400 Seventh Street, S.W.
Washington, D.C. 20590

U.S. Department
of Transportation

**National Highway
Traffic Safety
Administration**

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*** *** ***

TRANSPORTATION SCIENCES CENTER
ACCIDENT RESEARCH GROUP

ZIMMER
[redacted]
SAN

Division of Calspan Corporation
[redacted]

CALSPAN REMOTE AIR BAG DEPLOYMENT INVESTIGATION
CALSPAN CASE NO. 94-13
VEHICLE: 1994 JAGUAR XJ6
LOCATION: [redacted], FL
CRASH DATE: [redacted] 1994

Contract No. DTNH22-94-D-07058

Prepared for:

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

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points are coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

TECHNICAL REPORT STANDARD TITLE PAGE

1. *Report No.* 94-13	2. *Government Accession No.*	3. *Recipient's Catalog No.*
4. *Title and Subtitle* Calspan Remote Air Bag Deployment Investigation Vehicle - 1994 Jaguar XJ6 Location [redacted], FL		5. *Report Date:* [redacted]1994 6. *Performing Organization Code*
7. *Author(s)* Accident Research Group		8. *Performing Organization Report No.*
9. *Performing Organization Name and Address* Transportation Sciences Center Accident Research Group Division of Calspan Corporation [redacted]		10. *Work Unit No.* 1115 (0050-0059) 11. *Contract or Grant No.* DTNH22-94-D-07058
12. *Sponsoring Agency Name and Address* U.S. Department of Transportation National Highway Traffic Safety Administration Washington, D.C. 20590		13. *Type of Report and Period Covered* Technical Report Accident Date [redacted]/94 14. *Sponsoring Agency Code*
15. *Supplementary Notes* Remote investigation of a low speed front-to-rear crash that resulted in deployment of the passenger side air bag in a 1994 Jaguar XJ6.		

16. *Abstract*

This remote investigation was a follow-up to NASS Case [redacted] which involved a three vehicle chain reaction front-to-rear impact sequence. A 1992 Mazda Miata was stopped in a line of traffic behind a 1990 Geo Prizm for a red signal phase at a four-leg intersection. A 1994 Jaguar XJ6 approached the standing traffic at a police reported speed of 40 km/h (25 mph). The 60 year old male driver was not attentive to the driving task and failed to detect the stopped vehicles in sufficient time to avoid the crash. He apparently braked, however, the vehicle continued forward to impact.

The center and right frontal area of the Jaguar struck the rear of the Mazda in a slightly offset 12 o'clock/6 o'clock impact configuration. The pre-impact braking allowed the top of the front bumper of the Jaguar to initially engage then underride the rear bumper of the Mazda. The grille area of the Jaguar subsequently engaged against the Mazda which resulted in an estimated crush depth of 15-20 cm (6-8") at the center area of the grille. As a result of the crash, the Jaguar underwent an estimated velocity change of 12 km/h (8mph). The vehicle was equipped with mechanically triggered driver and passenger side air bag systems. Only the passenger side air bag deployed due to the offset configuration and the low deployment threshold velocity change. The driver of the Jaguar was not wearing the manual belt system and was not injured. The 46 year old female right front occupant was not wearing the manual belt system. She apparently sustained a non-incapacitating injury and was transported by ambulance to a local hospital. The hospital had no record of treatment for the passenger and she refused an interview.

The Mazda was subsequently displaced forward into the rear of the Geo Prizm. Both vehicles sustained minor damage from the secondary impact sequence.

17. *Key Words* Mechanically triggered driver and passenger air bags Velocity change of 12 km/h (8 mph) Passenger side deployment	18. *Distribution Statement* General Public		
19. *Security Classif. (of this report)* Unclassified	20. *Security Classif. (of this page)* Unclassified	21. *No. of Pages* 31	22. *Price*

CALSPAN REMOTE AIR BAG DEPLOYMENT INVESTIGATION
CALSPAN CASE NO. 94-13
VEHICLE: 1994 JAGUAR XJ6
LOCATION: [redacted], FL.

SUMMARY

This remote investigation was a follow-up to Case No. [redacted] from the National Accident Sampling System (NASS) which involved the deployment of the passenger side air bag on a 1994 Jaguar XJ6. The vehicle was equipped with dual driver and passenger side air bags. On an approach to signalized intersection, the Jaguar impacted the rear of a stopped Mazda Miata and displaced the Mazda into the rear of a stopped Geo Prizm. The Mazda and the Geo were both equipped with diver air bag systems, however, these systems did not deploy.

The crash occurred on [redacted] 1994, on a six-lane divided federal highway in [redacted], Fl., during nightime hours on a dry asphalt road surface. The 1992 Mazda Miata was stopped behind a 1990 Geo Prizm in a line of standing traffic in the center southbound travel lane approximately 0.16 km (0.1miles) from a four-leg intersection for a red signal phase. The 1994 Jaguar XJ6 was traveling in a southerly direction in the center lane on an approach to the intersection and the standing traffic at a driver estimated speed of 40 km/h (25 mph). The driver of the Jaguar was apparently inattentive to the driving task and failed to detect the stopped traffic. He probably braked immediately prior to impact in an attempt to avoid the crash.

The center and right frontal area of the Jaguar impacted the rear of the stopped Mazda Miata in a slightly offset 12 o'clock/6 o'clock impact configuraton. Due to the suspected pre-impact braking by the driver of the Jaguar, the front suspension probably compressed which allowed the front bumper to initially impact and underride the rear of the Mazda. Direct contact damage on the Jaguar began at the right front corner and extended 110 cm (43.3") laterally across the grille and hood face. There was minimal contact damage on the top surface of the bumper, however, no residual crush occurred at bumper level. Both bumper energy absorbing devices (EADs) apparently compressed and returned to their original pre-crash positions. The grille, header panel, and hood face subsequently engaged against the rear of the Mazda and crushed to an estimated depth of 15-20 cm (6-8"). The crush depth was estimated from photographs obtained from the insurance company since the vehicle was under repair at the time of the NASS inspection. Damaged components included the front bumper, both EADs, grille, right headlamp assembly, left headlamp lens, hood, air conditioning condensor, radiator, radiator support panel, right front fender, and the windshield. The windshield damage consisted of a crack that resulted from stress to the frontal structure. The total repair cost was estimated at $11,028.

The struck Mazda sustained moderate damage that was distributed across the rear of the vehicle. Direct contact damage began at the left rear corner of the bumper and extended approximately 128 cm (50") to the right taillamp assembly. The NASS researcher documented the maximum crush as 7.0 cm (2.7") located at the left rear corner of the bumper.

The front-to-rear impact sequence displaced the Mazda forward into the rear of the stopped Geo Prizm. This secondary impact resulted in minor damage to the involved vehicles. The Mazda sustained approximately 13 cm (5") of front bumper crush located at the right corner. The struck Geo sustained 10 cm (4") of bumper crush located at the left rear corner. Both vehicles came to rest near the point of impact.

The Jaguar sustained a longitudinal velocity change of approximately 12 km/h (8 mph) from its impact with the Mazda Miata. The velocity change was computed by the damage algorithm of the CRASHPC program using estimated crush profiles from both vehicles. The Mazda sustained a barrier equivalent speed change of 22 km/h (14 mph) as it was accelerated from a stopped position into the rear of the Geo Prizm. As a result of the initial offset front-to-rear impact configuration, the passenger side air bag of the Jaguar XJ6 deployed. The driver's side supplemental air bag system did not deploy.

The driver of the Jaguar was a 60 year old male with an unknown height and weight. The police report and the NASS researcher both identified the driver as unrestrained. There was no contact evidence within the vehicle and the driver was reported as not injured. The right front occupant was a 46 year old female. She was not wearing the available 3-point lap and shoulder belt system. The passenger side air bag system did deploy which provided upper thoracic and facial protection in the low speed crash. The NASS researcher noted a possible tissue transfer on the outboard corner of the bag. The passenger was transported by ambulance to a local hospital, however, there was no record of treatment for the patient at the hospital. She subsequently refused an interview, therefore her level of injury was unknown.

The driver's side supplemental air bag was contained in a typical module assembly within a four-spoke steering wheel. Although nondeployed, the module cover appeared to have a center horizontal parting seam which allowed for symetrical flaps hinged at the top and bottom of the module when the wheel is in the 12/6 o'clock position. The perpendicular view of the steering assembly (photograph no.12) shows that the driver's side module protrudes approximately 2.5 cm (1.0") beyond the steering wheel rim, toward the driver.

The deployed passenger side supplemental air bag system was contained within the right mid instrument panel. The large module cover door was mounted in a vertical position and extended from the right edge of the center console to the air vent adjacent to the right A -pillar. The door appeared to be rigid and was hinged at the top surface which allowed it to open in an upward direction. The face of the door was covered with a wood grain trim panel that blended into the remainder of the instrument panel. The bottom edge of the door was covered with a vinyl material that extended along the top of the glove box door. The deployment of the passenger bag bowed the

mid section of the door in an outward direction which cracked the wood grain trim panel. The horizontal surface of the upper instrument panel extended over the module cover door which prevented the door from rotating upward into the windshield.

The Manager of Product Investigation for Jaguar of North America was contacted regarding the passenger air bag deployment in the XJ6. He stated that the current Jaguar Supplemental Restraint System (SRS) consists of two independent, mechanically triggered air bag systems. The mechanical sensing system is incorporated into the driver and passenger air bag modules and each module must independently detect a crash pulse of sufficient magnitude to deploy the respective air bag. There are no electric crash sensors or diagnostic module within the Jaguar SRS for the 1994 model year. The Jaguar representative noted that Jaguar will adopt the Ford electrical SRS system for all 95 and beyond model year vehicles. He stated that a single bag deployment in a dual bag vehicle is not uncommon in offset crashes that involve decelerations at or near the deployment threshold.

SELECTED PRINTS

1. Crash location.

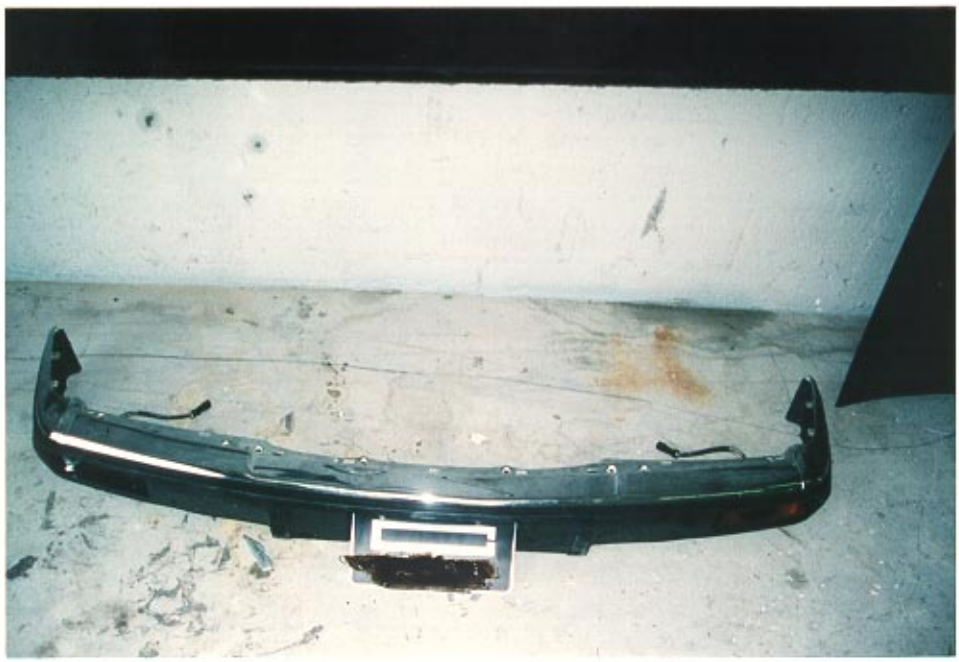
2. Frontal view of the disassembled Jaguar XJ6.

3. Left front three-quarter view.

4. Close-up view of the undamaged left front fender.

5 & 6. Right front three-quarter views.

7. Removed and damaged right front fender.



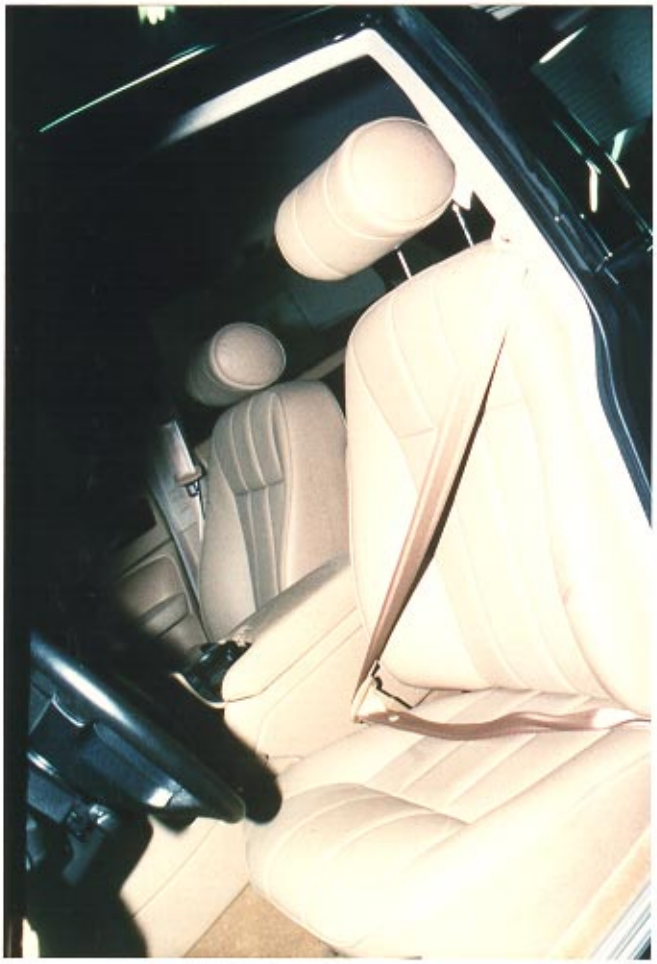
8. Removed front bumper with minimal direct contact evidence.

9. Damaged hood face.

10. Overall interior view.

11. Nondeployed driver's side air bag.

12. Perpendicular view of the wheel and air bag module assembly.



13. Driver's seat and manual belt system.

14. View of the dual air bag modules.

15. Deployed passenger side air bag and module cover door.

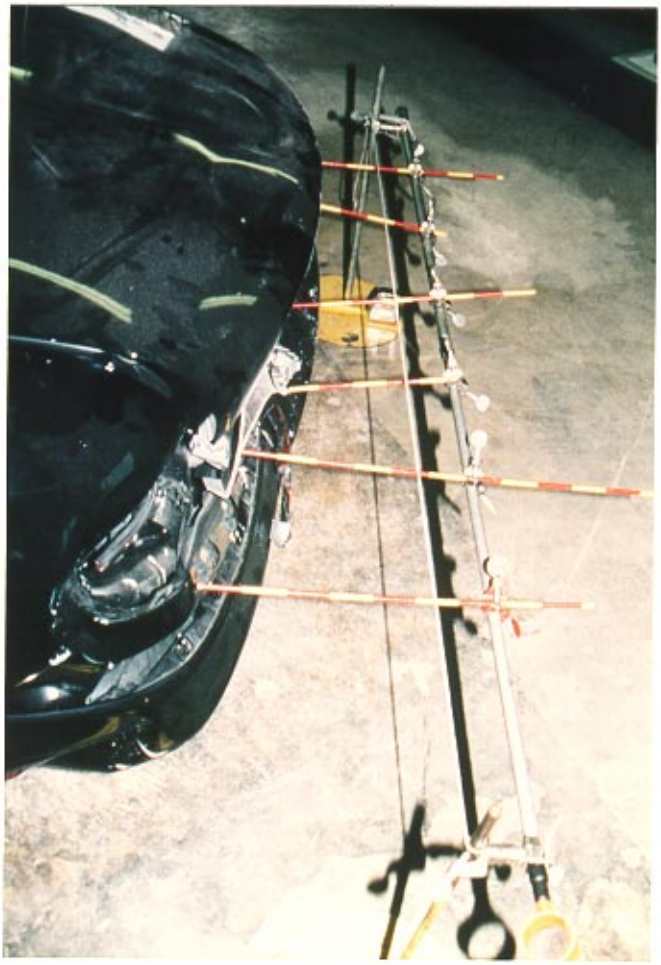
16. Perpendicular view of the passenger side module cover door.

17. Possible occupant contact evidence on the passenger side air bag.

18. Passenger's seat and manual belt system.

19. Rear view of the struck Mazda Miata.

20. Left rear three-quarter view of the struck Mazda.



21. Perpendicular view showing the extent of crush.

22. Secondary impact damage to the right frontal area.

CLAIM PHOTO TRANSMITTAL (35mm)

CLAIM NO. [redacted]

Photo No. 1

Location/View LT / F

Photo No. 2

Location/View RT / F

Photo No. 3

Location/View LT / R

Date/Time [redacted]-94

By [redacted]

94 JAG

Vin [redacted]

CLAIM PHOTO TRANSMITTAL (35mm)

CLAIM NO. [redacted]

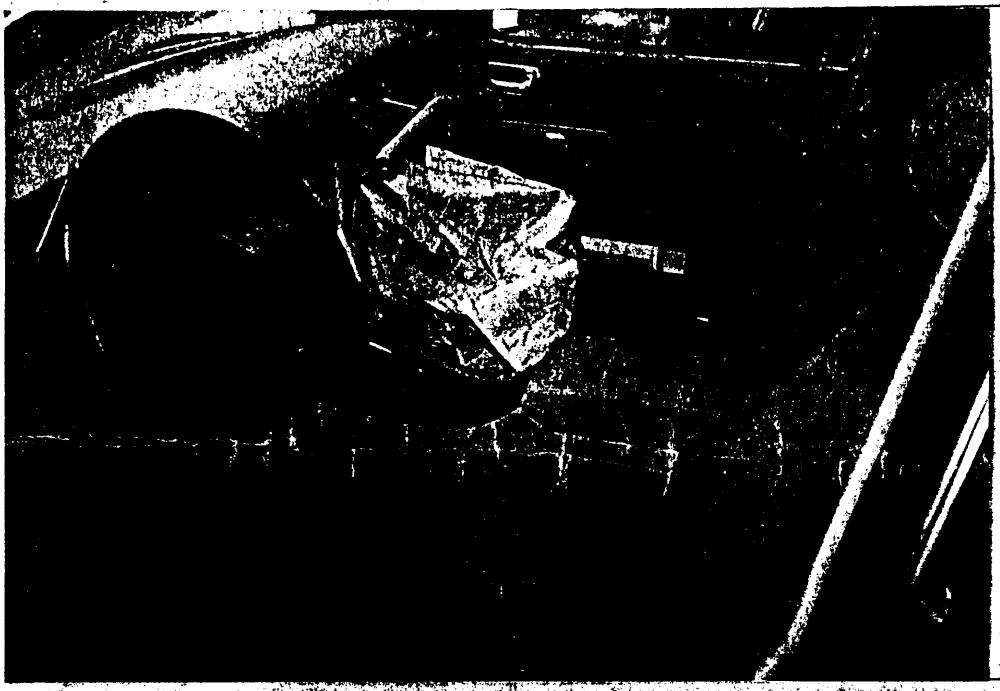


Photo No. 4

Location/View Int

Photo No. _____

Location/View _____

Photo No. _____

Location/View _____

Date/Time [redacted] 94

By [redacted]

JJG

[redacted]

ATTACHMENT A

Police Accident Report

FLORIDA TRAFFIC CRASH REPORT

MAIL TO: DEPT. OF HIGHWAY SAFETY & MOTOR VEHICLES
TRAFFIC CRASH RECORDS
[redacted], FLORIDA

DO NOT WRITE IN THIS SPACE

[redacted] Sampled 5/[redacted]/94 Due [redacted]/94 Mail [redacted]/94

Time & Location

DATE OF CRASH	TIME OF CRASH	TIME OFFICER NOTIFIED	TIME OFFICER ARRIVED	INVEST. AGENCY REPORT NUMBER	HSMV CRASH REPORT NUMBER
[redacted] 94	[redacted] ☒ AM ☐ PM	[redacted] ☒ AM ☐ PM	1:44 ☒ AM ☐ PM	[redacted]	[redacted]

COUNTY / CITY CODE	Feet or Miles	N S E W	CITY OR TOWN	(Check if in City or Town)	COUNTY
10/00	1/10	☐ ☐ ☒ ☐ of	[redacted]	☐	[redacted]

AT NODE NO. or	FEET / MILES	FROM NODE NO.	NEXT NODE NO.	NO. OF LANES	1 DIVIDED 2 UNDIVIDED	ON STREET, ROAD OR HIGHWAY
	1 ☐ 2 ☐			7	1	S.R. [redacted] ([redacted] HWY.)

AT INTERSECTION OF or	FEET / MILES	N S E W	OF INTERSECTION OF
20	1 ☒ 2 ☐	☒ ☐ ☐ ☐	SE [redacted] ST. [redacted]

Section 1 — Vehicle 1

DRIVER ACTION (1 Phantom, 2 Hit & Run, 3 N/A)	YEAR	MAKE	TYPE	USE	VEH. LICENSE NUMBER	STATE	VEHICLE IDENTIFICATION NUMBER	POINT OF IMPACT CIRCLE AREA OF DAMAGE
3	94	JAGUAR	01	01	[redacted]	FL	SAJHX1745R[redacted]	1

TRAILER OR TOWED VEHICLE INFORMATION — TRAILER TYPE: PAOF V-1 120 ... 200° V-3 +190° borlock

(18 Undercarriage, 19 Overturn, 20 Windshield, 21 Fire, 22 Trailer)

VEHICLE TRAVELING N S E W	ON	AT	Est. MPH	Posted Speed	EST. VEHICLE DAMAGE	1 Disabling 2 Functional 3 No Damage	EST. TRAILER DAMAGE
☐ ☒ ☐ ☐	S.R. [redacted]		25	40	$ 8000.00	1	$

INSURANCE COMPANY (LIABILITY OR PIP)	POLICY NUMBER	VEHICLE REMOVED BY:	1 Tow Rotation List 2 Tow Owner's Request 3 Driver 4 Other
[redacted]	[redacted]	[redacted]	1

OWNER'S FULL NAME (Check if Driver)	CURRENT ADDRESS (Number and Street)	CITY AND STATE	ZIP CODE
☐ [redacted]	[redacted]	[redacted]	[redacted]

OWNER'S FULL NAME (Trailer or Towed Vehicle) — CURRENT ADDRESS (Number and Street) — CITY AND STATE — ZIP CODE
SUNRISE OVER TRACKS ... LIGHT ... MAX LEFT

Pedestrian

DRIVER (Exactly as on Driver License) / Pedestrian	CURRENT ADDRESS (Number and Street)	CITY & STATE / ZIP CODE	DATE OF BIRTH
[redacted]	[redacted]	[redacted]	[redacted]

DRIVER LICENSE NUMBER	STATE	DL TYPE	REQ END	BAC TEST (1 Blood 2 Breath 3 Urine 4 Refused 5 None)	RESULTS	AL/DRUG	PHYS. DEF.	RES	RACE	SEX	INJ.	S. EQUIP.	EJECT.
[redacted]	FL	5	1	5	%	5	1	1	1	1	1	1	1

HAZARDOUS MATERIALS BEING TRANSPORTED	PLACARDED	RECOMMEND RE-EXAM	If YES, Explain in Narrative	DRIVER'S PHONE NO.
1 Yes ☐ 2 No ☒	1 Yes ☐ 2 No ☒	1 Yes ☐ 2 No ☒		[redacted]

PASSENGER'S NAME (Additional on Continuation Page)	CURRENT ADDRESS	CITY & STATE / ZIP	AGE	LOC.	INJ.	S. EQUIP	EJECT.
[redacted]	[redacted]	[redacted]	46	3	3	4	1

Section 2 — Vehicle 2

DRIVER ACTION (1 Phantom, 2 Hit & Run, 3 N/A)	YEAR	MAKE	TYPE	USE	VEH. LICENSE NUMBER	STATE	VEHICLE IDENTIFICATION NUMBER	POINT OF IMPACT CIRCLE AREA OF DAMAGE
3	92	MAZD	01	01	[redacted]	FL	JM1NA3517140[redacted]	8

TRAILER OR TOWED VEHICLE INFORMATION — TRAILER TYPE

(18 Undercarriage, 19 Overturn, 20 Windshield, 21 Fire, 22 Trailer)

VEHICLE TRAVELING N S E W	ON	AT	Est. MPH	Posted Speed	EST. VEHICLE DAMAGE	1 Disabling 2 Functional 3 No Damage	EST. TRAILER DAMAGE
☐ ☒ ☐ ☐	S.R. [redacted]		Ø	40	$ 4000.00	1	$

INSURANCE COMPANY (LIABILITY OR PIP)	POLICY NUMBER	VEHICLE REMOVED BY:	1 Tow Rotation List 2 Tow Owner's Request 3 Driver 4 Other
[redacted]	[redacted]	[redacted]	1

OWNER'S FULL NAME (Check if Driver)	CURRENT ADDRESS (Number and Street)	CITY AND STATE	ZIP CODE
☐ [redacted]	[redacted]	[redacted]	[redacted]

OWNER'S FULL NAME (Trailer or Towed Vehicle) — CURRENT ADDRESS (Number and Street) — CITY AND STATE — ZIP CODE

Pedestrian

DRIVER (Exactly as on Driver License) / Pedestrian	CURRENT ADDRESS (Number and Street)	CITY & STATE / ZIP CODE	DATE OF BIRTH
[redacted]	[redacted]	[redacted]	[redacted]

DRIVER LICENSE NUMBER	STATE	DL TYPE	REQ END	BAC TEST (1 Blood 2 Breath 3 Urine 4 Refused 5 None)	RESULTS	AL/DRUG	PHYS. DEF.	RES	RACE	SEX	INJ.	S. EQUIP.	EJECT.
[redacted]	FL	5	1	5	%	1	1	2	1	1	3	2	1

HAZARDOUS MATERIALS BEING TRANSPORTED	PLACARDED	RECOMMEND RE-EXAM	If YES, Explain in Narrative	DRIVER'S PHONE NO.
1 Yes ☐ 2 No ☒	1 Yes ☐ 2 No ☒	1 Yes ☐ 2 No ☒		

PASSENGER'S NAME (Additional on Continuation Page)	CURRENT ADDRESS	CITY & STATE / ZIP	AGE	LOC.	INJ.	S. EQUIP	EJECT.
[redacted]	[redacted]	[redacted]	29	3	3	2	1

Code Information

VEHICLE TYPE
01 Automobile
02 Passenger Van
03 Pickup/Light Truck (2 rear tires)
04 Medium Truck (4 rear tires)
05 Heavy Truck (2 or more rear axles)
06 Truck Tractor (Cab)
07 Motor Home (RV)
08 Bus
09 Bicycle
10 Motorcycle
11 Moped
12 All Terrain Vehicle
13 Train
77 Other

VEHICLE USE
01 Private Transportation
02 Commercial Passengers
03 Commercial Cargo
04 Public Transportation
05 Public School Bus
06 Private School Bus
07 Ambulance
08 Law Enforcement
09 Fire/Rescue
10 Military
11 Other Government
77 Other

TRAILER TYPE
01 Single Semi Trailer
02 Tandem Semi Trailer(s)
03 Tank Trailer
04 Saddle Mount / Flatbed
05 Boat Trailer
06 Utility Trailer
07 House Trailer
08 Pole Trailer
09 Towed Vehicle
77 Other

RESIDENCE (Driver Only)
1 County of Crash
2 Elsewhere in State
3 Non-Resident of State
4 Foreign 5 Unknown

DL TYPE
1 A 2 B 3 C
4 D/Chauffeur
5 E/Operator
6 E/Oper-Rest
7 None

RACE
1 White
2 Black
3 Hispanic
4 Other

REQUIRED ENDORSEMENTS
1 Yes 2 No 3 NR

SEX
1 Male
2 Female

PHYSICAL DEFECTS
1 No Defects Known
2 Eyesight Defect
3 Fatigue / Asleep
4 Hearing Defect
5 Illness
6 Seizure, Epilepsy, Blackout
7 Other Physical Defect

INJURY SEVERITY
1 None
2 Possible
3 Non-Incapacitating
4 Incapacitating
5 Fatal (Within 90 Days)
6 Non-Traffic Fatality

ALCOHOL / DRUG USE
1 Not Drinking or Using Drugs
2 Alcohol - Under Influence
3 Drugs - Under Influence
4 Alcohol & Drugs - Under Influence
5 Had Been Drinking
6 Pending BAC Test Result

SAFETY EQUIPMENT IN USE
1 Not In Use
2 Seat Belt / Shoulder Harness
3 Child Restraint
4 Air Bag
5 Safety Helmet
6 Eye Protection

LOCATION (In Vehicle)
1 Front Left
2 Front Center
3 Front Right
4 Rear Left
5 Rear Center
6 Rear Right
7 In Body of Truck
8 Bus Passenger
9 Other

EJECTED
1 No
2 Yes
3 Partial

HSMV 90003 (Rev. 11/92)

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BEST AVAILABLE COPY

Section 3 — Vehicle 3 / Pedestrian

DRIVER ACTION 1 Phantom 2 Hit & Run 3 N/A	YEAR	MAKE	TYPE	USE	VEH. LICENSE NUMBER	STATE	VEHICLE IDENTIFICATION NUMBER	POINT OF IMPACT CIRCLE AREA OF DAMAGE
3	90	GEO	01	01	[redacted]	FL	1Y1SK5168LZ[redacted]	8

TRAILER OR TOWED VEHICLE INFORMATION — TRAILER TYPE

Point of impact diagram: 1–17; 18 Undercarriage 19 Overturn 20 Windshield 21 Fire 22 Trailer

VEHICLE TRAVELING: N ☐ S ☒ E ☐ W ☐ ON: S.R.[redacted] AT:
Est. MPH: 0 — Posted Speed: 40
EST. VEHICLE DAMAGE: $ 1000.00 — 1 Disabling 2 Functional 3 No Damage: 2
EST. TRAILER DAMAGE: $

INSURANCE COMPANY (LIABILITY OR PIP): [redacted] POLICY NUMBER: [redacted]
VEHICLE REMOVED BY: DRIVER — 1 Tow Rotation List 2 Tow Owner's Request 3 Driver 4 Other: 3

OWNER'S FULL NAME (Check if Driver) ☒ CURRENT ADDRESS (Number and Street) [redacted] CITY AND STATE [redacted] ZIP CODE

~~OWNER'S FULL NAME (Trailer or Towed Vehicle)~~ [redacted] CURRENT ADDRESS (Number and Street) [redacted] Ave North to CITY AND STATE [redacted] ZIP CODE

DRIVER (Exactly as on Driver License) / Pedestrian: [redacted] CURRENT ADDRESS (Number and Street) [redacted] CITY & STATE / ZIP CODE — DATE OF BIRTH: [redacted]-61

DRIVER LICENSE NUMBER	STATE	DL TYPE	REQ END.	BAC TEST 1 Blood 2 Breath 3 Urine 4 Refused 5 None	RESULTS	AL/DRUG	PHYS. DEF.	RES	RACE	SEX	INJ.	S. EQUIP.	EJECT.
[redacted]	FL	5	1	5		1	1	1	1	1	1	2	1

HAZARDOUS MATERIALS BEING TRANSPORTED 1 Yes ☐ 2 No ☒ — PLACARDED 1 Yes ☐ 2 No ☒ — RECOMMEND RE-EXAM 1 Yes ☐ 2 No ☒ — If YES, Explain in Narrative — DRIVER'S PHONE NO. [redacted]

PASSENGER'S NAME (Additional on Continuation Page)	CURRENT ADDRESS	CITY & STATE / ZIP	AGE	LOC.	INJ.	S. EQUIP.	EJECT
[redacted]	[redacted]		31	3	3	2	1

~~PROPERTY DAMAGED - OTHER THAN VEHICLES~~ #1 (building 4) — EST. AMOUNT $ — OWNER'S NAME: LEFT owner 2 lights — ADDRESS — CITY — STATE — ZIP

PROPERTY DAMAGED - OTHER THAN VEHICLES #2 — EST. AMOUNT $ — OWNER'S NAME [redacted] — ADDRESS — CITY — STATE — ZIP

CONTRIBUTING CAUSES - DRIVER / PED. 01 No Improper Driving / Action 02 Careless Driving 03 Failed to Yield Right-of-Way 04 Improper Backing 05 Improper Lane Change 06 Improper Turn 07 Alcohol-Under Influence 08 Drugs-Under Influence 09 Alcohol & Drugs-Under Influence 10 Followed Too Closely 11 Disregarded Traffic Signal 12 Exceeded Safe Speed Limit 13 Disregarded Stop Sign 14 Failed to Maintain Equip. / Vehicle 15 Improper Passing 16 Drove Left of Center 17 Exceeded Stated Speed Limit 18 Obstructing Traffic 19 Improper Load 20 Disregarded Other Traffic Control 21 Driving Wrong Side / Way 22 Fleeing Police 23 Vehicle Modified 77 All Other (Explain) — 1: 77 2: 01 3: 01

VEHICLE DEFECT 01 No Defects 02 Def. Brakes 03 Worn / Smooth Tires 04 Defective / Improper Lights 05 Puncture / Blowout 06 Steering Mech. 07 Windshield Wipers 08 Equipment / Vehicle Defect 77 All Other (Explain in Narrative) — 1: 01 2: 01 3: 01

VEHICLE MOVEMENT 01 Straight Ahead 02 Slowing / Stopped / Stalled 03 Making Left Turn 04 Backing 05 Making Right Turn 06 Changing Lanes 07 Entering/Leaving Parking Space 08 Properly Parked 09 Improperly Parked 10 Making U-Turn 11 Passing 12 Driverless or Runaway Veh. 77 All Other (Explain in Narrative) — 1: 01 2: 02 3: 02

VEHICLE SPECIAL FUNCTIONS 1 None 2 Farm 3 Police Pursuit 4 Recreational 5 Emergency Operation 6 Construction / Maintenance — 1: 1 2: 1 3: 1

LOCATION ON ROADWAY 1 On Road 2 Not On Road 3 Shoulder 4 Median 5 Turn Lane / Safety Zone — 1: 1 2: 1 3: 1

PEDESTRIAN ACTION 01 Crossing Not at Intersection 02 Crossing at Mid-block Crosswalk 03 Crossing at Intersection 04 Walking Along Road With Traffic 05 Walking Along Road Against Traffic 06 Working on Vehicle in Road 07 Other Working in Road 08 Standing/Playing in Road 09 Standing in Pedestrian Island 77 All Other (Explain) 88 Unknown

LOCATION TYPE 1 Primarily Business 2 Primarily Residential 3 Open Country — 1

FIRST / SUBSEQUENT HARMFUL EVENT 01 Collision With MV in Transport (Rear-end) 02 Collision With MV in Transport (Head-on) 03 Collision With MV in Transport (Angle) 04 Collision With MV in Transport (Left Turn) 05 Collision With MV in Transport (Right Turn) 06 Collision With MV in Transport (Sideswipe) 07 Collision With MV in Transport (Backed Into) 08 Collision With Parked Car 09 Collision With MV on Other Roadway 10 Collision With Pedestrian 11 Collision With Bicycle 12 Collision With Bicycle (Bike Lane) 13 Collision With Moped 14 Collision With Train 15 Collision With Animal 16 MV Hit Sign/Sign Post 17 MV Hit Utility Pole/Light Pole 18 MV Hit Guardrail 19 MV Hit Fence 20 MV Hit Concrete Barrier Wall 21 MV Hit Bridge/Pier/Abutment/Rail 22 MV Hit Tree/Shrubbery 23 Collision With Construction Barricade/Sign 24 Collision With Traffic Gate 25 Collision With Crash Attenuators 26 Collision With Fixed Object Above Road 27 MV Hit Other Fixed Object 28 Collision With Moveable Object On Road 29 MV Ran Into Ditch/Culvert 30 Ran Off Road Into Water 31 Overturned 32 Occupant Fell From Vehicle 33 Tractor/Trailer Jackknifed 34 Fire 35 Explosion 77 All Other (Explain) — F: 01 S: 01

ROAD SYSTEM IDENTIFIER 01 Interstate 02 U.S. 03 State 04 County 05 Local 06 Turnpike / Toll 07 Forest Road 77 All Other — 03

LIGHTING CONDITION 01 Daylight 02 Dusk 03 Dawn 04 Dark (Street Light) 05 Dark (No Street Light) 88 Unknown — 04

ROAD SURFACE / CONDITION 01 Dry 02 Wet 03 Slippery 04 Icy 77 All Other (Explain) — 01

WEATHER 01 Clear 02 Cloudy 03 Rain 04 Fog 77 All Other (Explain) — 02

ROAD SURFACE TYPE 01 Slag / Gravel / Stone 02 Blacktop 03 Brick / Block 04 Concrete 05 Dirt 77 All Other (Explain) — 02

CONTRIBUTING CAUSES - ROAD 01 No Defects 02 Obstruction With / Without Warning 03 Road Under Repair / Construction 04 Loose Surface Materials 05 Shoulders - Soft / Low / High 06 Holes / Ruts / Unsafe Paved Edge 07 Standing Water 08 Worn / Polished Road Surface 77 All Other (Explain) — 01

CONTRIBUTING CAUSES - ENVIRONMENT 01 Vision Not Obscured 02 Inclement Weather 03 Parked / Stopped Vehicle 04 Trees / Crops / Bushes 05 Load on Vehicle 06 Building / Fixed Object 07 Signs / Billboards 08 Fog 09 Smoke 10 Glare 77 All Other (Explain) — 01

TRAFFIC CONTROL 01 No Control 02 Special Speed Zone 03 Traffic Signal 04 Stop Sign 05 Yield Sign 06 Flashing Light 07 Railroad Signal 08 Officer / Guard / Flagman 09 Posted No U-Turn 10 School Zone 77 All Other (Explain) — 03

SITE LOCATION 01 Not At Intersection / RR X'ing / Bridge 02 At Intersection 03 Influenced By Intersection 04 Driveway Access 05 Railroad Crossing 06 Bridge 07 Entrance Ramp 08 Exit Ramp 09 Parking Lot - Public 10 Parking Lot - Private 11 Private Property 77 All Other (Explain) — 03

TRAFFICWAY CHARACTER 1 Straight-Level 2 Straight-Upgrade / Downgrade 3 Curve-Level 4 Curve-Upgrade / Downgrade — 1

TYPE SHOULDER 1 Paved 2 Unpaved 3 Curb — 3

VIOLATOR	FL STATUTE NUMBER	NAME	CHARGE	CITATION #
1	316.185	[redacted]	FAILURE TO USE DUE CARE	[redacted]

FLORIDA TRAFFIC CRASH REPORT

☐ UPDATE ☒ CONTINUATION

MAIL TO: DEPT. OF HIGHWAY SAFETY & MOTOR VEHICLES
TRAFFIC CRASH RECORDS
[redacted] FLORIDA [redacted]

DO NOT WRITE IN THIS SPACE

COUNTY/CITY CODE	DATE OF CRASH	INVEST. AGENCY REPORT NUMBER	HSMV CRASH REPORT NUMBER
10/00	[redacted] 94	[redacted]	[redacted]

Section

DRIVER ACTION 1 Phantom 2 Hit & Run 3 N/A	YEAR	MAKE	TYPE	USE	VEH. LICENSE NUMBER	STATE	VEHICLE IDENTIFICATION NUMBER
TRAILER OR TOWED VEHICLE INFORMATION			TRAILER TYPE				

POINT OF IMPACT CIRCLE AREA OF DAMAGE: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Undercarriage 19 Overturn 20 Windshield 21 Fire 22 Trailer

VEHICLE TRAVELING N S E W	ON	At	Est. MPH	Posted Speed	EST. VEHICLE DAMAGE 1 Disabling 2 Functional 3 No Damage $	EST. TRAILER DAMAGE $

INSURANCE COMPANY (LIABILITY OR PIP)	POLICY NUMBER	VEHICLE REMOVED BY: 1 Tow Rotation List 2 Tow Owner's Request 3 Driver 4 Other

OWNER'S FULL NAME (Check if Driver)	CURRENT ADDRESS (Number and Street)	CITY AND STATE	ZIP CODE

OWNER'S FULL NAME (Trailer or Towed Vehicle)	CURRENT ADDRESS (Number and Street)	CITY AND STATE	ZIP CODE

DRIVER (Exactly as on Driver License) / Pedestrian	CURRENT ADDRESS (Number and Street)	CITY & STATE / ZIP CODE	DATE OF BIRTH

DRIVER LICENSE NUMBER	STATE	DL TYPE	REQ END.	BAC TEST 3 Urine 1 Blood 4 Refused 2 Breath 5 None	RESULTS %	AL / DRUG	PHYS. DEF.	RES	RACE	SEX	INJ.	S. EQUIP.	EJECT.

HAZARDOUS MATERIALS BEING TRANSPORTED 1 Yes 2 No	PLACARDED 1 Yes 2 No	RECOMMEND RE-EXAM 1 Yes 2 No	If YES, Explain in Narrative	DRIVER'S PHONE NO.
				( )

PASSENGER'S NAME (Additional on Continuation Page)	CURRENT ADDRESS	CITY & STATE / ZIP	AGE	LOC.	INJ.	S. EQUIP	EJECT.

Section

DRIVER ACTION 1 Phantom 2 Hit & Run 3 N/A	YEAR	MAKE	TYPE	USE	VEH. LICENSE NUMBER	STATE	VEHICLE IDENTIFICATION NUMBER
TRAILER OR TOWED VEHICLE INFORMATION			TRAILER TYPE				

POINT OF IMPACT CIRCLE AREA OF DAMAGE: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Undercarriage 19 Overturn 20 Windshield 21 Fire 22 Trailer

VEHICLE TRAVELING N S E W	ON	At	Est. MPH	Posted Speed	EST. VEHICLE DAMAGE 1 Disabling 2 Functional 3 No Damage $	EST. TRAILER DAMAGE $

INSURANCE COMPANY (LIABILITY OR PIP)	POLICY NUMBER	VEHICLE REMOVED BY: 1 Tow Rotation List 2 Tow Owner's Request 3 Driver 4 Other

OWNER'S FULL NAME (Check if Driver)	CURRENT ADDRESS (Number and Street)	CITY AND STATE	ZIP CODE

OWNER'S FULL NAME (Trailer or Towed Vehicle)	CURRENT ADDRESS (Number and Street)	CITY AND STATE	ZIP CODE

DRIVER (Exactly as on Driver License) / Pedestrian	CURRENT ADDRESS (Number and Street)	CITY & STATE / ZIP CODE	DATE OF BIRTH

DRIVER LICENSE NUMBER	STATE	DL TYPE	REQ END.	BAC TEST 3 Urine 1 Blood 4 Refused 2 Breath 5 None	RESULTS %	AL / DRUG	PHYS. DEF.	RES	RACE	SEX	INJ.	S. EQUIP.	EJECT.

HAZARDOUS MATERIALS BEING TRANSPORTED 1 Yes 2 No	PLACARDED 1 Yes 2 No	RECOMMEND RE-EXAM 1 Yes 2 No	If YES, Explain in Narrative	DRIVER'S PHONE NO.
				( )

PASSENGER'S NAME (Additional on Continuation Page)	CURRENT ADDRESS	CITY & STATE / ZIP	AGE	LOC.	INJ.	S. EQUIP	EJECT.

INVESTIGATOR - RANK AND SIGNATURE	ID / BADGE NUMBER	DEPARTMENT	FHP	SO	CPD	OTHER
TPR. [redacted]	[redacted]	[redacted] HIGHWAY PATROL	☒	☐	☐	☐

#	PROPERTY DAMAGED - OTHER THAN VEHICLES	EST. AMOUNT	OWNER'S NAME	ADDRESS	CITY	STATE	ZIP
1		$					
2		$					
3		$					
4		$					

CONTRIBUTING CAUSES - DRIVER/PED.

01 No Improper Driving / Action
02 Careless Driving
03 Failed to Yield Right-of-Way
04 Improper Backing
05 Improper Lane Change
06 Improper Turn
07 Alcohol-Under Influence
08 Drugs-Under Influence
09 Alcohol & Drugs-Under Influence
10 Followed Too Closely
11 Disregarded Traffic Signal
12 Exceeded Safe Speed Limit
13 Disregarded Stop Sign
14 Failed to Maintain Equip. / Vehicle
15 Improper Passing
16 Drove Left of Center
17 Exceeded Stated Speed Limit
18 Obstructing Traffic
19 Improper Load
20 Disregarded Other Traffic Control
21 Driving Wrong Side / Way
22 Fleeing Police
23 Vehicle Modified
77 All Other (Explain)

VEHICLE DEFECT

01 No Defects
02 Def. Brakes
03 Worn / Smooth Tires
04 Defective / Improper Lights
05 Puncture / Blowout
06 Steering Mech.
07 Windshield Wipers
08 Equipment / Vehicle Defect
77 All Other (Explain in Narrative)

VEHICLE MOVEMENT

01 Straight Ahead
02 Slowing / Stopped / Stalled
03 Making Left Turn
04 Backing
05 Making Right Turn
06 Changing Lanes
07 Entering/Leaving Parking Space
08 Properly Parked
09 Improperly Parked
10 Making U-Turn
11 Passing
12 Driverless or Runaway Veh.
77 All Other (Explain in Narrative)

VEHICLE SPECIAL FUNCTIONS

1 None
2 Farm
3 Police Pursuit
4 Recreational
5 Emergency Operation
6 Construction / Maintenance

LOCATION ON ROADWAY

1 On Road
2 Not On Road
3 Shoulder
4 Median
5 Turn Lane / Safety Zone

PEDESTRIAN ACTION

01 Crossing Not at Intersection
02 Crossing at Mid-block Crosswalk
03 Crossing at Intersection
04 Walking Along Road With Traffic
05 Walking Along Road Against Traffic
06 Working on Vehicle in Road
07 Other Working in Road
08 Standing/Playing in Road
09 Standing in Pedestrian Island
77 All Other (Explain)
88 Unknown

Additional Passengers / Narrative

SEC. #	PASS. #	PASSENGER NAME	ADDRESS	CITY & STATE	ZIP	Age	Loc.	Inj.	Safety Equip.	Eject
3	3	[redacted]				32	6	3	2	1

WITNESS - NAME | ADDRESS | CITY & STATE | ZIP

WAS INVESTIGATION MADE AT SCENE? 1 Yes ☒ 2 No ☐ - Where? ALSO, [redacted] HOSPITAL

IS INVESTIGATION COMPLETE? 1 Yes ☒ 2 No - Why? ☐

DATE OF REPORT [redacted]94

PHOTOS TAKEN? 1 - Yes ☐ 2 - No ☒ 3 - Investigating Agency ☐ 4 Other ☐

VIOLATOR	FL STATUTE NUMBER	NAME	CHARGE	CITATION #

FLORIDA TRAFFIC CRASH REPORT

NARRATIVE / DIAGRAM

MAIL TO: DEPT. OF HIGHWAY SAFETY & MOTOR VEHICLES
TRAFFIC CRASH RECORDS [redacted]

DO NOT WRITE IN THIS SPACE

EMS INFO FATALS ONLY	TIME EMS NOTIFIED AM PM	TIME EMS ARRIVED AM PM	COUNTY / CITY CODE	DATE OF CRASH	INVEST. AGENCY REPORT NUMBER	HSMV CRASH REPORT NUMBER
			[redacted]	[redacted] 94	[redacted]	[redacted]

VEHICLE 1 WAS TRAVELING SOUTHBOUND IN THE CENTER LANE OF SOUTHBOUND S.R. [redacted] ([redacted] HWY). VEHICLE 2 WAS STOPPED FOR A RED TRAFFIC LIGHT AT SE [redacted] ST, FACING SOUTHBOUND IN THE CENTER LANE OF SOUTHBOUND S.R. [redacted]. VEHICLE 3 WAS STOPPED FOR A RED TRAFFIC LIGHT AT SE [redacted] ST, FACING SOUTHBOUND IN THE CENTER LANE OF SOUTHBOUND S.R. [redacted]. DRIVER 1 FAILED TO NOTICE STOPPED TRAFFIC AT SE [redacted] ST. VEHICLE 1'S FRONT STRUCK VEHICLE 2'S REAR. VEHICLE 2 TRAVELED IN A SOUTHBOUND DIRECTION FROM IMPACT. VEHICLE 2'S FRONT STRUCK VEHICLE 3'S REAR. VEHICLE 3 TRAVELED IN A SOUTHBOUND DIRECTION FROM IMPACT. VEHICLE 3 CAME TO FINAL REST FACING SOUTHWEST IN THE INTERSECTION OF SR. [redacted] AND SE [redacted] ST. VEHICLE 2 CAME TO FINAL REST FACING SOUTH IN THE CENTER LANE OF SOUTHBOUND SR [redacted]. VEHICLE 1 CAME TO FINAL REST FACING SOUTHWEST IN THE CENTER LANE OF SOUTHBOUND S.R. [redacted]

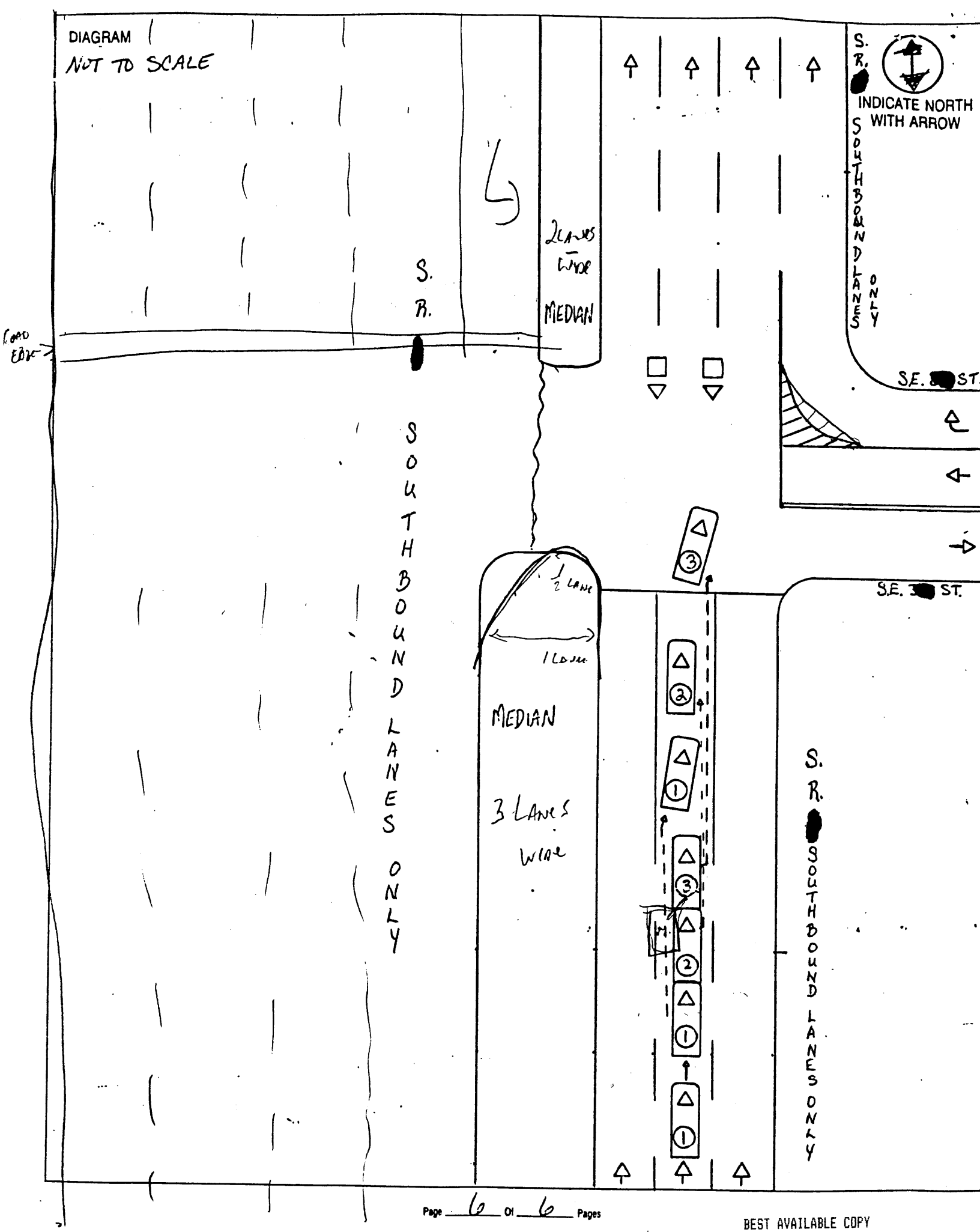
VI'S 77: FAILURE TO USE DUE CARE.

WITNESS - NAME	ADDRESS	CITY & STATE	ZIP
1			
WITNESS - NAME	ADDRESS	CITY & STATE	ZIP
2			

FIRST AID GIVEN BY - NAME:	1 Physician or Nurse 2 Paramedic or EMT 3 Police Officer 4 Certified 1st Aider 5 Other	INJURED TAKEN TO:	BY - NAME:
[redacted] FIRE RESCUE	2	[redacted] HOSPITAL	E.M.S. AMBULANCE

WAS INVESTIGATION MADE AT SCENE?	IS INVESTIGATION COMPLETE?	DATE OF REPORT	PHOTOS TAKEN?
1 YES [X] 2 NO [ ] WHERE? ALSO, [redacted] HOSPITAL	1 YES [X] 2 NO [ ] WHY?	[redacted] 9/4	1 YES [ ] 2 NO [X] 3 INVEST. AGENCY [ ] 4 OTHER [ ]

INVESTIGATOR - RANK & SIGNATURE	ID / BADGE NUMBER	DEPARTMENT	
TPR [redacted]	[redacted]	[redacted] HIGHWAY PATROL	FHP [X] SO [ ] CPD [ ] OTHER [ ]



ATTACHMENT B

Jaguar Repair Estimate

[redacted] INSURANCE COMPANY
[redacted] HIGHWAY INSPECTION FACILITY
[redacted]
A1 LOG NO [redacted] DATE [redacted]/94

CLAIM# [redacted]
COMPANY [redacted] INSURANCE COMPANY
INSURED [redacted]
LOSS DATE [redacted]/94

POLICY#
CLAIM REP [redacted]
CLAIMANT
TYPE OF LOSS COLL/FIS

INSP DATE [redacted]/94
ESTIMATOR [redacted]

LOCATION [redacted] NON-DRIVE
COMPANY

SHOP [redacted]
ADDRESS [redacted]
CITY STATE [redacted]

ATTN OF
PHONE [redacted]
REF NO.

NAME [redacted]
ADDRESS [redacted]
CITY STATE [redacted]
ZIP [redacted]

HOME PHONE [redacted]
WORK PHONE

LIC# [redacted] STATE
ENG/COLOR GREEN
CONDITION GOOD

VIN [redacted]
MILEAGE 001991
ACCT'NG CTL# [redacted]

EC=QUALITY REPLACEMENT PART
N=ADDITIONAL OPERATION
E=NEW PART
I=REPAIR/ALIGN/SUBLET
ET=LABOR/PARTIAL REPLACE
RP=RELATED PRIOR DAMAGE

EP=SEE PX REPORT
L=REFINISH
IT=LABOR/PARTIAL REPAIR
UP=UNRELATED PRIOR DAMAGE

EU=QUALITY RECYCLED PARTS
P=CHECK
TE=PART/PARTIAL REPLACE
AA=APPEARANCE ALLOWANCE
*=USER ENTERED VALUE

----------REMARKS----------
OD - NONE NOTED. AIR BAG SENSORS UPON INVOICES.

1994 JAGUAR XJ6/XJ12 4 DOOR SEDAN [redacted] /G OPTNS B/E2

OPTIONS: EUROPEAN/COMPOSITE H/LAMPS TWO-STAGE - EXTERIOR SURFACES

OP	GDE	MC	DESCRIPTION		MFG. PART NO.	PRICE	AJ%	HOURS	R
E	005	01	BUMPER,FRONT		BEC24383	755.00		3.4	1
E	018		COVER,FRONT BUMPER		BDC5098	328.95		INC	1
E	008		MLDG,FRT BUMPR COVER		BEC24150	451.45		INC	1
E	012		MLDG,FRT BUMPR COVER	LT	BEC24863	79.50		INC	1
E	013		MLDG,FRT BUMPR COVER	RT	BEC24862	79.50		INC	1
E	021		SPOILER,LOWER FRONT		BEC5616	283.80		1.1	1
L	021	09	SPOILER,LOWER FRONT		REFINISH			2.4	4
E	009		FILLER,FRONT BUMPER		BEC14082	14.60		INC	1

E	020		RETAINER,FRONT BUMPER	RT	BBC7087	8.05	INC 1
E	006	01	ABS,FRONT ENERGY	LT	BEC23280	227.85	.3 1
E	007	01	ABS,FRONT ENERGY	RT	BEC23280	227.85	.3 1
E	039		BRKT,FRT BMPR OTR EXTN	RT	BDC4776	4.35	INC 1
E	028		GRILLE ASSEMBLY	LT	HMB5503AA	150.00*	.3 1
E	029		GRILLE ASSEMBLY	RT	HMB5502AA	150.00*	.3 1
E	037		GRILLE ASSEMBLY		BEC5666	332.45	.7 1
E	101		BRKT,GRILLE MOUNTING	RT	BEC25312	4.35	1
E	031		EMBLEM,GRILLE		BBC4770	25.25	.2 1
E	025		HEADLAMP ASSY,HALOGEN	RT	DBC11464	469.70	.3 1
N	973		HEADLAMPS AIM		ADDITIONAL OPERATION	8.00*	*1
E	060		RING,BEAM RETAIN	LT	JLM2015	106.05	INC 1
E	026		LENS,HEADLAMP	LT	JLM2013	214.35	.5 1
E	135		FILLER,HEADLAMP HSG	RT	BDC7070	3.40	1
E	056		PARKLAMP ASSEMBLY	RT	DBC11668	37.65	INC 1
E	150		LENS,PARKLAMP	LT	JLM11244	10.05	INC 1
E	058		LAMP,SIDE MARKER	RT	DBC11664	26.45	.2 1
E	147		LENS,SIDE MARKER	LT	JLM10867	11.50	.2 1
E	083		PANEL,HOOD		JLM11006	1155.00	1.5 1
L	083		PANEL,HOOD		REFINISH		4.7 4
E	110		CABLE,HOOD LOCK	RT	BBC5093	7.05	.5 1
E	084		HINGE,HOOD PANEL	LT	CAP1326	31.90	INC 1
L	084		HINGE,HOOD PANEL	LT	REFINISH		.3 4
E	085		HINGE,HOOD PANEL	RT	CAP1326	31.90	INC 1
L	085		HINGE,HOOD PANEL	RT	REFINISH		.3 4
I	078	07	PANEL,RADIATOR SIDE	LT	REPAIR/ALIGN		1.5*1
L	078		PANEL,RADIATOR SIDE	LT	REFINISH		.4 4
E	079	07	PANEL,RADIATOR SIDE	RT	CAP6216	38.40	4.1 1
L	079		PANEL,RADIATOR SIDE	RT	REFINISH		.4 4
E	075	07	CRSMBR,RAD PANEL UPR		CAP6296	39.60	4.9 1
L	075		CRSMBR,RAD PANEL UPR		REFINISH		.4 4
E	081	07	REINF,RAD SUPT PANEL	RT	CAP6112	73.65	1.0 1
L	081		REINF,RAD SUPT PANEL	RT	REFINISH		.1 4
E	200	07	REINF,RAD SUPT PANEL	RT	CAP6120	46.25	INC 1
L	200		REINF,RAD SUPT PANEL	RT	REFINISH		.1 4
E	755		RADIATOR		CCC5476	521.80	INC 1
E	086		PANEL,UPPER RAD MTG		CCC5005	33.10	INC 1
L	086		PANEL,UPPER RAD MTG		REFINISH		.1 4
E	734		FAN ASSY,ENG COOLING		CCC5489	353.15	.3 2
N	977		A/C SYSTEM RECHARGE		ADDITIONAL OPERATION		1.4 2
E	731		CONDENSER,A/C		CBC9822	504.00	INC 2
E	106	07	PNL,INR FENDER FRONT	RT	CAP6342	67.80	6.8 1
L	106		PNL,INR FENDER FRONT	RT	REFINISH		.5 4
I	119	07	REINF,INNER FENDER	RT	REPAIR/ALIGN		1.5*1
L	119		REINF,INNER FENDER	RT	REFINISH		.1 4
I	264	07	SIDE MEMBER,FRONT	RT	REPAIR/ALIGN		3.0*1
L	264		SIDE MEMBER,FRONT	RT	REFINISH		.3 4
E	266	01	COVER,FRT SIDE MEMBER	RT	BEC1446	8.85	1
L	266		COVER,FRT SIDE MEMBER	RT	REFINISH		.1 4
E	262		BRKT,SIDE MEMBER	RT	CAP6100	148.80	INC 1
L	262		BRKT,SIDE MEMBER	RT	REFINISH		.1 4
I	103		FENDER,FRONT	LT	REPAIR/ALIGN		3.5*1
L	103		FENDER,FRONT	LT	REFINISH		2.4 4
E	128		SKIRT,INNER FENDER	RT	BDC7702	80.25	INC 1
E	114		SHIELD,FRONT SPLASH	RT	BEC11048	6.95	INC 1
E	177		DUCT,FRONT FENDER	RT	BBC4938	35.20	INC 1
N	974		SUSPENSION ALIGN,FRT		ADDITIONAL OPERATION	34.95*	*2

ECG143	WINDSHIELD,TINTED		NAGS FW652-GT	296.26*	+20	*1
E 144	RESERVOIR,W/S WASHER		JLM11120	105.00		.1 1
I 208	DOOR SHELL,FRONT	RT	REPAIR/ALIGN			1.5*1
L 208	DOOR SHELL,FRONT	RT	REFINISH			1.5*4
N M04	UNDERCOATING		ADDITIONAL OPERATION	5.00*		4
N M05	RUSTPROOFING		ADDITIONAL OPERATION	10.00*		4
L M08	STONEGUARD		REFINISH			.5*4
N M14	CORROSION PROTECTION		ADDITIONAL OPERATION	20.00*		4
L M16	COLOR BLEND		REFINISH			1.5*4
N M31	SET-UP FOR REALIGNMENT		ADDITIONAL OPERATION			3.0*3
N M40	FRAME SIDESWAY, FRONT		ADDITIONAL OPERATION			2.0*3
N M41	FRAME SAG, FRONT		ADDITIONAL OPERATION			3.0*3
E	PASSENGER AIR BAG MODULE		NEW PART	754.05*		.8*2*
I	RT FRT STRUT TOWER		REPAIR/ALIGN			2.0*1*
N	R AND I MECHANICALS		ADDITIONAL OPERATION			1.5*2*
EC	COOLANT		** QUALITY REPL PART	12.00*		
EC	FREEON		** QUALITY REPL PART	25.00*		
E	RT FENDER SD MLDG		NEW PART	35.00*		.2*1*
E	RT DOOR SD MLDG		NEW PART	45.00*		.2*1*
I	FRT CROSS MEMBER		REPAIR/ALIGN			1.5*1*
EC	RT FRT TIRE		** QUALITY REPL PART	125.00*		
E	HOOD DECALS		NEW PART	10.00*		

87 ITEMS

MC MESSAGE

01 CALL DEALER FOR EXACT PART # REQUIRED
07 STRUCTURAL PART AS IDENTIFIED BY I-CAR
09 INCLUDES 0.6 HOURS MAJOR PANEL TWO-STAGE ALLOWANCE

FINAL CALCULATIONS & ENTRIES

GROSS PARTS				8,134.80
OTHER PARTS				536.21
MARKUP				59.25
PAINT MATERIAL				194.40
PARTS TOTAL				8,924.66
TAX ON PARTS & MATERIAL		@ 6.000%		535.48

LABOR	RATE	REPLACE HRS	REPAIR HRS	
1-SHEET METAL	26.00	27.1	14.5	1,081.60
2-MECH/ELEC	52.00	1.1	2.9	208.00
3-FRAME	30.00		8.0	240.00
4-REFINISH	26.00	16.2		421.20
5-PAINT MATERIAL	12.00			

LABOR TOTAL			1,950.80
TAX ON LABOR	@ 6.000%		117.05
SUBLET REPAIRS			
TOWING & STORAGE			
GROSS TOTAL			11,527.99
LESS: DEDUCTIBLE			500.00-
NET TOTAL			11,027.99

ADP#AUDATEX A1 U ES LOG [redacted] DATE [redacted]94 15:29:58 047 ACOPY N
PXN:CY/00/00/00/00 CUM:00/00/00/00 PXS:YN/00/00/00/00 CUM:00/00/00/00 [redacted]

ATTACHMENT C

CRASHPC Output
(Jaguar vs. Mazda)

SUMMARY OF CRASHPC RESULTS USING DAMAGE

CRASH3 RECONSTRUCTION

	SPEED CHANGE (DAMAGE)
VEHICLE #1	
TOTAL	12 KPH (8 MPH)
LONGITUDINAL	-12 KPH (-8 MPH)
LATITUDINAL	0 KPH (0 MPH)
PDOF ANGLE	0 DEGREES
ENERGY DISSIPATED =	13923 JOULES (10268 FT-LB)
VEHICLE #2	
TOTAL	22 KPH (14 MPH)
LONGITUDINAL	22 KPH (14 MPH)
LATITUDINAL	0 KPH (0 MPH)
PDOF ANGLE	-180 DEGREES
ENERGY DISSIPATED =	20285 JOULES (14960 FT-LB)

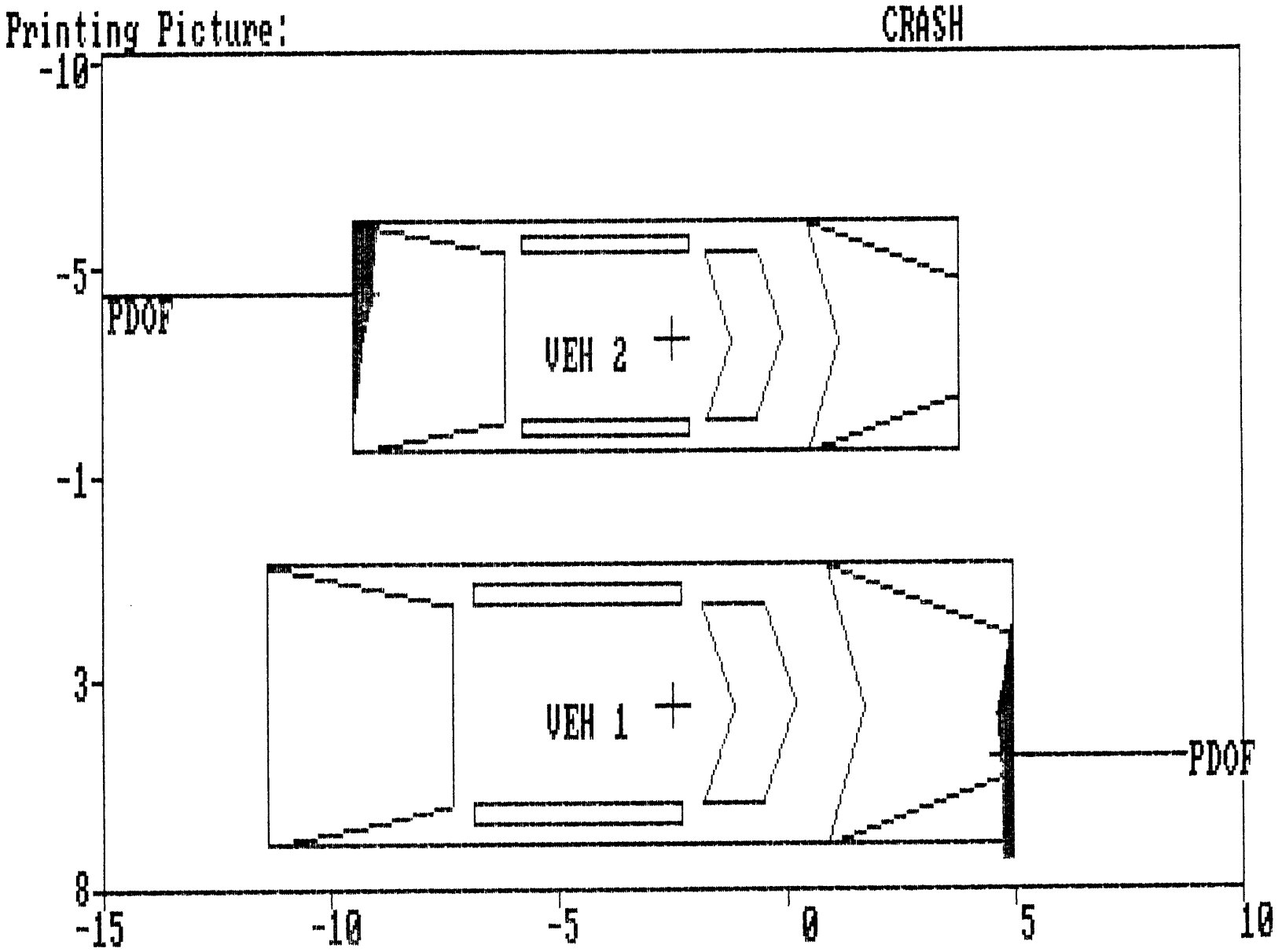
DIMENSIONS AND INERTIAL PROPERTIES

	VEHICLE #1	VEHICLE #2
CG TO FRONT AXLE	130 CM. (51 IN.)	115 CM. (45 IN.)
CG TO REAR AXLE	141 CM. (56 IN.)	122 CM. (48 IN.)
TRACK	150 CM. (59 IN.)	130 CM. (51 IN.)
CG TO FRONT OF VEH	228 CM. (90 IN.)	193 CM. (76 IN.)
CG TO REAR OF VEH	-270 CM. (-106 IN.)	-213 CM. (-84 IN.)
CG TO SIDE OF VEH	92 CM. (36 IN.)	77 CM. (30 IN.)
MOMENT OF INERTIA	17152 KGS (37812 LBS)	5872 KGS (12946 LBS)
VEHICLE MASS	5 KGS (11 LBS)	3 KGS (6 LBS)

DAMAGE DATA

	VEHICLE #1	VEHICLE #2
SIZE CATEGORY	3	1
STIFFNESS CATEGORY	3	1
VEHICLE WEIGHT	1984 KGS (4375 LBS)	1126 KGS (2482 LBS)
CDC	12FDMW1	06BDEW1
PDOF ANGLE	0 DEGREES	180 DEGREES
CRUSH LENGTH	157 CM. (62 IN.)	127 CM. (50 IN.)
C1	0 CM. (0 IN.)	18 CM. (7 IN.)
C2	5 CM. (2 IN.)	15 CM. (6 IN.)
C3	10 CM. (4 IN.)	13 CM. (5 IN.)
C4	6 CM. (3 IN.)	8 CM. (3 IN.)
C5	8 CM. (3 IN.)	5 CM. (2 IN.)
C6	8 CM. (3 IN.)	3 CM. (1 IN.)
D	25 CM. (10 IN.)	-10 CM. (-4 IN.)
D'	35 CM. (14 IN.)	-27 CM. (-11 IN.)

(* INDICATES DEFAULT VALUE)



DAMAGE DESCRIPTION