-SKULL	FACE
DIRECTION	LEFT	WHOLE REGION	CENTRAL
TYPE INJURY	FRACTURE	CONTUSION	LACERATION
BODY ELEMENT	SKELETAL	INTEGUMENTARY	RESPIRATORY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	INSTRUMENT PANEL	HARDWARE ITEMS	WINDSHIELD



IXP = 1 IYP = 23 ZONE = 1  
 WEIGHT = 4865. FORCE = 21778.  
 CRUSH ENERGY= 171897. MASS FACTOR = 0.92  
 OCCUPANT OAIS 2 SEATING POSITION 13  
 AGE = 70 SEX = 2 HEIGHT= 62 WEIGHT= 140

NCCS CASE NO. 180311040 7 PM SAT 11 MAR 1978  
 74 PASS CAR INTERMEDIATE UNKNOWN 11101  
 2 CDC EXTENT TO FRONT SIDE FROM 110CLOCK WEIGHTING F= 1  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE  
 A V/V SIDE TYPE CRASH WITH LUXURY CAR  
 L= 75 C1= 6 C2= 8 C3= 10 C4= 12 C5= 15 C6= 18 D= 0 ICOD= 2  
 LATERAL DELTA-V= 8 LONGITUDINAL DELTA-V= 15 DELTA-V = 17

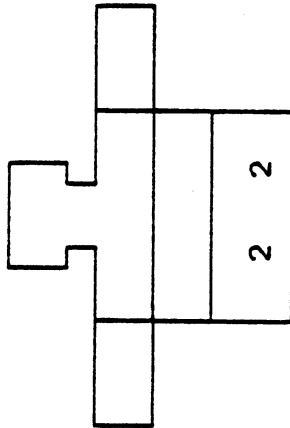
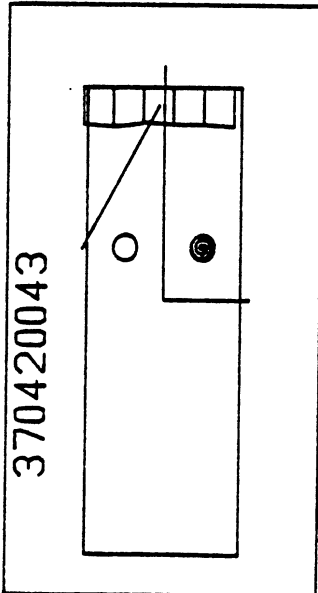
BODY REGION	FACE	HEAD-SKULL	FACE
DIRECTION	SUPERIOR/UPPER	WHOLE REGION	WHOLE REGION
TYPE INJURY	CONTUSION	CONCUSSION	LACERATION
BODY ELEMENT	INTEGUMENTARY	BRAIN	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	WINDSHIELD	WINDSHIELD	WINDSHIELD



IXP = 2 IYP = 58 ZONE = 2  
 WEIGHT = 4247. FORCE = 69502.  
 CRUSH ENERGY= 674404. MASS FACTOR = 0.57  
 OCCUPANT ORAIS 2 SEATING POSITION 13  
 AGE = 60 SEX = 2 HEIGHT= 63 WEIGHT= 140

NCSS CASE NO. 370420043 2 PM WED 20 APL 1977  
 75 PASS CAR FULL SIZE BUICK 11302  
 2 CDC EXTENT TO FRONT SIDE FROM 1 OCLOCK WEIGHTING F= 1  
 OAIRS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE  
 A V/V SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 78 C1= 18 C2= 19 C3= 17 C4= 18 C5= 18 C6= 19 D= -3 ICOD= 2  
 LATERAL DELTA-V= 8 LONGITUDINAL DELTA-V= 13 DELTA-V = 15

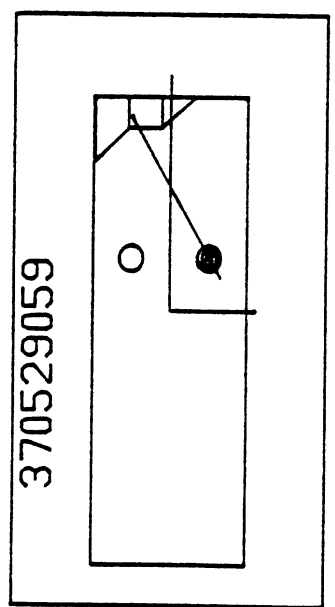
BODY REGION	THIGH	HEAD-SKULL	ANKLE-FOOT
DIRECTION	RIGHT	WHOLE REGION	RIGHT
TYPE INJURY	FRACTURE	CONCUSSION	SPRAIN
BODY ELEMENT	SKELETAL	BRAIN	JOINTS
INJURY LEVEL	MODERATE AIS2	INJURED/UNK SEV	MODERATE AIS2
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 4 IYP = 46 ZONE = 2  
 WEIGHT = 4865. FORCE = 87832.  
 CRUSH ENERGY= 1341001. MASS FACTOR = 0.63  
 OCCUPANT OAIRS 2 SEATING POSITION 13  
 AGE = 67 SEX = 1 HEIGHT= 72 WEIGHT= 175

NCSS CASE NO. 370529059 3 PM SUN 29 MAY 1977  
 73 PASS CAR FULL SIZE BUICK 12202  
 3 CDC EXTENT TO FRONT SIDE FROM 110CLOCK  
 ORIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH FULL-SIZE CAR  
 L= 52 C1= 31 C2= 15 C3= 15 C4= 0 C5= 0 C6= 0 D=13 ICOD= 1  
 LATERAL DELTA-V= 5 LONGITUDINAL DELTA-V= 17 DELTA-V = 17

BODY REGION	WRIST-HAND	HEAD-SKULL	FACE
DIRECTION	LEFT	WHOLE REGION	SUPERIOR/UPPER
TYPE INJURY	FRACTURE	CONCUSSION	CONCUSSION
BODY ELEMENT	SKELETAL	BRAIN	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN

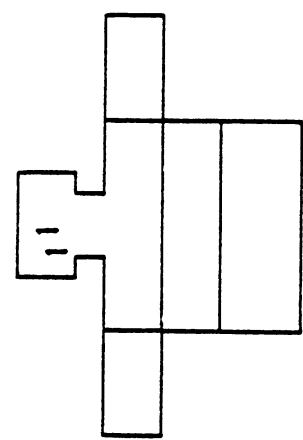
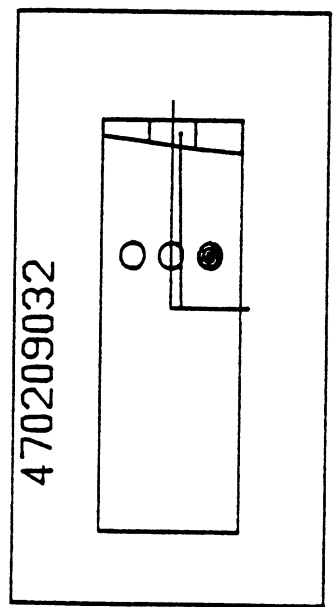


IXP = 4 IYP = 25 ZONE = 1  
 WEIGHT = 4865. FORCE = 52057.  
 CRUSH ENERGY= 774658. MASS FACTOR = 0.81  
 OCCUPANT ORIS 2 SEATING POSITION 13  
 AGE = 53 SEX = 2 HEIGHT= 68 WEIGHT= 120



NCSS CASE NO. 470209032 9 PM WED 9 FEB 1977  
 72 PASS CAR COMPACT FORD 13408  
 2 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH LUXURY CAR  
 L= 72 C1= 8 C2= 11 C3= 14 C4= 16 C5= 0 C6= 0 D= 0 ICOD= 1  
 LATERAL DELTA-V= 3 LONGITUDINAL DELTA-V= 18 DELTA-V = 19

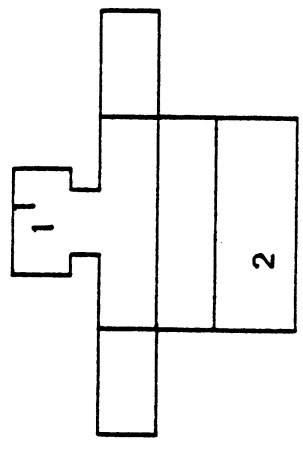
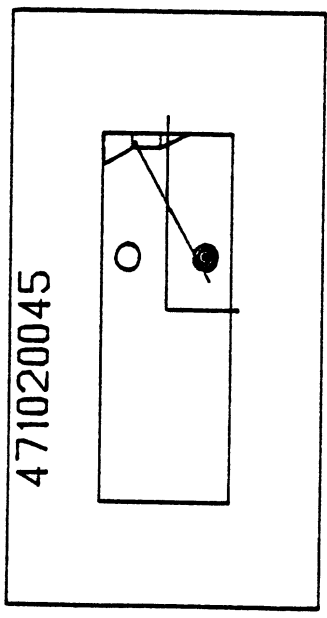
BODY REGION	HEAD-SKULL	FACE	UNKNOWN
DIRECTION	WHOLE REGION	WHOLE REGION	UNKNOWN
TYPE INJURY	CONCUSSION	LACERATION	OTHER
BODY ELEMENT	BRAIN	INTEGUMENTARY	MISSING
INJURY LEVEL	MINOR AISI	MINOR AISI	INJURED/UNK SEV
OBJECT CONTACTED	WINDSHIELD	WINDSHIELD	MISSING



IXP = 3 IYP = 55 ZONE = 2  
 WEIGHT = 3547. FORCE = 72865.  
 CRUSH ENERGY= 544535. MASS FACTOR = 0.99  
 OCCUPANT ORIS 2 SEATING POSITION 13  
 AGE = 21 SEX = 1 HEIGHT= 73 WEIGHT= 175

NCSS CASE NO. 471020045 7 AM THU 20 OCT 1977  
 72 PASS CAR SUB-COMP/IMPORT MERCURY 86109  
 2 CDC EXTENT TO FRONT SIDE FROM 110CLOCK  
 ORIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 4  
 A V/V HEAD ON TYPE CRASH WITH INTERMEDIATE CAR  
 L= 44 C1= 15 C2= 7 C3= 7 C4= 0 C5= 0 C6= 0 D=-11 ICOD= 1  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

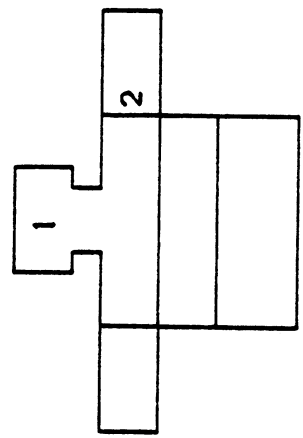
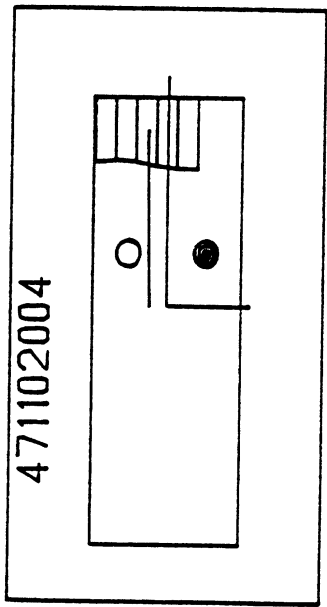
BODY REGION	ANKLE-FOOT	FACE	HEAD-SKULL
DIRECTION	LEFT	CENTRAL	SUPERIOR/UPPER
TYPE INJURY	SPRAIN	LACERATION	PAIN
BODY ELEMENT	JOINTS	RESPIRATORY	MUSCLES
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	WINDSHIELD	WINDSHIELD



IXP = 2 IYP = 24 ZONE = 1  
 WEIGHT = 3053. FORCE = 30713.  
 CRUSH ENERGY= 176867. MASS FACTOR = 0.81  
 OCCUPANT ORIS 2 SEATING POSITION 13  
 AGE = 20 SEX = 2 HEIGHT= 67 WEIGHT= 200

NCSS CASE NO. 471102004 MIDN MED 2 NOV 1977  
 75 PASS CAR SPECIALTY/INTERM GMC TRUCK 11507  
 3 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH SUB-COMPACT CAR  
 L= 53 C1= 31 C2= 30 C3= 31 C4= 33 C5= 34 C6= 34 D=-11 ICOD= 2  
 LATERAL DELTA-V= 7 LONGITUDINAL DELTA-V= 27 DELTA-V = 28

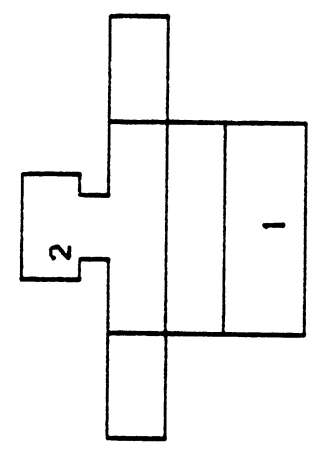
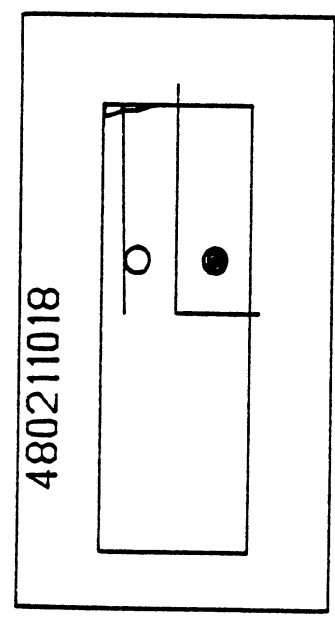
BODY REGION	SHOULDER	HEAD-SKULL	UNKNOWN
DIRECTION	LEFT	WHOLE REGION	UNKNOWN
TYPE INJURY	FRACTURE	LACERATION	OTHER
BODY ELEMENT	SKELETAL	INTEGUMENTARY	MISSING
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	INJURED/UNK SEV
OBJECT CONTACTED	GLOVE COMPARTMENT	WINDSHIELD	MISSING



IXP = 7 IYP = 36 ZONE = 2  
 WEIGHT = 4247. FORCE = 97281.  
 CRUSH ENERGY= 1792142. MASS FACTOR = 0.98  
 OCCUPANT ORAIS 2 SEATING POSITION 13  
 AGE = 20 SEX = 2 HEIGHT= 64 WEIGHT= 115

NCSS CASE NO. 480211018 9 PM SAT 11 FEB 1978  
 77 PASS CAR SPECIALTY/INTERM GMC TRUCK 11307  
 1 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V REAR TYPE CRASH WITH INTERMEDIATE CAR  
 L= 25 C1= 6 C2= 3 C3= 3 C4= 0 C5= 0 C6= 0 D=-25 ICOD= 1  
 LATERAL DELTA-V= 1 LONGITUDINAL DELTA-V= 4 DELTA-V = 5

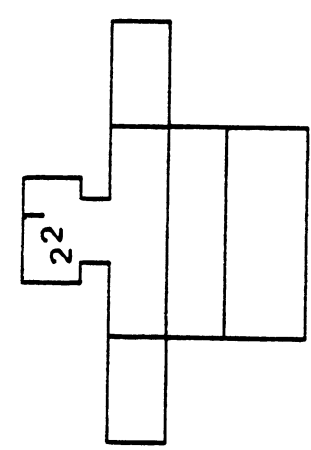
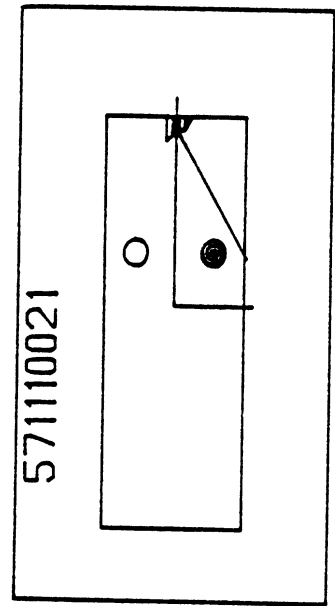
BODY REGION	HEAD-SKULL	PELVIC-HIP	UNKNOWN
DIRECTION	WHOLE REGION	RIGHT	UNKNOWN
TYPE INJURY	CONCUSSION	PAIN	OTHER
BODY ELEMENT	BRAIN	MUSCLES	MISSING
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	INJURED/UNK SEV
OBJECT CONTACTED	UNKNOWN	AC/VENT DUCT	MISSING



IXP = 0 IYP = 13 ZONE = 1  
 WEIGHT = 4247. FORCE = 9585.  
 CRUSH ENERGY= 38070. MASS FACTOR = 0.84  
 OCCUPANT ORAIS 2 SEATING POSITION 13  
 AGE = 23 SEX = 1 HEIGHT= 66 WEIGHT= 130

NCSS CASE NO. 571110021 7 PM THU 10 NOV 1977 11308  
 77 PASS CAR COMPACT FORD  
 1 CDC EXTENT TO FRONT SIDE FROM 11OCLOCK WEIGHTING F= 1  
 OAIRS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE  
 A V/V SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 10 C1= 12 C2= 9 C3= 7 C4= 6 C5= 0 C6= 0 D= 0 ICOD= 2  
 LATERAL DELTA-V= 4 LONGITUDINAL DELTA-V= 7 DELTA-V = 8

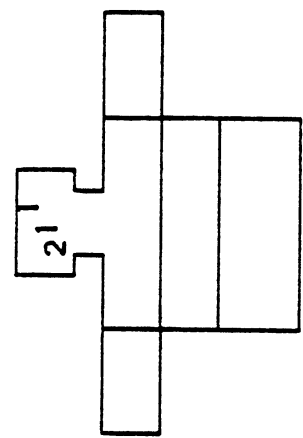
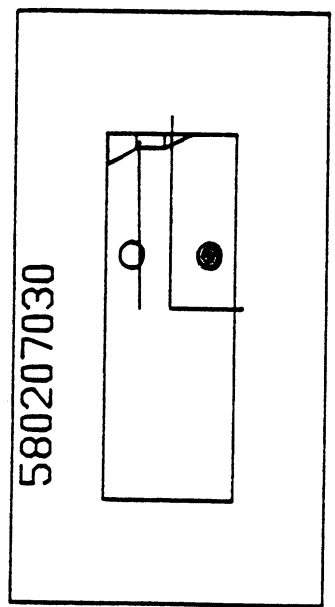
BODY REGION	FACE	FACE	HEAD-SKULL
DIRECTION	INFERIOR/LOWER	RIGHT	WHOLE REGION
TYPE INJURY	FRACTURE	FRACTURE	CONCUSSION
BODY ELEMENT	SKELETAL	SKELETAL	BRAIN
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	WINDSHIELD	WINDSHIELD	WINDSHIELD



IXP = 2 IYP = 49 ZONE = 2  
 WEIGHT = 3547. FORCE = 8475.  
 CRUSH ENERGY = 53094. MASS FACTOR = 0.64  
 OCCUPANT OAIRS 2 SEATING POSITION 13  
 AGE = 16 SEX = 1 HEIGHT = 65 WEIGHT = 120

NCSS CASE NO. 580207030 11AM TUE 7 FEB 1978  
 72 PASS CAR SUB-COMP/USA CHEVY/CANADA 14118  
 2 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 4  
 A V/V REAR TYPE CRASH WITH COMPACT CAR  
 L= 44 C1= 15 C2= 7 C3= 7 C4= 0 C5= 0 C6= 0 D=-11 ICOD= 1  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 16 DELTA-V = 16

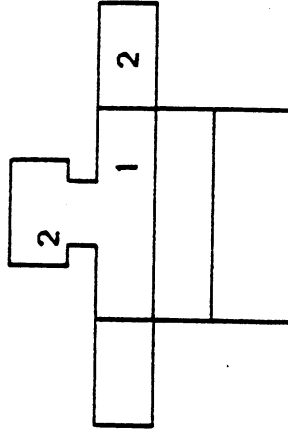
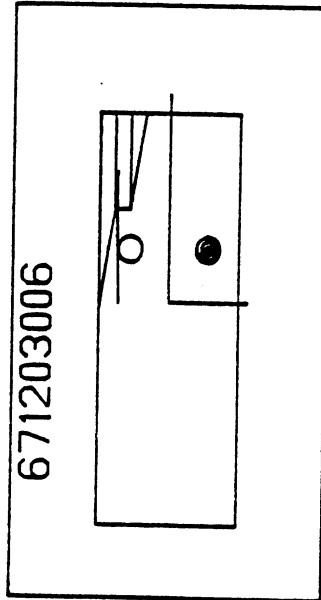
BODY REGION	HEAD-SKULL	FACE	FACE
DIRECTION	WHOLE REGION	SUPERIOR/UPPER	LEFT
TYPE INJURY	CONCUSSION	LACERATION	LACERATION
BODY ELEMENT	BRAIN	INTEGUMENTARY	EYES,EARS
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	SUNVISOR/FITTING	SUNVISOR/FITTING	SUNVISOR/FITTING



IXP = 2 IYP = 24 ZONE = 1  
 WEIGHT = 3053. FORCE = 26599.  
 CRUSH ENERGY= 132657. MASS FACTOR = 0.93  
 OCCUPANT OAIS 2 SEATING POSITION 13  
 AGE = 22 SEX = 2 HEIGHT= 67 WEIGHT= 126

NCSS CASE NO. 671203006 9 AM SAT 3 DEC 1977  
 76 PASS CAR COMPACT FORD 11408  
 9 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 ORIS= 2 RESTRAINT= NOT USED EJECT/TRAP= UNKNOWN WEIGHTING F= 1  
 A V/V ANG FRONT TYPE CRASH WITH INTERMEDIATE CAR  
 L= 24 C1= 93 C2= 46 C3= 46 C4= 0 C5= 0 C6= 0 D=-24 ICOD= 1  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

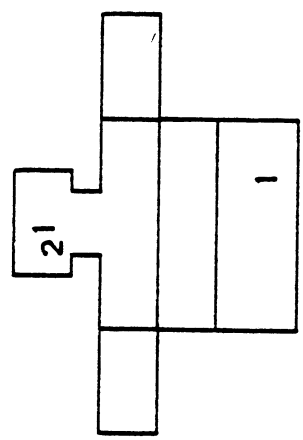
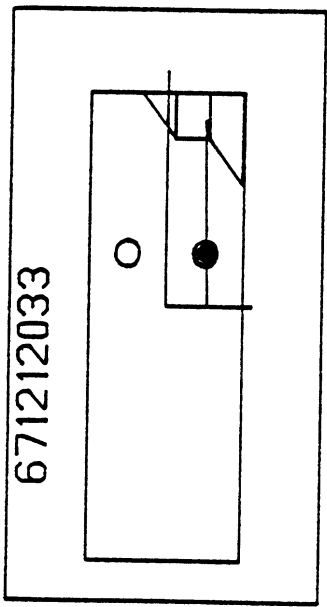
BODY REGION	HEAD-SKULL	WRIST-HAND	CHEST
DIRECTION	SUPERIOR/UPPER	LEFT	WHOLE REGION
TYPE INJURY	CONCUSSION	SPRAIN	CONTUSION
BODY ELEMENT	BRAIN	JOINTS	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	INSTRUMENT PANEL	INSTRUMENT PANEL	INSTRUMENT PANEL



IXP = 14 IYP = 12 ZONE = 1  
 WEIGHT = 3547. FORCE = 80739.  
 CRUSH ENERGY= 2354362. MASS FACTOR = 0.83  
 OCCUPANT ORIS 2 SEATING POSITION 13  
 AGE = 49 SEX = 2 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 671212033 10PM MON 12 DEC 1977  
 74 PASS CAR FULL SIZE BUICK 12102  
 4 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= TRAPPED WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH COMPACT CAR  
 L= 52 C1= 0 C2= 22 C3= 22 C4= 44 C5= 0 C6= 0 D= 13 ICOD= 1  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

BODY REGION	FACE	HEAD-SKULL	LEG
DIRECTION	RIGHT	WHOLE REGION	BILATERAL
TYPE INJURY	LACERATION	CONCUSSION	ABRASION
BODY ELEMENT	INTEGUMENTARY	BRAIN	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	WINDSHIELD	WINDSHIELD	GLOVE COMPARTMEN

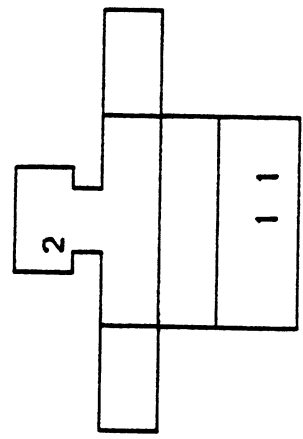
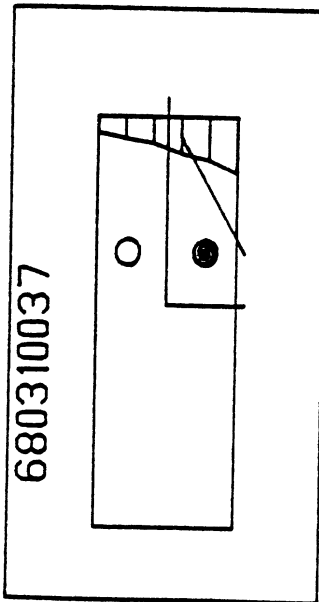


IXP = 6 IYP = 74 ZONE = 3  
 WEIGHT = 4865. FORCE = 58192.  
 CRUSH ENERGY= 985806. MASS FACTOR = 0.90  
 OCCUPANT ORAIS 2 SEATING POSITION 13  
 AGE = 48 SEX = 1 HEIGHT= 68 WEIGHT= 170



NCSS CASE NO. 680310037 7 AM FRI 10 MAR 1978  
 75 PASS CAR COMPACT FORD 13408  
 3 CDC EXTENT TO FRONT SIDE FROM 11OCLOCK  
 ORIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH INTERMEDIATE CAR  
 L= 72 C1= 8 C2= 11 C3= 13 C4= 18 C5= 21 C6= 27 D= 0 ICOD= 2  
 LATERAL DELTA-V= 10 LONGITUDINAL DELTA-V= 18 DELTA-V = 21

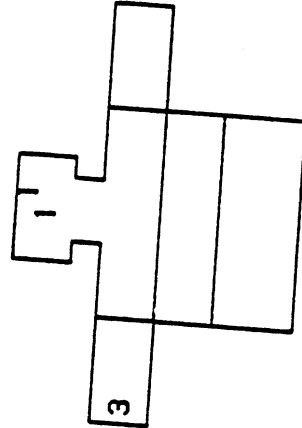
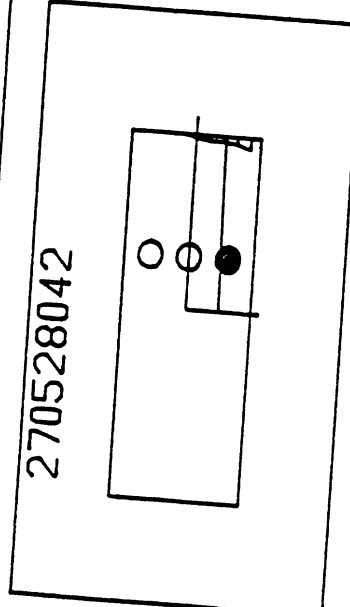
BODY REGION	HEAD-SKULL	KNEE	LEG
DIRECTION	SUPERIOR/UPPER	BILATERAL	RIGHT
TYPE INJURY	CONCUSSION	ABRASION	LACERATION
BODY ELEMENT	BRAIN	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	WINDSHIELD	GLOVE COMPARTMEN	HEATER/AC DUCT



IXP = 4 IYP = 59 ZONE = 2  
 WEIGHT = 3547. FORCE = 105905.  
 CRUSH ENERGY= 1214883. MASS FACTOR = 0.60  
 OCCUPANT ORIS 2 SEATING POSITION 13  
 AGE = 23 SEX = 2 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 270528042 1 PM SAT 28 MAY 1977  
 74 PASS CAR FOREIGN SPORTS PONTIAC/CANADA 75119  
 3 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORAIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE  
 A V/V HEAD ON TYPE CRASH WITH INTERMEDIATE CAR  
 L= 35 C1= 0 C2= 2 C3= 3 C4= 3 C5= 4 C6= 6 D= 11 ICOD= 2  
 LATERAL DELTA-V= 7 LONGITUDINAL DELTA-V= 13 DELTA-V = 15  
 WEIGHTING F= 4

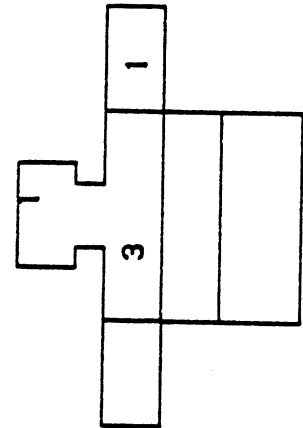
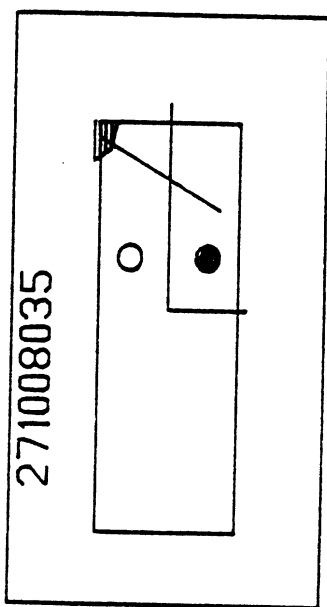
BODY REGION	FOREARM	HEAD-SKULL	FACE
DIRECTION	RIGHT	WHOLE REGION	SUPERIOR/UPPER
TYPE INJURY	FRACTURE	CONCUSSION	CONTOUSION
BODY ELEMENT	SKELETAL	BRAIN	INTEGUMENTARY
INJURY LEVEL	SEVERE AIS3	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 1 IYP = 72 ZONE = 3  
 WEIGHT = 3053. FORCE = 10788.  
 CRUSH ENERGY = 25702. MASS FACTOR = 0.91  
 OCCUPANT ORAIS 3 SEATING POSITION 13  
 AGE = 29 SEX = 1 HEIGHT = 99 WEIGHT = 999

NCSS CASE NO. 271008035 1 PM SAT 8 OCT 1977  
 75 PASS CAR COMPACT FORD 11308  
 2 CDC EXTENT TO FRONT SIDE FROM 100CLOCK  
 OAIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 4  
 A V/V ANG SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 9 C1= 19 C2= 17 C3= 15 C4= 13 C5= 0 C6= 0 D=-35 ICOD= 2  
 LATERAL DELTA-V= 12 LONGITUDINAL DELTA-V= 7 DELTA-V = 13

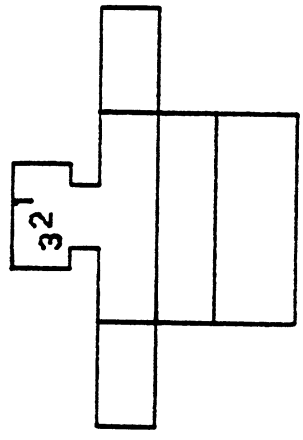
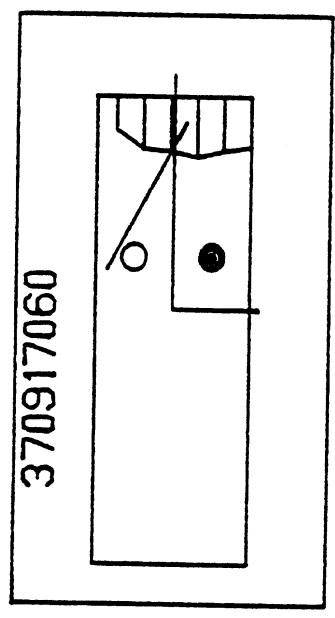
BODY REGION	CHEST	ARM	HEAD-SKULL
DIRECTION	LEFT	LEFT	SUPERIOR/UPPER
TYPE INJURY	FRACTURE	ABRASION	PAIN
BODY ELEMENT	SKELETAL	INTEGUMENTARY	MUSCLES
INJURY LEVEL	SEVERE AIS3	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	INSTRUMENT PANEL	INSTRUMENT PANEL	MIRRORS



IXP = 4 IYP = 1 ZONE = 1  
 WEIGHT = 3547. FORCE = 22802.  
 CRUSH ENERGY= 419227. MASS FACTOR = 0.53  
 OCCUPANT OAIS 3 SEATING POSITION 13  
 AGE = 41 SEX = 2 HEIGHT= 62 WEIGHT= 120

NCSS CASE NO. 370917060 7 PM SAT 17 SEP 1977 13202  
 70 PASS CAR FULL SIZE BUICK  
 3 CDC EXTENT TO FRONT SIDE FROM 1 OCLOCK  
 ORIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH LUXURY CAR  
 L= 69 C1= 16 C2= 25 C3= 26 C4= 29 C5= 26 C6= 24 D= 5 ICOD= 2  
 LATERAL DELTA-V= 9 LONGITUDINAL DELTA-V= 32 DELTA-V = 33

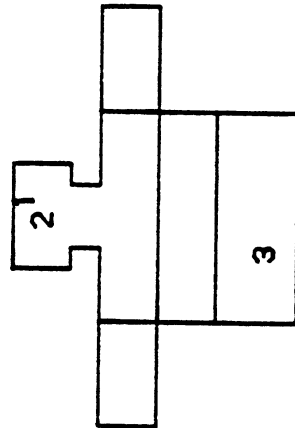
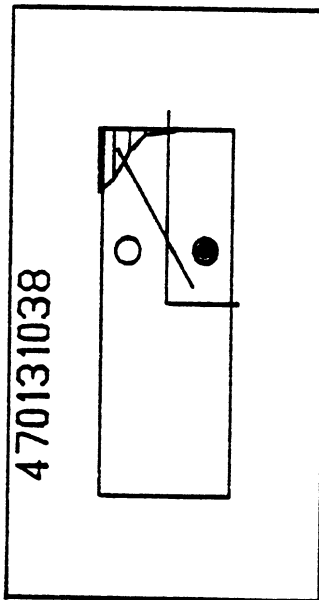
BODY REGION	HEAD-SKULL	FACE	FACE
DIRECTION	WHOLE REGION	BILATERAL	SUPERIOR/UPPER
TYPE INJURY	CONCUSSION	FRACTURE	LACERATION
BODY ELEMENT	BRAIN	SKELETAL	INTEGUMENTARY
INJURY LEVEL	SEVERE AIS3	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	A-PILLAR	A-PILLAR	GLOVE COMPARTMEN



IXP = 5 IYP = 57 ZONE = 2  
 WEIGHT = 4865. FORCE = 98565.  
 CRUSH ENERGY= 1922423. MASS FACTOR = 0.73  
 OCCUPANT ORIS 3 SEATING POSITION 13  
 AGE = 25 SEX = 1 HEIGHT= 70 WEIGHT= 130

NCSS CASE NO. 470131038 8 PM MON 31 JAN 1977  
 71 PASS CAR SUB-COMP/IMPORT MERCURY 62209  
 3 CDC EXTENT TO FRONT SIDE FROM 110CLOCK  
 ORIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH INTERMEDIATE CAR  
 L= 39 C1= 31 C2= 24 C3= 11 C4= 3 C5= 2 C6= 1 D=16 ICOD= 2  
 LATERAL DELTA-V= 6 LONGITUDINAL DELTA-V= 11 DELTA-V = 12

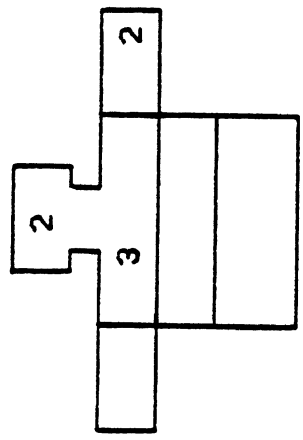
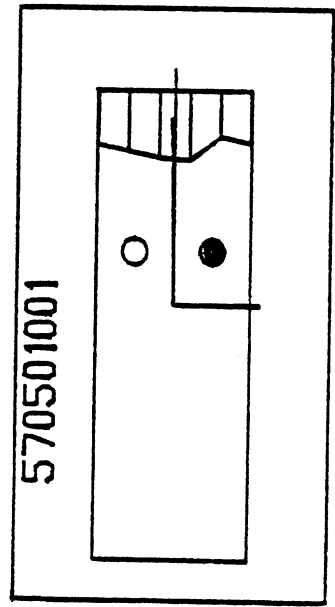
BODY REGION	THIGH	HEAD-SKULL	FACE
DIRECTION	LEFT	WHOLE REGION	SUPERIOR/UPPER
TYPE INJURY	FRACTURE	CONCUSSION	LACERATION
BODY ELEMENT	SKELETAL	BRAIN	INTEGUMENTARY
INJURY LEVEL	SEVERE AIS3	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 5 IYP = 11 ZONE = 1  
 WEIGHT = 3053. FORCE = 40138.  
 CRUSH ENERGY= 481429. MASS FACTOR = 0.92  
 OCCUPANT ORIS 3 SEATING POSITION 13  
 AGE = 19 SEX = 2 HEIGHT= 64 WEIGHT= 110

NCSS CASE NO. 570501001 9 AM SUN 1 MAY 1977  
 71 PASS CAR FULL SIZE BUICK 11302  
 3 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 OAIS= 3 RESTRAINT= NOT USED EJECT/TRAP= COMPLETE EJECTIO WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH COMPACT CAR  
 L= 79 C1= 26 C2= 29 C3= 32 C4= 33 C5= 22 C6= 25 D= 0 ICOD= 2  
 LATERAL DELTA-V= 5 LONGITUDINAL DELTA-V= 29 DELTA-V = 28

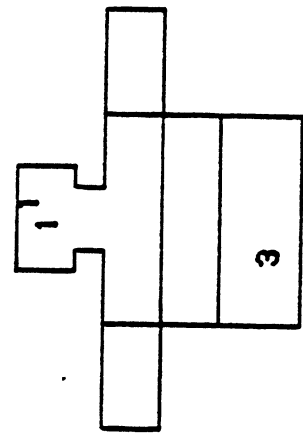
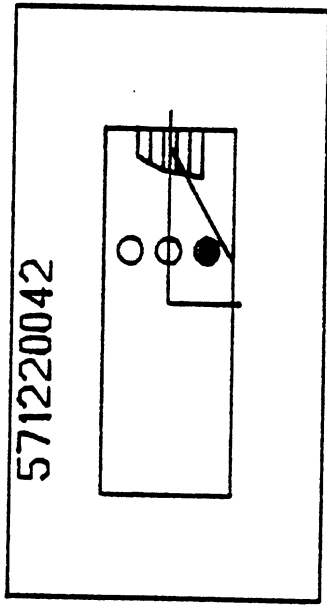
BODY REGION	CHEST	HEAD-SKULL	ARM
DIRECTION	RIGHT	WHOLE REGION	LEFT
TYPE INJURY	FRACTURE	CONCUSSION	FRACTURE
BODY ELEMENT	SKELETAL	BRAIN	SKELETAL
INJURY LEVEL	SEVERE AIS3	MODERATE AIS2	MODERATE AIS2
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 6 IYP = 48 ZONE = 2  
 WEIGHT = 4865. FORCE = 106767.  
 CRUSH ENERGY= 1973000. MASS FACTOR = 1.00  
 OCCUPANT OAIS 3 SEATING POSITION 13  
 AGE = 74 SEX = 2 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 571220042 9 PM TUE 20 DEC 1977  
 77 PASS CAR FOREIGN SPORTS PONTIAC/CANADA 66219  
 3 CDC EXTENT TO FRONT SIDE FROM 110CLOCK  
 OASIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH COMPACT CAR  
 L= 34 C1= 13 C2= 17 C3= 20 C4= 21 C5= 22 C6= 23 D= 0 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

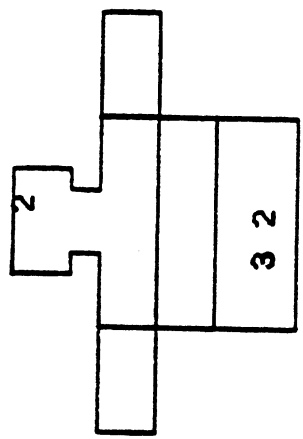
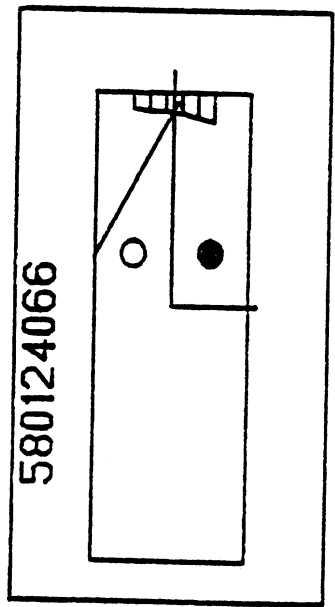
BODY REGION	THIGH	FACE	HEAD-SKULL
DIRECTION	LEFT	CENTRAL	WHOLE REGION
TYPE INJURY	FRACTURE	FRACTURE	CONCUSSION
BODY ELEMENT	SKELETAL	RESPIRATORY	BRAIN
INJURY LEVEL	SEVERE AIS3	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	TRANSMISS-FLOOR	WINDSHIELD	WINDSHIELD



IXP = 5 IYP = 51 ZONE = 2  
 WEIGHT = 3053. FORCE = 58443.  
 CRUSH ENERGY= 718448. MASS FACTOR = 0.66  
 OCCUPANT OASIS 3 SEATING POSITION 13  
 AGE = 37 SEX = 1 HEIGHT= 72 WEIGHT= 178

NCSS CASE NO, 580124066 9 AM TUE 24 JAN 1978  
 73 PASS CAR FULL SIZE BUICK 11102  
 1 CDC EXTENT TO FRONT SIDE FROM 1 OCLOCK  
 OAIS= 3 RESTRAINT- NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH INTERMEDIATE CAR  
 L= 42 C1= 8 C2= 9 C3= 9 C4= 10 C5= 12 C6= 14 D= 0 ICOD= 2  
 LATERAL DELTA-V= 4 LONGITUDINAL DELTA-V= 8 DELTA-V = 9

BODY REGION	ANKLE-FOOT	ANKLE-FOOT	HEAD-SKULL
DIRECTION	RIGHT	RIGHT	WHOLE REGION
TYPE INJURY	DISLOCATION	FRACTURE	CONCUSSION
BODY ELEMENT	JOINTS	SKELETAL	BRAIN
INJURY LEVEL	SEVERE AIS3	MODERATE AIS2	MODERATE AIS2
OBJECT CONTACTED	FLOOR	FLOOR	WINDSHIELD

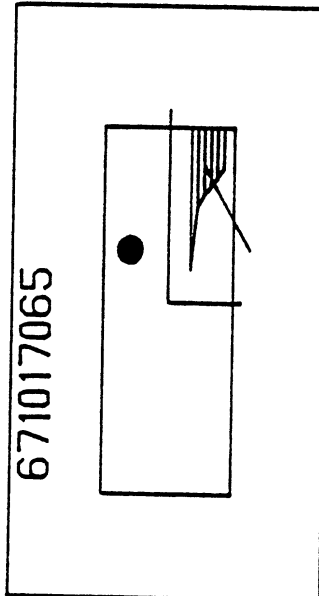


IXP = 2 IYP = 52 ZONE = 2  
 WEIGHT = 4865. FORCE = 33161.  
 CRUSH ENERGY= 357782. MASS FACTOR = 0.65  
 OCCUPANT OAIS 3 SEATING POSITION 13  
 AGE = 73 SEX = 2 HEIGHT= 63 WEIGHT= 125



NCSS CASE NO. 671017065 4 PM MON 17 OCT 1977  
 71 PASS CAR SPECIALTY/PONY PONTIAC 12106  
 5 CDC EXTENT TO FRONT SIDE FROM 110CLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V ANG FRONT TYPE CRASH WITH INTERMEDIATE CAR  
 L= 17 C1= 68 C2= 38 C3= 32 C4= 28 C5= 24 C6= 19 D= 20 ICOD= 2  
 LATERAL DELTA-V= 14 LONGITUDINAL DELTA-V= 23 DELTA-V = 27

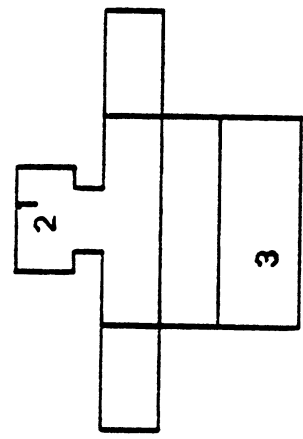
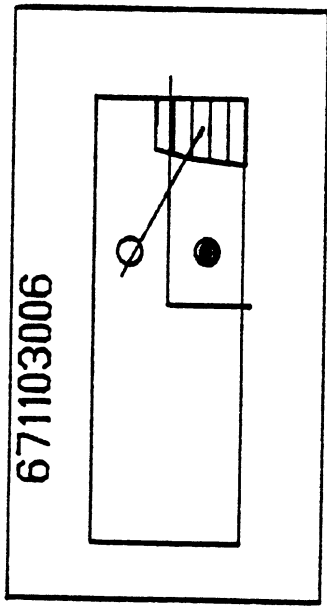
BODY REGION	HEAD-SKULL	ELBOW
DIRECTION	LEFT	LEFT
TYPE INJURY	LACERATION	LACERATION
BODY ELEMENT	BRAIN	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	STEERING ASSEMBL	INSTRUMENT PANEL



IXP = 10 IYP = 77 ZONE = 3  
 WEIGHT = 3053. FORCE = 48065.  
 CRUSH ENERGY= 1064657. MASS FACTOR = 0.55  
 OCCUPANT ORAIS 2 SEATING POSITION 11  
 AGE = 19 SEX = 1 HEIGHT= 72 WEIGHT= 170

NCSS CASE NO. 671103006 3 PM THU 3 NOV 1977  
 78 PASS CAR INTERMEDIATE UNKNOWN 11401  
 3 CDC EXTENT TO FRONT SIDE FROM 1 OCLOCK  
 OASIS= 3 RESTRAINT= NOT USED EJECT/TRAP= UNKNOWN WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH FULL-SIZE CAR  
 L= 47 C1= 25 C2= 27 C3= 28 C4= 30 C5= 31 C6= 32 D= 16 ICOD= 2  
 LATERAL DELTA-V= 19 LONGITUDINAL DELTA-V= 19 DELTA-V = 27

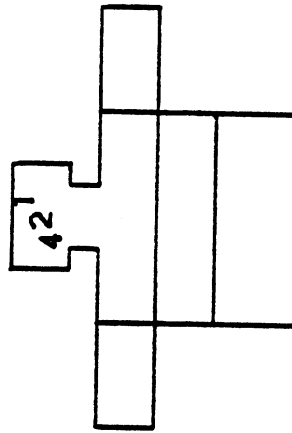
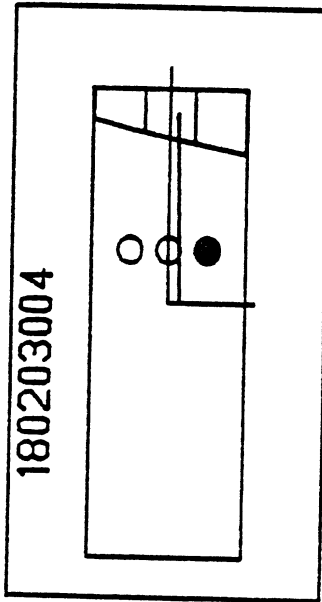
BODY REGION	PELVIC-HIP	HEAD-SKULL	HEAD-SKULL
DIRECTION	ANTERIOR/FRONT	WHOLE REGION	SUPERIOR/UPPER
TYPE INJURY	OTHER	CONCUSSION	LACERATION
BODY ELEMENT	SKELETAL	BRAIN	INTEGUMENTARY
INJURY LEVEL	SEVERE AIS3	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	GLOVE COMPARTMEN	WINDSHIELD	WINDSHIELD



IXP = 6 IYP = 71 ZONE = 3  
 WEIGHT = 4247. FORCE = 91487.  
 CRUSH ENERGY= 1790536. MASS FACTOR = 0.83  
 OCCUPANT OASIS 3 SEATING POSITION 13  
 AGE = 34 SEX = 4 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 180203004 9 PM FRI 3 FEB 1978  
 74 PASS CAR FULL SIZE BUICK 11302  
 3 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 OASIS= 4 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A CHAIN CRASH TYPE CRASH WITH FULL-SIZE CAR  
 L= 79 C1= 15 C2= 21 C3= 26 C4= 31 C5= 0 C6= 0 D= 0 ICOD= 1  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 18 DELTA-V = 18

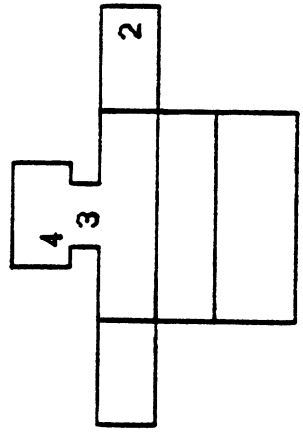
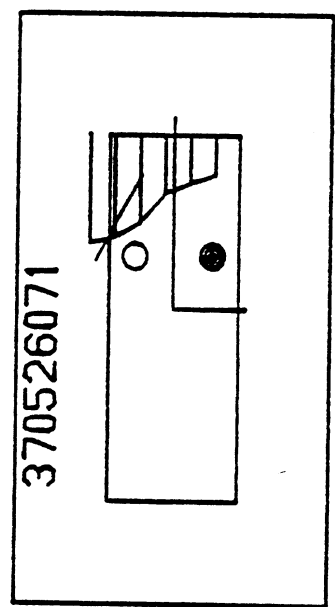
BODY REGION	FACE	HEAD-SKULL	FACE
DIRECTION	LEFT	WHOLE REGION	LEFT
TYPE INJURY	FRACTURE	CONCUSSION	CONCUSSION
BODY ELEMENT	SKELETAL	BRAIN	INTEGUMENTARY
INJURY LEVEL	SERIOUS AIS4	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	MIRRORS	MIRRORS	MIRRORS



IXP = 5 IYP = 55 ZONE = 2  
 WEIGHT = 4865. FORCE = 92293.  
 CRUSH ENERGY= 1491886. MASS FACTOR = 0.99  
 OCCUPANT OASIS 4 SEATING POSITION 13  
 AGE = 43 SEX = 2 HEIGHT= 62 WEIGHT= 115

NCSS CASE NO. 370526071 1 PM THU 26 MAY 1977  
 76 PASS CAR SPECIALTY/PONY PONTIAC 11506  
 5 CDC EXTENT TO FRONT SIDE FROM 1 OCLOCK  
 OAIS= 4 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH FULL-SIZE CAR  
 L= 65 C1= 52 C2= 48 C3= 42 C4= 28 C5= 23 C6= 19 D=-11 ICOD= 2  
 LATERAL DELTA-V= 18 LONGITUDINAL DELTA-V= 32 DELTA-V = 36

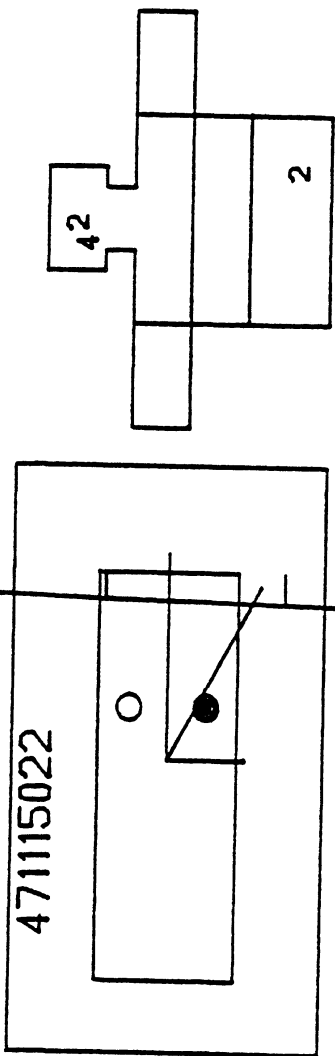
BODY REGION	HEAD-SKULL	NECK	SHOULDER
DIRECTION	SUPERIOR/UPPER	POSTERIOR/BACK	LEFT
TYPE INJURY	CONTUSION	FRACTURE	FRACTURE
BODY ELEMENT	BRAIN	VERTEBRAE	SKELETAL
INJURY LEVEL	SERIOUS AIS4	SEVERE AIS3	MODERATE AIS2
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 11 IYP = 24 ZONE = 1  
 WEIGHT = 3053. FORCE = 196588.  
 CRUSH ENERGY= 4587397. MASS FACTOR = 0.58  
 OCCUPANT OAIS 4 SEATING POSITION 13  
 AGE = 17 SEX = 1 HEIGHT= 73 WEIGHT= 165

NCSS CASE NO. 471115022 NOON TUE 15 NOV 1977  
 73 PASS CAR COMPACT FORD 13208  
 2 CDC EXTENT TO FRONT SIDE FROM 1 OCLOCK  
 ORIS= 4 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 465 C1= 6 C2= 10 C3= 13 C4= 15 C5= 17 C6= 18 D= 14 ICOD= 2  
 LATERAL DELTA-V= 7 LONGITUDINAL DELTA-V= 12 DELTA-V = 14

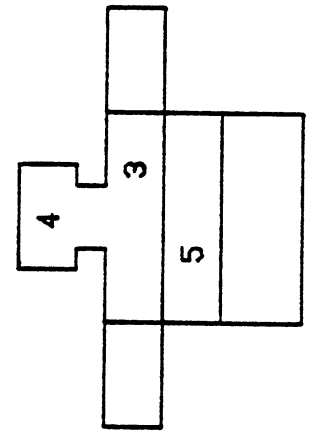
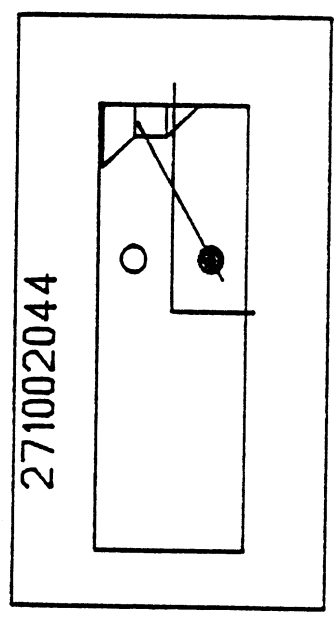
BODY REGION	FACE	HEAD-SKULL	ANKLE-FOOT
DIRECTION	RIGHT	WHOLE REGION	LEFT
TYPE INJURY	FRACTURE	CONCUSSION	SPRAIN
BODY ELEMENT	SKELETAL	BRAIN	JOINTS
INJURY LEVEL	SERIOUS AIS4	MODERATE AIS2	MODERATE AIS2
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 3 IYP = 116 ZONE = 3  
 HEIGHT = 3547. FORCE = 583189.  
 CRUSH ENERGY= 5517078. MASS FACTOR = 1.00  
 OCCUPANT ORIS 4 SEATING POSITION 13  
 AGE = 66 SEX = 2 HEIGHT= 64 WEIGHT= 120

NCSS CASE NO. 271002044 11AM SUN 2 OCT 1977  
 73 PASS CAR INTERMEDIATE UNKNOWN 12101  
 3 CDC EXTENT TO FRONT SIDE FROM 110CLOCK  
 OASIS= 5 RESTRAINT= LAP ONLY EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH LUXURY CAR  
 L= 50 C1= 30 C2= 15 C3= 15 C4= 0 C5= 0 C6= 0 D=12 ICOD= 1  
 LATERAL DELTA-V= 4 LONGITUDINAL DELTA-V= 13 DELTA-V = 14

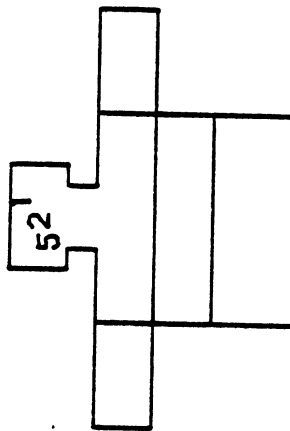
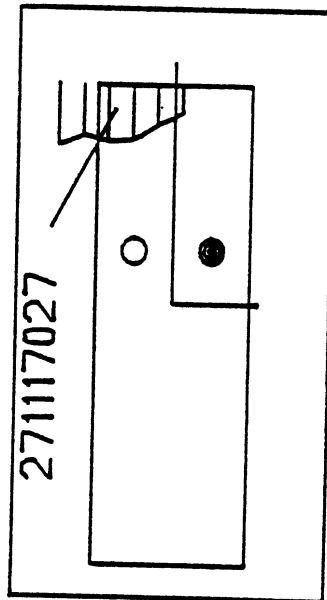
BODY REGION	ABDOMEN	HEAD-SKULL	CHEST
DIRECTION	INFERIOR/LOWER	WHOLE REGION	RIGHT
TYPE INJURY	RUPTURE	CONCUSSION	OTHER
BODY ELEMENT	DIGESTIVE	BRAIN	PULMONARY
INJURY LEVEL	CRITICAL AISS	SERIOUS AIS4	SEVERE AIS3
OBJECT CONTACTED	RESTRAINT WEB	INSTRUMENT PANEL	GLOVE COMPARTMEN



IXP = 4 IYP = 25 ZONE = 1  
 WEIGHT = 4247. FORCE = 56706.  
 CRUSH ENERGY= 727586. MASS FACTOR = 0.80  
 OCCUPANT OASIS 5 SEATING POSITION 13  
 AGE = 67 SEX = 2 HEIGHT= 62 WEIGHT= 150

NCSS CASE NO. 271117027 3 PM THU 17 NOV 1977  
 71 PASS CAR LUXURY/LIMOSINE CADILLAC 11403  
 3 CDC EXTENT TO FRONT SIDE FROM 1 OCLOCK  
 OASIS= 5 RESTRAINT= UNKNOWN EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH LUXURY CAR  
 L= 64 C1= 29 C2= 24 C3= 27 C4= 26 C5= 19 C6= 13 D=-28 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

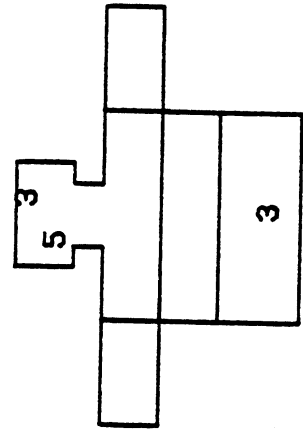
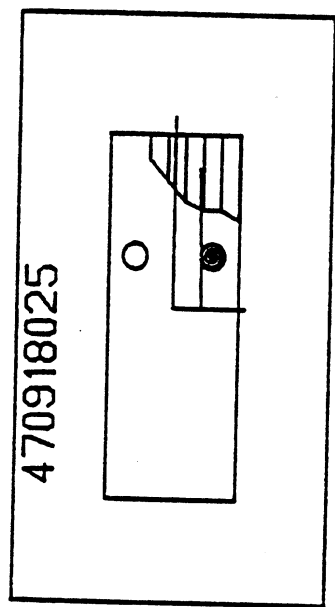
BODY REGION	HEAD-SKULL	FACE	FACE
DIRECTION	WHOLE REGION	SUPERIOR/UPPER	RIGHT
TYPE INJURY	CONCUSSION	LACERATION	CONTUSION
BODY ELEMENT	BRAIN	INTEGUMENTARY	EYES,EARS
INJURY LEVEL	CRITICAL AIS5	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	WINDSHIELD	WINDSHIELD	WINDSHIELD



IXP = 5 IYP = 11 ZONE = 1  
 WEIGHT = 5309. FORCE = 86516.  
 CRUSH ENERGY= 1613228. MASS FACTOR = 0.45  
 OCCUPANT OASIS 5 SEATING POSITION 13  
 AGE = 8 SEX = 2 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 470918025 11AM SUN 18 SEP 1977  
 71 PASS CAR SPECIALTY/PONY PONTIAC 11508  
 4 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 OAIS= 5 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH SUB-COMPACT CAR  
 L= 48 C1= 12 C2= 22 C3= 32 C4= 36 C5= 36 C6= 41 D= 10 ICOD= 2  
 LATERAL DELTA-V= 11 LONGITUDINAL DELTA-V= 40 DELTA-V = 42

BODY REGION	HEAD-SKULL	PELVIC-HIP	HEAD-SKULL
DIRECTION	INFERIOR/LOWER	LEFT	POSTERIOR/BACK
TYPE INJURY	CONTUSION	DISLOCATION	FRACTURE
BODY ELEMENT	BRAIN	JOINTS	SKELETAL
INJURY LEVEL	CRITICAL AIS5	SEVERE AIS3	SEVERE AIS3
OBJECT CONTACTED	WINDSHIELD	INSTRUMENT PANEL	WINDSHIELD

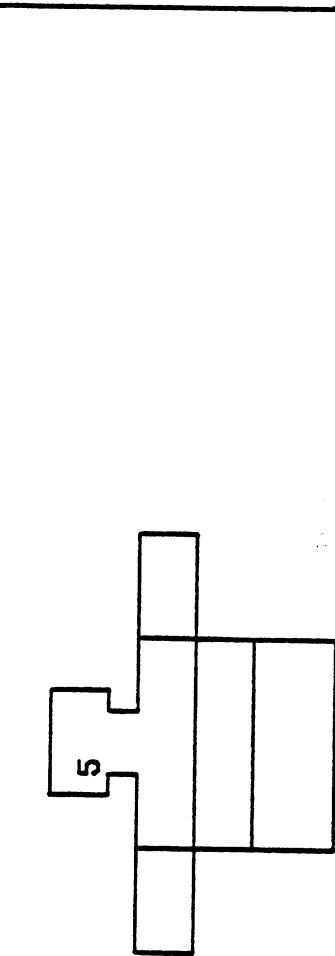
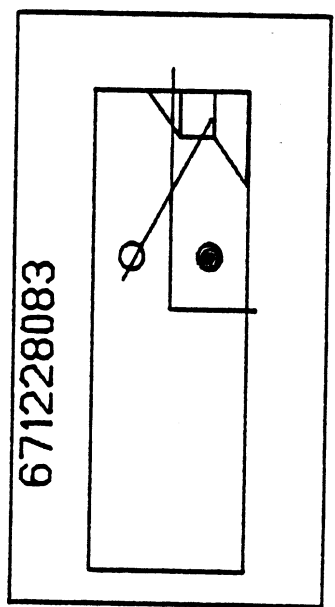


IXP = 9 IYP = 69 ZONE = 3  
 WEIGHT = 3053. FORCE = 104132.  
 CRUSH ENERGY= 1762520. MASS FACTOR = 0.93  
 OCCUPANT OAIS 5 SEATING POSITION 13  
 AGE = 13 SEX = 1 HEIGHT= 62 WEIGHT= 100



NCSS CASE NO. 671228083 2 AM WED 28 DEC 1977  
 76 PASS CAR PERSONAL LUXURY OLDSMOBILE 11205  
 4 CDC EXTENT TO FRONT SIDE FROM 1 OCLOCK  
 ORAIS= 5 RESTRAINT= NOT USED EJECT/TRAP= UNKNOWN WEIGHTING F= 1  
 A V/V HEAD ON TYPE CRASH WITH INTERMEDIATE CAR  
 L= 52 C1= 0 C2= 22 C3= 22 C4= 45 C5= 0 C6= 0 D= 13 ICOD= 1  
 LATERAL DELTA-V= 14 LONGITUDINAL DELTA-V= 23 DELTA-V = 27

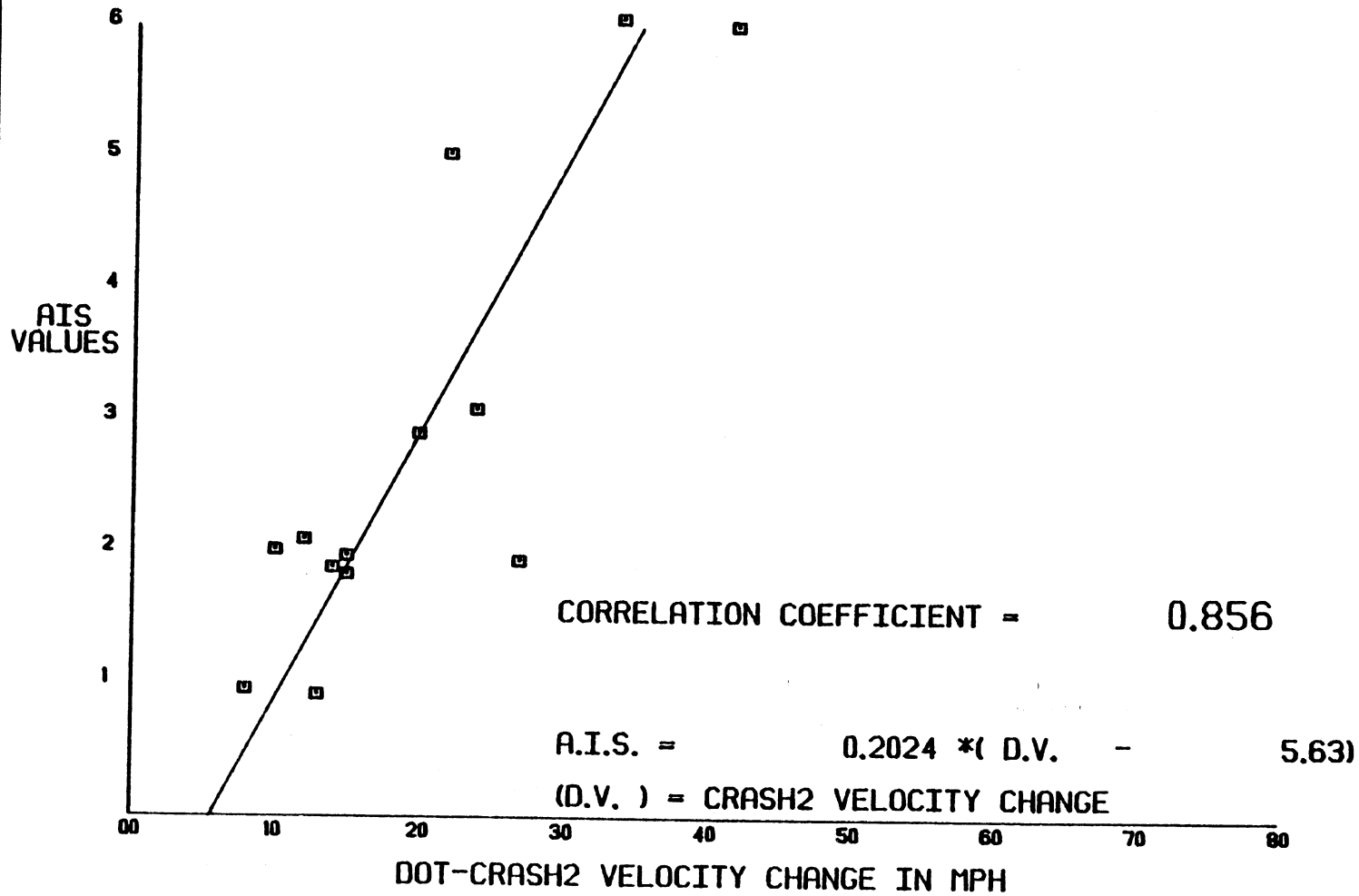
BODY REGION	HEAD-SKULL	UNKNOWN	UNKNOWN
DIRECTION	LEFT	UNKNOWN	UNKNOWN
TYPE INJURY	CONTUSION	LACERATION	CONTUSION
BODY ELEMENT	BRAIN	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	CRITICAL AIS1	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	A-PILLAR	UNKNOWN	UNKNOWN



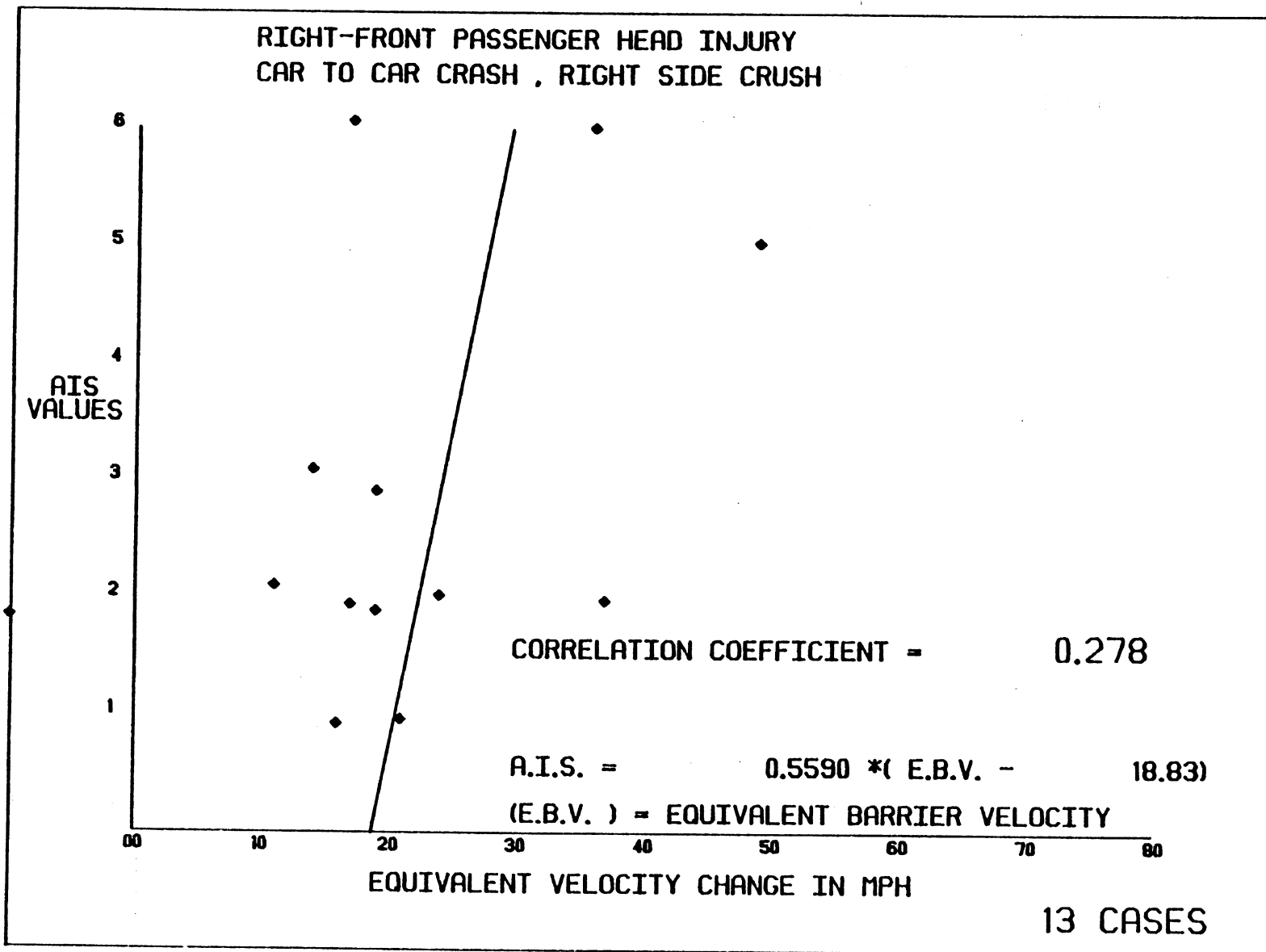
671228083  
 IXP = 5 IYP = 74 ZONE = 3  
 WEIGHT = 5309. FORCE = 67562.  
 CRUSH ENERGY= 1333673. MASS FACTOR = 0.84  
 OCCUPANT ORAIS 5 SEATING POSITION 13  
 AGE = 30 SEX = 2 HEIGHT= 99 WEIGHT= 999

RIGHT-FRONT PASSENGER HEAD INJURY		CAR TO CAR CRASH, RIGHT-SIDE CRUSH				EQUIVALENT BARRIER SPEED		DOT-CRASH2 DELTA-V	
VEHICLE CODE	NCS CASE	LEVEL INJURY	TYPE INJURY	OBJECT CONTACTED	PEAK DECELERATION	EQUIVALENT BARRIER SPEED	DOT-CRASH2 DELTA-V		
11103	180311040	2	2 AIS CONCUSSION	WINDOW GLASS	13 G	19 MPH	15 MPH		
12105	471130065	2	1 AIS CONCUSSION	SIDE INTERIOR	8 G	11 MPH	14 MPH		
12105	570223049	1	1 AIS LACERATION	SIDE INTERIOR					
11405	670522115	8	8 AIS CONCUSSION	UNKNOWN	11 G	19 MPH	17 MPH		
12108	670713061	2	2 AIS CONCUSSION	UNKNOWN	11 G	16 MPH	12 MPH		
86105	670917060	1	1 AIS LACERATION	UNKNOWN	15 G	17 MPH	13 MPH		
11306	670930094	2	2 AIS CONCUSSION	WINDOW GLASS	23 G	37 MPH	27 MPH		
11306	680118047	2	2 AIS CONCUSSION	WINDOW FRAME	18 G	24 MPH	15 MPH		
		1	1 AIS LACERATION	OTHER OCCUPANTS	14 G	21 MPH	10 MPH		
11402	370126013	1	1 AIS CONCUSSION	SIDE INTERIOR	16 G	19 MPH	8 MPH		
12206	570920050	3	3 AIS CONCUSSION	UNKNOWN	10 G	14 MPH	20 MPH		
11302	470210011	1	1 AIS LACERATION	UNKNOWN					
11306	270322038	3	3 AIS CONCUSSION	OUTSIDE SURFACE	23 G	49 MPH	24 MPH		
13208	170305002	5	5 AIS CONCUSSION	UNKNOWN	43 G	36 MPH	22 MPH		
13408	170731062	6	6 AIS LACERATION	UNKNOWN	15 G	17 MPH	42 MPH		
		6	6 AIS CRUSHING	UNKNOWN	27 G	31 MPH	34 MPH		

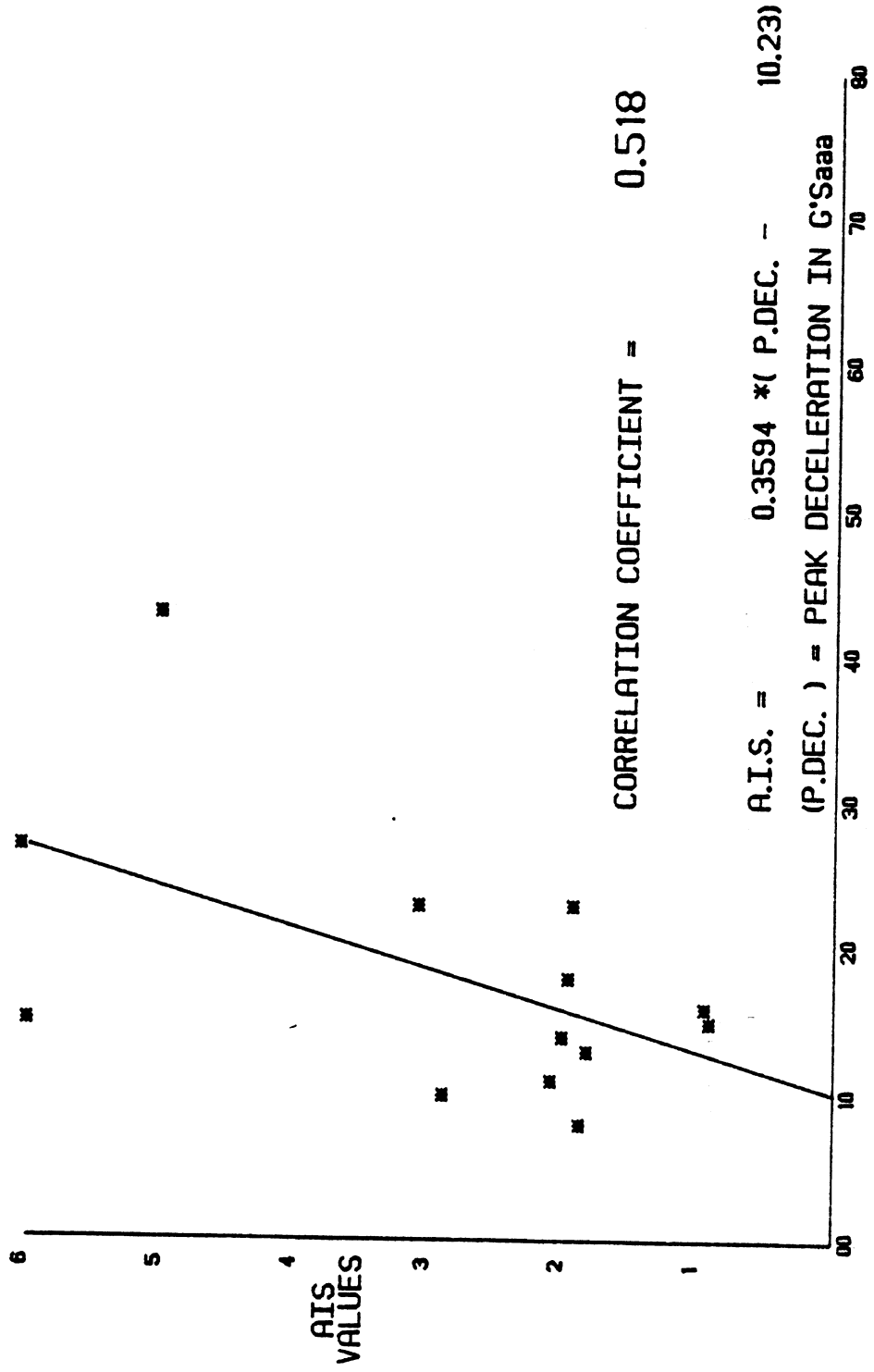
RIGHT-FRONT PASSENGER HEAD INJURY  
CAR TO CAR CRASH , RIGHT SIDE CRUSH



13 CASES



RIGHT-FRONT PASSENGER HEAD INJURY  
 CAR TO CAR CRASH , RIGHT SIDE CRUSH



CORRELATION COEFFICIENT = 0.518

A.I.S. = 0.3594 \* ( P.DEC. - 10.23)

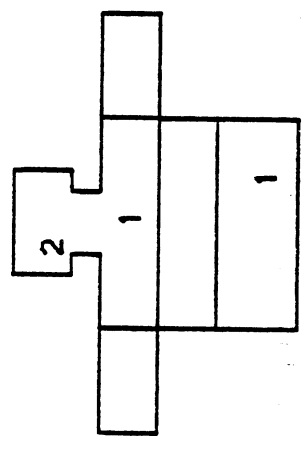
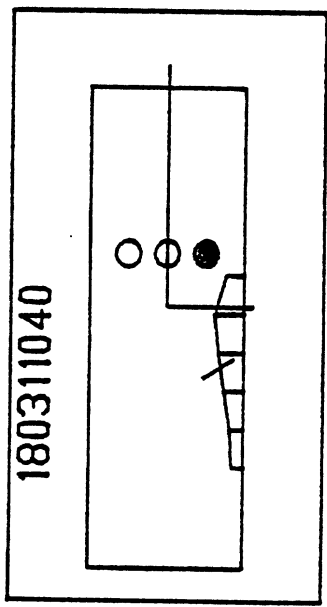
(P.DEC. ) = PEAK DECELERATION IN G'Saaa

PEAK DECELERATION IN G UNITS

13 CASES

NCCS CASE NO. 180311040 7 PM SAT 11 MAR 1978  
 71 PASS CAR LUXURY/LIMOSINE CADILLAC 11103  
 3 CDC EXTENT TO RIGHT SIDE FROM 2 OCLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH INTERMEDIATE CAR  
 L= 92 C1= 6 C2= 7 C3= 10 C4= 13 C5= 15 C6= 9 D=-31 ICOD= 2  
 LATERAL DELTA-V= 13 LONGITUDINAL DELTA-V= 7 DELTA-V = 15

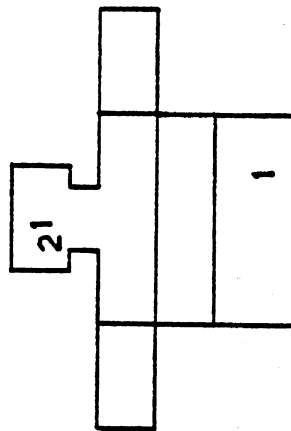
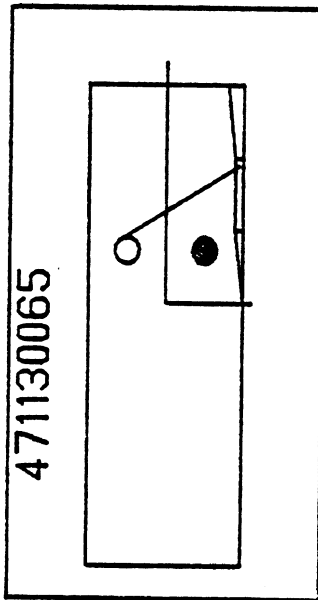
BODY REGION	HEAD-SKULL	CHEST	KNEE
DIRECTION	WHOLE REGION	WHOLE REGION	LEFT
TYPE INJURY	CONCUSSION	CONCUSSION	CONCUSSION
BODY ELEMENT	BRAIN	INTEGUMENTARY	JOINTS
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	WINDOW GLASS	SIDE HARDWARE	SIDE INTERIOR



IXP = 56 IYP = 92 ZONE = 5  
 WEIGHT = 5309. FORCE = 71286.  
 CRUSH ENERGY= 609711. MASS FACTOR = 0.74  
 OCCUPANT ORAIS 2 SEATING POSITION 13  
 AGE = 15 SEX = 2 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 471130065 5 PM WED 30 NOV 1977  
 76 PASS CAR PERSONAL LUXURY OLDSMOBILE 12105  
 2 CDC EXTENT TO RIGHT SIDE FROM 2 OCLOCK  
 OASIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH COMPACT CAR  
 L= 104 C1= 0 C2= 4 C3= 4 C4= 8 C5= 0 C6= 0 D= 52 ICOD= 1  
 LATERAL DELTA-V= 12 LONGITUDINAL DELTA-V= 7 DELTA-V = 14

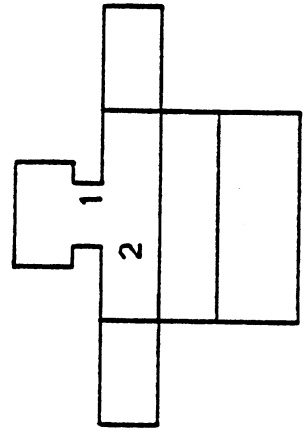
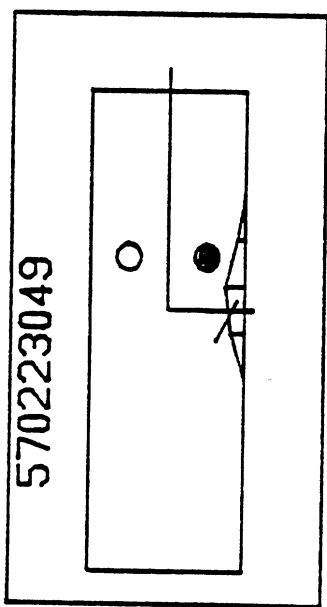
BODY REGION	HEAD-SKULL	BACK
DIRECTION	RIGHT	WHOLE REGION
TYPE INJURY	CONCUSSION	PAIN
BODY ELEMENT	BRAIN	MUSCLES
INJURY LEVEL	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	SIDE INTERIOR	UNKNOWN
	LACERATION	
	INTEGUMENTARY	
	MINOR AIS1	
	SIDE INTERIOR	



IXP = 16 IYP = 96 ZONE = 3  
 WEIGHT = 5309. FORCE = 43819.  
 CRUSH ENERGY= 207607. MASS FACTOR = 0.75  
 OCCUPANT OASIS 2 SEATING POSITION 13  
 AGE = 14 SEX = 2 HEIGHT= 59 WEIGHT= 107

NCSS CASE NO. 570223049 7 AM WED 23 FEB 1977  
 72 PASS CAR PERSONAL LUXURY OLDSMOBILE 12105  
 3 CDC EXTENT TO RIGHT SIDE FROM 1 OCLOCK  
 OASIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A UNLISTED TYPE CRASH WITH SUB-COMPACT CAR  
 L= 67 C1= 0 C2= 7 C3= 10 C4= 4 C5= 0 C6= 0 D= 0 ICOD= 2  
 LATERAL DELTA-V= 11 LONGITUDINAL DELTA-V= 13 DELTA-V = 17

BODY REGION	CHEST	HEAD-SKULL	NECK
DIRECTION	RIGHT	WHOLE REGION	POSTERIOR/BACK
TYPE INJURY	FRACTURE	CONCUSSION	OTHER
BODY ELEMENT	SKELETAL	BRAIN	MUSCLES
INJURY LEVEL	MODERATE AIS2	INJURED/UNK SEV	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN

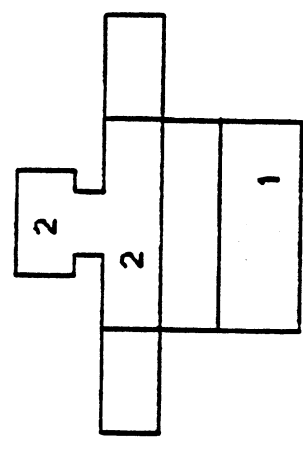
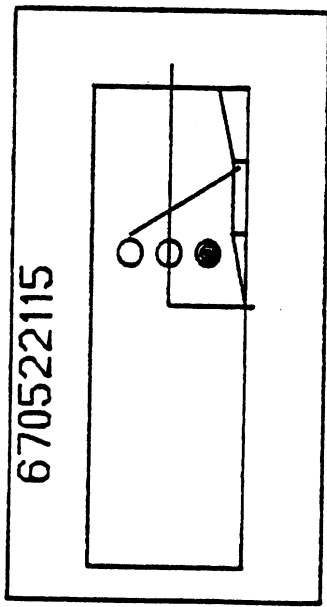


IXP = 43 IYP = 95 ZONE = 5  
 WEIGHT = 5309. FORCE = 63615.  
 CRUSH ENERGY= 685360. MASS FACTOR = 0.83  
 OCCUPANT OASIS 2 SEATING POSITION 13  
 AGE = 47 SEX = 1 HEIGHT= 67 WEIGHT= 142



NCSS CASE NO. 670522115 2 PM SUN 22 MAY 1977  
 72 PASS CAR PERSONAL LUXURY OLDSMOBILE 11405  
 3 CDC EXTENT TO RIGHT SIDE FROM 2 OCLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE. WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 104 C1= 0 C2= 7 C3= 7 C4= 15 C5= 0 C6= 0 D= 52 IC00= 1  
 LATERAL DELTA-V= 12 LONGITUDINAL DELTA-V= 0 DELTA-V = 12

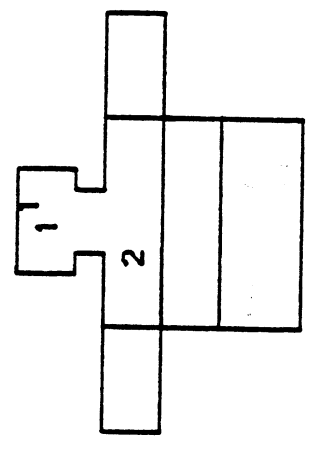
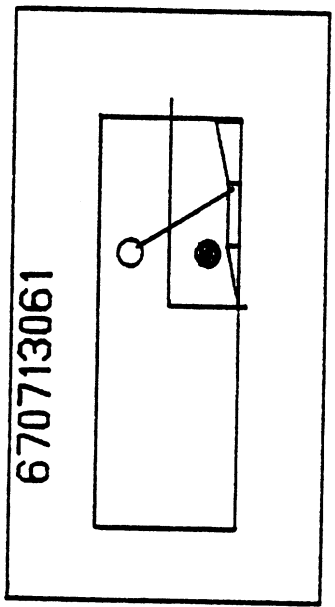
BODY REGION	CHEST	HEAD-SKULL	BACK
DIRECTION	RIGHT	WHOLE REGION	INFERIOR/LOWER
TYPE INJURY	FRACTURE	CONCUSSION	PAIN
BODY ELEMENT	SKELETAL	BRAIN	MUSCLES
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 16 IYP = 94 ZONE = 3  
 WEIGHT = 5309. FORCE = 61730.  
 CRUSH ENERGY= 429875. MASS FACTOR = 0.73  
 OCCUPANT ORAIS 2 SEATING POSITION 13  
 AGE = 56 SEX = 2 HEIGHT= 62 WEIGHT= 161

NCSS CASE NO. 670713061 4 PM WED 13 JUL 1977  
 75 PASS CAR COMPACT FORD 12108  
 3 CDC EXTENT TO RIGHT SIDE FROM 2 OCLOCK  
 ORIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 89 C1= 0 C2= 6 C3= 6 C4= 13 C5= 0 C6= 0 D= 44 ICOD= 1  
 LATERAL DELTA-V= 12 LONGITUDINAL DELTA-V= 7 DELTA-V = 13

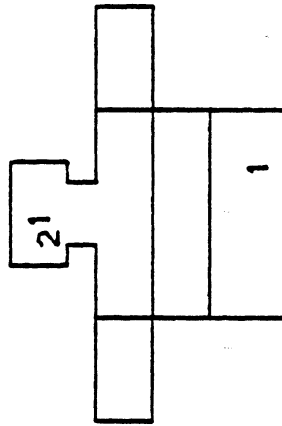
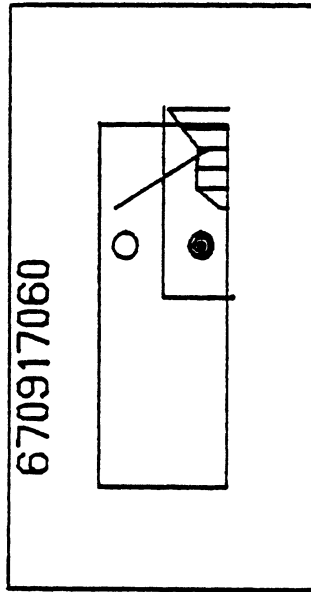
BODY REGION	CHEST	FACE	HEAD-SKULL
DIRECTION	RIGHT	RIGHT	RIGHT
TYPE INJURY	FRACTURE	LACERATION	LACERATION
BODY ELEMENT	SKELETAL	INTEGUMENTARY	EYES,EARS
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 17 IYP = 94 ZONE = 3  
 WEIGHT = 3547. FORCE = 53995.  
 CRUSH ENERGY= 318748. MASS FACTOR = 0.76  
 OCCUPANT ORIS 2 SEATING POSITION 13  
 AGE = 89 SEX = 1 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 670917060 2 AM SAT 17 SEP 1977  
 77 PASS CAR SUB-COMP/IMPORT MERCURY 86109  
 4 CDC EXTENT TO RIGHT SIDE FROM 2 O'CLOCK  
 OASIS= 2 RESTRAINT= NOT USED EJECT/TRAP= COMPLETE EJECTIO WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH INTERMEDIATE CAR  
 L= 48 C1= 4 C2= 16 C3= 16 C4= 15 C5= 24 C8= 31 D= 67 ICOD= 2  
 LATERAL DELTA-V= 23 LONGITUDINAL DELTA-V= 13 DELTA-V = 27

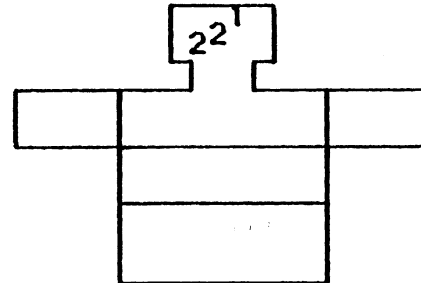
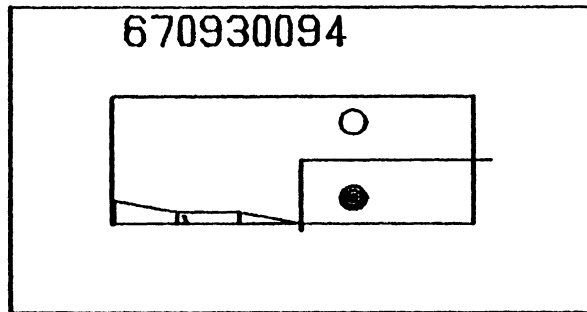
BODY REGION	HEAD-SKULL	FACE	LEG
DIRECTION	WHOLE REGION	SUPERIOR/UPPER	LEFT
TYPE INJURY	CONCUSSION	LACERATION	ABRASION
BODY ELEMENT	BRAIN	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	WINDOW GLASS	WINDOW GLASS	GLOVE COMPARTMEN



IXP = 6 IYP = 85 ZONE = 3  
 WEIGHT = 3053. FORCE = 73215.  
 CRUSH ENERGY= 917919. MASS FACTOR = 0.54  
 OCCUPANT OASIS 2 SEATING POSITION 13  
 AGE = 23 SEX = 2 HEIGHT= 63 WEIGHT= 135

NCSS CASE NO. 670930094 MIDN FRI 30 SEP 1977  
 74 PASS CAR SPECIALTY/PONY PONTIAC 11306  
 3 CDC EXTENT TO RIGHT SIDE FROM 2 OCLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 91 C1= 12 C2= 6 C3= 6 C4= 0 C5= 0 C6= 0 D=-45 ICOD= 1  
 LATERAL DELTA-V= 13 LONGITUDINAL DELTA-V= 8 DELTA-V = 15

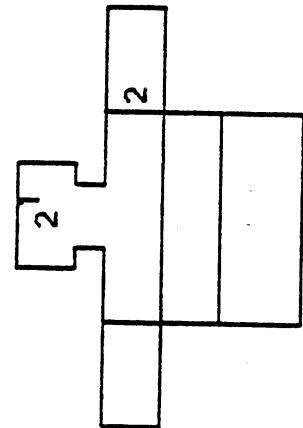
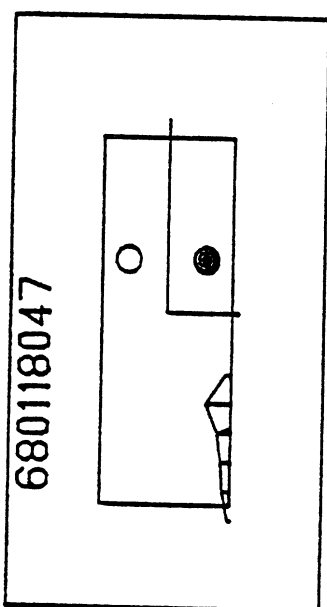
BODY REGION	FACE	HEAD-SKULL	FACE
DIRECTION	RIGHT	WHOLE REGION	RIGHT
TYPE INJURY	LACERATION	CONCUSSION	LACERATION
BODY ELEMENT	INTEGUMENTARY	BRAIN	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	WINDOW GLASS	WINDOW FRAME	WINDOW GLASS



IXP = 80 IYP = 94 ZONE = 6  
 WEIGHT = 3053. FORCE = 56804.  
 CRUSH ENERGY= 298171. MASS FACTOR = 0.42  
 OCCUPANT OAIS 2 SEATING POSITION 13  
 AGE = 20 SEX = 1 HEIGHT= 72 WEIGHT= 165

NCSS CASE NO. 680118047 4 PM WED 18 JAN 1978  
 76 PASS CAR SPECIALTY/PONY PONTIAC 11306  
 3 CDC EXTENT TO RIGHT SIDE FROM 2 OCLOCK  
 ORIS= 2 RESTRAINT= NOT USED EJECT/TRAP= COMPLETE EJECTIO WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH INTERMEDIATE CAR  
 L= 70 C1= 1 C2= 4 C3= 5 C4= 7 C5= 13 C6= 3 D--64 ICOD= 2  
 LATERAL DELTA-V= 8 LONGITUDINAL DELTA-V= 5 DELTA-V = 10

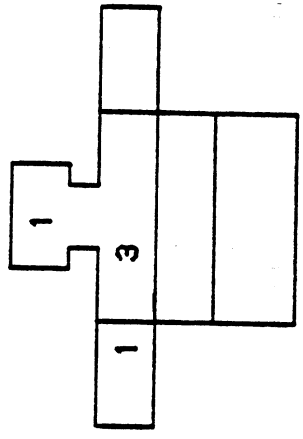
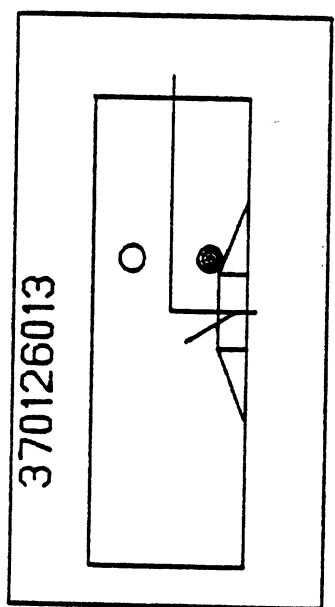
BODY REGION	SHOULDER	HEAD-SKULL	HEAD-SKULL
DIRECTION	LEFT	WHOLE REGION	LEFT
TYPE INJURY	FRACTURE	CONCUSSION	LACERATION
BODY ELEMENT	SKELETAL	BRAIN	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	OTHER OCCUPANTS	OTHER OCCUPANTS	UNKNOWN



IXP = 79 IYP = 94 ZONE = 6  
 WEIGHT = 3053. FORCE = 44773.  
 CRUSH ENERGY= 243811. MASS FACTOR = 0.42  
 OCCUPANT ORIS 2 SEATING POSITION 13  
 AGE = 20 SEX = 1 HEIGHT= 73 WEIGHT= 200

NCSS CASE NO. 370126013 5 PM WED 26 JAN 1977  
 75 PASS CAR FULL SIZE BUICK 11402  
 3 CDC EXTENT TO RIGHT SIDE FROM 2 OCLOCK  
 ORAIS= 3 RESTRAINT= LAP ONLY EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 107 C1= 0 C2= 15 C3= 15 C4= 0 C5= 0 C6= 0 D= 0 ICOD= 1  
 LATERAL DELTA-V= 7 LONGITUDINAL DELTA-V= 4 DELTA-V = 8

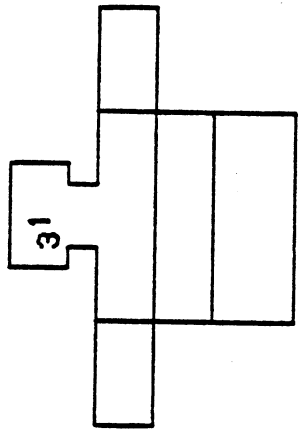
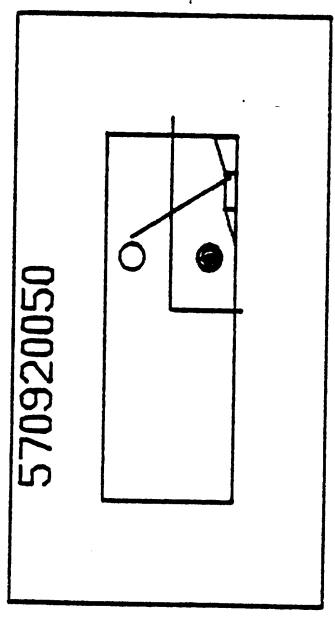
BODY REGION	CHEST	HEAD-SKULL	SHOULDER
DIRECTION	RIGHT	POSTERIOR/BACK	RIGHT
TYPE INJURY	FRACTURE	CONTUSION	CONTUSION
BODY ELEMENT	SKELETAL	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	SEVERE AIS3	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	SIDE INTERIOR	SIDE INTERIOR	SIDE INTERIOR



IXP = 45 IYP = 92 ZONE = 5  
 WEIGHT = 4865. FORCE = 79999.  
 CRUSH ENERGY= 718929. MASS FACTOR = 0.93  
 OCCUPANT ORAIS 3 SEATING POSITION 13  
 AGE = 61 SEX = 2 HEIGHT= 60 WEIGHT= 123

NCSS CASE NO. 570920050 11PM TUE 20 SEP 1977  
 71 PASS CAR SPECIALTY/PONY PONTIAC 12206  
 3 CDC EXTENT TO RIGHT SIDE FROM 2 OCLOCK  
 ORAIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH SUB-COMPACT CAR  
 L= 52 C1= 0 C2= 6 C3= 8 C4= 12 C5= 0 C6= 0 D= 57 ICOD= 1  
 LATERAL DELTA-V= 15 LONGITUDINAL DELTA-V= 13 DELTA-V = 20

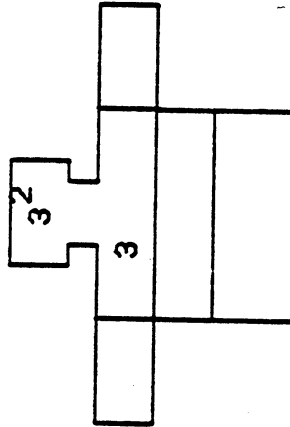
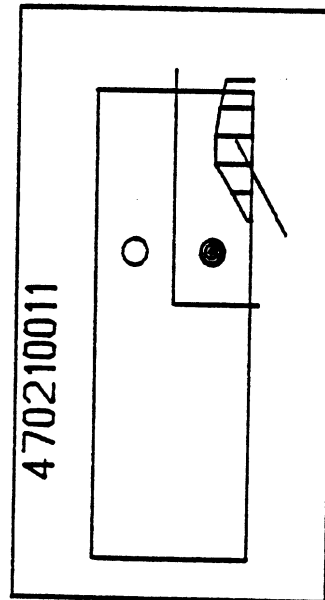
BODY REGION	HEAD-SKULL	HEAD-SKULL	UNKNOWN
DIRECTION	WHOLE REGION	POSTERIOR/BACK	UNKNOWN
TYPE INJURY	CONCUSSION	LACERATION	OTHER
BODY ELEMENT	BRAIN	INTEGUMENTARY	MISSING
INJURY LEVEL	SEVERE AIS3	MINOR AIS1	INJURED/UNK SEV
OBJECT CONTACTED	UNKNOWN	UNKNOWN	MISSING



IXP = 11 IYP = 94 ZONE = 3  
 WEIGHT = 3053. FORCE = 32459.  
 CRUSH ENERGY= 170383. MASS FACTOR = 0.65  
 OCCUPANT ORAIS 3 SEATING POSITION 13  
 AGE = 20 SEX = 2 HEIGHT= 69 WEIGHT= 110

NCSS CASE NO. 470210011 7 AM THU 10 FEB 1977  
 73 PASS CAR FULL SIZE BUICK 11302  
 3 CDC EXTENT TO RIGHT SIDE FROM 5 OCLOCK  
 ORIS= 4 RESTRAINT= NOT USED EJECT/TRAP= COMPLETE EJECTIO WEIGHTING F= 1  
 A V/V ANG SIDE TYPE CRASH WITH SUB-COMPACT CAR  
 L= 67 C1= 2 C2= 10 C3= 19 C4= 19 C5= 17 C6= 14 D= 74 IC00= 2  
 LATERAL DELTA-V= 12 LONGITUDINAL DELTA-V= 21 DELTA-V = 24

BODY REGION	CHEST	HEAD-SKULL	FACE
DIRECTION	RIGHT	WHOLE REGION	SUPERIOR/UPPER
TYPE INJURY	FRACTURE	CONCUSSION	LACERATION
BODY ELEMENT	SKELETAL	BRAIN	INTEGUMENTARY
INJURY LEVEL	SEVERE AIS3	SEVERE AIS3	MODERATE AIS2
OBJECT CONTACTED	OUTSIDE SURFACE	OUTSIDE SURFACE	OUTSIDE SURFACE

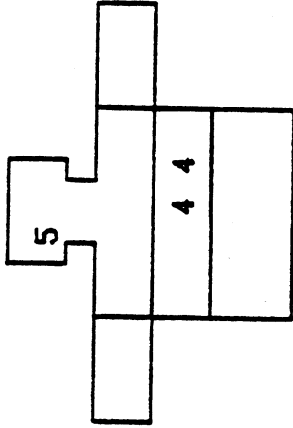
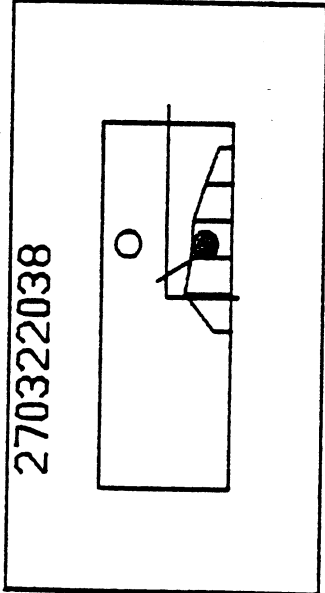


IXP = 10 IYP = 89 ZONE = 3  
 WEIGHT = 4865. FORCE = 115782.  
 CRUSH ENERGY= 2274005. MASS FACTOR = 0.47  
 OCCUPANT ORIS 4 SEATING POSITION 13  
 AGE = 52 SEX = 2 HEIGHT= 99 WEIGHT= 999



NCSS CASE NO. 270322038 NOON TUE 22 MAR 1977  
 76 PASS CAR SPECIALTY/PONY PONTIAC 11306  
 4 CDC EXTENT TO RIGHT SIDE FROM 2 OCLOCK  
 OASIS= 5 RESTRAINT= NOT USED EJECT/TRAP= PART. EJECTION WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH LUXURY CAR  
 L= 88 C1= 9 C2= 24 C3= 21 C4= 20 C5= 14 C6= 7 D= 28 ICOD= 2  
 LATERAL DELTA-V= 19 LONGITUDINAL DELTA-V= 11 DELTA-V = 22

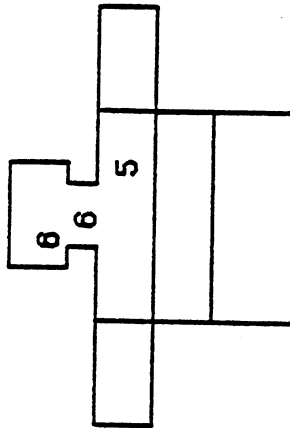
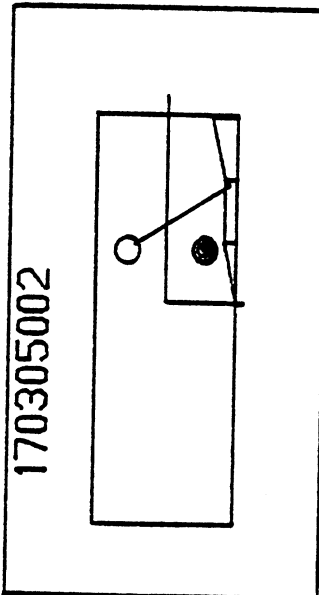
BODY REGION	HEAD-SKULL	ABDOMEN	ABDOMEN
DIRECTION	SUPERIOR/UPPER	RIGHT	LEFT
TYPE INJURY	CONCUSSION	LACERATION	RUPTURE
BODY ELEMENT	BRAIN	LIVER	SPLEEN
INJURY LEVEL	CRITICAL AIS5	SERIOUS AIS4	SERIOUS AIS4
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 33 IYP = 86 ZONE = 3  
 WEIGHT = 3053. FORCE = 132194.  
 CRUSH ENERGY= 1575388. MASS FACTOR = 0.97  
 OCCUPANT OASIS 5 SEATING POSITION 13  
 AGE = 17 SEX = 1 HEIGHT= 72 WEIGHT= 225

NCSS CASE NO. 170305002 5 PM SAT 5 MAR 1977  
 73 PASS CAR COMPACT FORD 13208  
 3 CDC EXTENT TO RIGHT SIDE FROM 2 OCLOCK  
 OAIS= 6 RESTRAINT= LAP ONLY EJECT/TRAP= NONE WEIGHTING F= 1  
 A UNLISTED TYPE CRASH WITH INTERMEDIATE CAR  
 L= 89 C1= 0 C2= 6 C3= 6 C4= 13 C5= 0 C6= 0 D= 44 ICOD= 1  
 LATERAL DELTA-V= 36 LONGITUDINAL DELTA-V= 21 DELTA-V = 42

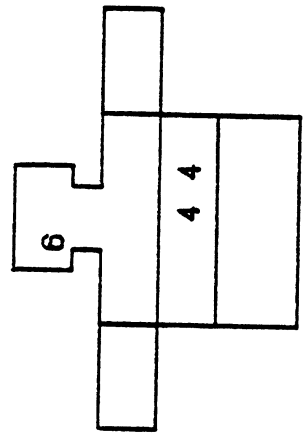
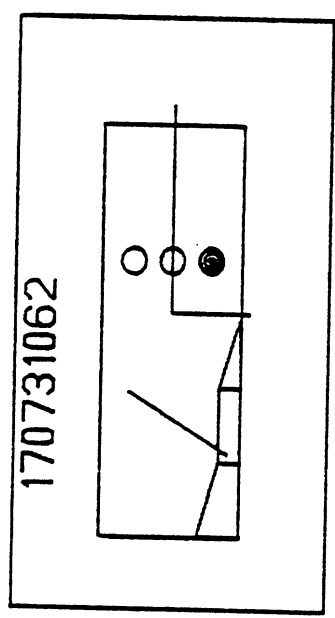
BODY REGION	HEAD-SKULL	NECK	CHEST
DIRECTION	INFERIOR/LOWER	POSTERIOR/BACK	CENTRAL
TYPE INJURY	LACERATION	FRACTURE	LACERATION
BODY ELEMENT	BRAIN	VERTEBRAE	ARTERIES
INJURY LEVEL	MAXIMUM-FATAL	MAXIMUM-FATAL	CRITICAL AIS5
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 17 IYP = 94 ZONE = 3  
 WEIGHT = 3547. FORCE = 53995.  
 CRUSH ENERGY= 318748. MASS FACTOR = 0.76  
 OCCUPANT OAIS 6 SEATING POSITION 13  
 AGE = 44 SEX = 2 HEIGHT= 65 WEIGHT= 185

NCSS CASE NO. 170731062 10PM SUN 31 JUL 1977  
 73 PASS CAR COMPACT FORD 13408  
 4 CDC EXTENT TO RIGHT SIDE FROM 4 OCLOCK  
 OAIS= 6 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/V SIDE TYPE CRASH WITH FULL-SIZE CAR  
 L= 106 C1= 22 C2= 11 C3= 11 C4= 0 C5= 0 C6= 0 D=53 ICOD= 1  
 LATERAL DELTA-V= 30 LONGITUDINAL DELTA-V= 17 DELTA-V = 34

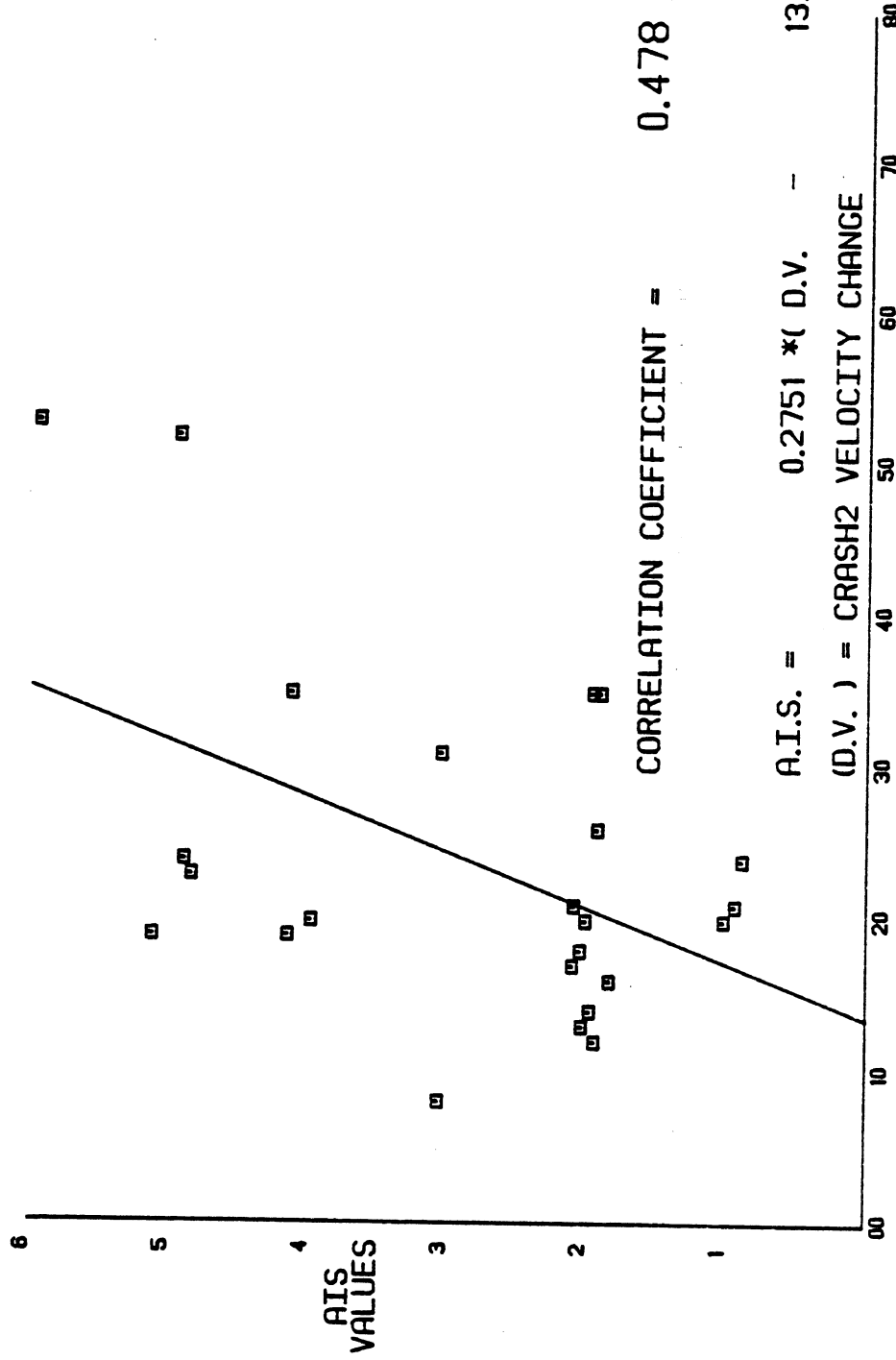
BODY REGION	HEAD-SKULL	ABDOMEN	ABDOMEN
DIRECTION	WHOLE REGION	SUPERIOR/UPPER	LEFT
TYPE INJURY	CRUSHING	LACERATION	LACERATION
BODY ELEMENT	ALL SYSTEMS	LIVER	SPLEEN
INJURY LEVEL	MAXIMUM-FATAL	SERIOUS AIS4	SERIOUS AIS4
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



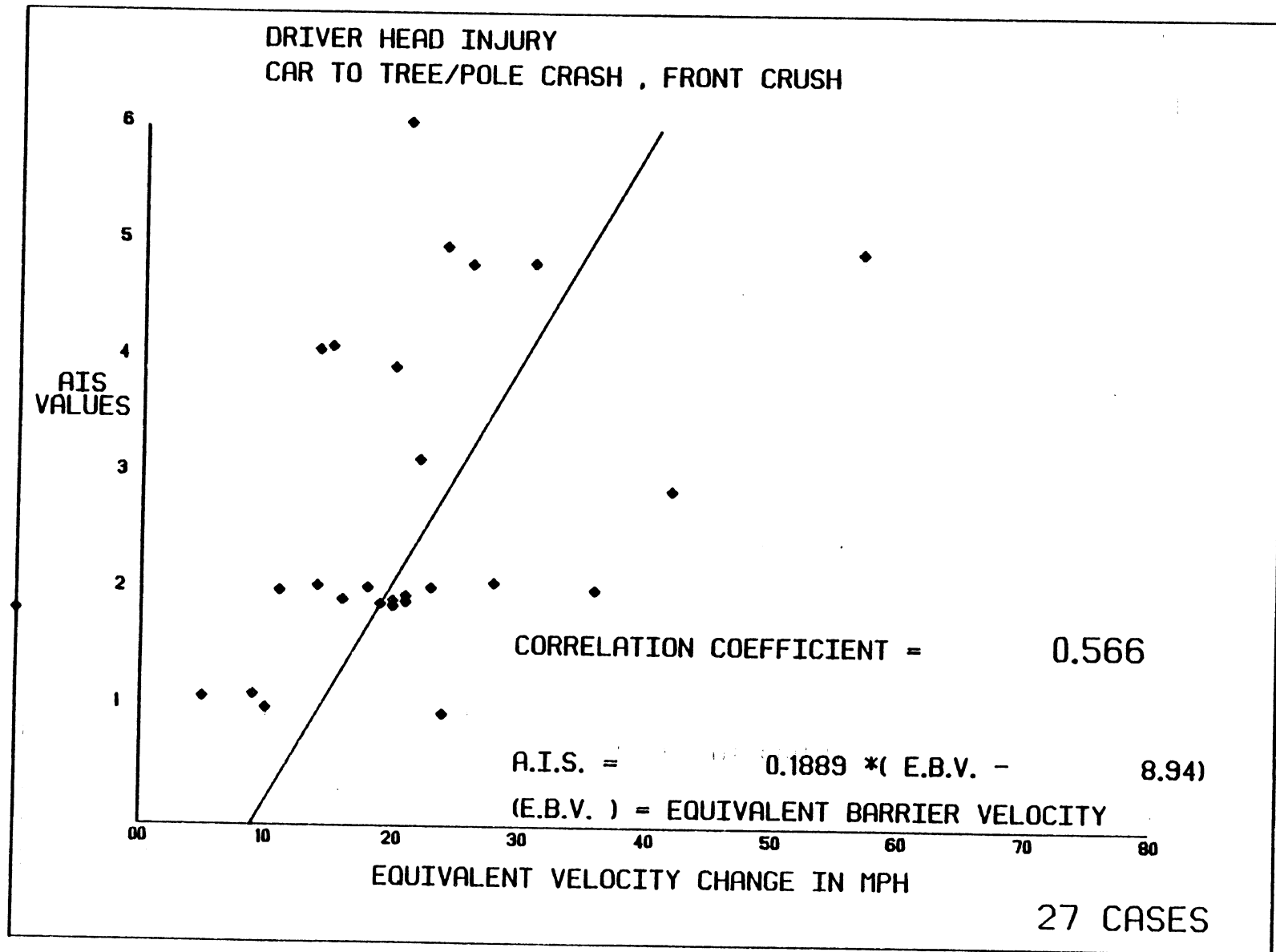
IXP = 79 IYP = 90 ZONE = 6  
 WEIGHT = 3547. FORCE = 98088.  
 CRUSH ENERGY= 903292. MASS FACTOR = 0.64  
 OCCUPANT OAIS 6 SEATING POSITION 13  
 AGE = 18 SEX = 1 HEIGHT= 64 WEIGHT= 145

DRIVER HEAD INJURY		CAR TO TREE/POLE CRASH, FRONT CRUSH				EQUIVALENT BARRIER SPEED		DOT-CRASH2 DELTA-V	
VEHICLE CODE	NCS CASE	LEVEL INJURY	TYPE INJURY	OBJECT CONTACTED	PEAK DECELERATION	EQUIVALENT BARRIER SPEED	DOT-CRASH2 DELTA-V		
12118	171106020	2	AIS LACERATION	MIRRORS	12 G	20 MPH	0 MPH		
66109	180329077	2	AIS CONCUSSION	MIRRORS	2 G	5 MPH	16 MPH		
62209	270916002	1	AIS CONCUSSION	STEERING ASSEMBL	14 G	21 MPH	24 MPH		
11302	370302001	2	AIS CONCUSSION	UNKNOWN	6 G	16 MPH	17 MPH		
12218	380219015	2	AIS LACERATION	A-PILLAR	8 G	21 MPH	26 MPH		
13401	470914018	2	AIS CONCUSSION	WINDSHIELD	4 G	11 MPH	12 MPH		
12104	480107001	2	AIS CONCUSSION	WINDSHIELD	9 G	24 MPH	14 MPH		
11318	480311015	1	AIS LACERATION	WINDSHIELD	15 G	19 MPH	20 MPH		
86119	570512037	2	AIS CONCUSSION	UNKNOWN	8 G	28 MPH	35 MPH		
66109	570528067	2	AIS CONCUSSION	UNKNOWN	20 G	36 MPH	35 MPH		
11203	570831093	2	AIS CONCUSSION	UNKNOWN	3 G	10 MPH	0 MPH		
12101	571217045	1	AIS CONCUSSION	WINDSHIELD	7 G	14 MPH	0 MPH		
11318	670605016	2	AIS CONCUSSION	UNKNOWN	13 G	20 MPH	21 MPH		
13406	680204022	2	AIS CONCUSSION	MIRRORS	16 G	23 MPH	13 MPH		
11301	270609024	2	AIS CONCUSSION	UNKNOWN	9 G	22 MPH	20 MPH		
11501	271117030	3	AIS CONCUSSION	WINDSHIELD	2 G	9 MPH	8 MPH		
12102	671216048	1	AIS CONCUSSION	WINDSHIELD	8 G	18 MPH	21 MPH		
66109	680317054	1	AIS CONCUSSION	WINDSHIELD	11 G	15 MPH	18 MPH		
12102	380108033	4	AIS CONCUSSION	WINDSHIELD	7 G	20 MPH	19 MPH		
12104	470527043	1	AIS CONCUSSION	SUNVISOR/FITTING					
11318	670703014	4	AIS CONCUSSION	UNKNOWN	32 G	42 MPH	35 MPH		
13406	170910030	3	AIS FRACTURE	UNKNOWN	18 G	31 MPH	31 MPH		
62209	170722038	5	AIS CONCUSSION	UNKNOWN	13 G	24 MPH	19 MPH		
11404	270407033	5	AIS CONCUSSION	UNKNOWN	48 G	57 MPH	52 MPH		
11403	470422048	1	AIS LACERATION	UNKNOWN	29 G	26 MPH	24 MPH		
12102	670508037	5	AIS CONCUSSION	UNKNOWN	5 G	14 MPH	13 MPH		
11302	680303007	5	AIS CONCUSSION	UNKNOWN	5 G	14 MPH	23 MPH		
11392	570205000	4	AIS FRACTURE	MIRRORS	8 G	21 MPH	20 MPH		
11392	570205000	6	AIS CRUSHING	UNKNOWN	45 G	66 MPH	53 MPH		

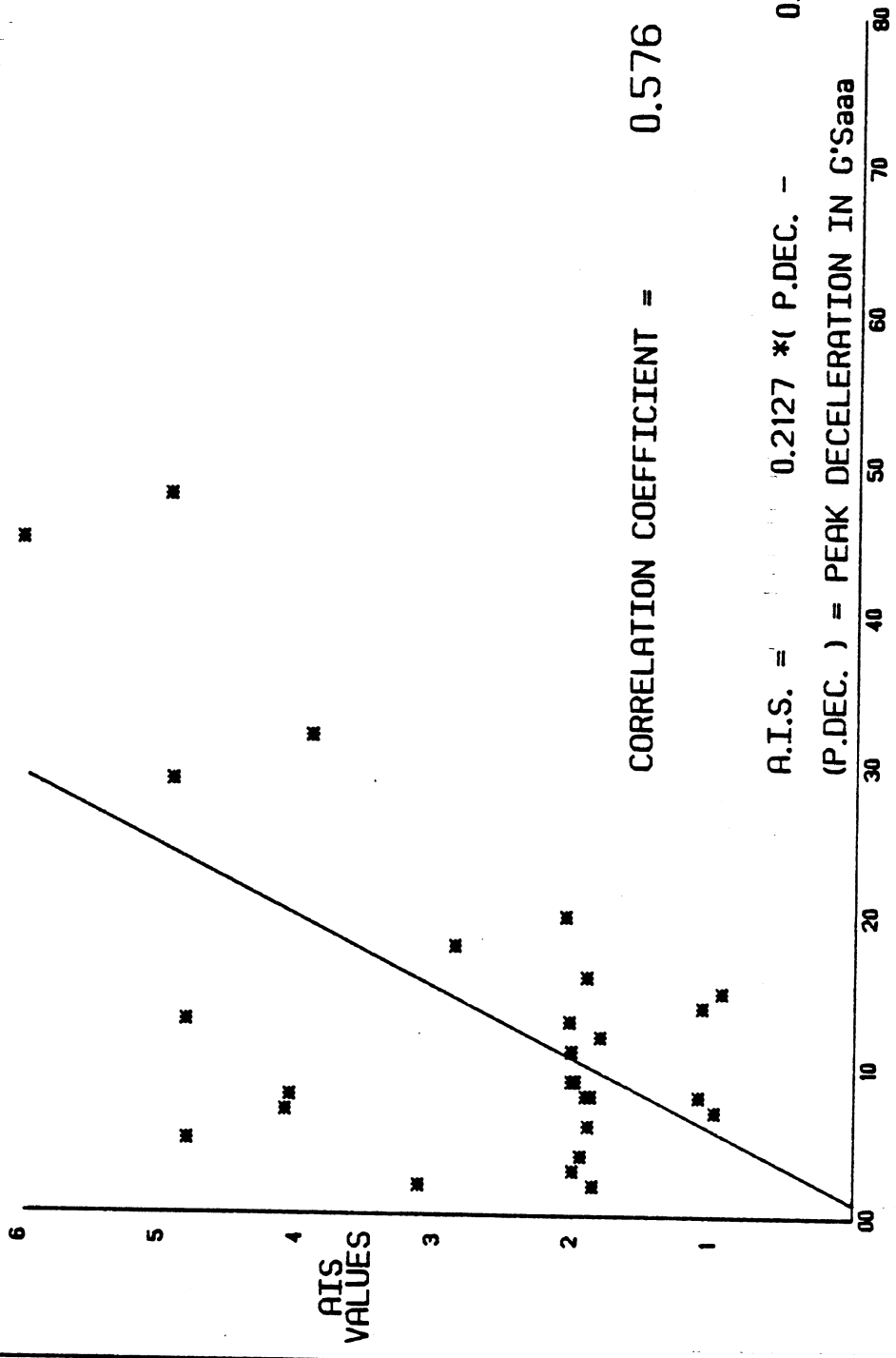
DRIVER HEAD INJURY  
 CAR TO TREE/POLE CRASH , FRONT CRUSH



24 CASES



DRIVER HEAD INJURY  
 CAR TO TREE/POLE CRASH . FRONT CRUSH

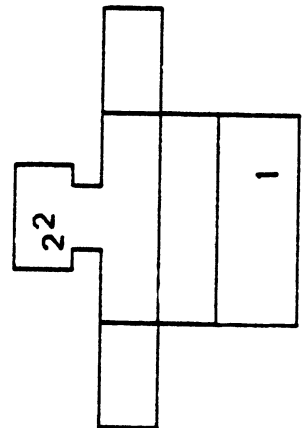
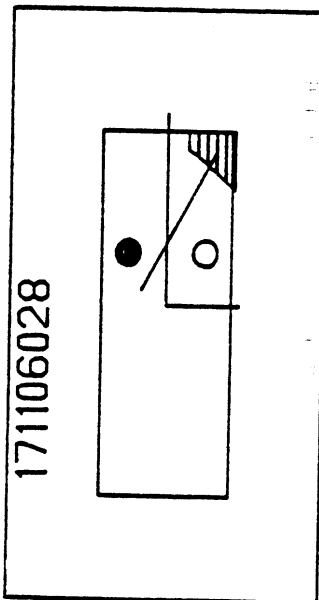


PEAK DECELERATION IN G UNITS

27 CASES

NCSS CASE NO. 171106028 1 AM SUN 6 NOV 1977  
 76 WAGON SUB-COMP/USA CHEVY/CANADA 12118  
 3 CDC EXTENT TO FRONT SIDE FROM 1 OCLOCK.  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 24 C1= 9 C2= 12 C3= 16 C4= 20 C5= 24 C6= 28 D= 23 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

BODY REGION	FACE	HEAD-SKULL	KNEE
DIRECTION	SUPERIOR/UPPER	SUPERIOR/UPPER	RIGHT
TYPE INJURY	LACERATION	LACERATION	CONTUSION
BODY ELEMENT	INTEGUMENTARY	INTEGUMENTARY	JOINTS
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	MIRRORS	MIRRORS	TRANSMISS-FLOOR

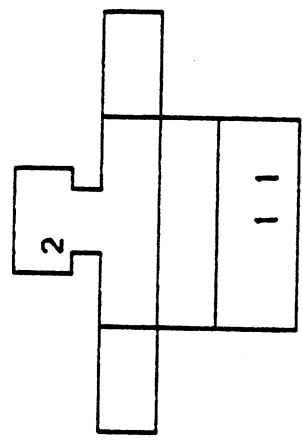
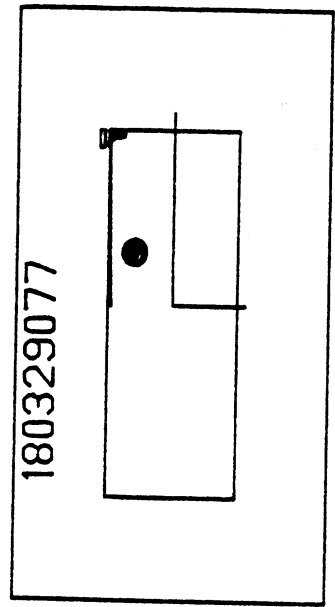


IXP = 5 IYP = 87 ZONE = 3  
 WEIGHT = 3053. FORCE = 38298.  
 CRUSH ENERGY = 465724. MASS FACTOR = 0.93  
 OCCUPANT ORAIS 2 SEATING POSITION 11  
 AGE = 33 SEX = 1 HEIGHT = 74 WEIGHT = 189



NCCS CASE NO. 180329077 4 PM WED 29 MAR 1978  
 76 PASS CAR SUB-COMP/IMPORT MERCURY 66109  
 3 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 13 C1= 9 C2= 8 C3= 6 C4= 4 C5= 4 C6= 3 D=-32 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 16 DELTA-V = 16

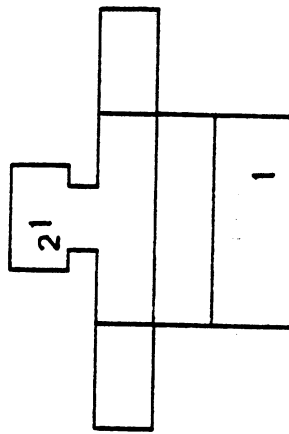
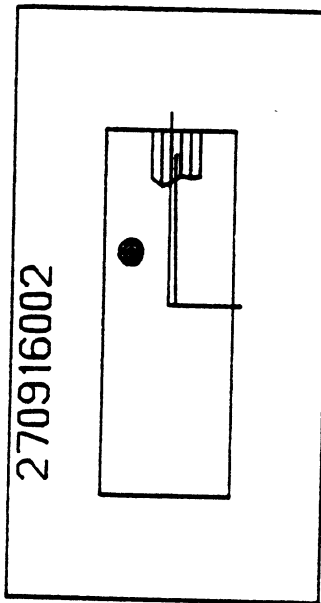
BODY REGION	HEAD-SKULL	THIGH	BACK
DIRECTION	WHOLE REGION	LEFT	WHOLE REGION
TYPE INJURY	CONCUSSION	CONTUSION	PAIN
BODY ELEMENT	BRAIN	INTEGUMENTARY	MUSCLES
INJURY LEVEL	MODERATE AIS2	MINOR AISI	MINOR AISI
OBJECT CONTACTED	MIRRORS	STEERING ASSEMBL	UNKNOWN



IXP = 1 IYP = 0 ZONE = 1  
 WEIGHT = 3053. FORCE = 6410.  
 CRUSH ENERGY= 23939. MASS FACTOR = 0.75  
 OCCUPANT ORAIS 2 SEATING POSITION 11  
 AGE = 48 SEX = 1 HEIGHT= 74 WEIGHT= 225

NCSS CASE NO. 270916002 1 AM FRI 16 SEP 1977  
 74 PASS CAR SUB-COMP/IMPORT MERCURY 62209  
 3 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 OAIS= 2 RESTRAINT= LAP AND TORSO EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 25 C1= 23 C2= 27 C3= 25 C4= 22 C5= 23 C6= 22 D= 3 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 24 DELTA-V = 24

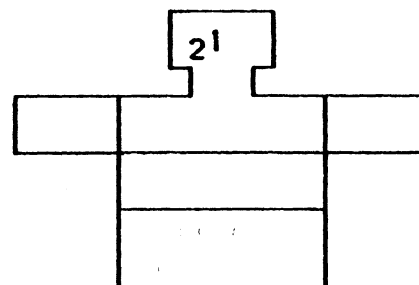
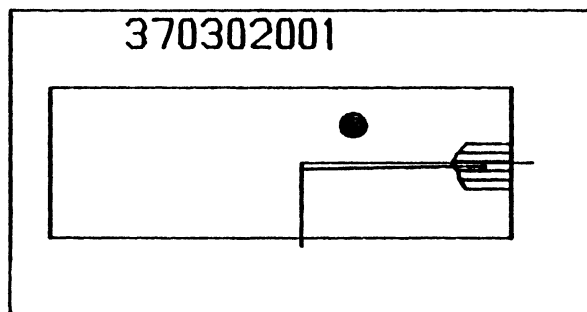
BODY REGION	FACE	HEAD-SKULL	KNEE
DIRECTION	LEFT	SUPERIOR/UPPER	LEFT
TYPE INJURY	FRACTURE	CONCUSSION	CONTOUSION
BODY ELEMENT	SKELETAL	BRAIN	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	STEERING ASSEMBL	STEERING ASSEMBL	INSTRUMENT PANEL



IXP = 6 IYP = 53 ZONE = 2  
 WEIGHT = 3053. FORCE = 44861.  
 CRUSH ENERGY= 568197. MASS FACTOR = 0.99  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 23 SEX = 1 HEIGHT= 67 WEIGHT= 135

NCSS CASE NO. 370302001 1 AM WED 2 MAR 1977  
 77 PASS CAR FULL SIZE BUICK 11302  
 3 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH UTILITY POLE  
 L= 24 CI= 22 C2= 26 C3= 29 C4= 26 C5= 25 C6= 22 D= 2 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 17 DELTA-V = 17

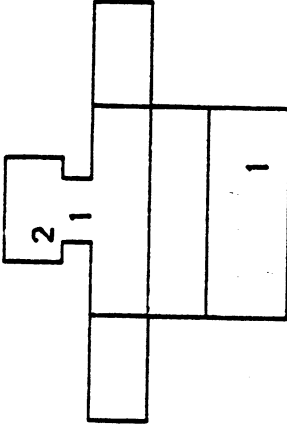
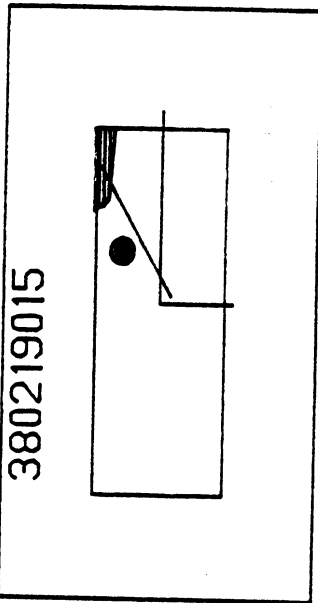
BODY REGION	HEAD-SKULL	FACE	WHOLE BODY
DIRECTION	WHOLE REGION	INFERIOR/LOWER	WHOLE REGION
TYPE INJURY	CONCUSSION	LACERATION	ABRASION
BODY ELEMENT	BRAIN	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 5 IYP = 52 ZONE = 2  
 WEIGHT = 4865. FORCE = 30045.  
 CRUSH ENERGY= 511382. MASS FACTOR = 1.00  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 28 SEX = 1 HEIGHT= 73 WEIGHT= 225

NCSS CASE NO. 380219015 10AM SUN 19 FEB 1978  
 76 PASS CAR SUB-COMP/USA CHEVY/CANADA 12218  
 4 CDC EXTENT TO FRONT SIDE FROM 110CLOCK  
 OASIS= 2 RESTRAINT= NOT USED EJECT/TRAP= PART. EJECTION WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 8 C1= 40 C2= 38 C3= 37 C4= 34 C5= 0 C6= 0 D=-31 ICOD= 2  
 LATERAL DELTA-V= 18 LONGITUDINAL DELTA-V= 18 DELTA-V = 26

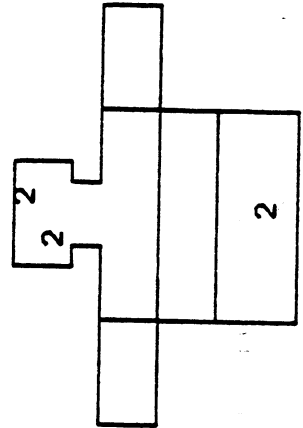
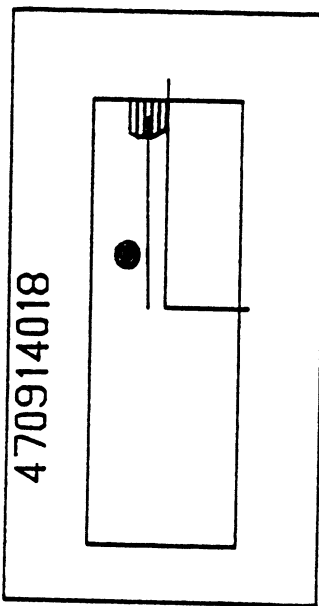
BODY REGION	HEAD-SKULL	NECK	KNEE
DIRECTION	POSTERIOR/BACK	POSTERIOR/BACK	RIGHT
TYPE INJURY	LACERATION	OTHER	ABRASION
BODY ELEMENT	INTEGUMENTARY	MUSCLES	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	A-PILLAR	UNKNOWN	INSTRUMENT PANEL



IXP = 10 IYP = 3 ZONE = 1  
 WEIGHT = 3053. FORCE = 25400.  
 CRUSH ENERGY= 567958. MASS FACTOR = 0.99  
 OCCUPANT OASIS 2 SEATING POSITION 11  
 AGE = 20 SEX = 2 HEIGHT= 61 WEIGHT= 115

NCSS CASE NO. 470914018 9 AM WED 14 SEP 1977  
 73 PASS CAR INTERMEDIATE UNKNOWN 13401  
 2 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 19 C1= 16 C2= 18 C3= 18 C4= 18 C5= 16 C6= 14 D=-10 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 12 DELTA-V = 12

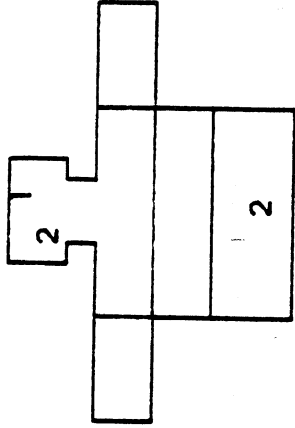
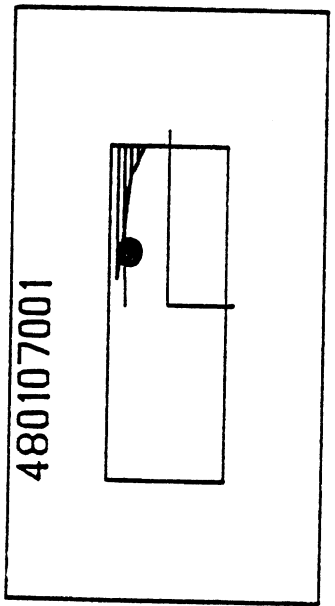
BODY REGION	HEAD-SKULL	KNEE	FACE
DIRECTION	SUPERIOR/UPPER	LEFT	LEFT
TYPE INJURY	CONCUSSION	CONCUSSION	CONCUSSION
BODY ELEMENT	BRAIN	JOINTS	EYES,EARS
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MODERATE AIS2
OBJECT CONTACTED	WINDSHIELD	INSTRUMENT PANEL	WINDSHIELD



IXP = 4 IYP = 36 ZONE = 2  
 WEIGHT = 4247. FORCE = 20558.  
 CRUSH ENERGY= 223547. MASS FACTOR = 0.98  
 OCCUPANT ORIS 2 SEATING POSITION 11  
 AGE = 59 SEX = 2 HEIGHT= 67 WEIGHT= 165

NCSS CASE NO. 480107001 11PM SAT 7 JAN 1978  
 77 PASS CAR MINI-SPECIALTY CHEVROLET 12104  
 6 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORIS= 2 RESTRAINT= NOT USED EJECT/TRAP= TRAPPED WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 10 C1= 64 C2= 41 C3= 14 C4= 8 C5= 0 C6= 0 D=-21 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 14 DELTA-V = 14

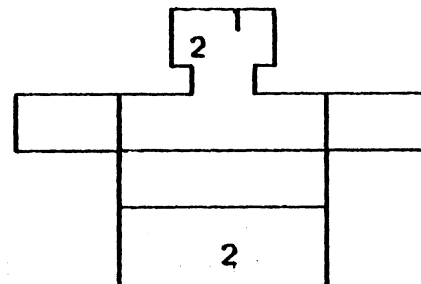
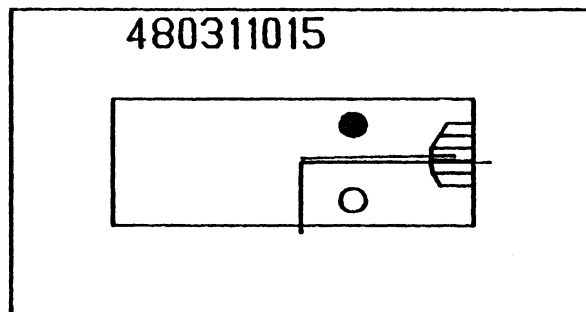
BODY REGION	HEAD-SKULL	ANKLE-FOOT	FACE
DIRECTION	WHOLE REGION	RIGHT	LEFT
TYPE INJURY	CONCUSSION	SPRAIN	CONTUSION
BODY ELEMENT	BRAIN	JOINTS	EYES,EARS
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	WINDSHIELD	INSTRUMENT PANEL	WINDSHIELD



IXP = 12 IYP = 12 ZONE = 1  
 WEIGHT = 2203. FORCE = 20267.  
 CRUSH ENERGY= 425549. MASS FACTOR = 0.81  
 OCCUPANT ORIS 2 SEATING POSITION 11  
 AGE = 19 SEX = 2 HEIGHT= 67 WEIGHT= 125

NCSS CASE NO. 480311015 1 AM SAT 11 MAR 1978  
 77 PASS CAR SUB-COMP/USA CHEVY/CANADA 11318  
 3 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 33 C1= 13 C2= 17 C3= 21 C4= 21 C5= 20 C6= 16 D= -4 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 20 DELTA-V = 20

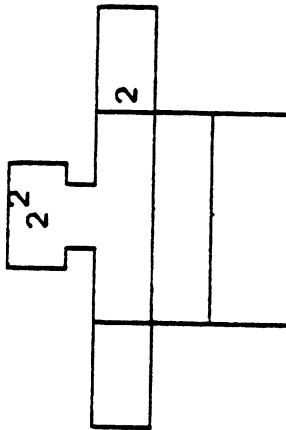
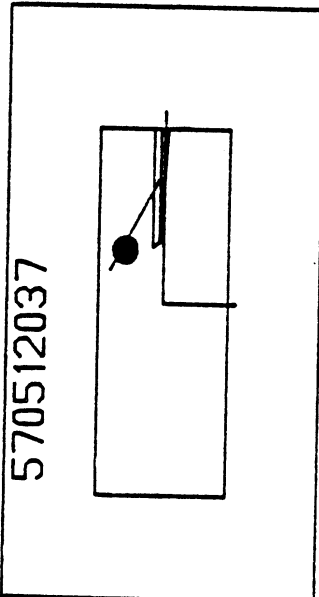
BODY REGION	FACE	KNEE	HEAD-SKULL
DIRECTION	CENTRAL	RIGHT	UNKNOWN
TYPE INJURY	FRACTURE	LACERATION	LACERATION
BODY ELEMENT	RESPIRATORY	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	WINDSHIELD	ADD-ON EQUIP	WINDSHIELD



IXP = 5 IYP = 44 ZONE = 2  
 WEIGHT = 3053. FORCE = 47013.  
 CRUSH ENERGY= 477250. MASS FACTOR = 1.00  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 23 SEX = 1 HEIGHT= 69 WEIGHT= 230

NCSS CASE NO. 570512037 4 PM THU 12 MAY 1977  
 76 PASS CAR FOREIGN SPORTS PONTIAC/CANADA 86119  
 5 CDC EXTENT TO FRONT SIDE FROM 1 OCLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH UTILITY POLE  
 L= 11 C1= 57 C2= 54 C3= 0 C4= 0 C5= 0 C6= 0 D= 0 ICOD= 2  
 LATERAL DELTA-V= 12 LONGITUDINAL DELTA-V= 33 DELTA-V = 35

BODY REGION	WRIST-HAND	HEAD-SKULL	FACE
DIRECTION	LEFT	WHOLE REGION	CENTRAL
TYPE INJURY	FRACTURE	CONCUSSION	FRACTURE
BODY ELEMENT	SKELETAL	BRAIN	RESPIRATORY
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MODERATE AIS2
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN

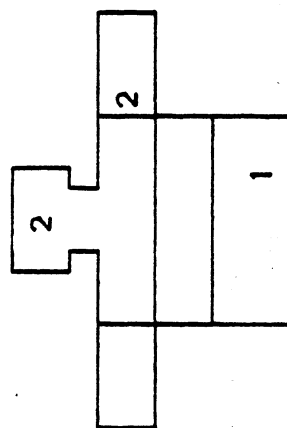
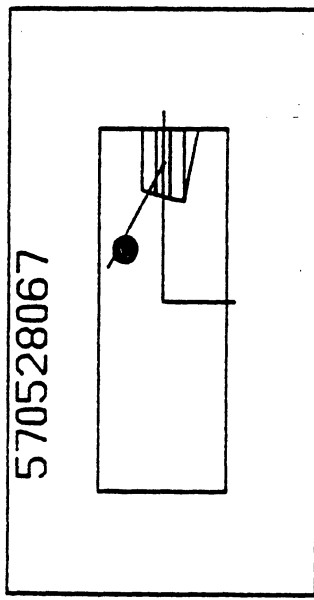


IXP = 14 IYP = 46 ZONE = 2  
 WEIGHT = 3053. FORCE = 26043.  
 CRUSH ENERGY= 743677. MASS FACTOR = 0.75  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 21 SEX = 1 HEIGHT= 69 WEIGHT= 135



NCSS CASE NO. 570528067 6 PM SAT 28 MAY 1977  
 72 PASS CAR SUB-COMP/IMPORT MERCURY 66109  
 4 CDC EXTENT TO FRONT SIDE FROM 1 OCLOCK  
 OASIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH UTILITY POLE  
 L= 22 C1= 30 C2= 32 C3= 34 C4= 35 C5= 0 C6= 0 D= 0 ICOD= 2  
 LATERAL DELTA-V= 17 LONGITUDINAL DELTA-V= 30 DELTA-V = 35

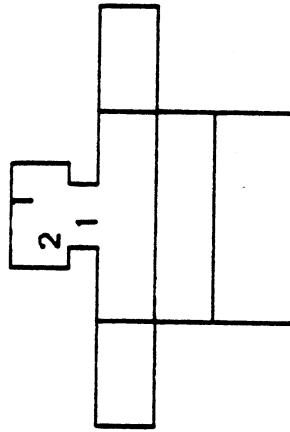
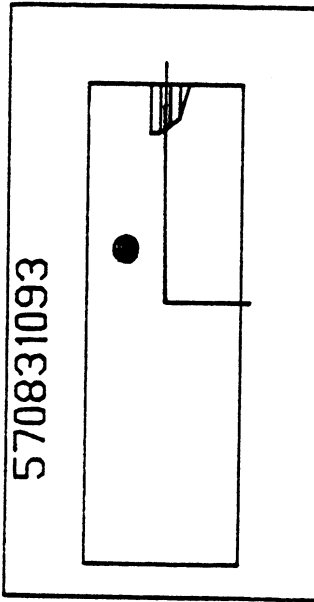
BODY REGION	FOREARM	HEAD-SKULL	KNEE
DIRECTION	LEFT	WHOLE REGION	RIGHT
TYPE INJURY	FRACTURE	CONCUSSION	CONTUSION
BODY ELEMENT	SKELETAL	BRAIN	JOINTS
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 9 IYP = 50 ZONE = 2  
 WEIGHT = 3053. FORCE = 61721.  
 CRUSH ENERGY= 1219920. MASS FACTOR = 0.73  
 OCCUPANT OASIS 2 SEATING POSITION 11  
 AGE = 29 SEX = 4 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 570831093 2 PM WED 31 AUG 1977  
 71 PASS CAR LUXURY/LIMOSINE CADILLAC 11203  
 2 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH UTILITY POLE  
 L= 15 C1= 24 C2= 23 C3= 20 C4= 16 C5= 0 C6= 0 D= 0 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

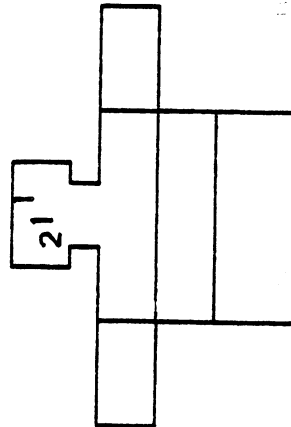
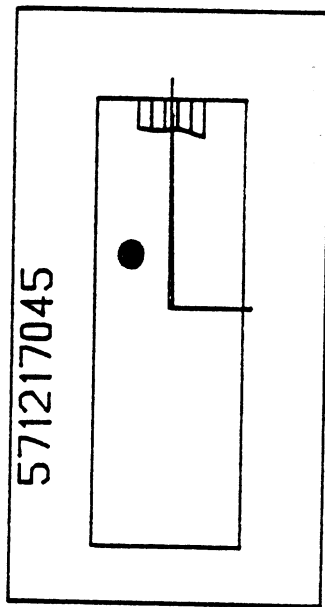
BODY REGION	HEAD-SKULL	NECK	FACE
DIRECTION	WHOLE REGION	POSTERIOR/BACK	WHOLE REGION
TYPE INJURY	CONCUSSION	OTHER	CONTUSION
BODY ELEMENT	BRAIN	MUSCLES	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 4 IYP = 49 ZONE = 2  
 WEIGHT = 5309. FORCE = 16233.  
 CRUSH ENERGY= 239729. MASS FACTOR = 1.00  
 OCCUPANT ORAIS 2 SEATING POSITION 11  
 AGE = 35 SEX = 4 HEIGHT= 69 WEIGHT= 145

NCSS CASE NO. 571217045 10AM SAT 17 DEC 1977  
 73 PASS CAR INTERMEDIATE UNKNOWN 12101  
 2 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 4  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 34 C1= 14 C2= 15 C3= 15 C4= 14 C5= 16 C6= 18 D= 0 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

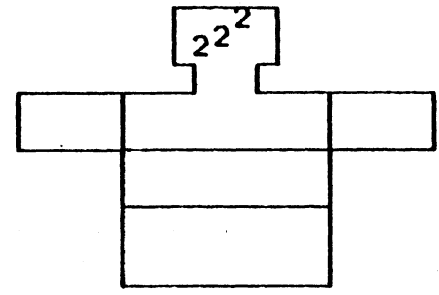
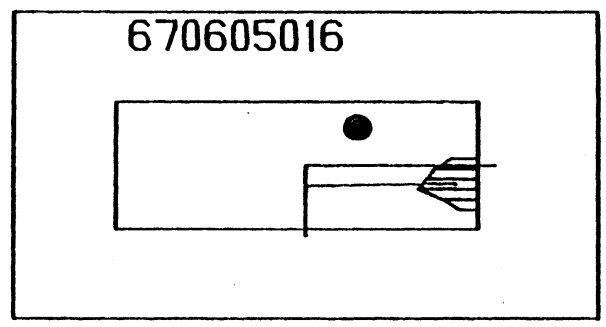
BODY REGION	FACE	FACE	HEAD-SKULL
DIRECTION	INFERIOR/LOWER	INFERIOR/LOWER	SUPERIOR/UPPER
TYPE INJURY	FRACTURE	LACERATION	CONTUSION
BODY ELEMENT	SKELETAL	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	STEERING ASSEMBL	STEERING ASSEMBL	WINDSHIELD



IXP = 3 IYP = 50 ZONE = 2  
 WEIGHT = 4247. FORCE = 33734.  
 CRUSH ENERGY= 336244. MASS FACTOR = 1.00  
 OCCUPANT ORAIS 2 SEATING POSITION 11  
 AGE = 27 SEX = 2 HEIGHT= 64 WEIGHT= 128

NCSS CASE NO. 670605016 7 AM SUN 5 JUN 1977  
 76 PASS CAR SUB-COMP/USA CHEVY/CANADA 11318  
 3 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 OASIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 27 C1= 13 C2= 21 C3= 25 C4= 29 C5= 17 C6= 9 D= 10 ICOD= 2  
 LATERAL DELTA-V= 5 LONGITUDINAL DELTA-V= 20 DELTA-V = 21

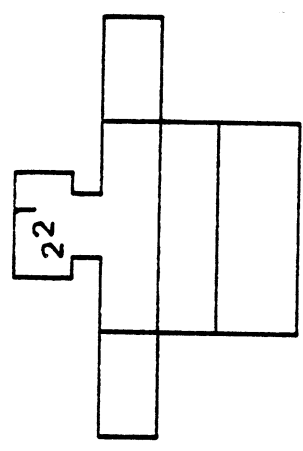
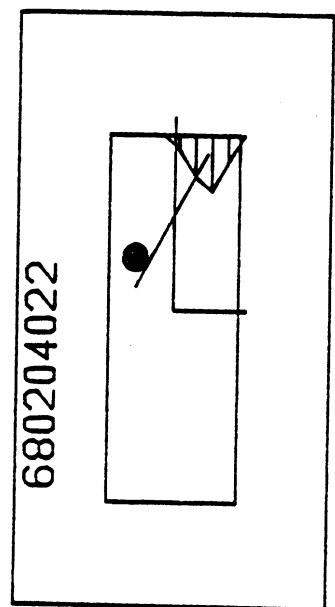
BODY REGION	HEAD-SKULL	FACE	FACE
DIRECTION	WHOLE REGION	SUPERIOR/UPPER	INFERIOR/LOWER
TYPE INJURY	CONCUSSION	LACERATION	LACERATION
BODY ELEMENT	BRAIN	INTEGUMENTARY	DIGESTIVE
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MODERATE AIS2
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 6 IYP = 64 ZONE = 2  
 WEIGHT = 3053. FORCE = 42113.  
 CRUSH ENERGY= 490384. MASS FACTOR = 0.96  
 OCCUPANT OASIS 2 SEATING POSITION 11  
 AGE = 25 SEX = 2 HEIGHT= 66 WEIGHT= 142

NCSS CASE NO. 680204022 6 PM SAT 4 FEB 1978  
 76 PASS CAR SPECIALTY/PONY PONTIAC 13406  
 3 CDC EXTENT TO FRONT SIDE FROM 1 OCLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 42 C1= 0 C2= 7 C3= 20 C4= 27 C5= 13 C6= 0 D= 15 ICOD= 2  
 LATERAL DELTA-V= 7 LONGITUDINAL DELTA-V= 12 DELTA-V = 13

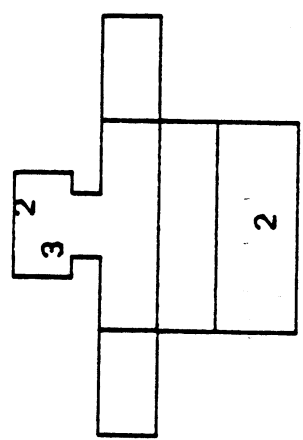
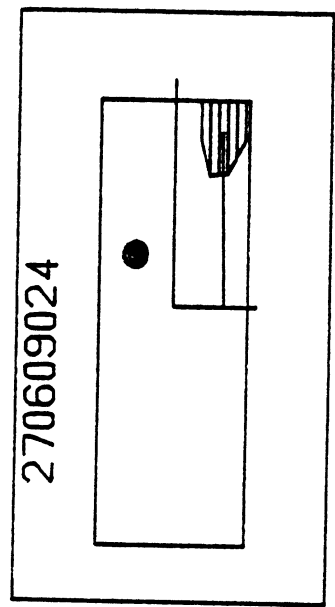
BODY REGION	HEAD-SKULL	FACE	FACE
DIRECTION	SUPERIOR/UPPER	RIGHT	CENTRAL
TYPE INJURY	CONCUSSION	LACERATION	LACERATION
BODY ELEMENT	BRAIN	EYES,EARS	RESPIRATORY
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	MIRRORS	WINDSHIELD	WINDSHIELD



IXP = 5 IYP = 74 ZONE = 3  
 WEIGHT = 3053. FORCE = 50813.  
 CRUSH ENERGY= 569176. MASS FACTOR = 0.85  
 OCCUPANT OAIS 2 SEATING POSITION 11  
 AGE = 19 SEX = 1 HEIGHT= 70 WEIGHT= 188

NCSS CASE NO. 270609024 1 AM THU 9 JUN 1977  
 73 PASS CAR INTERMEDIATE UNKNOWN 11301  
 3 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 ORAIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 23 C1= 19 C2= 36 C3= 35 C4= 35 C5= 27 C6= 19 D= 25 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 20 DELTA-V = 20

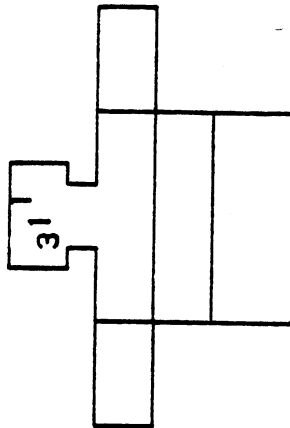
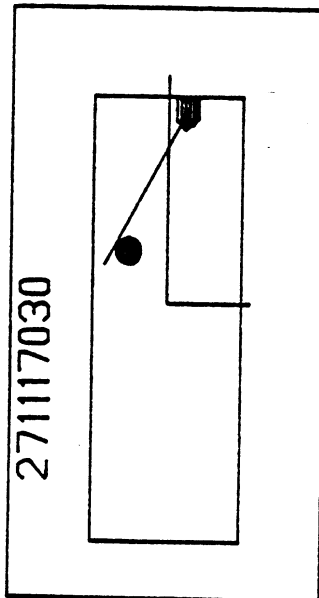
BODY REGION	FACE	KNEE	HEAD-SKULL
DIRECTION	LEFT	LEFT	SUPERIOR/UPPER
TYPE INJURY	AVULSION	LACERATION	CONCUSSION
BODY ELEMENT	INTEGUMENTARY	INTEGUMENTARY	BRAIN
INJURY LEVEL	SEVERE AIS3	MODERATE AIS2	MODERATE AIS2
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 7 IYP = 81 ZONE = 3  
 WEIGHT = 4247. FORCE = 40265.  
 CRUSH ENERGY= 723021. MASS FACTOR = 0.85  
 OCCUPANT ORAIS 3 SEATING POSITION 11  
 AGE = 23 SEX = 1 HEIGHT= 68 WEIGHT= 165

NCSS CASE NO. 271117030 MIDN THU 17 NOV 1977  
 73 PASS CAR INTERMEDIATE UNKNOWN 11501  
 2 CDC EXTENT TO FRONT SIDE FROM 1 OCLOCK  
 OAIRS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 11 C1= 12 C2= 14 C3= 16 C4= 14 C5= 13 C6= 10 D= 10 ICOD= 2  
 LATERAL DELTA-V= 4 LONGITUDINAL DELTA-V= 7 DELTA-V = 8

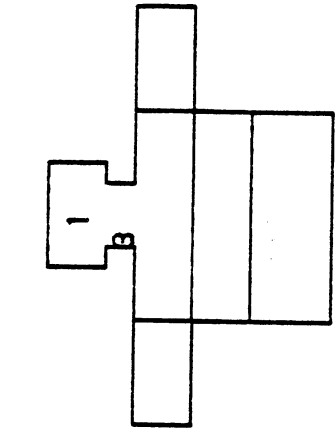
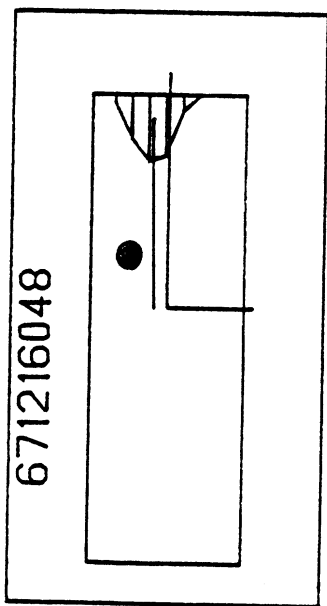
BODY REGION	HEAD-SKULL	FACE	HEAD-SKULL
DIRECTION	SUPERIOR/UPPER	LEFT	LEFT
TYPE INJURY	CONCUSSION	CONCUSSION	CONCUSSION
BODY ELEMENT	BRAIN	EYES,EARS	EYES,EARS
INJURY LEVEL	SEVERE AIS3	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	WINDSHIELD	WINDSHIELD	WINDSHIELD



IXP = 3 IYP = 62 ZONE = 2  
 WEIGHT = 4247. FORCE = 11588.  
 CRUSH ENERGY= 123090. MASS FACTOR = 0.73  
 OCCUPANT OAIRS 3 SEATING POSITION 11  
 AGE = 21 SEX = 1 HEIGHT= 71 WEIGHT= 180

NCSS CASE NO. 671216048 9 PM FRI 16 DEC 1977  
 70 PASS CAR FULL SIZE BUICK 12102  
 3 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 44 C1= 4 C2= 21 C3= 32 C4= 29 C5= 8 C6= 0 D= -6 ICOD= 2  
 LATERAL DELTA-V= 2 LONGITUDINAL DELTA-V= 21 DELTA-V = 21

BODY REGION	NECK	HEAD-SKULL	UNKNOWN
DIRECTION	ANTERIOR/FRONT	SUPERIOR/UPPER	UNKNOWN
TYPE INJURY	LACERATION	CONTUSION	OTHER
BODY ELEMENT	NERVOUS SYSTEM	INTEGUMENTARY	MISSING
INJURY LEVEL	SEVERE AIS3	MINOR AIS1	INJURED/UNK SEV
OBJECT CONTACTED	WINDSHIELD	WINDSHIELD	MISSING

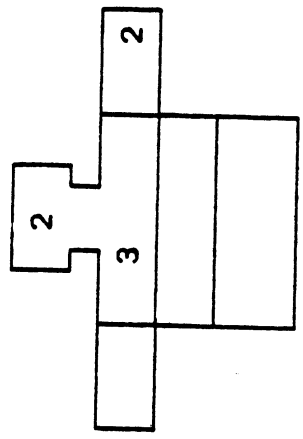
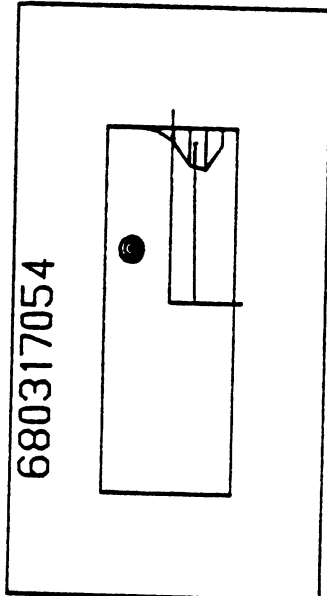


671216048  
 IXP = 5 IYP = 39 ZONE = 2  
 WEIGHT = 4865. FORCE = 43396.  
 CRUSH ENERGY= 666332. MASS FACTOR = 0.99  
 OCCUPANT ORIS 3 SEATING POSITION 11  
 AGE = 28 SEX = 1 HEIGHT= 68 WEIGHT= 190



NCSS CASE NO. 680317054 4 AM FRI 17 MAR 1978  
 71 PASS CAR SUB-COMP/IMPORT MERCURY 66109  
 3 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 OAIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH UTILITY POLE  
 L= 42 C1= 0 C2= 2 C3= 7 C4= 18 C5= 20 C6= 8 D= 5 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 17 DELTA-V = 18

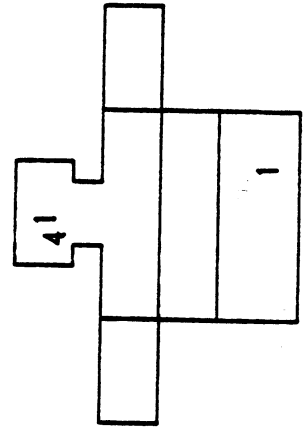
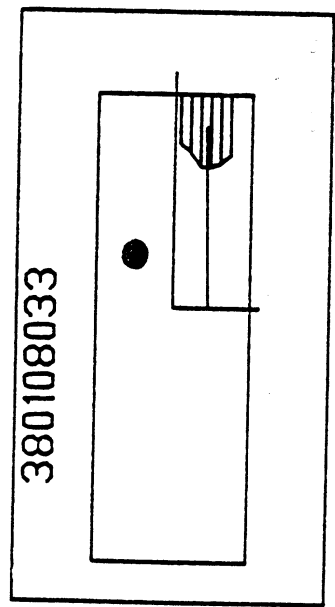
BODY REGION	CHEST	HEAD-SKULL	WRIST-HAND
DIRECTION	LEFT	SUPERIOR/UPPER	LEFT
TYPE INJURY	FRACTURE	CONCUSSION	DISLOCATION
BODY ELEMENT	SKELETAL	BRAIN	JOINTS
INJURY LEVEL	SEVERE AIS3	MODERATE AIS2	MODERATE AIS2
OBJECT CONTACTED	STEERING ASSEMBL	WINDSHIELD	STEERING ASSEMBL



IXP = 4 IYP = 67 ZONE = 2  
 WEIGHT = 3053. FORCE = 34449.  
 CRUSH ENERGY= 270094. MASS FACTOR = 0.94  
 OCCUPANT OAIS 3 SEATING POSITION 11  
 AGE = 25 SEX = 2 HEIGHT= 66 WEIGHT= 145

NCSS CASE NO. 380108033 NOON SUN 8 JAN 1978  
 73 WAGON FULL SIZE BUICK 12102  
 3 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORAIS= 4 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 26 C1= 24 C2= 28 C3= 35 C4= 35 C5= 33 C6= 29 D= 16 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 19 DELTA-V = 19

BODY REGION	HEAD-SKULL	HEAD-SKULL	LEG
DIRECTION	UNKNOWN	RIGHT	LEFT
TYPE INJURY	CONCUSSION	CONTOUSION	ABRASION
BODY ELEMENT	BRAIN	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	SERIOUS AIS4	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	SUNVISOR/FITTING	UNKNOWN



IXP = 7 IYP = 70 ZONE = 3  
 WEIGHT = 4865. FORCE = 38208.  
 CRUSH ENERGY= 766395. MASS FACTOR = 0.93  
 OCCUPANT ORAIS 4 SEATING POSITION 11  
 AGE = 16 SEX = 1 HEIGHT= 66 WEIGHT= 140

NCSS CASE NO. 470527043 5 PM FRI 27 MAY 1977

74 PASS CAR MINI-SPECIALTY CHEVROLET 12104

4 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK

ORIS= 4 RESTRAINT= NOT USED EJECT/TRAP= NONE

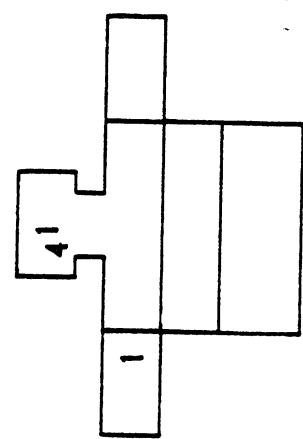
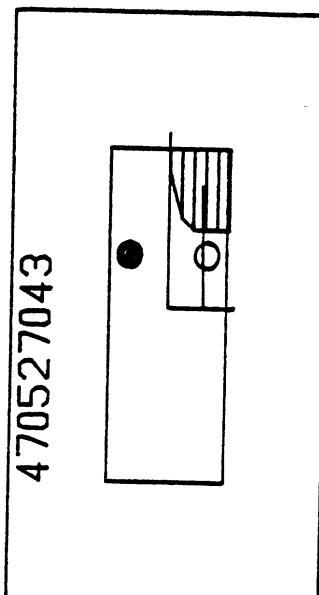
A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES

L= 31 C1= 11 C2= 33 C3= 39 C4= 39 C5= 39 C6= 39 D= 16 ICOD= 2

LATERAL DELTA-V= 6 LONGITUDINAL DELTA-V= 34 DELTA-V = 35

WEIGHTING F= 1

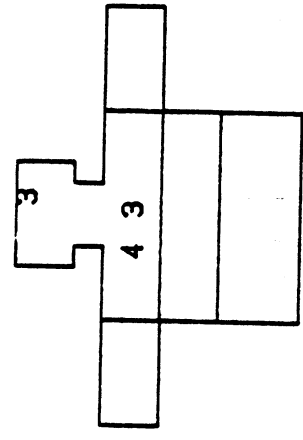
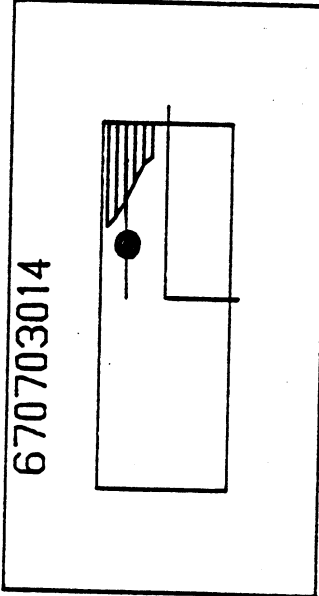
BODY REGION	HEAD-SKULL	FACE	ELBOW
DIRECTION	SUPERIOR/UPPER	RIGHT	RIGHT
TYPE INJURY	CONTUSION	CONTUSION	LACERATION
BODY ELEMENT	BRAIN	EYES,EARS	INTEGUMENTARY
INJURY LEVEL	SERIOUS AIS4	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 11 IYP = 78 ZONE = 3  
 WEIGHT = 2203. FORCE = 72087.  
 CRUSH ENERGY= 1361472. MASS FACTOR = 0.85  
 OCCUPANT ORIS 4 SEATING POSITION 11  
 AGE = 17 SEX = 1 HEIGHT= 67 WEIGHT= 120

NCSS CASE NO. 670703014 7 AM SUN 3 JUL 1977  
 74 PASS CAR SUB-COMP/USA CHEVY/CANADA 11318  
 4 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 ORAIS= 4 RESTRAINT= NOT USED EJECT/TRAP= TRAPPED WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 23 C1= 50 C2= 45 C3= 38 C4= 29 C5= 20 C6= 16 D=19 ICOD= 2  
 LATERAL DELTA-V= 3 LONGITUDINAL DELTA-V= 31 DELTA-V = 31

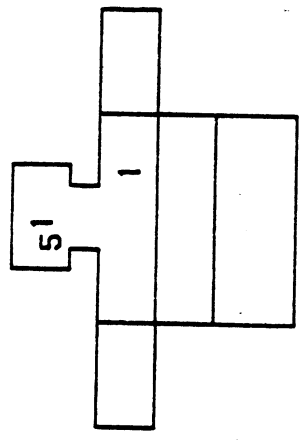
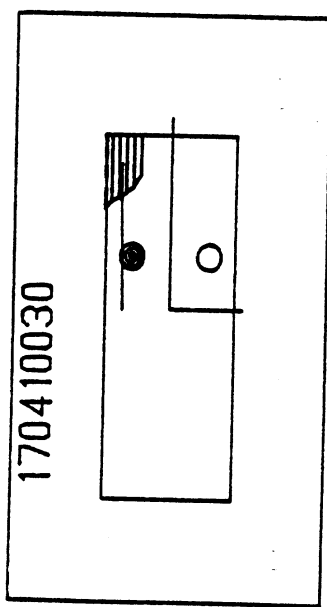
BODY REGION	CHEST	CHEST	HEAD-SKULL
DIRECTION	BILATERAL	LEFT	SUPERIOR/UPPER
TYPE INJURY	FRACTURE	CONTUSION	FRACTURE
BODY ELEMENT	SKELETAL	PULMONARY	SKELETAL
INJURY LEVEL	SERIOUS AIS4	SEVERE AIS3	SEVERE AIS3
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 10 IYP = 18 ZONE = 1  
 WEIGHT = 3053. FORCE = 56155.  
 CRUSH ENERGY= 1062317. MASS FACTOR = 0.88  
 OCCUPANT ORAIS 4 SEATING POSITION 11  
 AGE = 41 SEX = 1 HEIGHT= 69 WEIGHT= 145

NCSS CASE NO. 170410030 MIDN SUN 10 APL 1977  
 71 PASS CAR SPECIALTY/PONY PONTIAC 13406  
 3 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 OAIS= 5 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 19 C1= 36 C2= 32 C3= 30 C4= 28 C5= 25 C6= 19 D=-25 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 19 DELTA-V = 19

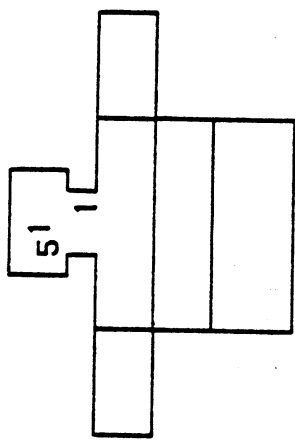
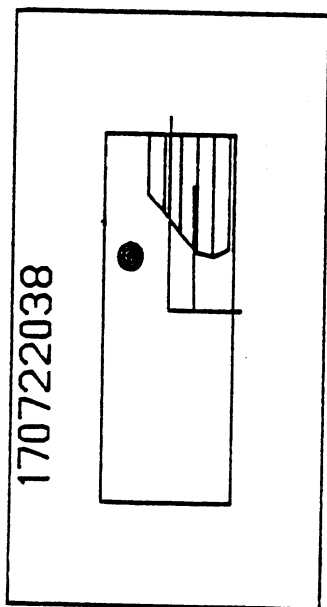
BODY REGION	HEAD-SKULL	FACE	CHEST
DIRECTION	INFERIOR/LOWER	RIGHT	WHOLE REGION
TYPE INJURY	CONCUSSION	LACERATION	ABRASION
BODY ELEMENT	BRAIN	EYES,EARS	INTEGUMENTARY
INJURY LEVEL	CRITICAL AISS	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 8 IYP = 11 ZONE = 1  
 WEIGHT = 3053. FORCE = 40309.  
 CRUSH ENERGY= 613287. MASS FACTOR = 0.83  
 OCCUPANT OAIS 5 SEATING POSITION 11  
 AGE = 22 SEX = 1 HEIGHT= 66 WEIGHT= 130

NCSS CASE NO. 170722038 2 AM FRI 22 JUL 1977  
 74 PASS CAR SUB-COMP/IMPORT MERCURY 62209  
 5 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 OAIS= 5 RESTRAINT= NOT USED EJECT/TRAP= TRAPPED WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 42 C1= 29 C2= 37 C3= 47 C4= 56 C5= 58 C6= 54 D= 10 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 52 DELTA-V = 52

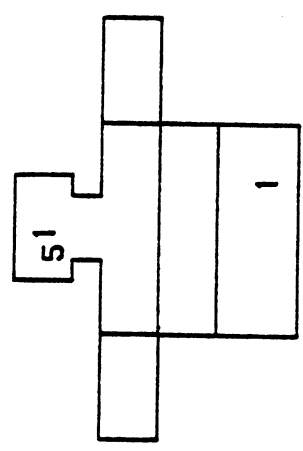
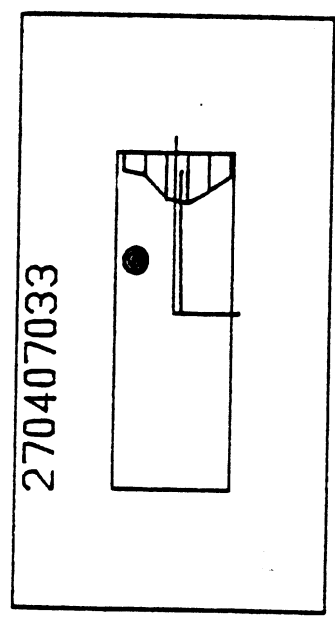
BODY REGION	HEAD-SKULL	HEAD-SKULL	NECK
DIRECTION	INFERIOR/LOWER	SUPERIOR/UPPER	POSTERIOR/BACK
TYPE INJURY	CONTUSION	LACERATION	PAIN
BODY ELEMENT	BRAIN	INTEGUMENTARY	MUSCLES
INJURY LEVEL	CRITICAL AISI	MINOR AISI	MINOR AISI
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 14 IYP = 68 ZONE = 3  
 WEIGHT = 3053. FORCE = 147044.  
 CRUSH ENERGY= 3751317. MASS FACTOR = 0.94  
 OCCUPANT OAIS 5 SEATING POSITION 11  
 AGE = 20 SEX = 1 HEIGHT= 72 WEIGHT= 148

NCSS CASE NO. 270407033 3 AM THU 7 APL 1977  
 76 PASS CAR MINI-SPECIALTY CHEVROLET 11404  
 3 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORIS= 5 RESTRAINT= NOT USED EJECT/TRAP= TRAPPED WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 55 C1= 9 C2= 11 C3= 22 C4= 24 C5= 18 C6= 11 D= 1 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 24 DELTA-V = 24

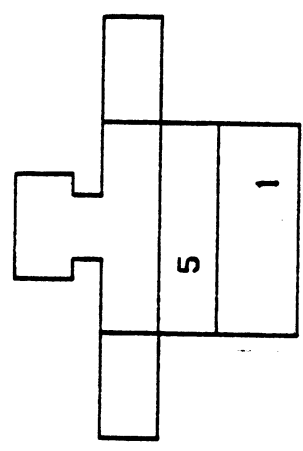
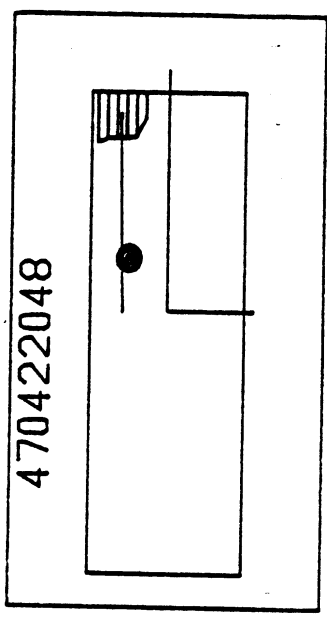
BODY REGION	HEAD-SKULL	FACE	LEG
DIRECTION	UNKNOWN	CENTRAL	RIGHT
TYPE INJURY	LACERATION	LACERATION	ABRASION
BODY ELEMENT	BRAIN	RESPIRATORY	INTEGUMENTARY
INJURY LEVEL	CRITICAL AISS	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 5 IYP = 54 ZONE = 2  
 WEIGHT = 2203. FORCE = 64537.  
 CRUSH ENERGY= 635739. MASS FACTOR = 0.99  
 OCCUPANT ORIS 5 SEATING POSITION 11  
 AGE = 27 SEX = 1 HEIGHT= 72 WEIGHT= 175

NCCS CASE NO. 470422048 3 PM FRI 22 APL 1977  
 75 PASS CAR LUXURY/LIMOSINE CADILLAC 11403  
 3 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 ORIS= 5 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 25 C1= 24 C2= 22 C3= 22 C4= 22 C5= 21 C6= 12 D=24 ICOD= 2  
 LATERAL DELTA-V= 1 LONGITUDINAL DELTA-V= 13 DELTA-V = 13

BODY REGION	ABDOMEN	HEAD-SKULL	BACK
DIRECTION	RIGHT	WHOLE REGION	INFERIOR/LOWER
TYPE INJURY	LACERATION	CONCUSSION	PAIN
BODY ELEMENT	LIVER	BRAIN	MUSCLES
INJURY LEVEL	CRITICAL AISS	INJURED/UNK SEV	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN

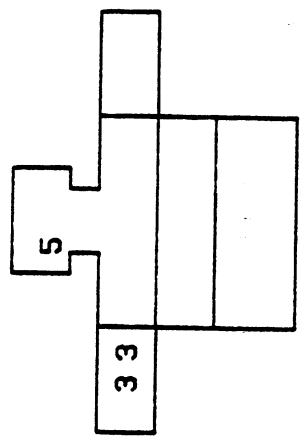
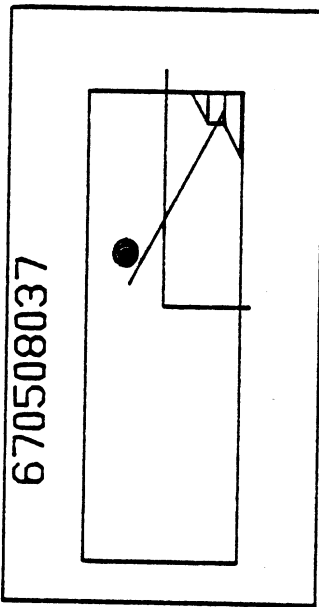


IXP = 4 IYP = 19 ZONE = 1  
 WEIGHT = 5309. FORCE = 27055.  
 CRUSH ENERGY= 399938. MASS FACTOR = 0.89  
 OCCUPANT ORIS 5 SEATING POSITION 11  
 AGE = 40 SEX = 2 HEIGHT= 60 WEIGHT= 94



NCSS CASE NO. 670508037 5 AM SUN 8 MAY 1977  
 77 PASS CAR FULL SIZE BUICK 12102  
 3 CDC EXTENT TO FRONT SIDE FROM 1 OCLOCK  
 ORAIS= 5 RESTRAINT= NOT USED EJECT/TRAP= COMPLETE EJECTIO WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 26 C1= 0 C2= 15 C3= 15 C4= 31 C5= 0 C6= 0 D= 26 ICOD= 1  
 LATERAL DELTA-V= 16 LONGITUDINAL DELTA-V= 16 DELTA-V = 23

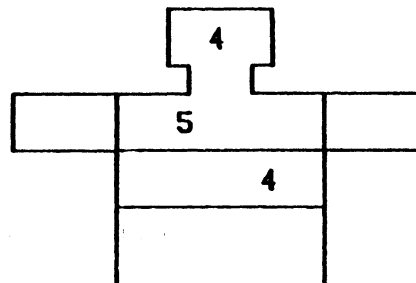
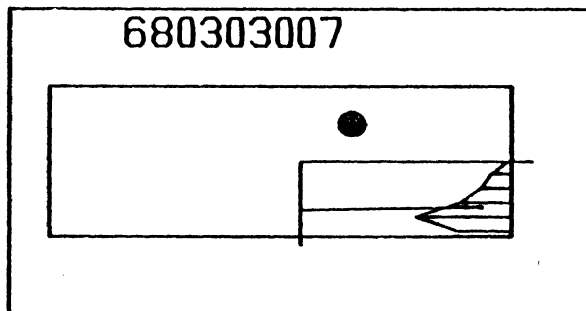
BODY REGION	HEAD-SKULL	WRIST-HAND	ELBOW
DIRECTION	POSTERIOR/BACK	RIGHT	RIGHT
TYPE INJURY	CONTUSION	LACERATION	DISLOCATION
BODY ELEMENT	BRAIN	MUSCLES	JOINTS
INJURY LEVEL	CRITICAL AIS3	SEVERE AIS3	SEVERE AIS3
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 4 IYP = 86 ZONE = 3  
 WEIGHT = 4865. FORCE = 26029.  
 CRUSH ENERGY= 387329. MASS FACTOR = 0.91  
 OCCUPANT ORAIS 5 SEATING POSITION 11  
 AGE = 21 SEX = 1 HEIGHT= 71 WEIGHT= 157

NCSS CASE NO. 680303007 9 PM FRI 3 MAR 1978  
 71 PASS CAR FULL SIZE BUICK 11302  
 4 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORIS= 5 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH UTILITY POLE  
 L= 38 C1= 0 C2= 10 C3= 15 C4= 25 C5= 46 C6= 26 D= 18 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 20 DELTA-V = 20

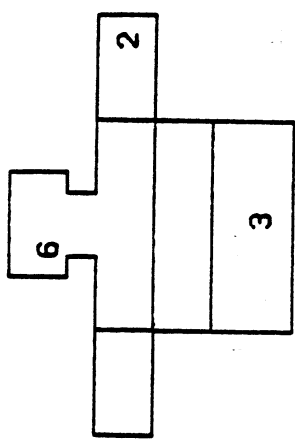
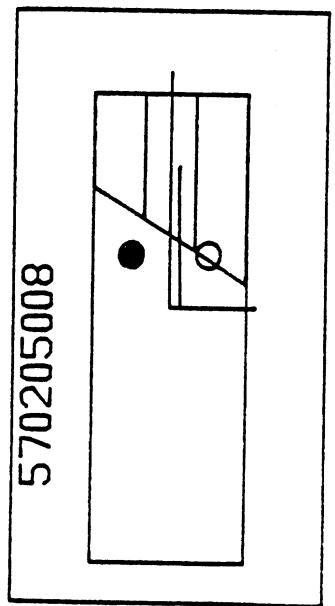
BODY REGION	CHEST	HEAD-SKULL	ABDOMEN
DIRECTION	CENTRAL	POSTERIOR/BACK	RIGHT
TYPE INJURY	LACERATION	FRACTURE	LACERATION
BODY ELEMENT	ARTERIES	SKELETAL	LIVER
INJURY LEVEL	CRITICAL AIS5	SERIOUS AIS4	SERIOUS AIS4
OBJECT CONTACTED	STEERING ASSEMBL	MIRRORS	STEERING ASSEMBL



IXP = 6 IYP = 80 ZONE = 3  
 WEIGHT = 4865. FORCE = 42245.  
 CRUSH ENERGY= 755707. MASS FACTOR = 0.86  
 OCCUPANT ORIS 5 SEATING POSITION 11  
 AGE = 55 SEX = 1 HEIGHT= 68 WEIGHT= 190

NCSS CASE NO. 570205008 3 AM SAT 5 FEB 1977  
 70 PASS CAR FULL SIZE BUICK 11302  
 7 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 ORIS= 6 RESTRAINT= NOT USED EJECT/TRAP= COMPLETE EJECTIO WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 79 C1= 45 C2= 60 C3= 75 C4= 91 C5= 0 C6= 0 D= 0 ICOD= 1  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 53 DELTA-V = 53

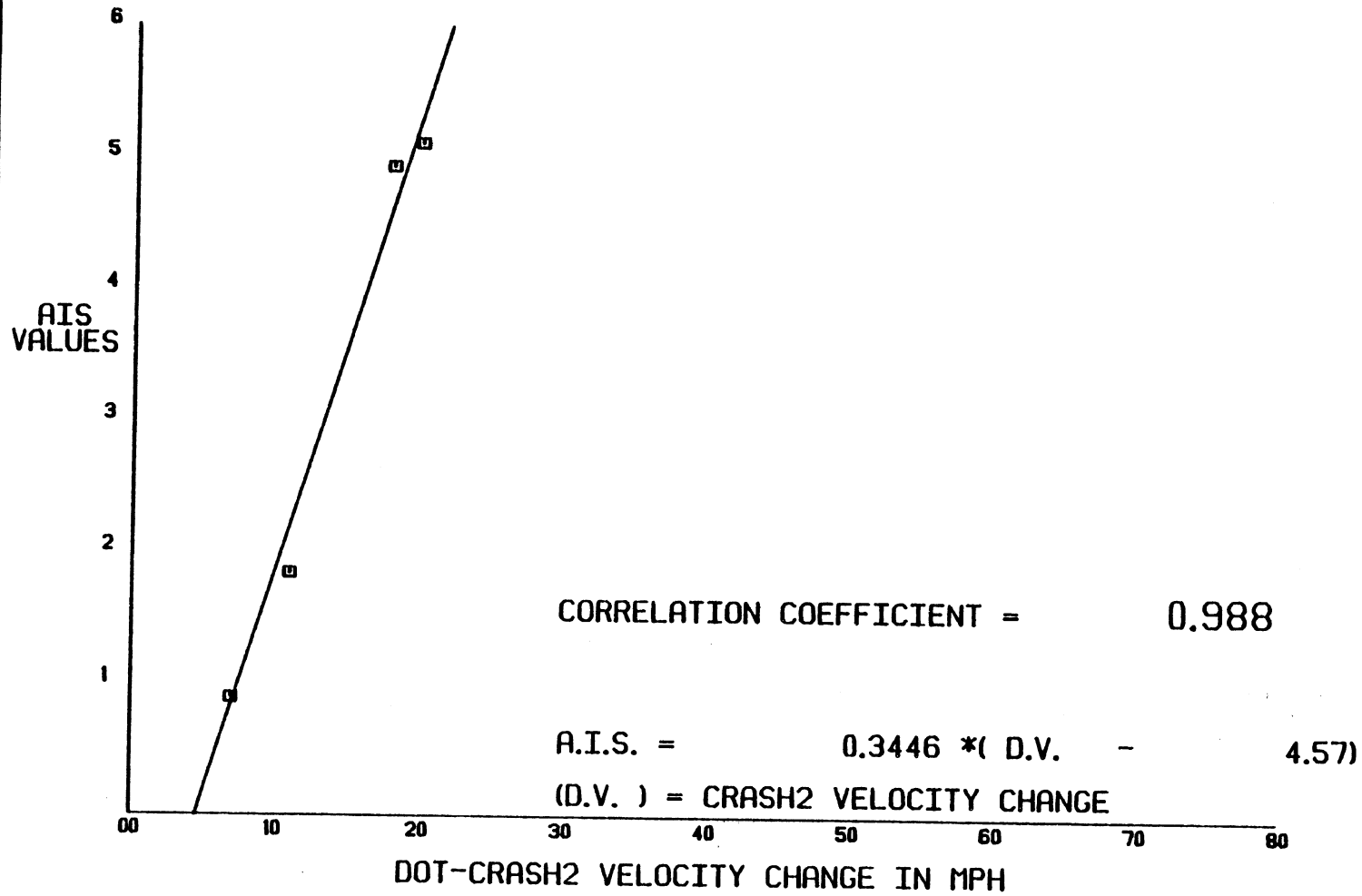
BODY REGION	HEAD-SKULL	ANKLE-FOOT	WRIST-HAND
DIRECTION	WHOLE REGION	RIGHT	LEFT
TYPE INJURY	CRUSHING	DISLOCATION	LACERATION
BODY ELEMENT	ALL SYSTEMS	JOINTS	INTEGUMENTARY
INJURY LEVEL	MAXIMUM-FATAL	SEVERE AIS3	MODERATE AIS2
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



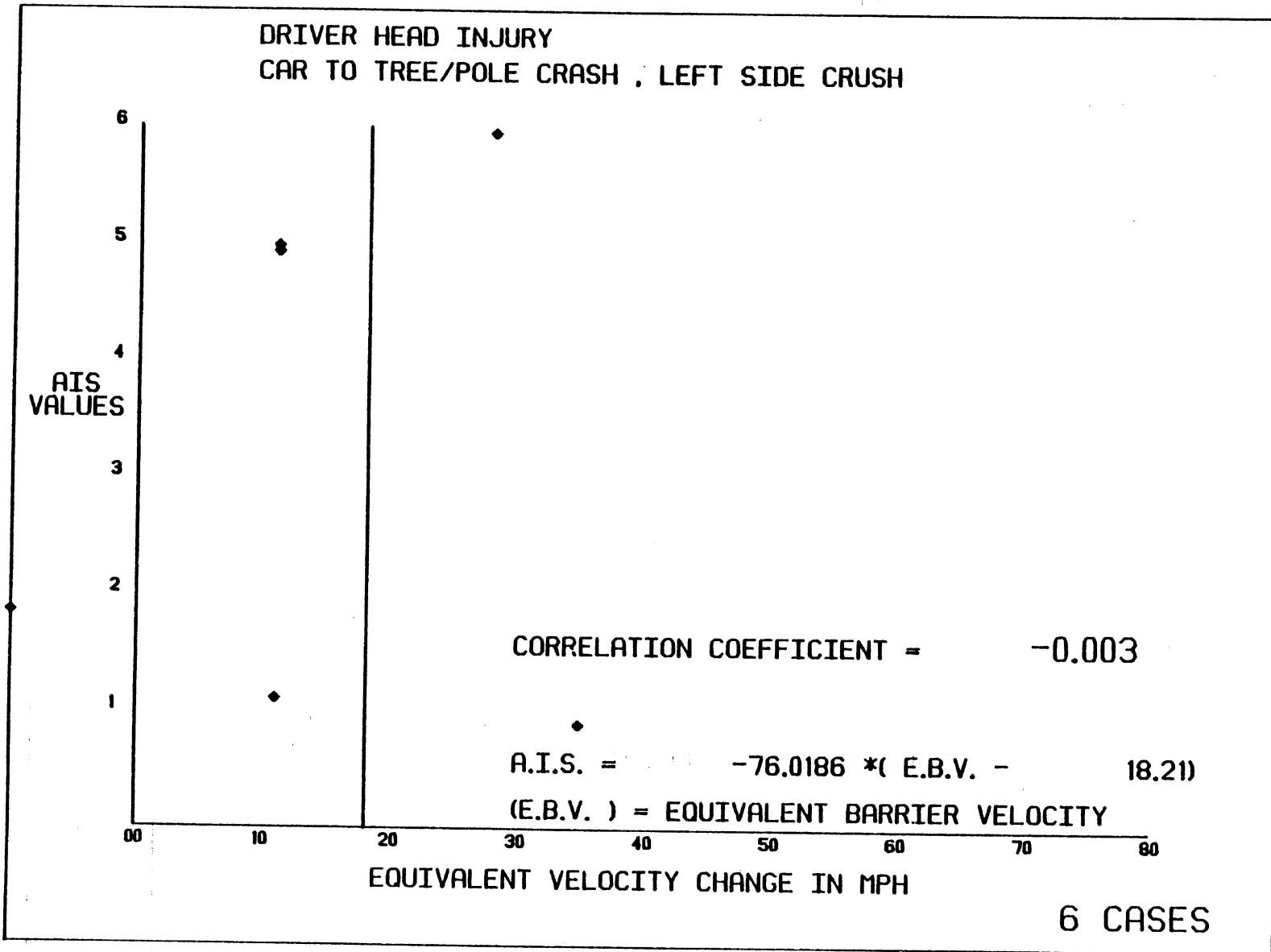
IXP = 15 IYP = 55 ZONE = 2  
 WEIGHT = 4865. FORCE = 221494.  
 CRUSH ENERGY= 8671535. MASS FACTOR = 0.99  
 OCCUPANT ORIS 6 SEATING POSITION 11  
 AGE = 16 SEX = 1 HEIGHT= 66 WEIGHT= 165

DRIVER HEAD INJURY		CAR TO TREE/POLE CRASH, LEFT-SIDE CRUSH				DOT-CRASH2	
VEHICLE CODE	NCSS CASE	LEVEL INJURY	TYPE INJURY	OBJECT CONTACTED	PEAK DECELERATION	EQUIVALENT BARRIER SPEED	DELTA-V
11104	470630051	2	AIS CONCUSSION	UNKNOWN	9 G	35 MPH	11 MPH
12104	670827091	1	AIS CONCUSSION	A-PILLAR	6 G	11 MPH	7 MPH
66105	470622046	1	AIS CONCUSSION	OTHER OCCUPANTS	11 G	11 MPH	0 MPH
11302	471109016	5	AIS CONCUSSION	UNKNOWN	23 G	28 MPH	20 MPH
12201	170531037	6	AIS CONCUSSION	UUUUUUUUUUUUUUUUUU	3 G	11 MPH	0 MPH
12108	680129077	4	AIS FRACTURE	UNKNOWN	10 G	13 MPH	18 MPH
		5	AIS LACERATION	A-PILLAR			

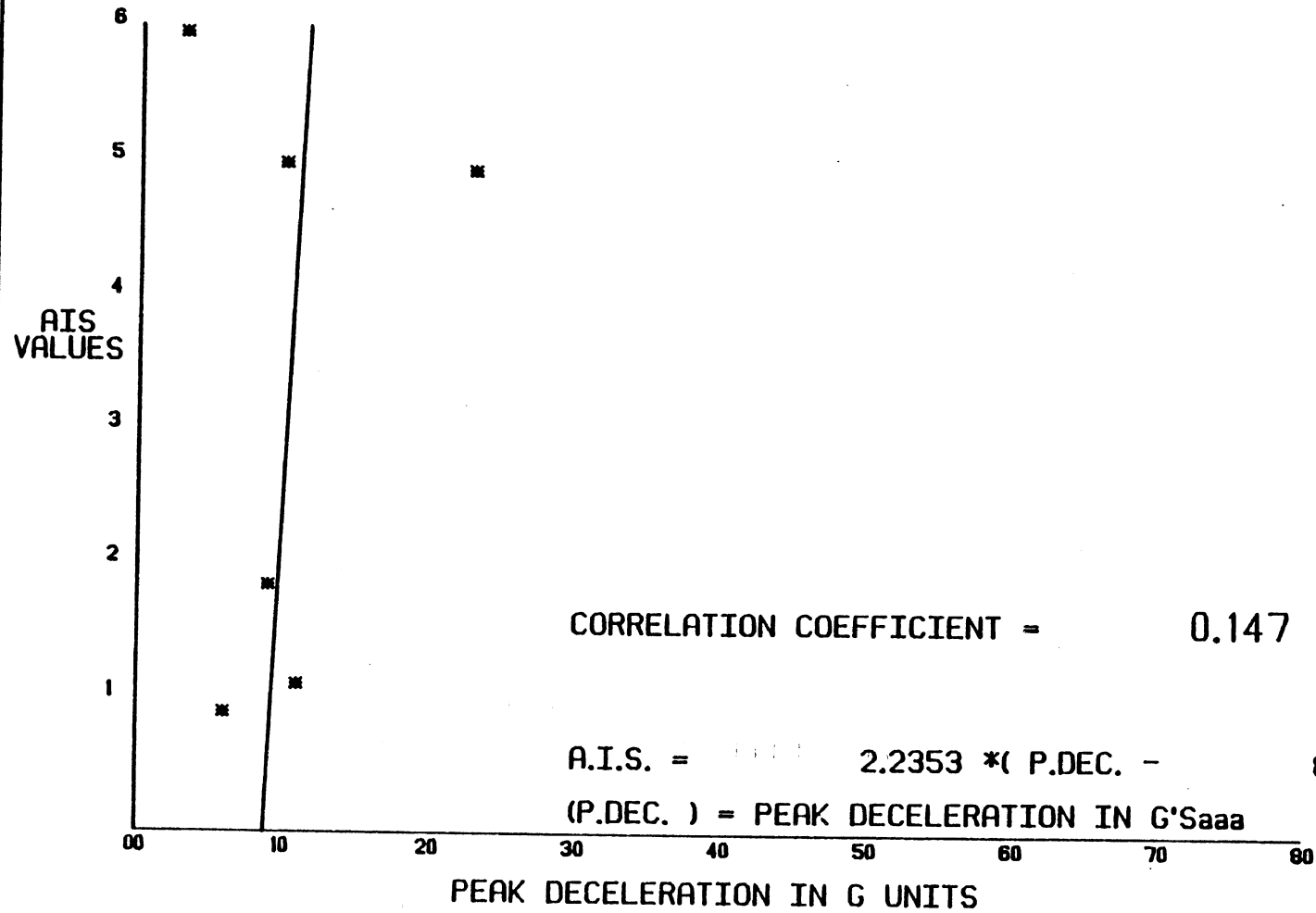
DRIVER HEAD INJURY  
CAR TO TREE/POLE CRASH , LEFT SIDE CRUSH



4 CASES



DRIVER HEAD INJURY  
CAR TO TREE/POLE CRASH , LEFT SIDE CRUSH



CORRELATION COEFFICIENT = 0.147

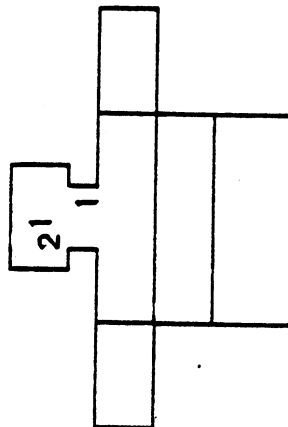
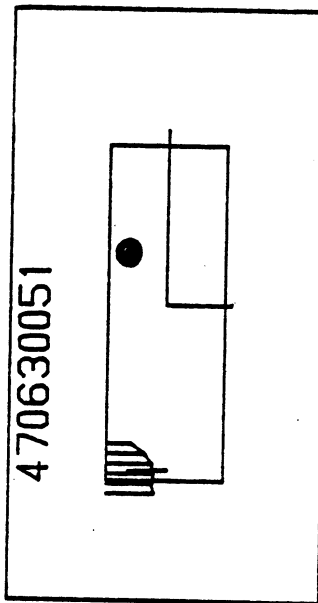
A.I.S. = 2.2353 \* ( P.DEC. - 8.84)

(P.DEC. ) = PEAK DECELERATION IN G'Saaa

6 CASES

NCSS CASE NO. 470630051 11PM THU 30 JUN 1977  
 75 PASS CAR MINI-SPECIALTY CHEVROLET 11104  
 4 CDC EXTENT TO LEFT SIDE FROM 9 OCLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ SIDE TYPE CRASH WITH TREE>6 INCHES  
 L= 24 C1= 25 C2= 24 C3= 25 C4= 24 C5= 20 C6= 13 D=-78 ICOD= 2  
 LATERAL DELTA-V= 11 LONGITUDINAL DELTA-V= 0 DELTA-V = 11

BODY REGION	HEAD-SKULL	FACE	NECK
DIRECTION	WHOLE REGION	SUPERIOR/UPPER	POSTERIOR/BACK
TYPE INJURY	CONCUSSION	LACERATION	PAIN
BODY ELEMENT	BRAIN	INTEGUMENTARY	MUSCLES
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN

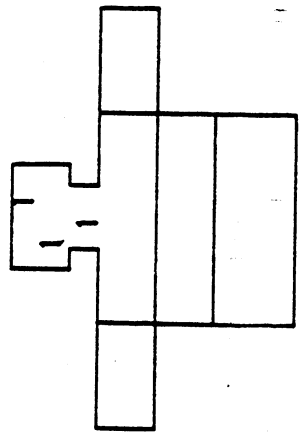
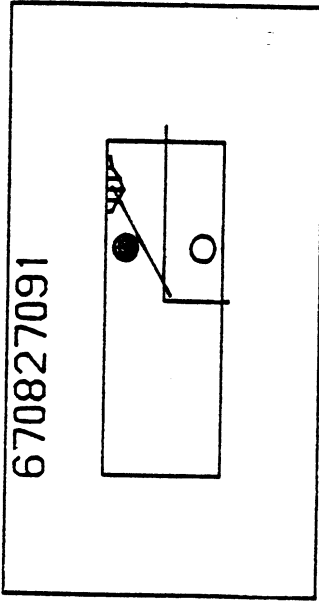


IXP = 96 IYP = 18 ZONE = 6  
 WEIGHT = 2203. FORCE = 21583.  
 CRUSH ENERGY= 269171. MASS FACTOR = 0.25  
 OCCUPANT ORAIS 2 SEATING POSITION 11  
 AGE = 54 SEX = 1 HEIGHT= 73 WEIGHT= 173



NCSS CASE NO. 670827091 9 AM SAT 27 AUG 1977  
 74 PASS CAR MINI-SPECIALTY CHEVROLET 12104  
 2 CDC EXTENT TO LEFT SIDE FROM 110CLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ SIDE TYPE CRASH WITH UTILITY POLE  
 L= 26 C1= 3 C2= 6 C3= 9 C4= 7 C5= 3 C6= 2 D= 55 ICOD= 2  
 LATERAL DELTA-V= 6 LONGITUDINAL DELTA-V= 6 DELTA-V = 7

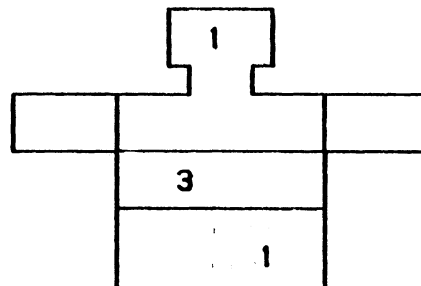
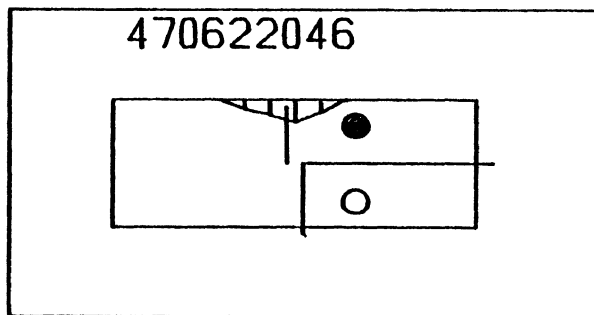
BODY REGION DIRECTION TYPE INJURY BODY ELEMENT INJURY LEVEL OBJECT CONTACTED	HEAD-SKULL WHOLE REGION CONCUSSION BRAIN MINOR AISI A-PILLAR	NECK POSTERIOR/BACK PAIN MUSCLES MINOR AISI UNKNOWN	HEAD-SKULL RIGHT CONTOUSION INTEGUMENTARY MINOR AISI OTHER OCCUPANTS
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IXP = 13 IYP = 5 ZONE = 1  
 WEIGHT = 2203. FORCE = 14509.  
 CRUSH ENERGY= 119365. MASS FACTOR = 0.99  
 OCCUPANT ORAIS 2 SEATING POSITION 11  
 AGE = 18 SEX = 2 HEIGHT= 65 WEIGHT= 115

NCSS CASE NO. 470622046 10AM WED 22 JUN 1977  
 73 PASS CAR SUB-COMP/IMPORT MERCURY 66109  
 3 CDC EXTENT TO LEFT SIDE FROM 9 OCLOCK  
 OAIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ SIDE TYPE CRASH WITH UTILITY POLE  
 L= 61 C1= 0 C2= 5 C3= 8 C4= 12 C5= 7 C6= 0 D=-10 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

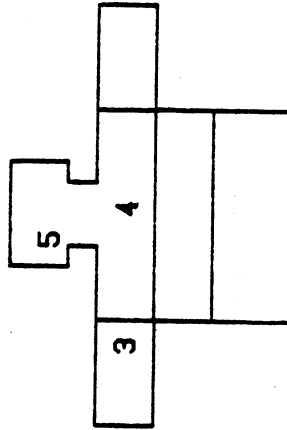
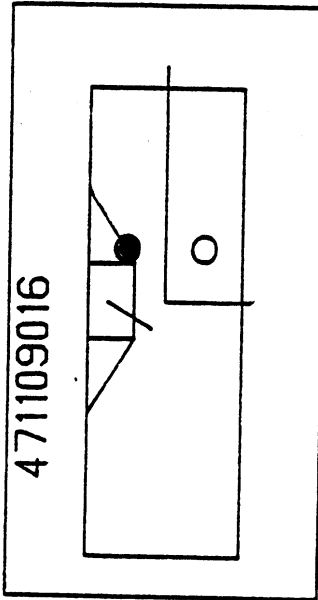
BODY REGION	ABDOMEN	HEAD-SKULL	BACK
DIRECTION	LEFT	WHOLE REGION	WHOLE REGION
TYPE INJURY	CONTUSION	CONCUSSION	CONTUSION
BODY ELEMENT	KIDNEYS	BRAIN	INTEGUMENTARY
INJURY LEVEL	SEVERE AIS3	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 52 IYP = 6 ZONE = 4  
 WEIGHT = 3053. FORCE = 34604.  
 CRUSH ENERGY= 170155. MASS FACTOR = 0.98  
 OCCUPANT OAIS 3 SEATING POSITION 11  
 AGE = 16 SEX = 1 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 471109016 1 AM WED 9 NOV 1977  
 70 PASS CAR FULL SIZE BUICK 11302  
 4 CDC EXTENT TO LEFT SIDE FROM 100CLOCK  
 OAIRS= 5 RESTRAINT= NOT USED EJECT/TRAP= TRAPPED WEIGHTING F= 1  
 A V/OBJ SIDE TYPE CRASH WITH TREE>6 INCHES  
 L= 107 C1= 0 C2= 24 C3= 24 C4= 0 C5= 0 C6= 0 D= 0 ICOD= 1  
 LATERAL DELTA-V= 17 LONGITUDINAL DELTA-V= 10 DELTA-V = 20

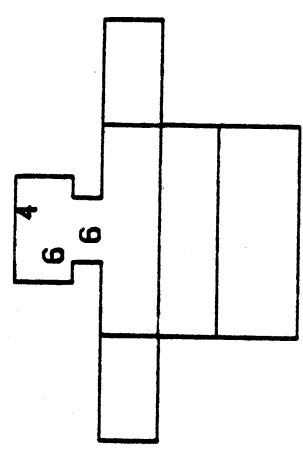
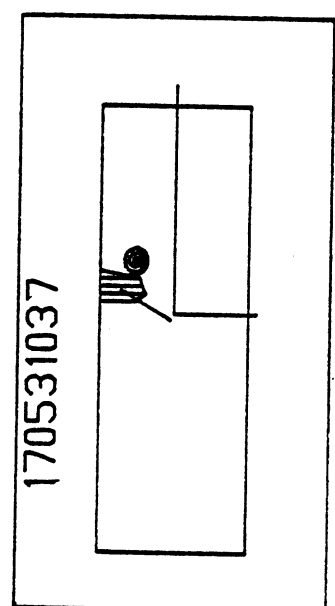
BODY REGION	HEAD-SKULL	CHEST	ARM
DIRECTION	LEFT	BILATERAL	RIGHT
TYPE INJURY	CONCUSSION	OTHER	FRACTURE
BODY ELEMENT	BRAIN	PULMONARY	SKELETAL
INJURY LEVEL	CRITICAL AIS3	SERIOUS AIS4	SEVERE AIS3
OBJECT CONTACTED	UNKNOWN	STEERING ASSEMBL	SIDE INTERIOR



IXP = 45 IYP = 12 ZONE = 4  
 WEIGHT = 4865. FORCE = 114914.  
 CRUSH ENERGY= 1525134. MASS FACTOR = 0.95  
 OCCUPANT OAIRS 5 SEATING POSITION 11  
 AGE = 21 SEX = 1 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 170531037 11PM TUE 31 MAY 1977  
 71 PASS CAR INTERMEDIATE UNKNOWN 12201  
 4 CDC EXTENT TO LEFT SIDE FROM 100CLOCK  
 ORAIS= 6 RESTRAINT= NOT USED EJECT/TRAP= TRAPPED WEIGHTING F= 1  
 A V/OBJ SIDE TYPE CRASH WITH UTILITY POLE  
 L= 11 C1= 18 C2= 24 C3= 22 C4= 21 C5= 0 C6= 0 D= 11 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

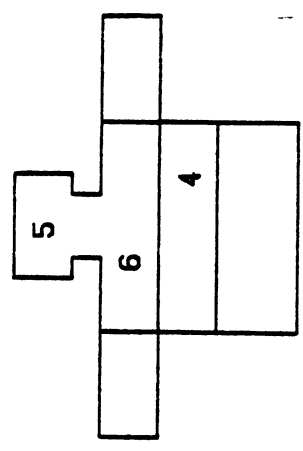
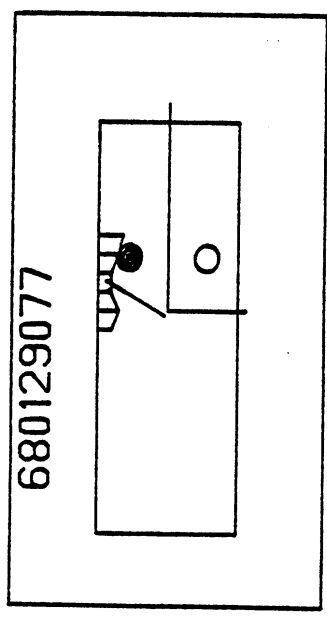
BODY REGION	HEAD-SKULL	NECK	HEAD-SKULL
DIRECTION	INFERIOR/LOWER	POSTERIOR/BACK	WHOLE REGION
TYPE INJURY	LACERATION	LACERATION	FRACTURE
BODY ELEMENT	BRAIN	SPINAL CORD	SKELETAL
INJURY LEVEL	MAXIMUM-FATAL	MAXIMUM-FATAL	SERIOUS AIS4
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 41 IYP = 14 ZONE = 4  
 WEIGHT = 4247. FORCE = 15793.  
 CRUSH ENERGY= 225631. MASS FACTOR = 1.00  
 OCCUPANT ORAIS 6 SEATING POSITION 11  
 AGE = 19 SEX = 1 HEIGHT= 72 WEIGHT= 165

NCSS CASE NO. 680129077 5 PM SUN 29 JAN 1978  
 72 PASS CAR COMPACT FORD 12108  
 5 CDC EXTENT TO LEFT SIDE FROM 10OCLOCK  
 ORIS= 6 RESTRAINT= NOT USED EJECT/TRAP= TRAPPED WEIGHTING F= 1  
 A V/OBJ SIDE TYPE CRASH WITH UTILITY POLE  
 L= 45 C1= 7 C2= 11 C3= 7 C4= 7 C5= 10 C6= 13 D= 13 ICOD= 2  
 LATERAL DELTA-V= 16 LONGITUDINAL DELTA-V= 9 DELTA-V = 18

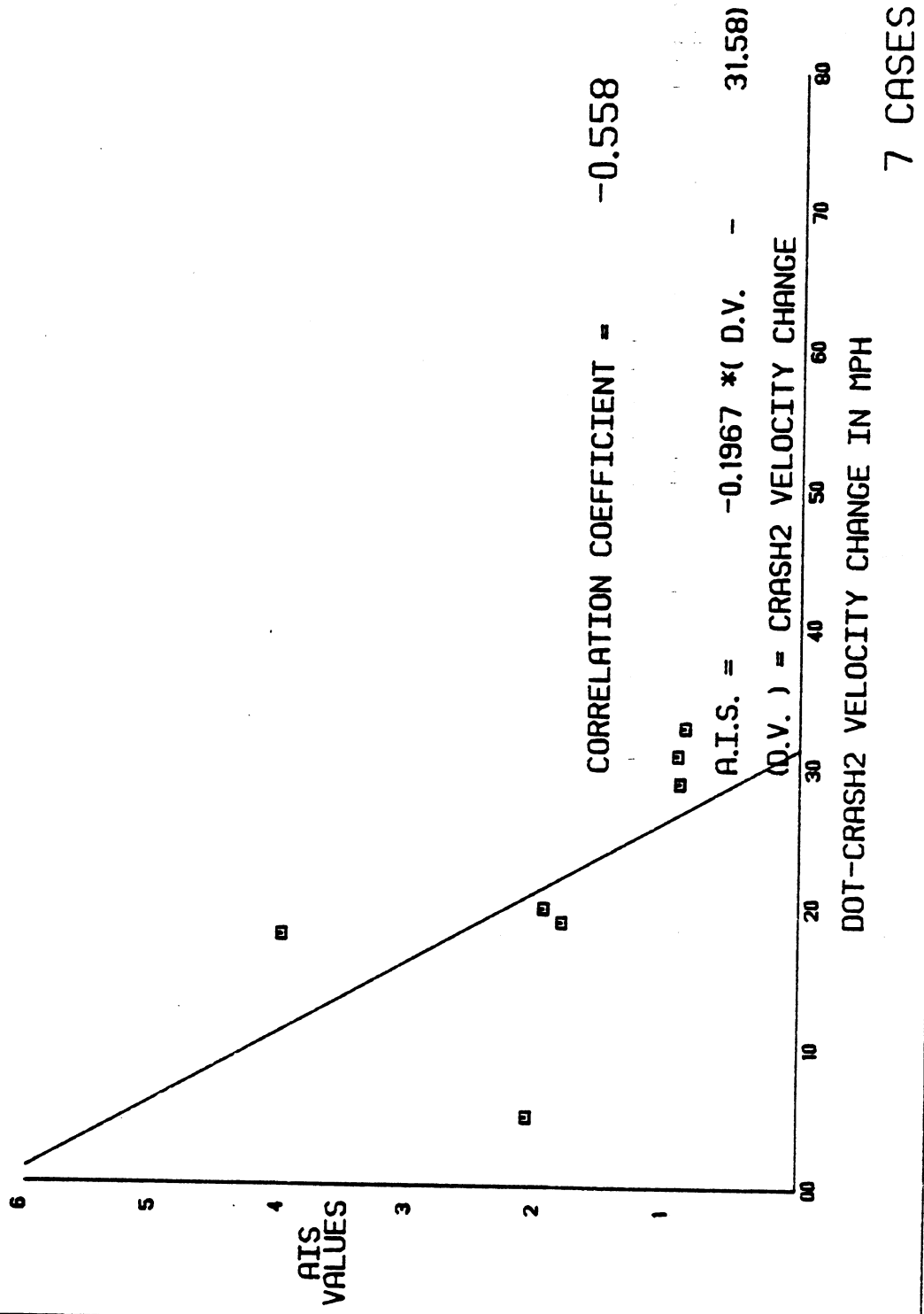
BODY REGION	CHEST	HEAD-SKULL	ABDOMEN
DIRECTION	WHOLE REGION	INFERIOR/LOWER	INFERIOR/LOWER
TYPE INJURY	CRUSHING	LACERATION	LACERATION
BODY ELEMENT	ALL SYSTEMS	BRAIN	DIGESTIVE
INJURY LEVEL	MAXIMUM-FATAL	CRITICAL AIS5	SERIOUS AIS4
OBJECT CONTACTED	SIDE INTERIOR	A-PILLAR	SIDE ARMRESTS



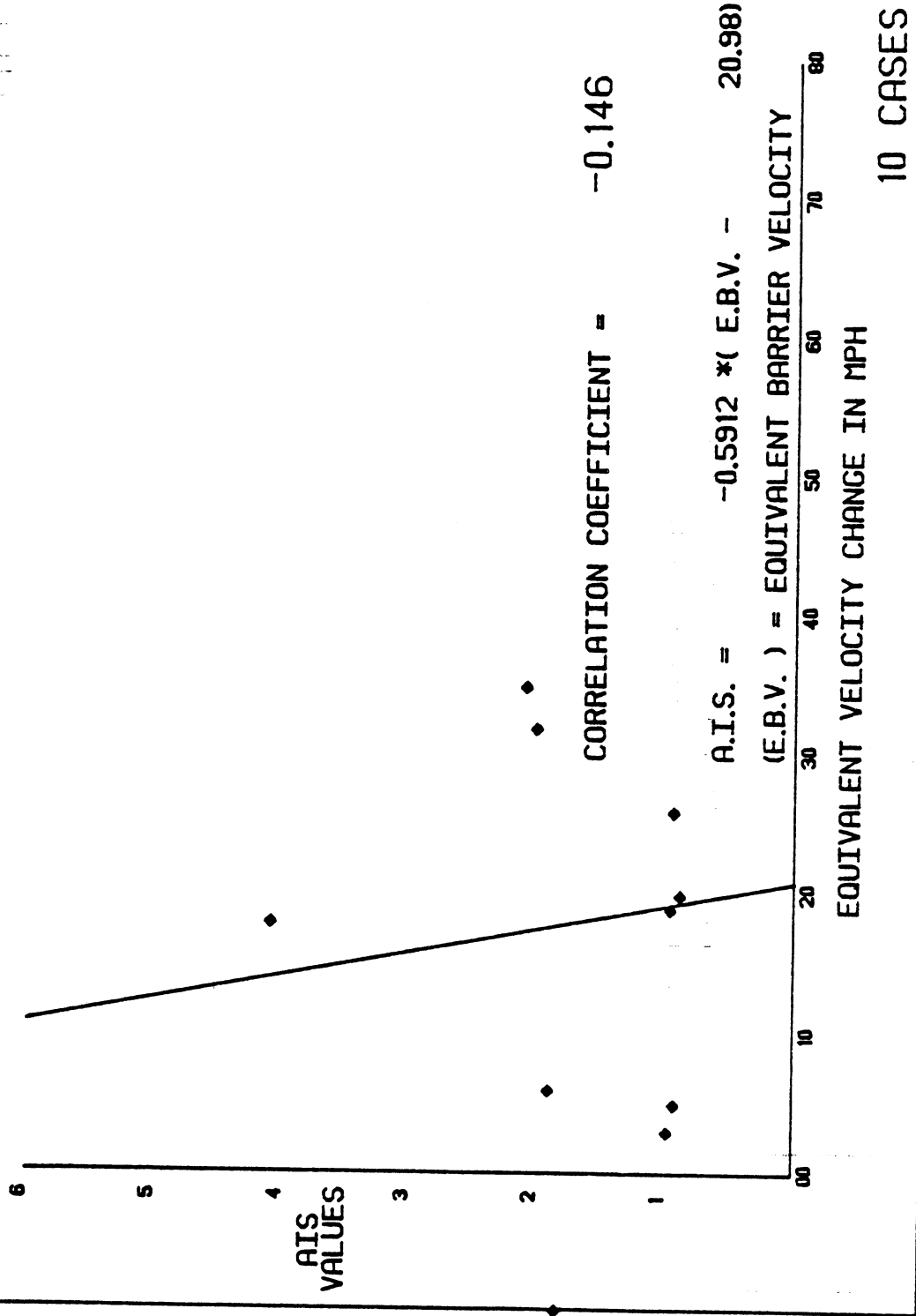
IXP = 38 IYP = 6 ZONE = 4  
 WEIGHT = 3547. FORCE = 35707.  
 CRUSH ENERGY= 253127. MASS FACTOR = 1.00  
 OCCUPANT ORIS 6 SEATING POSITION 11  
 AGE = 34 SEX = 1 HEIGHT= 74 WEIGHT= 180

RIGHT-FRONT PASSENGER HEAD INJURY		CAR TO TREE/POLE CRASH, FRONT CRUSH				DOT-CRASH2 DELTA-V	
VEHICLE CODE	NCSS CASE	LEVEL INJURY	TYPE INJURY	OBJECT CONTACTED	PEAK DECELERATION	EQUIVALENT BARRIER SPEED	
12102	171124045	2	AIS CONCUSSION	MIRRORS	7 G	20 MPH	19 MPH
85109	371030025	1	AIS LACERATION	GLOVE COMPARTMEN	17 G	35 MPH	33 MPH
11401	380317048	2	AIS CONCUSSION	WINDSHIELD	2 G	5 MPH	5 MPH
12108	470604008	1	AIS ABRASION	UNKNOWN	20 G	26 MPH	29 MPH
12108	470717023	1	AIS CONCUSSION	UNKNOWN	2 G	3 MPH	0 MPH
12106	470915022	1	AIS CONCUSSION	WINDSHIELD	23 G	32 MPH	31 MPH
11318	480311015	2	AIS CONCUSSION	WINDSHIELD	15 G	19 MPH	20 MPH
05109	670411027	2	AIS AVULSION	WINDSHIELD	5 G	6 MPH	0 MPH
11301	670816043	2	AIS LACERATION	UNKNOWN	5 G	18 MPH	0 MPH
12102	170806006	8	AIS CONCUSSION	WINDSHIELD	15 G	40 MPH	0 MPH
11302	270511026	2	AIS FRACTURE	SUNVISOR/FITTING	6 G	17 MPH	18 MPH
		4	AIS CONCUSSION	UNKNOWN			

RIGHT-FRONT PASSENGER HEAD INJURY  
 CAR TO TREE/POLE CRASH , FRONT CRUSH

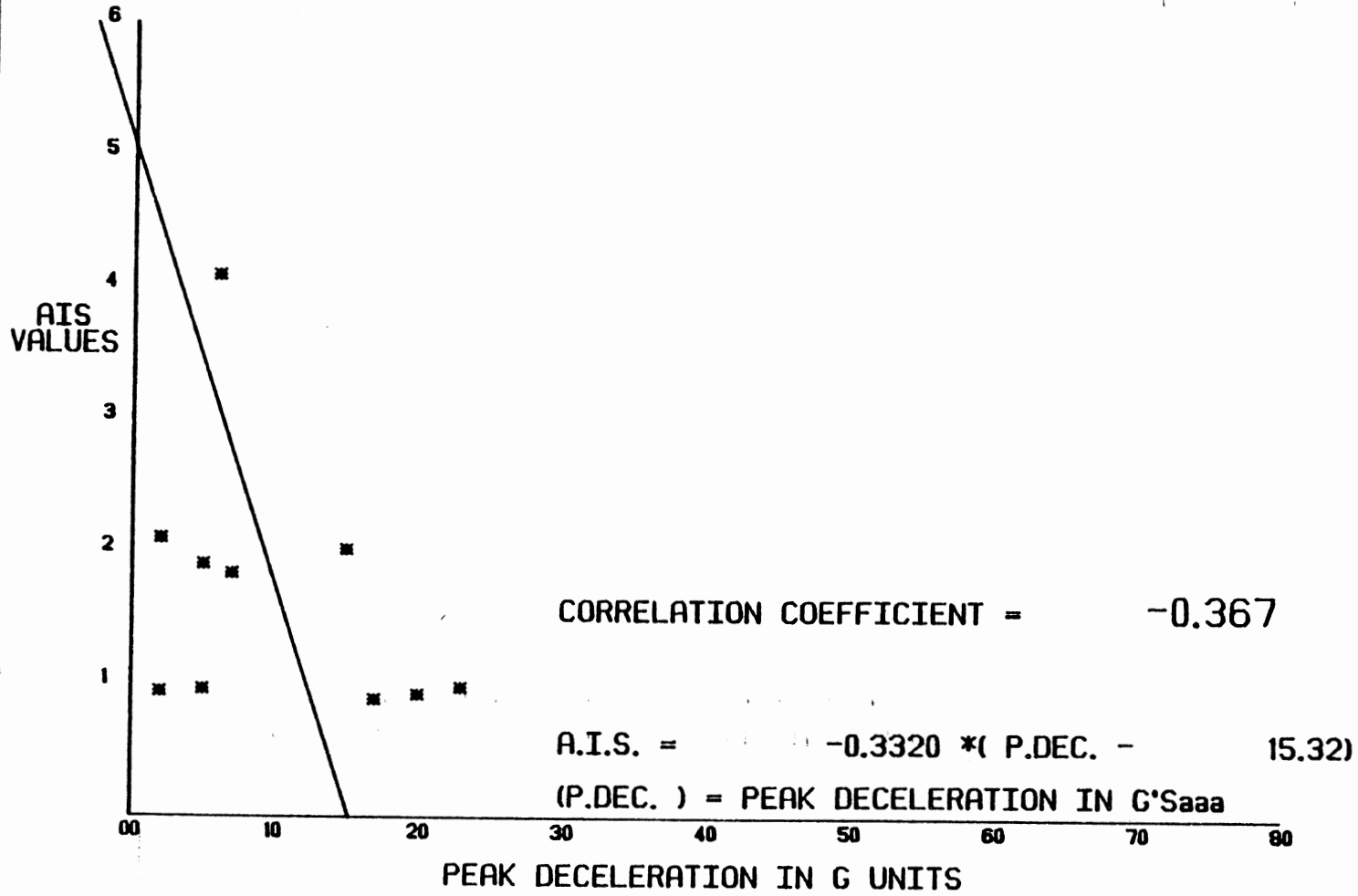


RIGHT-FRONT PASSENGER HEAD INJURY  
 CAR TO TREE/POLE CRASH . FRONT CRUSH





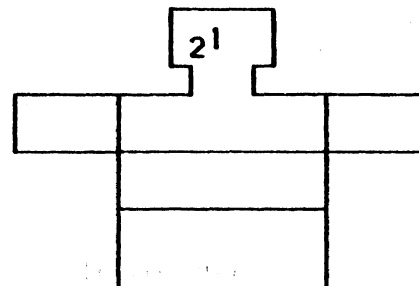
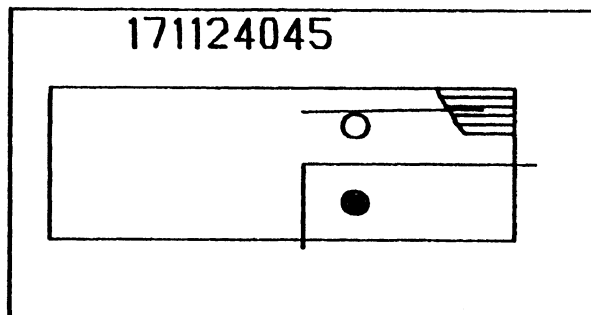
RIGHT-FRONT PASSENGER HEAD INJURY  
CAR TO TREE/POLE CRASH , FRONT CRUSH



10 CASES

NCSS CASE NO. 171124045 4 AM THU 24 NOV 1977  
 71 PASS CAR FULL SIZE BUICK 12102  
 3 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 OASIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 24 C1= 38 C2= 36 C3= 33 C4= 30 C5= 28 C6= 24 D=-28 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 19 DELTA-V = 19

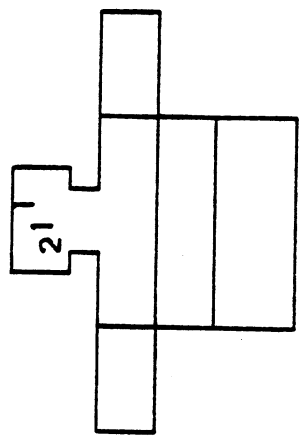
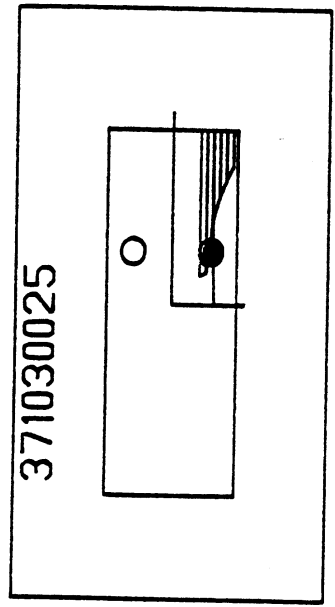
BODY REGION	HEAD-SKULL	FACE	UNKNOWN
DIRECTION	WHOLE REGION	WHOLE REGION	UNKNOWN
TYPE INJURY	CONCUSSION	LACERATION	OTHER
BODY ELEMENT	BRAIN	INTEGUMENTARY	MISSING
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	INJURED/UNK SEV
OBJECT CONTACTED	MIRRORS	MIRRORS	MISSING



IXP = 7 IYP = 13 ZONE = 1  
 WEIGHT = 4865. FORCE = 35357.  
 CRUSH ENERGY= 713020. MASS FACTOR = 0.85  
 OCCUPANT OASIS 2 SEATING POSITION 13  
 AGE = 20 SEX = 1 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 371030025 7 AM SUN 30 OCT 1977  
 73 WAGON SUB-COMP/IMPORT MERCURY 85109  
 7 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 ORIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 17 C1= 70 C2= 68 C3= 43 C4= 32 C5= 24 C6= 17 D= 23 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 33 DELTA-V = 33

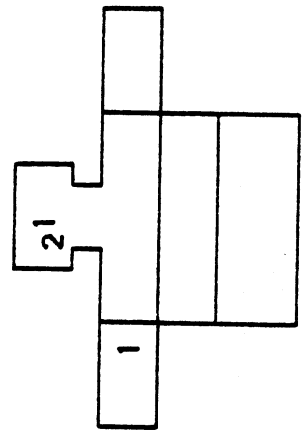
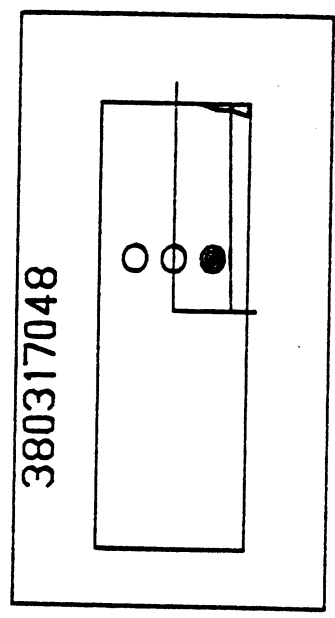
BODY REGION	FACE	HEAD-SKULL	FACE
DIRECTION	INFERIOR/LOWER	RIGHT	LEFT
TYPE INJURY	LACERATION	LACERATION	ABRASION
BODY ELEMENT	DIGESTIVE	EYES,EARS	EYES,EARS
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	WINDSHIELD	GLOVE COMPARTMEN	SIDE INTERIOR



IXP = 14 IYP = 81 ZONE = 3  
 WEIGHT = 3053. FORCE = 52507.  
 CRUSH ENERGY= 1341160. MASS FACTOR = 0.86  
 OCCUPANT ORIS 2 SEATING POSITION 13  
 AGE = 21 SEX = 2 HEIGHT= 66 WEIGHT= 125

NCSS CASE NO. 380317048 8 PM FRI 17 MAR 1978  
 76 PASS CAR INTERMEDIATE UNKNOWN 11401  
 1 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH UTILITY POLE  
 L= 25 C1= 0 C2= 3 C3= 3 C4= 6 C5= 0 C6= 0 D= 25 ICOD= 1  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 5 DELTA-V = 5

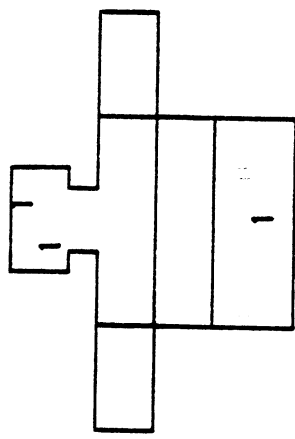
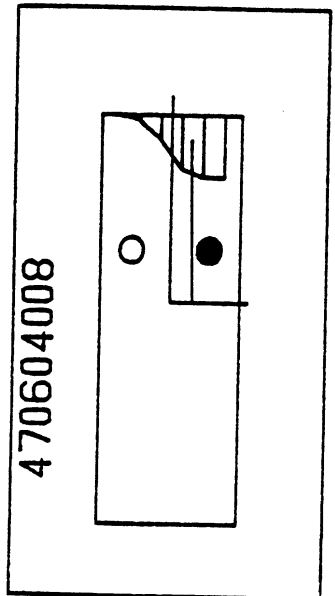
BODY REGION	HEAD-SKULL	FACE	WRIST-HAND
DIRECTION	WHOLE REGION	SUPERIOR/UPPER	RIGHT
TYPE INJURY	CONCUSSION	CONTUSION	ABRASION
BODY ELEMENT	BRAIN	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	WINDSHIELD	WINDSHIELD	INSTRUMENT PANEL



IXP = 0 IYP = 86 ZONE = 3  
 WEIGHT = 4247. FORCE = 9585.  
 CRUSH ENERGY= 38070. MASS FACTOR = 0.81  
 OCCUPANT OAIS 2 SEATING POSITION 13  
 AGE = 20 SEX = 1 HEIGHT= 75 WEIGHT= 140

NCSS CASE NO. 470604008 1 AM SAT 4 JUN 1977  
 73 PASS CAR COMPACT FORD 12108  
 3 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= COMPLETE EJECTIO WEIGHTING F= 4  
 A V/OBJ FRONT TYPE CRASH WITH UTILITY POLE  
 L= 55 C1= 0 C2= 3 C3= 12 C4= 26 C5= 30 C6= 30 D= 0 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 29 DELTA-V = 29

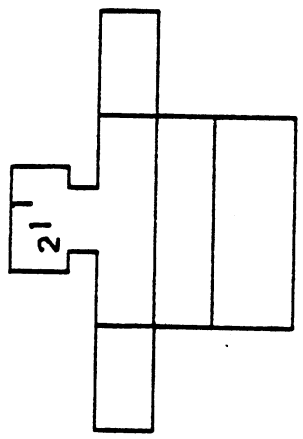
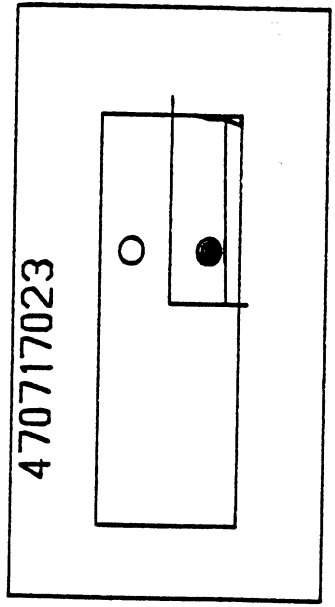
BODY REGION	HEAD-SKULL	BACK	FACE
DIRECTION	RIGHT	SUPERIOR/UPPER	SUPERIOR/UPPER
TYPE INJURY	ABRASION	CONTUSION	ABRASION
BODY ELEMENT	EYES,EARS	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	MINOR AISI	MINOR AISI	MINOR AISI
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 6 IYP = 64 ZONE = 2  
 WEIGHT = 3547. FORCE = 74269.  
 CRUSH ENERGY= 969622. MASS FACTOR = 0.96  
 OCCUPANT ORAIS 2 SEATING POSITION 13  
 AGE = 20 SEX = 1 HEIGHT= 99 WEIGHT= 999

NCCS CASE NO. 470717023 11AM SUN 17 JUL 1977  
 70 PASS CAR COMPACT FORD 12108  
 1 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH UTILITY POLE  
 L= 24 C1= 0 C2= 2 C3= 2 C4= 5 C5= 0 C6= 0 D= 24 ICOD= 1  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

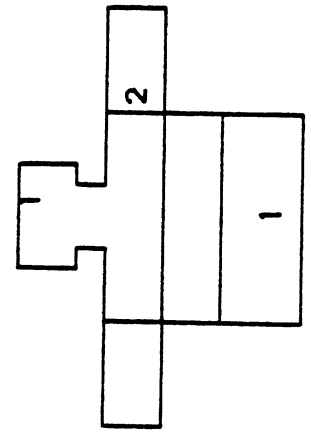
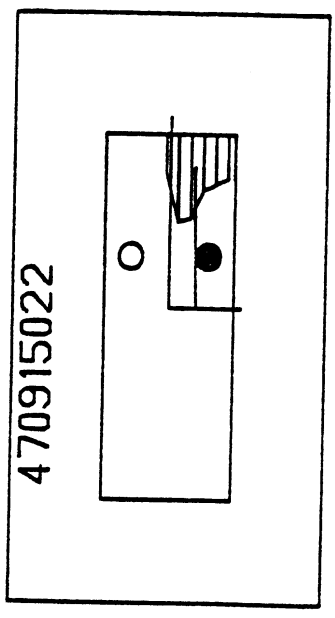
BODY REGION	FACE	HEAD-SKULL	FACE
DIRECTION	INFERIOR/LOWER	WHOLE REGION	INFERIOR/LOWER
TYPE INJURY	FRACTURE	CONCUSSION	OTHER
BODY ELEMENT	SKELETAL	BRAIN	SKELETAL
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 0 IYP = 88 ZONE = 3  
 WEIGHT = 3547. FORCE = 7325.  
 CRUSH ENERGY= 17263. MASS FACTOR = 0.79  
 OCCUPANT OASIS 2 SEATING POSITION 13  
 AGE = 11 SEX = 2 HEIGHT= 69 WEIGHT= 90

NCSS CASE NO. 470915022 7 AM THU 15 SEP 1977  
 70 PASS CAR SPECIALTY/PONY PONTIAC 12106  
 4 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 ORAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 32 C1= 19 C2= 42 C3= 40 C4= 27 C5= 24 C6= 21 D= 14 ICOD= 2  
 LATERAL DELTA-V= 16 LONGITUDINAL DELTA-V= 27 DELTA-V = 31

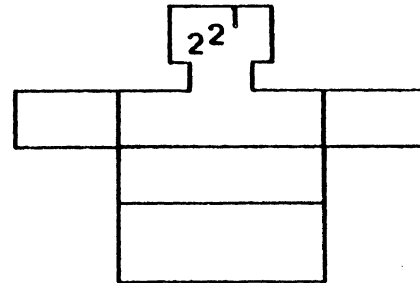
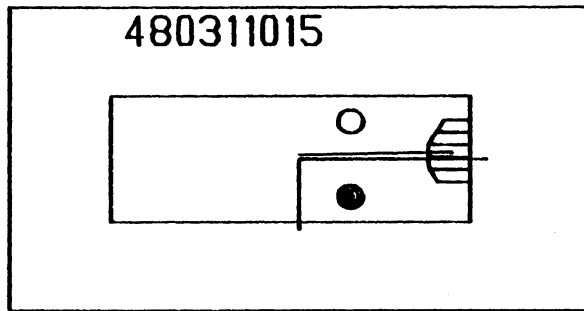
BODY REGION	FOREARM	LOWER EXTREM	HEAD-SKULL
DIRECTION	LEFT	BILATERAL	WHOLE REGION
TYPE INJURY	FRACTURE	ABRASION	CONCUSSION
BODY ELEMENT	SKELETAL	INTEGUMENTARY	BRAIN
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	GLOVE COMPARTMEN	GLOVE COMPARTMEN	WINDSHIELD



IXP = 9 IYP = 68 ZONE = 3  
 WEIGHT = 3053. FORCE = 72667.  
 CRUSH ENERGY= 1221322. MASS FACTOR = 0.94  
 OCCUPANT ORAIS 2 SEATING POSITION 13  
 AGE = 17 SEX = 1 HEIGHT= 70 WEIGHT= 155

NCSS CASE NO. 480311015 1 AM SAT 11 MAR 1978  
 77 PASS CAR SUB-COMP/USA CHEVY/CANADA 11318  
 3 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 33 C1= 13 C2= 17 C3= 21 C4= 21 C5= 20 C6= 16 D= -4 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 20 DELTA-V = 20

BODY REGION	HEAD-SKULL	HEAD-SKULL	FACE
DIRECTION	WHOLE REGION	WHOLE REGION	WHOLE REGION
TYPE INJURY	CONCUSSION	AVULSION	LACERATION
BODY ELEMENT	BRAIN	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	MODERATE AIS2	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	WINDSHIELD	WINDSHIELD	WINDSHIELD

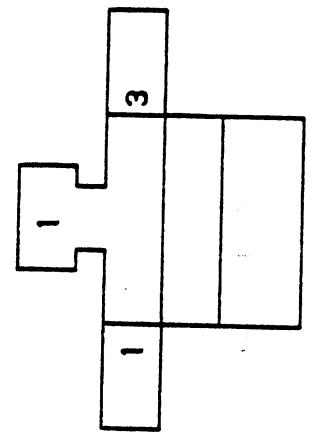
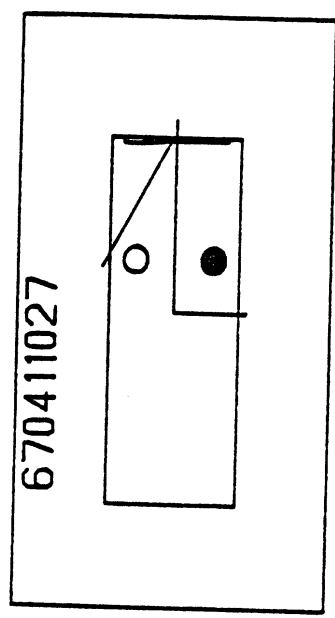


IXP = 5 IYP = 44 ZONE = 2  
 WEIGHT = 3053. FORCE = 47013.  
 CRUSH ENERGY= 477250. MASS FACTOR = 1.00  
 OCCUPANT OAIS 2 SEATING POSITION 13  
 AGE = 22 SEX = 2 HEIGHT= 64 WEIGHT= 99



NCSS CASE NO. 670411027 1 AM MON 11 APL 1977  
 73 PASS CAR SUB-COMP/IMPORT MERCURY 85109  
 4 CDC EXTENT TO FRONT SIDE FROM 1 OCLOCK  
 ORAIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH UTILITY POLE  
 L= 54 C1= 3 C2= 3 C3= 2 C4= 2 C5= 2 C6= 2 D= 0 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

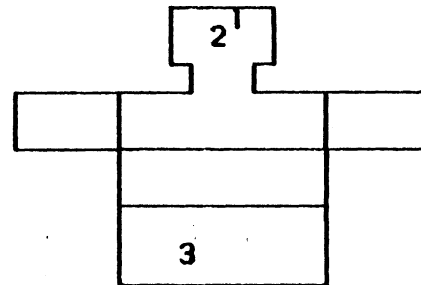
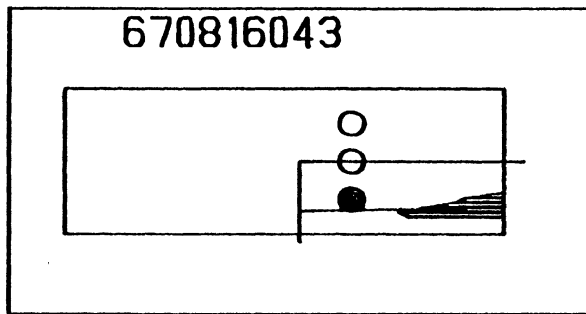
BODY REGION	SHOULDER	HEAD-SKULL	WRIST-HAND
DIRECTION	LEFT	SUPERIOR/UPPER	RIGHT
TYPE INJURY	DISLOCATION	LACERATION	ABRASION
BODY ELEMENT	JOINTS	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	SEVERE AIS3	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 0 IYP = 46 ZONE = 2  
 WEIGHT = 3053. FORCE = 16115.  
 CRUSH ENERGY= 34265. MASS FACTOR = 0.61  
 OCCUPANT ORAIS 3 SEATING POSITION 13  
 AGE = 19 SEX = 2 HEIGHT= 64 WEIGHT= 120

NCSS CASE NO. 670816043 10PM TUE 16 AUG 1977  
 72 PASS CAR INTERMEDIATE UNKNOWN 11301  
 4 CDC EXTENT TO FRONT SIDE FROM 12OCLOCK  
 OASIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH UTILITY POLE  
 L= 13 C1= 1 C2= 18 C3= 24 C4= 38 C5= 51 C6= 46 D= 23 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

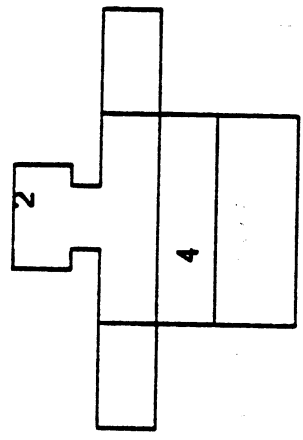
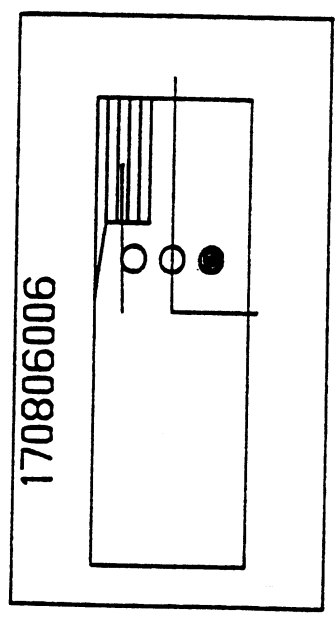
BODY REGION	LEG	HEAD-SKULL	FACE
DIRECTION	LEFT	LEFT	CENTRAL
TYPE INJURY	FRACTURE	FRACTURE	FRACTURE
BODY ELEMENT	SKELETAL	SKELETAL	RESPIRATORY
INJURY LEVEL	SEVERE AIS3	MODERATE AIS2	MINOR AIS1
OBJECT CONTACTED	GLOVE COMPARTMEN	WINDSHIELD	UNKNOWN



IXP = 8 IYP = 82 ZONE = 3  
 WEIGHT = 4247. FORCE = 23083.  
 CRUSH ENERGY= 482708. MASS FACTOR = 0.84  
 OCCUPANT OASIS 3 SEATING POSITION 13  
 AGE = 29 SEX = 2 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 170806006 1 AM SAT 6 AUG 1977  
 70 WAGON FULL SIZE BUICK 12102  
 9 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 OAIS= 4 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 28 C1= 97 C2= 60 C3= 60 C4= 60 C5= 60 C6= 60 D=-26 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

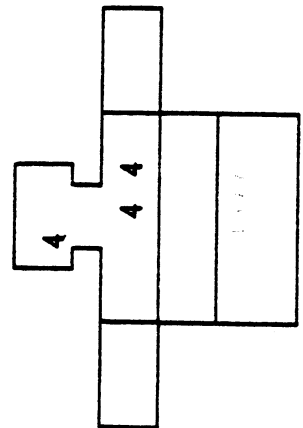
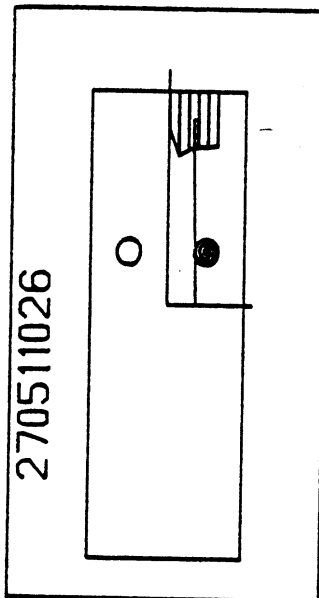
BODY REGION	ABDOMEN	HEAD-SKULL	HEAD-SKULL
DIRECTION	LEFT	WHOLE REGION	UNKNOWN
TYPE INJURY	RUPTURE	CONCUSSION	FRACTURE
BODY ELEMENT	SPLEEN	BRAIN	SKELETAL
INJURY LEVEL	SERIOUS AIS4	INJURED/UNK SEV	MODERATE AIS2
OBJECT CONTACTED	INSTRUMENT PANEL	SUNVISOR/FITTING	SUNVISOR/FITTING



IXP = 14 IYP = 16 ZONE = 1  
 WEIGHT = 4865. FORCE = 74407.  
 CRUSH ENERGY= 2720039. MASS FACTOR = 0.86  
 OCCUPANT OAIS 4 SEATING POSITION 13  
 AGE = 17 SEX = 1 HEIGHT= 99 WEIGHT= 999

NCSS CASE NO. 270511026 10PM WED 11 MAY 1977  
 72 PASS CAR FULL SIZE BUICK 11302  
 3 CDC EXTENT TO FRONT SIDE FROM 120CLOCK  
 OAIS= 5 RESTRAINT= NOT USED EJECT/TRAP= TRAPPED WEIGHTING F= 1  
 A V/OBJ FRONT TYPE CRASH WITH TREE>6 INCHES  
 L= 25 C1= 18 C2= 31 C3= 28 C4= 27 C5= 27 C6= 26 D= 13 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 18 DELTA-V = 18

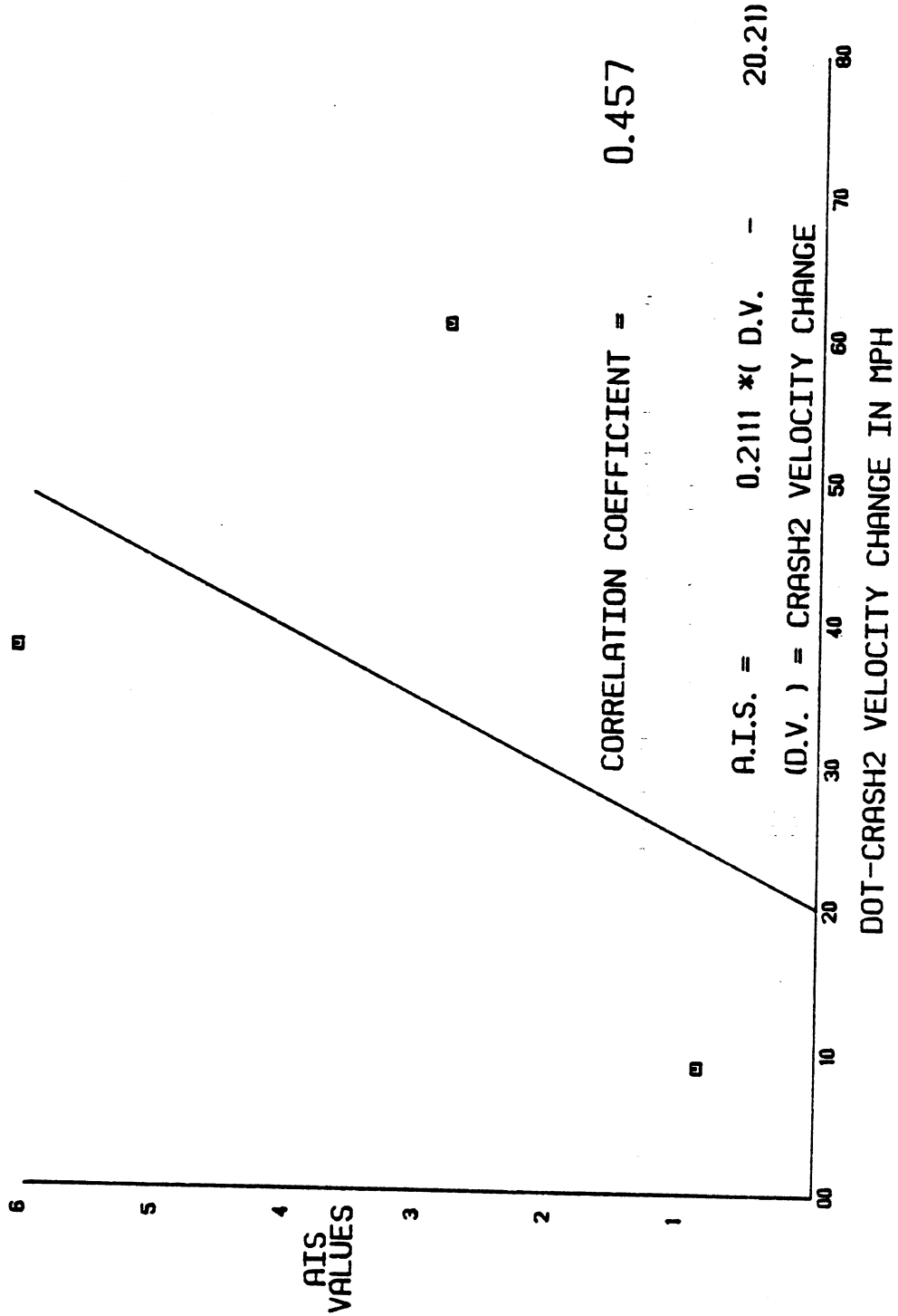
BODY REGION	HEAD-SKULL	CHEST	CHEST
DIRECTION	SUPERIOR/UPPER	BILATERAL	CENTRAL
TYPE INJURY	CONCUSSION	FRACTURE	OTHER
BODY ELEMENT	BRAIN	SKELETAL	HEART
INJURY LEVEL	SERIOUS AIS4	SERIOUS AIS4	SERIOUS AIS4
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



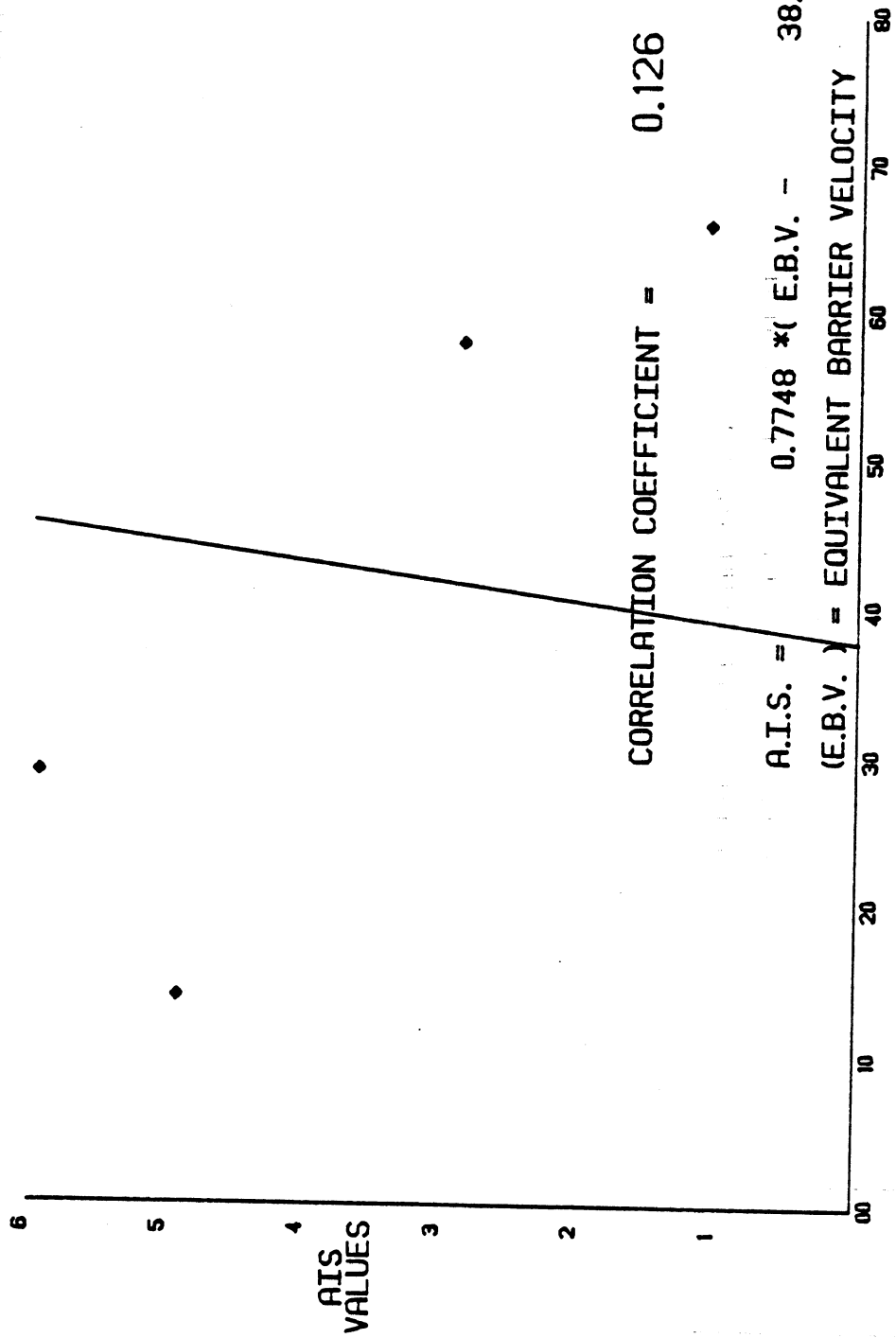
IXP = 6 IYP = 66 ZONE = 2  
 WEIGHT = 4865. FORCE = 32588.  
 CRUSH ENERGY= 578344. MASS FACTOR = 0.95  
 OCCUPANT OAIS 5 SEATING POSITION 13  
 AGE = 38 SEX = 2 HEIGHT= 99 WEIGHT= 130

RIGHT-FRONT PASSENGER HEAD INJURY		CAR TO TREE/POLE CRASH, RIGHT-SIDE CRUSH				DOT-CRASH2 DELTA-V	
VEHICLE CODE	NCSS CASE	LEVEL INJURY	TYPE INJURY	OBJECT CONTACTED	PEAK DECELERATION	EQUIVALENT BARRIER SPEED	
12106	671002007	2	ATIS CONCUSSION	UNKNOWN	57 G	58 MPH	0 MPH
13406	171112023	3	ATIS CONCUSSION	SIDE INTERIOR	58 G	66 MPH	61 MPH
11301	180328032	1	ATIS CONCUSSION	WINDSHIELD	8 G	14 MPH	9 MPH
11302	370811044	5	ATIS LACERATION	UUUUUUUUUUUUUUUU	14 G	29 MPH	0 MPH
86119	770528030	6	ATIS LACERATION	UNKNOWN	47 G	45 MPH	38 MPH

RIGHT-FRONT PASSENGER HEAD INJURY  
 CAR TO TREE/POLE CRASH . RIGHT SIDE CRUSH



RIGHT-FRONT PASSENGER HEAD INJURY  
 CAR TO TREE/POLE CRASH . RIGHT SIDE CRUSH



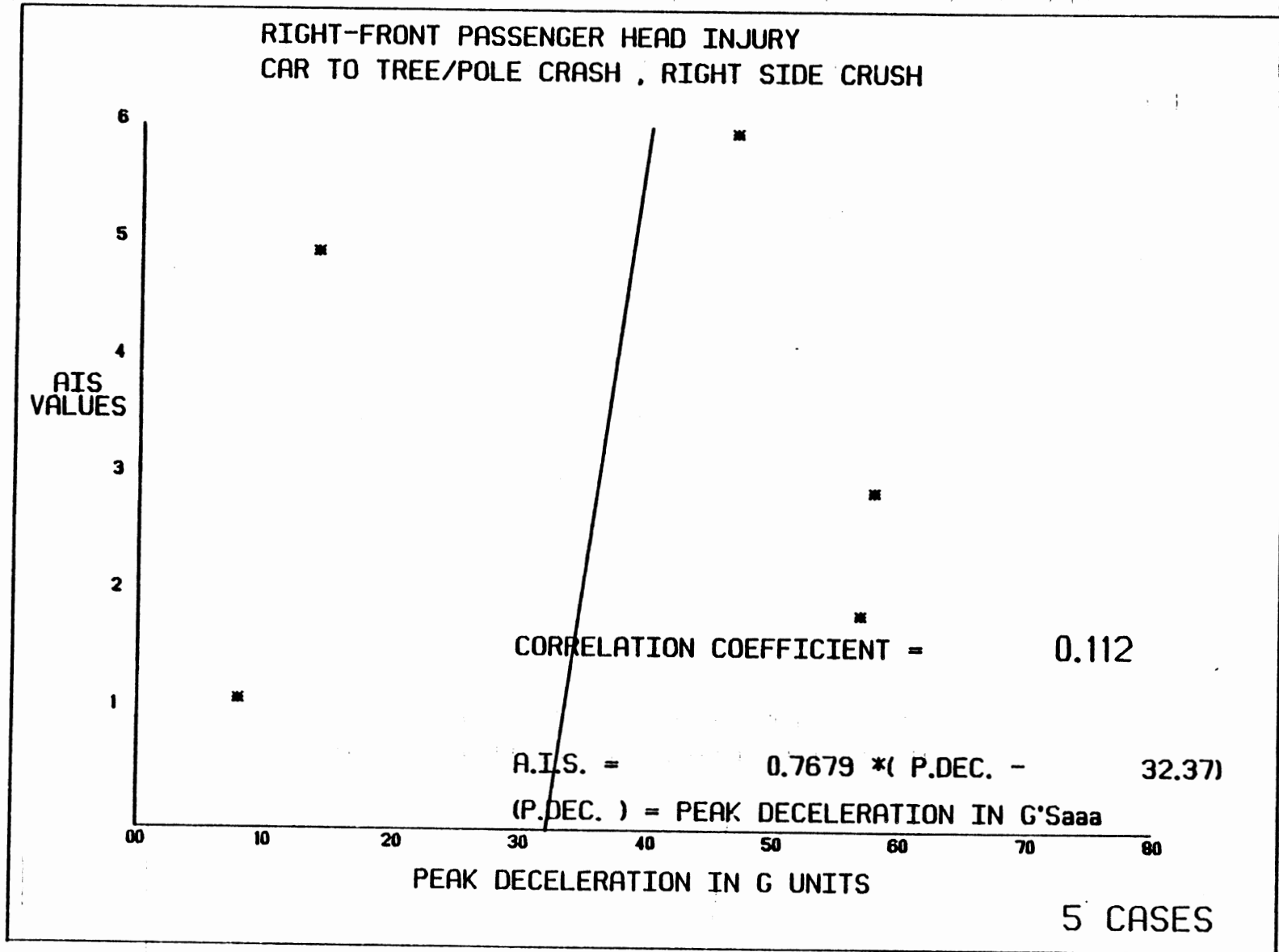
CORRELATION COEFFICIENT = 0.126

A.I.S. = 0.7748 \* ( E.B.V. - 38.01)

(E.B.V. ) = EQUIVALENT BARRIER VELOCITY

EQUIVALENT VELOCITY CHANGE IN MPH

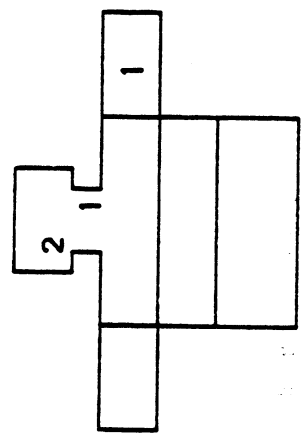
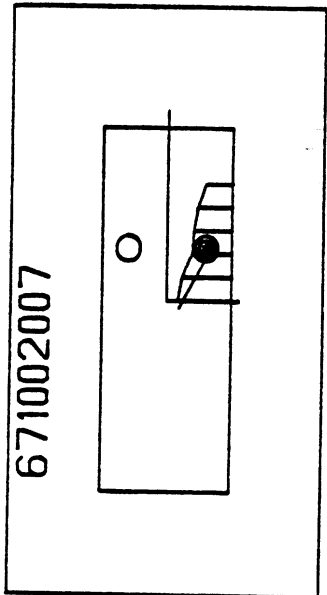
5 CASES





NCCS CASE NO. 671002007 11AM SUN 2 OCT 1977  
 72 PASS CAR SPECIALTY/PONY PONTIAC 12106  
 4 CDC EXTENT TO RIGHT SIDE FROM 1 OCLOCK  
 OAIS= 2 RESTRAINT= NOT USED EJECT/TRAP= UNKNOWN | WEIGHTING F= 1  
 A V/OBJ SIDE TYPE CRASH WITH TREE>6 INCHES  
 L= 56 C1= 28 C2= 26 C3= 21 C4= 20 C5= 18 C6= 14 D= 28 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

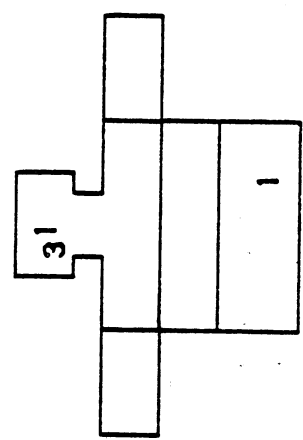
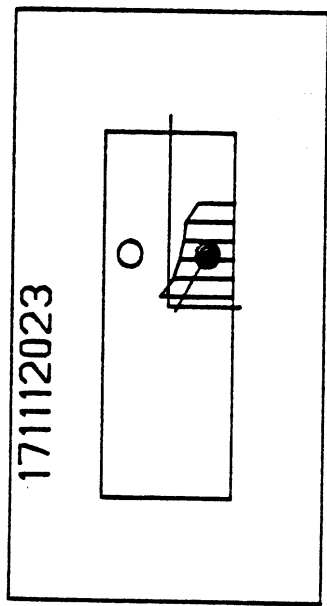
BODY REGION	HEAD-SKULL	WRIST-HAND	NECK
DIRECTION	RIGHT	LEFT	POSTERIOR/BACK
TYPE INJURY	CONCUSSION	FRACTURE	PAIN
BODY ELEMENT	BRAIN	SKELETAL	MUSCLES
INJURY LEVEL	MODERATE AIS2	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	UNKNOWN	UNKNOWN	UNKNOWN



IXP = 33 IYP = 83 ZONE = 3  
 WEIGHT = 3053. FORCE = 174074.  
 CRUSH ENERGY= 4168955. MASS FACTOR = 0.98  
 OCCUPANT OAIS 2 SEATING POSITION 13  
 AGE = 18 SEX = 2 HEIGHT= 65 WEIGHT= 125

NCSS CASE NO. 171112023 4 AM SAT 12 NOV 1977  
 70 PASS CAR SPECIALTY/PONY PONTIAC 13406  
 5 CDC EXTENT TO RIGHT SIDE FROM 1 OCLOCK  
 ORAIS= 3 RESTRAINT= NOT USED EJECT/TRAP= COMPLETE EJECTIO WEIGHTING F= 1  
 A V/OBJ SIDE TYPE CRASH WITH TREE>6 INCHES  
 L= 45 C1= 38 C2= 31 C3= 28 C4= 26 C5= 25 C6= 19 D= 27 ICOD= 2  
 LATERAL DELTA-V= 31 LONGITUDINAL DELTA-V= 53 DELTA-V = 61

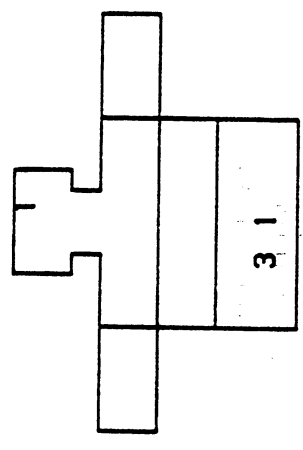
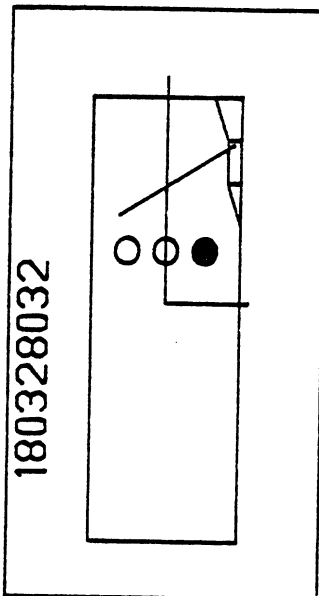
BODY REGION	HEAD-SKULL	FACE	KNEE
DIRECTION	WHOLE REGION	SUPERIOR/UPPER	LEFT
TYPE INJURY	CONCUSSION	LACERATION	CONTUSION
BODY ELEMENT	BRAIN	INTEGUMENTARY	INTEGUMENTARY
INJURY LEVEL	SEVERE AIS3	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	SIDE INTERIOR	SIDE INTERIOR	INSTRUMENT PANEL



IXP = 33 IYP = 78 ZONE = 3  
 WEIGHT = 3053. FORCE = 178895.  
 CRUSH ENERGY= 5445921. MASS FACTOR = 0.99  
 OCCUPANT ORAIS 3 SEATING POSITION 13  
 AGE = 20 SEX = 1 HEIGHT= 74 WEIGHT= 190

NCSS CASE NO. 180328032 4 AM TUE 28 MAR 1978  
 75 PASS CAR INTERMEDIATE UNKNOWN 11301  
 3 CDC EXTENT TO RIGHT SIDE FROM 2 OCLOCK  
 ORIS= 3 RESTRAINT= NOT USED EJECT/TRAP= NONE WEIGHTING F= 1  
 A V/OBJ SIDE TYPE CRASH WITH UTILITY POLE  
 L= 62 C1= 0 C2= 7 C3= 7 C4= 14 C5= 0 C6= 0 D= 68 ICOD= 1  
 LATERAL DELTA-V= 8 LONGITUDINAL DELTA-V= 5 DELTA-V = 9

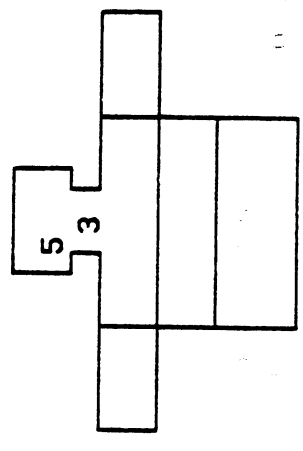
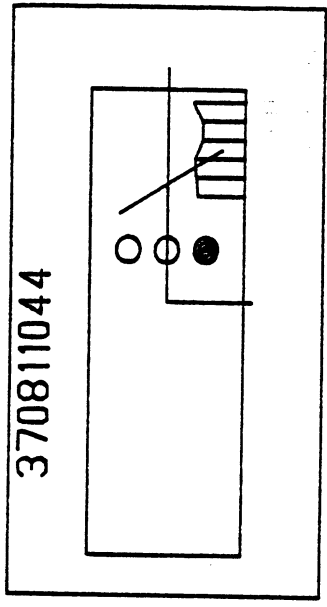
BODY REGION	LEG	KNEE	HEAD-SKULL
DIRECTION	LEFT	LEFT	WHOLE REGION
TYPE INJURY	FRACTURE	LACERATION	CONCUSSION
BODY ELEMENT	SKELETAL	INTEGUMENTARY	BRAIN
INJURY LEVEL	SEVERE AIS3	MINOR AIS1	MINOR AIS1
OBJECT CONTACTED	GLOVE COMPARTMEN	GLOVE COMPARTMEN	WINDSHIELD



IXP = 10 IYP = 94 ZONE = 3  
 WEIGHT = 4247. FORCE = 35494.  
 CRUSH ENERGY= 224270. MASS FACTOR = 0.61  
 OCCUPANT ORIS 3 SEATING POSITION 13  
 AGE = 22 SEX = 1 HEIGHT= 69 WEIGHT= 170

NCSS CASE NO. 370811044 1 AM THU 11 AUG 1977  
 71 WAGON FULL SIZE BUICK 11302  
 4 CDC EXTENT TO RIGHT SIDE FROM 2 OCLOCK  
 ORAIS= 5 RESTRAINT= NOT USED EJECT/TRAP= PART. EJECTION WEIGHTING F= 1  
 A V/OBJ SIDE TYPE CRASH WITH TREE>6 INCHES  
 L= 45 C1= 24 C2= 25 C3= 26 C4= 22 C5= 22 C6= 27 D= 73 ICOD= 2  
 LATERAL DELTA-V= 0 LONGITUDINAL DELTA-V= 0 DELTA-V = 0

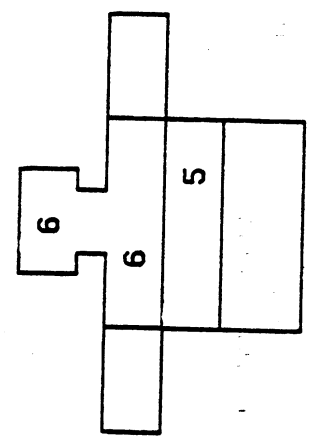
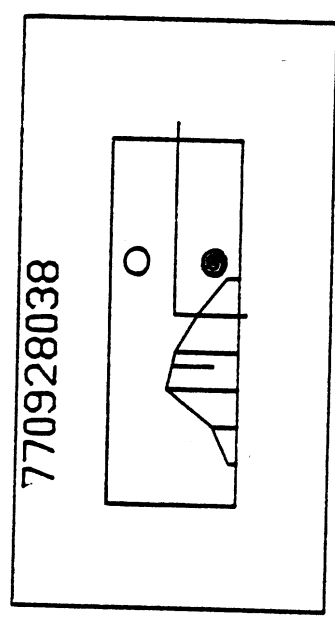
BODY REGION	HEAD-SKULL	NECK	UNKNOWN
DIRECTION	POSTERIOR/BACK	POSTERIOR/BACK	UNKNOWN
TYPE INJURY	LACERATION	FRACTURE	UNKNOWN
BODY ELEMENT	BRAIN	VERTEBRAE	OTHER
INJURY LEVEL	CRITICAL AISS	SEVERE AIS3	MISSING
OBJECT CONTACTED	UNKNOWN	UNKNOWN	INJURED/UNK SEV
			MISSING



IXP = 12 IYP = 84 ZONE = 3  
 WEIGHT = 4865. FORCE = 68152.  
 CRUSH ENERGY= 1098600. MASS FACTOR = 0.63  
 OCCUPANT ORAIS 5 SEATING POSITION 13  
 AGE = 15 SEX = 1 HEIGHT= 62 WEIGHT= 125

NCSS CASE NO. 770928038 3 PM WED 28 SEP 1977  
 77 PASS CAR FOREIGN SPORTS PONTIAC/CANADA 86119  
 5 CDC EXTENT TO RIGHT SIDE FROM 3 OCLOCK  
 OASIS= 6 RESTRAINT= NOT USED EJECT/TRAP= UNKNOWN WEIGHTING F= 1  
 A V/OBJ SIDE TYPE CRASH WITH UTILITY POLE  
 L= 89 C1= 4 C2= 13 C3= 37 C4= 33 C5= 22 C6= 7 D=-27 ICOD= 2  
 LATERAL DELTA-V= 38 LONGITUDINAL DELTA-V= 7 DELTA-V = 38

BODY REGION	CHEST	HEAD-SKULL	ABDOMEN
DIRECTION	CENTRAL	INFERIOR/LOWER	SUPERIOR/UPPER
TYPE INJURY	LACERATION	LACERATION	LACERATION
BODY ELEMENT	HEART	BRAIN	LIVER
INJURY LEVEL	MAXIMUM-FATAL	MAXIMUM-FATAL	CRITICAL AIS5
OBJECT CONTACTED	UNKNOWN	UNKNOWN	EXTERIOR OBJECT



IXP = 61 IYP = 79 ZONE = 5  
 WEIGHT = 3053. FORCE = 143688.  
 CRUSH ENERGY= 2054557. MASS FACTOR = 0.83  
 OCCUPANT OASIS 6 SEATING POSITION 13  
 AGE = 17 SEX = 1 HEIGHT= 70 WEIGHT= 130