



U.S. Department of Transportation

National Highway Traffic Safety Administration

Dear Crash Data Researchers/Users:

Thank you for choosing crash data from the National Highway Traffic Safety Administration (NHTSA) for your research or other use. The information contained in this motor vehicle crash report is collected, maintained and distributed in accordance with Public Law 89-564. In accordance with this Public Law, NHTSA is required not to release any case information until completion of quality control procedures. These procedures include a review of the case material to extract all names, licenses and registration numbers, non-coded interview material, non-research related researcher comments in the margins, non-factual data, and the production number portion of the vehicle identification number (VIN).

If you requested NHTSA to query its database files in order to identify a specific crash, then that query was made using non-personal descriptors you provided for use in our search. This motor vehicle crash may have been identified from a data search and matches the general, non-personal descriptors you provided, but we cannot confirm that this is the specific crash report you requested.

If you have any questions with regard to the above procedures, please contact the Field Operations Branch, Crash Investigation Division, National Center for Statistics and Analysis at 202-366-4820. Again, please be advised that we cannot confirm that this is the case that you have specifically requested nor can we certify the information to be correct.

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DYNAMIC SCIENCE, INC. In-Depth Accident Investigation

Contract DTNH22-94-D-27058 Case DSI-95-AB-031

1995

This research was supported by the National Highway Traffic Safety Administration (NHTSA), U.S. Department of Transportation, under contract number DTNH22-94-D-27058. The opinions, findings, and conclusions expressed in this publication are those of the authors and not necessarily those of the NHTSA.

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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 be 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.

DYNAMIC SCIENCE, INC. ACCIDENT INVESTIGATION CASE NUMBER: DSI-95-AB-031

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TECHNICAL SUMMARY

CONTRACTOR: CONTRACT NUMBER: Dynamic Science, Inc. DTNH22-94-D-27058

CASE NUMBER:

Case DSI-94-AB-031



ACCIDENT EVENTS

This collision occurred at 1330 hours on 1995 in the county of Arizona. The asphalt roadway was dry and free of defects. The weather was cloudy.

Vehicle 1, a 1995 Hyundai Elantra driven by a 21-year-old male, was traveling eastbound on a four-lane, divided interstate roadway at a police estimated speed of 121 KPH (75 MPH). Vehicle 2, a 1990 Ford Taurus driven by a 43-year-old male, was traveling eastbound in the same lane and in front of Vehicle 1 at a police estimated speed of 105 KPH (65 MPH). As Vehicle 1 closed with Vehicle 2 it appears that the driver braked and steered to the left. The right front corner of Vehicle 1 struck the left rear bumper corner of Vehicle 2. There was minimal crush on Vehicle 1(and most of this was above the bumper through the softer sheet metal). The driver's side air bag did not deploy. The missing vehicle algorithm was run and yielded a longitudinal speed change of -14 KPH (-9 MPH) for Vehicle 1 and speed change of 12 KPH (8 MPH) for Vehicle 2. Vehicle 1 began a clockwise rotation, crossed the adjacent travel lane, and came to rest, facing southeast, on the dirt-covered median. Vehicle 2 began to rotate, crossed the adjacent travel lane, and came to rest, facing northwest, on the median.

According to the police, neither party was injured. Both parties were wearing their lap and shoulder belts. Both vehicles were towed from the scene due to damage.

Case Number: DSI-95-AB-031

Towed, due to damage

VEHICLES

Tow Status:

Vehicle 2 Vehicle 1 1995 Hyundai Elantra 1990 Ford Taurus GL **Description:** 4DR sedan 4DR sedan **Odometer:** 13,031 km (8,097 mi) Unknown 3.0L EFI / V6 1.6L EFI **Engine:** Unknown **Vehicle Modifications:** None **Tire Condition:** Good Unknown Manual lap and Manual lap and shoulder **Manual Restraints:** shoulder **Automatic Restraints:** Supplemental Restraint Supplemental Restraint System (driver's air System (driver's air bag) bag) None None **Reported Defects:** Unknown None noted Cargo: Slight crack near base Unknown Windshield Damage: of right-hand A-pillar. None Fleet: None

Towed, due to damage

Case Number: DSI-95-AB-031

VEHICLE DAMAGE

VEHICLE 1 VEHICLE 2

Object Struck: Vehicle 2 Vehicle 1

Event Number: 01

CDC: 12FREE3 Unknown

Maximum Crush: 14.0 cm (5.69 in.) Unknown

VEHICLE VELOCITY ESTIMATES

VEHICLE 1 VEHICLE 2

Impact Speed: 121 KPH (75 MPH) · 105 KPH (65 MPH), based (estimated) on driver's statement that

the speed control had been

set.

Total Delta V: 14 KPH (9 MPH) 12 KPH (8 MPH)

Longitudinal Delta V: -14 KPH (-9 MPH) 12 KPH (8 MPH)

Lateral Delta V: -1 KPH (-1 MPH) -1 KPH (-1 MPH)

Energy Dissipation: 9,231.5 NT-M 13,191.8 NT-M

(6,809.5 FT-LBS) (9,730.4 FT-LBS)

Case Number: DSI-95-AB-031

SUPPLEMENTAL RESTRAINT SYSTEM / EVALUATION

Vehicle 1 was equipped with a supplemental restraint system (driver's air bag) that did not deploy during this collision. The restraint system self test was initiated by engaging the ignition. A total of four flashes were counted prior to the light going off. According to Hyundai service personnel, this is the normal operating mode.

The calculated longitudinal velocity change was not of sufficient magnitude as to deploy the air bag.

PHOTO INDEX

PHOTO NO.	VEHICLE NO.	DIRECTION OF PICTURE	SUBJECT MATTER
1-18	1	CW	Exterior views of Vehicle 1.
19-26	1	· NA	Interior views of Vehicle 1.
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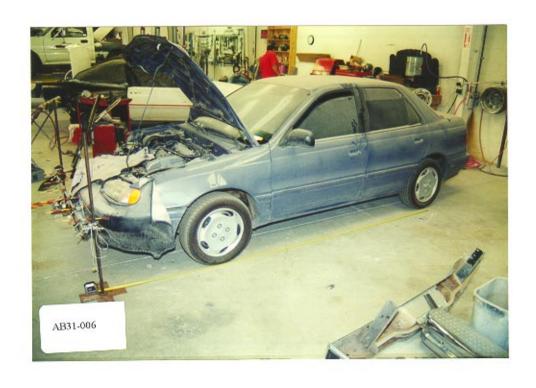




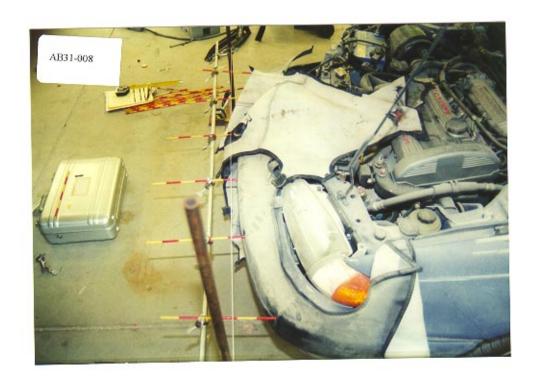


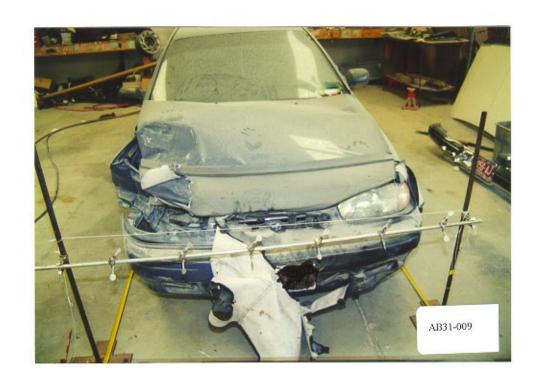


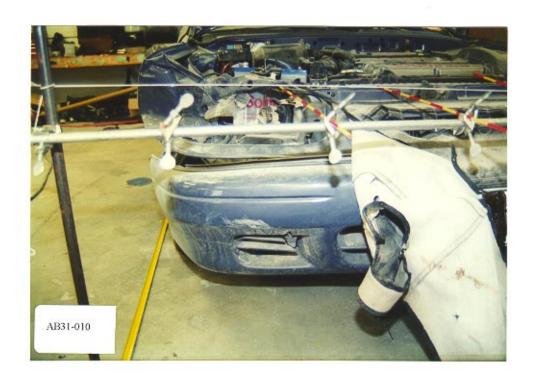


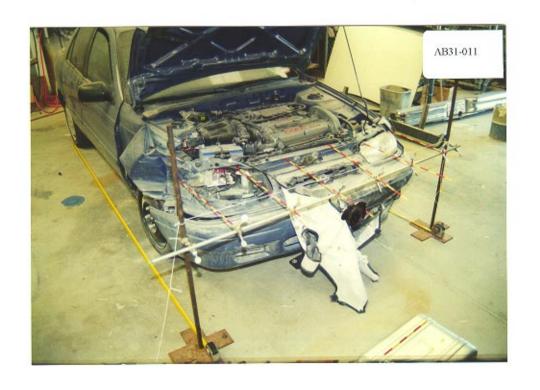


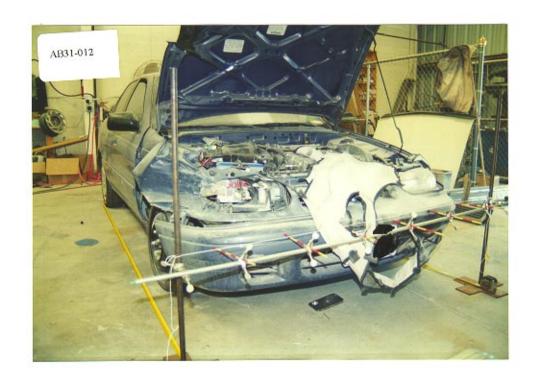








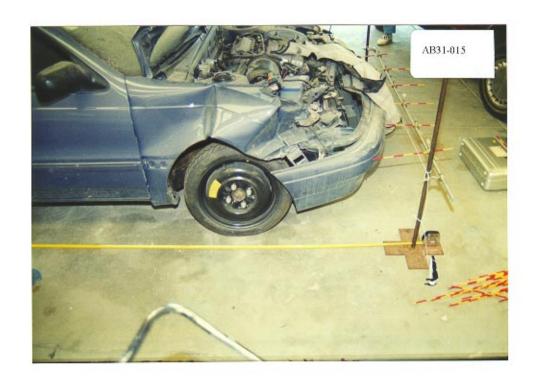


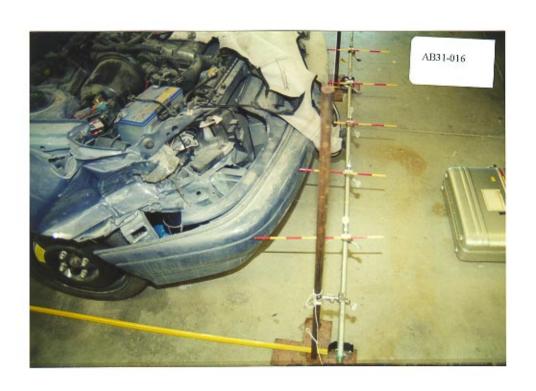


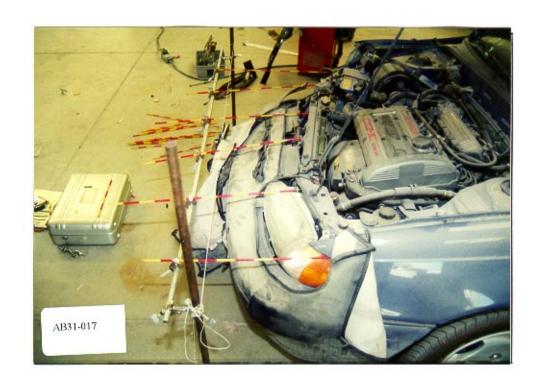
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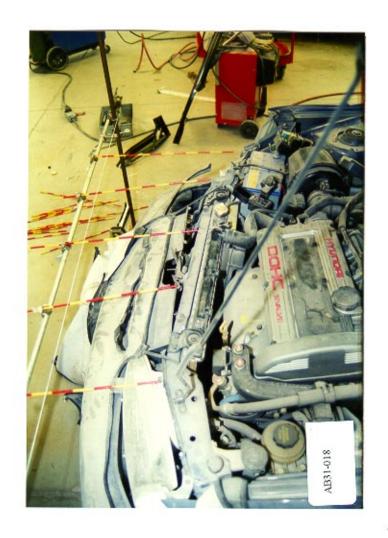


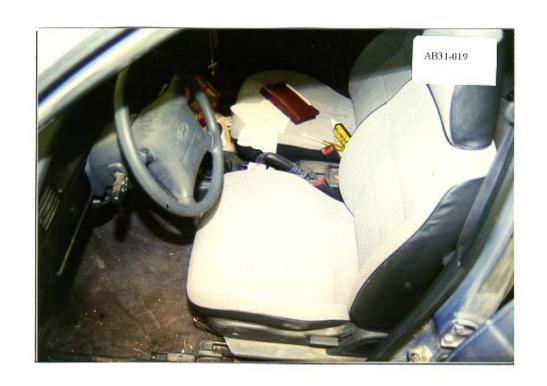




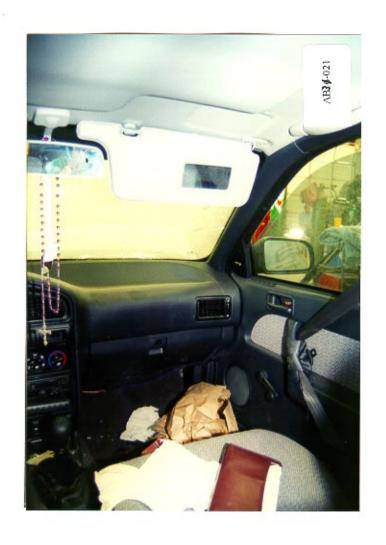






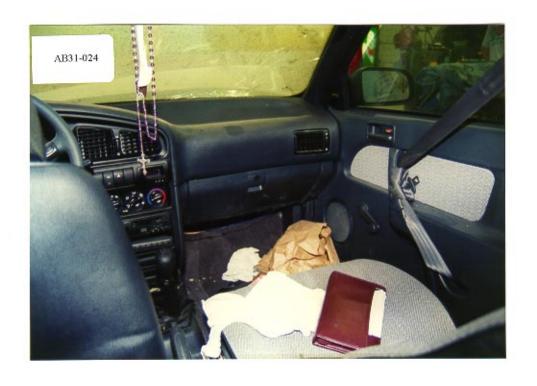




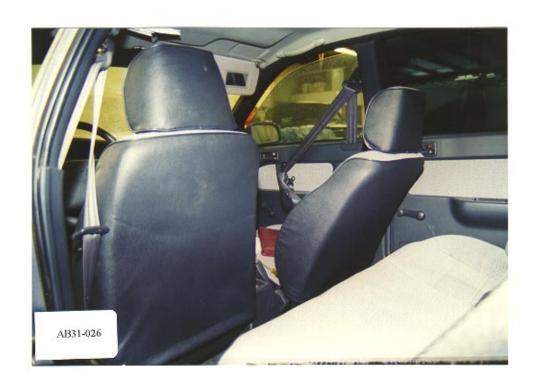














U.S. Department of Transportation National Highway Traffic Safety

EXTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

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VEHICLE DAMAGE SKETCH

TIRE-WHEEL DAMAGE a. Rotation physically b. Tire restricted deflated

RF

(1) Yes (2) No (8) NA (9) Unk.

TYPE OF TRANSMISSION ☐ Manual □ Automatic END SHIFT ≥ 10 CM ☑ No

☐ Yes

ORIGINAL SPECIFICATIONS

250 Wheelbase cm 439 Overall Length cm 169 Maximum Width cm 1122 Curb Weight kg 143 Average Track cm 90 Front Overhang cm Rear Overhang cm Undeformed End Width (51) 145 cm Engine Size: cyl./displ. L

WHEEL STEER ANGLES (For locked front wheels or displaced rear axles only)

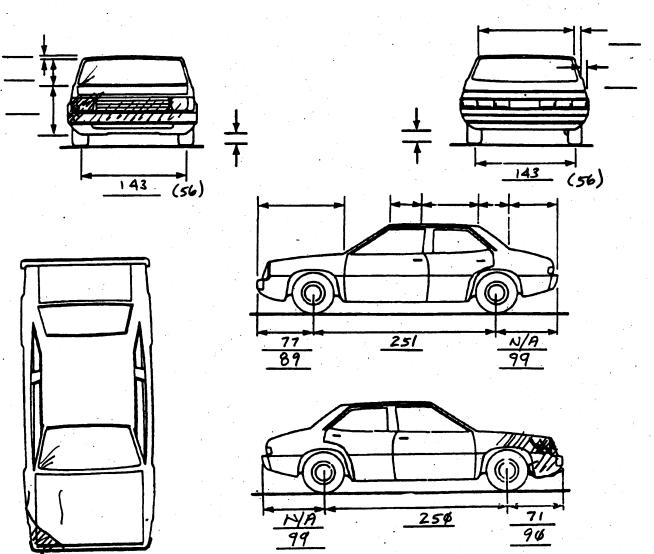
RF LF RR Within ± 5 degrees

DRIVE WHEELS

FWD RWD 4WD

Approximate NONE Cargo Weight VISIBLE kg

MEASUREMENTS IN CENTIMETERS



NOTES: Statch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful infreconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewalls, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page. MAX CRUSH

Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

CDC WORKSHEET

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	Rollover - en				61) Ground				
(33)	Fire or explos	sion		()	62) Fire hyd	drant			
	Jackknife	•			63) Curb				
(35)	Other intraur	nit damage (spec	cify):		64) Bridge				
					68) Other f	ived chiect	l-nasifid.		
(36)	Noncollision	iniury		T.		ixed object	(Specify).		
(38)	Other noncol	llision (specify):		11	CON Hakney	or floor dash!			
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~ #*-*-	****** pmg	- · ·		(7	70) Passeng	ger car, light	t truck, van,	or other	
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(42)	Tree (> 10 c	m in diameter)		(7	72) Pedestr	ian		· ··· ·· ·····························	
(43)	Shrubbery or	bush			73) Cyclist				
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يزي مه		• • •			76) Animal	•	· ·		
Nonbrea	akaway Pole o	or Post		(7	77) Train				
(50)	Pole or post (≤ 10 cm in diar	meter)	(7	78) Trailer,	disconnecte	d in transpo	rt	
(51)	Pole or post (> 10 cm but ≤	30 cm in	(7	79) Object f	ell from veh	icle in-trans	nort	
	diameter)			is	38) Other no	on ito to.	ot lengeiful	port	
(52)	Pole or post (> 20 am in dia-			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ullived oplo	icr (shacith)		
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(53) (54) (55) (56) Accident Event Sequence Number	Pole or post (Concrete traff Impact attenu Other traffic t (specify): Object Contacted	diameter unknown diameter unknown discourse di	guardrail) TION CLASS Incremental Value of Shift	(9 SIFICATION E (3) Deformation Location	OS) Other exemples of Lateral Location	vent (specify n event or of UMBER (5) Specific Vertical or Lateral Location	(6) Type of Damage Distribution	Deformation Extent	

National Accident Sampling System-Crashworthiness Data System: Exterior Vehicle Form COLLISION DEFORMATION CLASSIFICATION HIGHEST DELTA "V" Accident (4) (5) (6) Event (1) (2) (3) Longitudinal Vertical or Type of (7) Sequence Object Direction Deformation or Lateral Lateral Damage Deformation Number Contacted of Force Location Location Location Distribution Extent 4. <u>\$\psi\$ 1</u> 5. <u>\$\psi\$ 2</u> 6. <u>\$\lambda\$ 2</u> 7. <u>F</u> 8. <u>R</u> 9. <u>E</u> 10. <u>E</u> 11. <u>\$\psi\$ 3</u> Second Highest Delta "V" 12.____ 13.___ 14.___ 15.___ 16.__ 17.__ 18.__ 19.___ CRUSH PROFILE IN CENTIMETERS The crush profile for the damage described in the CDC(s) above should be documented in the appropriate space below. (ALL MEASUREMENTS ARE IN CENTIMETERS.) HIGHEST DELTA "V" 20. 21. C₃ C₂ ±D Second Highest Delta "V" 23. 24. 25. C₂ C₃ C₄ 26. Undeformed End Width 28. Original Wheelbase (Coded when highest severity 145 ____ Code to the nearest 25 B impact is an end plane impact.) centimeter Code to the nearest centimeter (650) 650 centimeters or more (250) 250 centimeters or more (999) Unknown (998) No highest severity end plane impact ____. __inches X 2.54 = ___ _ centimeters (999) Unknown

02B

27. Direct Damage Width

(999) Unknown

(For highest severity impact)

(250) 250 centimeters or more

Code to the nearest centimeter

29. Original Average Track Width

centimter

(999) Unknown

Code to the nearest

(185) 185 centimeters or more

___ _ . __ inches X 2.54 = ___ centimeters

			FUEL SYSTEM
់ 30	. Are CDCs Documented	4	35. Location of Fuel Tank-1 Filler Cap 4
	but Not Coded on The		
İ	Automated File? (0) No		36. Location of Fuel Tank-2 Filler Cap (0) No fuel tank
1	(1) Yes		(1) On back plane
			(2) Aft of center of the rear wheels (rear axle)
٠ ا			on left side plane
31	. Researcher's Assessment of Vehicle	1	(3) Aft of center of the rear wheels (rear axle)
	Disposition		on right side plane (4) Forward of center of the rear wheels (rear
	(0) Not towed due to vehicle damage		axle) on left side plane
	(1) Towed due to vehicle damage	•	(5) Forward of center of the rear wheels (rear
	(9) Unknown		axle) on right side plane
			(6) Over the center of the rear wheels (rear
32.	Is This A Multi-Stage Manufactured Vehicle	4	axle) on left side plane (7) Over the center of the rear wheels (rear
	And/Or A Certified Altered Vehicle?		axle) on right side plane
	(0) No post manufacturer modifications		(8) Other (specify):
	(1) Yes - post manufacturer modifications		(9) Unknown
	(specify):		37. Type of Fuel Tank-1
		,	
	(Include photograph of CERTIFICATION)		38. Type of Fuel Tank-2
	(Include photograph of CERTIFICATION PLACARD in case report)		(0) No fuel tank (electrical vehicle) (1) Metallic
	(9) Unknown if vehicle is modified	1	(2) Non-metallic
	to, common to mountain		(9) Unknown
	FIRE OCCURRENCE		39. Location of Fuel Tank-1
	FINE OCCURRENCE		40. Location of Fuel Tank-2
٤3.	Fire Occurrence	4	(0) No fuel tank
	(O) No fire		(1) Aft of center of the rear wheels (rear axle)
			centered
	Yes, fire occurred		(2) Aft of center of the rear wheels (rear axle)
	(1) Minor		left side (3) Aft of center of the rear wheels (rear axle)
	(2) Major	-	right side
	(9) Unknown		(4) Forward of center of the rear wheels (rear
			axle) centered
34.	Origin of Fire	4	(5) Forward of center of the rear wheels (rear axle) left side
	(O) No fire		(6) Forward of center of the rear wheels (rear
•	(1) Vehicle exterior (front, side, back, top)		axle) right side
	(2) Exhaust system		(7) Over center of the rear wheels (rear axle)
	(3) Fuel tank (and other fuel retention		(8) Other (specify):
	system parts)		(9) Unknown
	(4) Engine compartment (5) Cargo/trunk compartment		41. Damage to Fuel Tank-1
	(6) Instrument panel		
	(7) Passenger compartment area		42. Damage to Fuel Tank-2 Ø
	(8) Other location (specify):		(1) No damage to fuel tank
			(2) Deformed, no seam failure
	(9) Unknown		(3) Deformed, with a seam failure
		J	(4) Punctured
			(5) Lacerated (ripped) (6) Abraded (scraped)
		l	(7) Filler neck separation from the fuel tank
		l	(8) Other damage (specify):
		ļ	(9) Unknown
		Ì	
		į.	to the second of

43.	Leakage Location of Fuel System-1	1	47. Is This Vehicle Equipped With More Than Two Fuel Tanks?
	Leakage Location of Fuel System-2	4	(0) No (one or two tanks only)
	(O) No fuel tank		
	(1) No fuel leakage		Yes - More Than Two Tanks
			(1) Yes <u>no damage</u> to any tank or filler
	Primary Area Of Leakage		cap and <u>no fuel system leakage</u>
	(2) Tank		(2) Yes no damage to any tank or filler
	(3) Filler neck		cap but there is fuel system leakage
	(4) Cap		(specify leakage location):
	(5) Lines/pump/filter		
	(6) Vent/emission recovery		(3) Yes damage to an additional tank or
	8) Other (specify):	`	filler cap and there is fuel system leakage
1	(9) Unknown	,	(specify the following):
		·	Type of tank
45	· · · · · ·	ایرا	Tank location
45.	Fuel Type-1	$\frac{\phi}{}$	riller cap location
		ی من	i ank damage
46. I	Fuel Type-2	<u> </u>	Location of leakage
		1	Type of fuel
	Single Fuel Type		(9) Unknown if more than two tanks
	00) No fuel tank		
	01) Gasoline		
	02) Diesel		
(03) CNG (Compressed Natural Gas)		COMMENTS
(04) LPG (Liquid Petroleum Gas) also	1	
	known as Propane	·	
	05) LNG (Liquid Natural Gas)		
	06) Methanol (M100 or M85)		
	07) Ethanol (E100 or E85)		
(08) Other (Hydrogen or others) (specify):	· · · · · · · · · · · · · · · · · · ·	
٠, ٠			
	lectric Powered or Electric/Solar	ŀ	
	Powered Vehicles	-	
	10) Lead Acid Battery		
	11) Nickel-Iron Battery		•
	12) Nickel-Cadmium Battery		
	13) Sodium Metal Chloride Battery		
	14) Sodium Sulfur Battery		
(18) Other (Specify):		
٠.	200 000	1	•
(:	98) Other Hybrid (specify):	.]	
	20) University first sees		
(;	99) Unknown fuel type	1	

*** STOP: IF THE CDS APPLICABLE VEHICLE WAS NOT TOWED ***

(GV10=0)

DO NOT COMPLETE THE INTERIOR VEHICLE FORM.

INTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

National Highway Traffic Safety Administration

1. Primary Sampling Unit Number	GLAZING
	Type of Window/Windshield Glazing
2. Case Number - Stratum AB31	15. WS 1 16. LF 2 17. RF 2 18. LR 2 19. RR 2
3. Vehicle Number	20. BL Z 21. Roof Ø 22. Other Z
INTEGRITY	
•	(0) No glazing
4. Passenger Compartment Integrity 4	(1) AS-1 — Laminated
	(2) AS-2 — Tempered
(00) No integrity loss	(3) AS-3 — Tempered-tinted (original)
Man Janasin Min Lone Theorem	(4) AS-2 — Tempered-with after market tint
Yes, Integrity Was Lost Through	(5) AS-3 — Tempered-tinted (with additional after market tint)
(01) Windshield	(6) AS-14 — Glass/Plastic
(02) Door (side)	(7) Glazing removed prior to accident
(03) Door/hatch (back door)	(8) Other (specify):
(04) Roof	(0) Helenous
(05) Roof glass	(9) Unknown
(06) Side window	Window Precrash Glazing Status
(07) Rear window (backlight)	Trindow Frechasti Glazing Status
(08) Roof and roof glass	23. WS 1 24. LF 2 25. RF 2 26. LR 2 27. RR 2
(09) Windshield and door (side)	20. 110 - 24. 61 - 20. 111 - 20. 61 - 27. 111
(10) Windshield and roof	28. BL 2 29. Roof 4 30. Other 2
(11) Side and rear window (side window and backlight)	20. 82 - 25. 11001 - 00. 01.101
(12) Windshield and side window	(0) No glazing
(13) Door and side window	(1) Fixed
(98) Other combination of above (specify):	(2) Closed
	(3) Partially opened
(99) Unknown	(4) Fully opened
	(7) Glazing removed prior to accident
	(9) Unknown
Joor, Tailgate or Hatch Opening	Glazing Damage from Impact Forces
5. LF 1 6. RF 1 7. LR 1 8. RR 1 9. TG/H Ø	31. WS 2 32. LF 1 33. RF 1 34. LR 1 35. RR 1
(0) No door/gate/hatch	36. BL / 37. Roof <u>#</u> 38. Other
(1) Door/gate/hatch remained closed and operational	
(2) Door/gate/hatch came open during collision -	(0) No glazing
(3) Door/gate/hatch jammed shut	(1) No glazing damage from impact forces
(8) Other (specify):	(2) Glazing in place and cracked from impact forces
	(3) Glazing in place and holed from impact forces
(9) Unknown	(4) Glazing out-of-place (cracked or not) and not holed from
	impact forces
	(5) Glazing out-of-place and holed from impact forces
	(6) Glazing disintegrated from impact forces
Damage/Failure Associated with Door, Tailgate or Hatch	(7) Glazing removed prior to accident
Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø	(9) Unknown if damaged
	Clarica Damasa from Convent Contact
10. LF <u>Ø</u> 11. RF <u>Ø</u> 12 LR <u>Ø</u> 13. RR <u>Ø</u> 14. TG/H <u>Ø</u>	Glazing Damage from Occupant Contact
	39. WS 40. LF 41. RF 42. LR 43. RR 1
(0) No door/gate/hatch or door not opened	39. VV3 40. LF 41. NF 42. LN 40. NN
	44. BL 45. Roof \$\Phi\$ 46. Other \(\frac{1}{2} \)
Door, Tailgate or Hatch Came Open During Collision	44. BE 45. 11001 7 40. Othor
(1) Door operational (no damage)	(0) No glazing
(2) Latch/striker failure due to damage	(1) No occupant contact to glazing
(3) Hinge failure due to damage	(2) Glazing contacted by occupant but no glazing damage
(4) Door structure failure due to damage	(3) Glazing in place and cracked by occupant contact
(5) Door support (i.e., pillar, sill, roof side rail,	(4) Glazing in place and holed by occupant contact
etc.) failure due to damage	(5) Glazing out-of-place (cracked or not) by occupant
(6) Latch/striker and hinge failure due to damage	contact and not holed by occupant contact
(8) Other failure (specify):	(6) Glazing out-of-place by occupant contact and holed by
:	occupant contact
(9) Unknown	(7) Glazing removed prior to accident
	(8) Glazing disintegrated by occupant contact
	(9) Unknown if contacted by occupant

INTRUSION WORKSHEET Note: Sketch intruded areas Longitudinal Row Width (cm) Longitudinal LOCATION (All Measurements Are In Centimeters) **DOMINANT INTRUDED COMPARISON INTRUDED** INTRUSION CRUSH OF **DIRECTION INTRUSION COMPONENT VALUE VALUE** = --

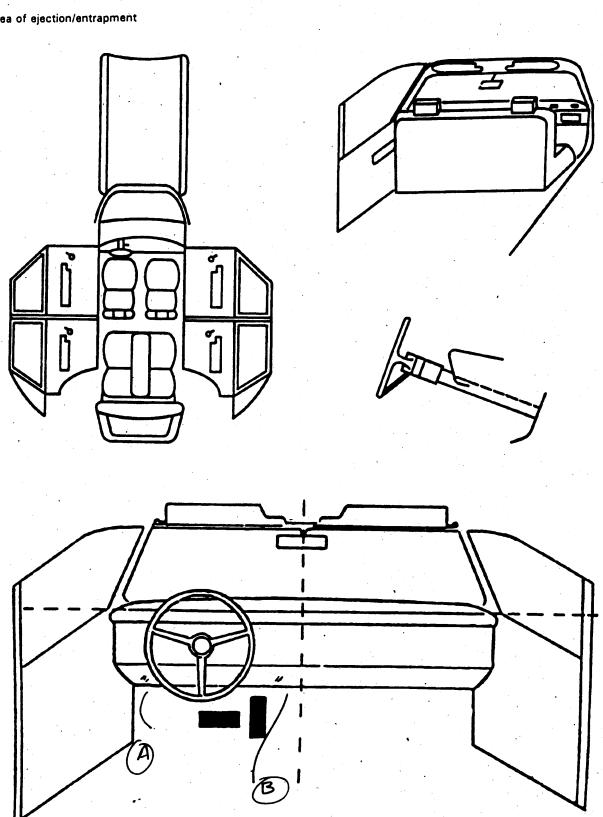
	l acceion of				
`	Location of :	Intruding Component	Magnitude of Intrusion	Dominant Crush Direction	Interior Components (01) Steering assembly (02) Instrument panel left
	intrusion	Component	or intrusion	Direction	(02) Instrument panel left (03) Instrument panel center
	,				(04) Instrument panel right
1et	47	48 ·	49.	50.	(05) Toe pan
130	~··—		_ ~	<u> </u>	(06) A (A1/A2)-pillar
				•	(07) B-pillar
				`	(08) C-pillar
2nd !	51	52	_ 53	54	(09) D-pillar
• .	e e				(10) Side panel - forward of the A1/A2-pillar
				* a	(11) Door panel (side) (12) Side panel - rear of the B-pillar
3rd !	55.	56	57.	58.	(13) Roof (or convertible top)
0.0	·				(14) Roof side rail
					(15) Windshield
•					(16) Windshield header
4th 5	59	60	_ 61	62	(17) Window frame
					(18) Floor pan (includes sill)
					(19) Backlight header
5th <i>f</i>	83	64	65	66	(20) Front seat back
J (·	UT		<u> </u>	(21) Second seat back
			•		(22) Third seat back
			*		(23) Fourth seat back
6th 6	57	68	69	70	(24) Fifth seat back (25) Seat cushion
				-:	(26) Back door/panel (e.g., tailgate)
					(27) Other interior component (specify):
7.L · -	74	72	70	74	(27) Other interior compensate (aposity).
/tn /	/ ' ·	/2	/3	/ 4	
					Exterior Components
					(30) Hood
8th 7	75	76	77	78	(31) Outside surface of this vehicle (specify):
					(00) Others described in the continuous
	4				(32) Other exterior object in the environment
0+h 7	70	80	81	82	(specify):(33) Unknown exterior object
5 (1) /	· s	80	- 61	°2.—	(97) Catastrophic
					(98) Intrusion of unlisted component(s)
					(specify):
Oth 8	33	84	85	86	(99) Unknown
CATI	ON OF INTRU	ISION			MAGNITUDE OF INTRUSION
, , , , , ,	CIT OF HTIM			[(1) ≥ 3 centimeters but < 8 centimeters
Front	Seat	Fourth S	Seat	- 1	(2) ≥ 8 centimeters but < 15 centimeters
(11) Left	(41)			(3) ≥ 15 centimeters but < 30 centimeters
	2) Middle		Middle		(4) ≥ 30 centimeters but < 46 centimeters
(13	3) Right	(43)	Hight		(5) ≥ 46 centimeters but < 61 centimeters
Saca.	nd Seat	(97)	Catastrophi	.	(6) ≥ 61 centimeters
) Left		Other enclo		(7) Catastrophic
	Middle		area (specif		(9) Unknown
) Right	••			
	_	(99) i	Unknown		DOMINANT CRUSH DIRECTION
Third					(1) Vertical
) Left !) Middle	*		Ĭ	(2) Longitudinal
) Right				(3) Lateral
,00	,				(7) Catastrophic (9) Unknown

	(All Measurer	nents Are in Centime	ters)		•
COMPARISON VALUE	– DAI	MAGE VALUE	=	DEFORMATIO)N
	-		<i></i>		
	. -		=		
			=		
	/		=		•
	•				

STEERING COLUMN	INSTRUMENT PANEL
7. Steering Column Type2	92. Odometer Reading Ø / 3 ,000
(1) Fixed column	
(2) Tilt column	kilometers
(3) Telescoping column	Code to the nearest 1,000 kilometers
(4) Tilt and telescoping column	(000) No odometer
(8) Other column type (specify):	(001) Less than 1,500 kilometers
	(500) 499,500 kilometers or more
(9) Unknown	(999) Unknown
99 Tilt Steering Column Adjustment	Source: VEH. INSPECTION
88. Tilt Steering Column Adjustment 2 (0) No tilt steering column	
(1) Full up	93. Instrument Panel Damage from
(2) Between full up and center	Occupant Contact?
(3) Center	(O) No
(4) Between center and full down	(1) Yes
(5) Full down	(9) Unknown
(9) Unknown	OA Tura of Kasa Balatas Caussian
(5)	94. Type of Knee Bolster Covering (0) No knee bolster
	(1) Padded
89. Telescoping Steering Column Adjustment ϕ	(2) Rigid plastic
(0) No telescoping steering column	(8) Other (specify):
(1) Full back	(9) Unknown
(2) Between full back and midpoint	(o) onknown
(3) Midpoint	95. Knee Bolsters Deformed from
(4) Between midpoint and full forward	Occupant Contact?
(5) Full forward	(0) No knee bolster
(9) Unknown	(1) No deformation
	(2) Yes - deformation
	(9) Unknown
90. Steering Rim/Spoke Deformation ϕ	
Code actual measured	96. Did Glove Compartment Door Open
deformation to the nearest centimeter	During Collision(s)?
(00) No steering rim deformation	(O) No glove compartment door
(01-14) Actual measured value in centimeters	(1) No - door did not open
(15) 15 centimeters or more	(2) Yes - door opened (9) Unknown
(98) Observed deformation cannot be measured (99) Unknown	(9) Onknown
(99) Onknown	97. Adaptive (Assistive) Driving Equipment
	(0) No adaptive driving equipment
91. Location of Steering Rim/Spoke	(1) Adaptive driving equipment installed
Deformation	(Check all that apply.)
(00) No steering rim deformation	[] Hand controls for braking/acceleration
	[] Steering control devices (attached to OEM
Quarter Sections	steering wheel
(01) Section A	[] Steering knob attached to steering wheel
(02) Section B	[] Low effort power steering (unit or device)
(03) Section C	[] Replacement steering wheel (i.e., reduced diameter)
(O4) Section D	Joy-stick steering controls
Half Sections	[] Wheelchair tie-downs
(05) Upper half of rim/spoke	[] Modification to seat belts (specify):
(06) Lower half of rim/spoke	()aminanian to again page labouriti
(07) Left half of rim/spoke	[] Additional or relocated switches (specify):
(08) Right half of rim/spoke	S
(55, 118, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15	[] Raised roof
(09) Complete steering wheel collapse	[] Wall-mounted head rest (used behind
(10) Undetermined location	wheelchair)
(99) 'Unknown	[] Other adaptive device (specify):
	(9) Unknown
	(9) Unknown

VEHICLE INTERIOR SKETCHES

Note area of ejection/entrapment



Sketch windshield contact(s) and the damaged area(s) on the instrument panel outline (e.g., radio, glove compartment, damage to instrument panel structure.

Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.

Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

If a Child safety seat is present, encode the data on the back of this page.

IN DOOK

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page.

****		Left	Center	Right
	Availability	4		4
F	Evidence of usage	44		44
	Used in this crash?	1		No
R	Proper Use	1		NA
'т	Failure Modes	1		Q
	Anchorage Adjustment	3		
	Availability	4	3	4
S	Evidence of usage	44	40	Q.4
Ě	Used in this crash?	NO	No	NU
lö	Proper Use	NA	NA	N4
 0Z00E0	Failure Modes	4	4	d
U	Anchorage Adjustment			
	Availability			
' o	Evidence of usage			
Ť	Used in this crash?			
변	Proper Use			
l E R	Failure Modes			
	Anchorage Adjustment			

Manual	(Active)	Ralt	System	Availability

- (0) None available
- (1) Beit removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available type unknown

Integral Belt Partially Destroyed

- (6) Shoulder belt (lap belt destroyed/removed)
- (7) Lap belt (shoulder belt destroyed/removed)
- (8) Other belt (specify):
- (9) Unknown

Manual (Active) Belt System Use

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperable (specify):
- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used type unknown
- (08) Other belt used (specify):
- (12) Shoulder belt used with child safety
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat type unknown
- (18) Other belt used with child safety seat (specify):
- (99) Unknown if belt used

Proper Use of Manual (Active) Belts

- (0) None used or not available
- (1) Belt used properly
- (2) Belt used properly with child safety seat

Belt Used Improperly

- (3) Shoulder belt worn under arm
- (4) Shoulder belt worn behind back or seat
- (5) Belt worn around more than one person
- (6) Lap belt worn on abdomen
- (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):
- (8) Other improper use of manual belt system (specify):
- (9) Unknown

Shoulder Belt Upper Anchorage Adjustment

- (0) No shoulder belt
- (1) No upper anchorage adjustment for shoulder belt

Adjustable shoulder Belt Upper Anchorage

- (2) In full up position
- (3) In mid position
- (4) In full down position
- (5) Position unknown
- (9) Unknown if position has adjustable upper anchorage adjustment

Manual (Active) Belt Failure Modes During Accident

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated
- (specify): _____(6) Broken retractor
- (7) Combination of above (specify):
- (8) Other manual belt failure (specify):
- (9) Unknown

$\alpha : i = 0$	***	RESTR	
			1 1 1

NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

AIR BAGS

			•	
		Left Front	Right Front	Other
F R S T	Availability/Function	l		
	Deployment	7		
	Failure	7		

Air Bag System Availability/Function

- (0) Not equipped/not available
- (1) Air bag

Non-functional

- (2) Air bag disconnected (specify):
- (3) Air bag not reinstalled
- (9) Unknown

Are There Indications of Air Bag System Failure? (This Occupant Position)

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (9) Unknown

Frontal Air Bag System Deployment (This Occupant Position)

- (0) Not equipped/not available
- (1) Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, accident sequence undetermined
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- (9) Unknown

Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position)

- (0) Not equipped with an "other" air bag
- (1) Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, details unknown
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- (9) Unknown

AUTOMATIC BELTS

		Left	Right
F I R S T	Availability/Function		
	Use		
	Туре		
	Proper Use		
	Failure Modes	-	

Automatic (Passive) Belt System Availability/Function

- (0) Not equipped/not available
- (1) 2 point automatic belts
- (2) 3 point automatic belts
- (3) Automatic belts type unknown

Non-functional

- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

Automatic (Passive) Belt System Use

- (0) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown--
- (9) Unknown

Automatic (Passive) Belt System Type

- (0) Not equipped/not available
 - (1) Non-motorized system
 - (2) Motorized system
 - (9) · Unknown

Proper Use of Automatic (Passive) Belt System

- (0) Not equipped/not available/not used
- (1) Automatic belt used properly
- (2) Automatic belt used properly with child safety seat

Automatic Belt Used Improperly

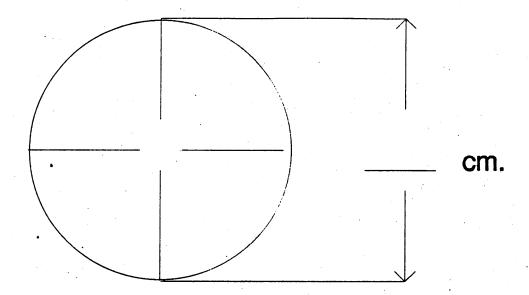
- (3) Automatic shoulder belt worn under
- (4) Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify):
- (8) Other improper use of automatic belt system (specify):
- (S) Unknown

Automatic (Passive) Belt Failure Modes During Accident

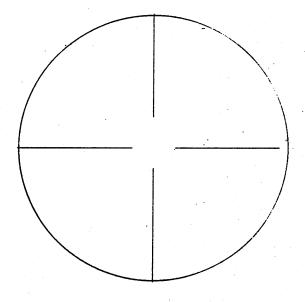
- (0) Not equipped/not available/not in use
- (1) No automatic belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other automatic belt failure (specify):
- (9) Unknown

DRIVER AIR BAG DAMAGE AND CONTACT SKETCHES

, SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Front)

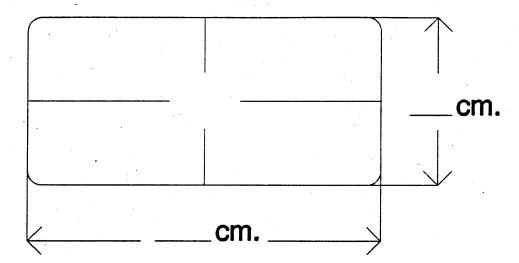


SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Back)

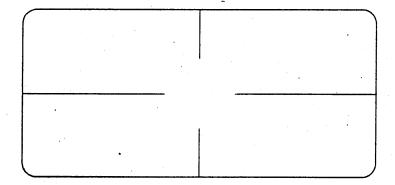


PASSENGER AIR BAG DAMAGE AND CONTACT SKETCHES

. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Front)



. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Back)



"OTHER" AIR BAG DAMAGE AND CONTACT SKETCHES

: SKETCH DAMA	GE AND CONTACT	T EVIDENCE ON "OTHER	" AIR BAG (Front)		
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HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
	Head Restraint Type/Damage	3	. /	3
E .	Seat Type	ΦZ		02
-	Seat Performance	1		l .
R	Seat Orientation	١		1
Τ, ,	Seat Track Position	5		_
·	Seat Back Incline Pre/Post Impact	9 - MOVED		
	Head Restraint Type/Damage			
S	Seat Type			
E	Seat Performance			
00	Seat Orientation			
N D	Seat Track Position			
	Seat Back Incline Pre/Post Impact			
	Head Restraint Type/Damage			
т	Seat Type			
H	Seat Performance			
R	Seat Orientation			
D	Seat Track Position	/ 1		
	Seat Back Incline Pre/Post Impact			
	Head Restraint Type/Damage			
<u>o</u>	Seat Type			
H	Seat Performance			
E R	Seat Orientation			
	Seat Track Position			
	Seat Back Incline Pre/Post Impact		1	

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

HEAD RESTRAINTS/SEAT EVALUATION

Head Restraint Type/Damage by Seat Performance (this Occupant Occupant at This Occupant Position Position) Impact (0) Occupant not seated or no seat (0) No head restraints (1) Integral — no damage(2) Integral — damaged during No seat performance failure(s) Seat adjusters failed (3) Seat back folding locks or "seat accident Adjustable — no damage Adjustable — damaged during back" failed (specify): position accident (4) Seat tracks/anchors failed position (5) Add-on — no damage(6) Add-on — damaged during Deformed by impact of occupant Deformed by passenger position accident compartment intrusion (14)(specify): Other (15)Specify): Combination of above (specify): position (9) Unknown (8) Other (specify): position (9) Unknown position Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket Seat Orientation (this Occupant position (02) Bucket with folding back Position) (22)(03) Bench (0) Occupant not seated or no seat position (1) Forward facing seat (04) Bench with separate back (23)(2) Rear facing seat cushions (24)Side facing seat (inward) (05) Bench with folding back(s) (3) (25)(06)Split bench with separate (4) Side facing seat (outward) position (8) Other (specify): back cushions (07) Split bench with folding

Seat Track Adjusted Position Prior To

- (0) Occupant not seated or no seat
- (1) Non-adjustable seat track

Adjustable Seat Track

- (2) Seat at forward most track position (35) (3) Seat between forward most and
- middle track positions
- (4) Seat at middle track position
- (5) Seat between middle and rear most track positions
- Seat at rear most track position
- (9) Unknown

(9) Unknown

Seat Back Incline Prior and Post

- (00) Occupant not seated or no seat
- (01) Not adjustable

Upright prior to impact

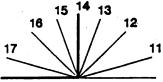
- (11) Moved to completely rearward
- Moved to rearward midrange
- Moved to slightly rearward
- Retained pre-impact position
- Moved to slightly forward
- Moved to forward midrange
- Moved to completely forward

Slightly reclined prior to impact

- (21) Moved to completely rearward
- Moved to rearward midrange
- Retained pre-impact postion
- Moved to upright position
- Moved to slightly forward
- (26)Moved to forward midrange position
- (27)Moved to completely forward position

Completely reclined prior to impact

- Retained pre-impact position
- (32)Moved to rearward midrange position
- (33)Moved to slightly rearward position
- Moved to upright position
- Moved to slightly forward position
- Moved to forward midrange position
- Moved to completely forward position
- (99) Unknown



back(s)

type)

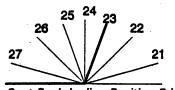
(99) Unknown

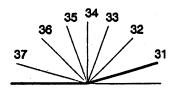
supported)

(08) Pedestal (i.e., column

(09) Other seat type (specify):

(10) Box mounted seat (i.e., van





Coding diagrams for Seat Back Incline Position Prior and Post Impact

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

EJECTION/ENTRAPMENT DATA

EDD TOTAL MENT OATA	
Complete the following if the researcher has any indication that an occupant was either e in the vehicle. Code the appropriate data on the Occupant Assessment Form.	jected from or entrapped
EJECTION No [Y Yes [] Describe indications of ejection and body parts involved in partial ejection(s):	

Occupant Number	,			
Ejection				
(Note on Vehicle Interior Sketch) Ejection Area		·		
Ejection Medium				
Medium Status				

Ejection

- (1) Complete ejection
- (2) Partial ejection
- (3) Ejection, Unknown degree
- (9) Unknown

Ejection Area

- (1) Windshield
- (2) Left front
- (3) Right front
- (4) Left rear
- (5) Right rear
- (6) Rear

- (7) Roof
- (8) Other area (e.g., back of pickup, etc.) (specify):
- (9) Unknown

Ejection Medium

- (1) Door/hatch/tailgate
- (2) Nonfixed roof structure
- (3) Fixed glazing
- (4) Nonfixed glazing (specify):

- (5) Integral structure
- (8) Other medium (specify):
- (9) Unknown

Medium Status (Immediately Prior to Impact)

- (1) Open
- (2) Closed
- (3) Integral structure
- (9) Unknown

ENTRAPMENT Describe entrapme	No [V Yes [1			
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			· · · · · · · · · · · · · · · · · · ·		
Component(s):				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
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Note in vehicle int	terior diagram)			"	



U.S. Department of Transportation.

OLDMISS PROGRAM SUMMARY

National Highway Traffic Safety

(All Measurements in Metric)

NATIONAL ACCIDENT SAMPLING SYSTEM

	Administration					CRASHWORTHIN	ESS DATA SYSTEM
	Identifying Title						
1.		AB 3 1		1.1			95
	Primary	Case NoStratum		ccident Event	Date (Mon	nth, day, year) of	
	Sampling Unit			Sequence No.		,, , , , , , , , , , , , , , , ,	
	OLDMISS Vehicle Id	lentification					
	Vahiala 1	1995	HYUND	17	ELANTRA	, 1	,
	Vehicle 1		7770742	<u> </u>			
	Vehicle 2	1990	FORI	<u> </u>	TAURV	5	
		Year	Make		Model	,	NASS Veh. No.
	,	6	ENERAL IN	IFORMATIO	ON		
					2		7.
_		VEHICLE 1			VEHIC	LE 2	
55	Size		2	Size		*	3
	Weight N 80Kg				~12 ×4		
	Weight	0 (1	, 1bs				/60
	2468 + 176 + Occupant(s)	$\frac{}{} = \frac{2}{6} \frac{6}{4}$	<u>4</u> kg	2954 + Curb 0	Ccupant(s) Cargo	_=_3_1_!	3 kg
					- Cargo		
	Damaged Area of Ve				rea of Vehicle		
	(F = Front, L = Let	ft, $R = Right$, $B = Ba$	ck)	(F = Front	, L = Left, R =	Right, $B = Ba$	ack)
	-	• .					•
	Vehicle 1				Vehicle 2	. •	
					Verificia 2	- V - 4	
	Vehicle Heading Ang	les At Impact, in Deg	rees	Vehicle Head	ding Angles At I	mpact, in Deg	rees
	355						
	+ Vehicle 1	· · · · · · · · · · · · · · · · · · ·	- · · · · · · · · · · · · · · · · · · ·	+	Vehicle 2		
					V 0.11010 2		
	Stiffness Category for	or Vehicle		Stiffness Ca	tegory for Vehic	le	
	2				-		
	Vehicle 1	- ·		_	Vehicle 2		. :
		-	A B 4 A O E . IN	FORMATIO			
			AWAGE IN	FORMATIO			10
	For Which Vehicle Is The Damage Known			Crush Measu	*	C ₁	<u> </u>
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		T 160)	•			C ₅	
		••	10			C ₆	5.67 em
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SUMMARY OF OLDMISPC RESULTS:

CASE NO. AB31 - IMPACT NO. 1 - HYUNDAI ELANTRA V. FORD TAURUS

SPEED CHANGE (DAMAGE)

	RESULTANT MPH (KPH)	LONGITUDINAL MPH (KPH)	LATERAL MPH (KPH)	PDOF DEG
(KNOWN) (ESTIMATED)	8.86 (14.25) 7.52 (12.10)	-8.82 (-14.20) 7.51 (12.09)	77 (-1.24) 39 (63)	5.00 177.00
	ENERGY FT-LBS (NT	'-M)	FORCE (NT)	
(KNOWN) (ESTIMATED)		31.5) 91.3)	19738.9 (87798 24178.6 (107546	

SUMMARY OF DAMAGE DATA

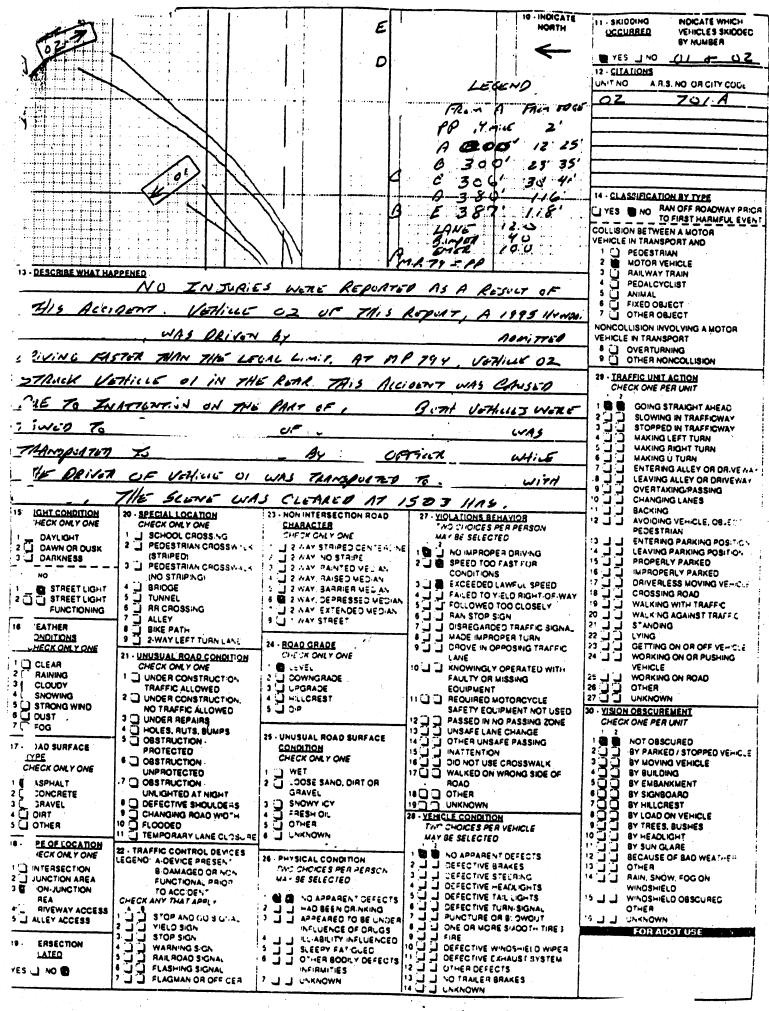
VI	EHICLE #1		VEI	IICLE #2	
(KNOWN DAMA	AGE DIMEN	SION)	(ESTIMATED	DAMAGE	DIMENSION)
* *	IN	(CM)	•	IN	(CM)
L	. 57.0	144.8	L	57.6	146.2
C1	.0	.0	C1	.0	.0
C2	1.0	2.5	C2	.0	.0
C3	1.0	2.5	C3	.0	.0
C4	2.0	5.0	C4	.0	
C5	3.1	7.9	C5	. 0	
C6	5.7	14.5	C6	2.1	5.3
D	23.0	58.4	D	-7.5	
			(DOFF ADJUST		2 INCHES
•			TO MATCH VE	HICLE D	IMENSION)

VEHICLE INFORMATION

AFHICTE AT	VEHICLE #2
(FRONT DAMAGE KNOWN)	(REAR DAMAGE UNKNOWN)
	•
SIZE 2	SIZE 3
STIFFNESS- 2	STIFFNESS- 3
SIDE F	SIDE B
HANGL 352.0 DEG	HANGLO DEG
WEIGHT 2644.0 LBS (1199.1 KG)	WEIGHT 3113.0 LBS (1411.8 KG)
MASS 6.843 LB-SEC**2/IN	MASS 8.056 LB-SEC**2/IN
(77.31 NT-SEC**2/CM)	(91.02 NT-SEC**2/CM)
RADIUS	RADIUS
GYRATION 2951.0 IN**2	GYRATION 3324.0 IN**2
(19038.7 CM**2)	(21445.1 CM**2)

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MP VICEL 82.0- 3.7(N) KHIMEST! Zacu(VI) sery - 17.9 W-4.8 s. 16 VILLE - 82.0- 4.7 " 11 VI- RR- 82.0 - 5.2 " 11 VI-RF)-820-6.3" O (East) -X. OVER VI- RF/ 12(12) - 82.0 6: egin Vz (LF/LR) Seppt. - L. OE - 1.6 N. Beam VI RR SCUTE - 9. 0 (ON S. Ed.//we - 8.0(50) MPYZ(RF) 82.0-9.0(N) 12 LE - 24.6 - 2.6 N. 10 V2 LR) - 24.6 -3.3 N. ELL 12(RF)-82.0-9,6(N) 50 Edglin (End.) -32.6 - 7.6 -0) 12 (R) - 32.6 - 3.4 N MP 11 (CR)-90.0 - 5.7 (W) 16 sound on C- 41.0 - 3.850) 11 VI-LE-90.0-6.3 -41,0 - 3.2 (N) VI- (RR) -90,0-7,2 1 V2 RF/RR (Sep. - 44.9 - 1.7 N) 1 V4 (L) - 44.9 - 3.1 N) 1 V1 (C) - 44.9 - 3.0 (SO) 11 VI (RE)- 90,0- 7,9 11 (VZ-(I) 90.0-9.5 " 3 cgun VI (Rom 62-51,3-3,8 50) 11 VZ -(R)-90,0-11,5 " no 12 RR - 51.3 - 1.6 N. " RF - 51,3 - 2,0 N. X'OVER YI-RR/LF-97.6-8.8 N 11 " LRI- 51,3 - 3,4 N, VI-13- 1-3 (50) End (F) VI - 99.0 - 9.3 (N. ppt-VIRELE 54.6 - .5 50) ENDRE)VI - 97.8 - 10,41 VI (RP- 54,6 - 3,1 50) 1. P V2 (RR) - 54.6 - 1.7 N. End(LE)4-100.4-7.4 N " " RE - 54,6 - 2,5 N. End (RR) VI - 101.1 - 8.5 N. 11 TE - 94,6-3,9 N 1 Mg. 82 - 101,1-11,8 N. PS 11 BF XS EL -55.9 - 0.0 V (LFXS RL-56,8 - 0.0 MP V2-(RF/LR)XOVERZ-101.1-13.3N 1 KR XS RL - 64.6 E - 0.0 mp 12-(F)- 107.8 - 12,7 (N) the bull the Beam 12 = LR-107.8 - 13.3 (1) /RF-V2/RR-X'OVER-64.6-2.6 V 100 VZ (R) 107,8-14.3 (N) \$ 12 RF - 64.6 - 4.2 Segin 12(RR)-109.1 _15.1/N) 11-4-64.6-5.4 en VILR on RL-66,8 E- O. Goull -120,5- 16,4 (N) MD V2-(F)-N VI TR - 66,8 - . 8 Ne. " X'OVER-LR/RF -120.5-17.6/N VI. (F) - 66.8-2.0' No 120.5 - 19.0 (N) VI-RE- 66.8 - 3. 4 N. MP-124 - 123.5 -18.5/N) Y2 RR - 66,8 - 3, & N. V2 RF - 66.8 - 4.6 N. X'OVER-LR/RF -123.5-19.8(N) 11 12-(RR - 123.5 - 21,3/N) Jud V2 LF- 66.8 - 5.8 N. EPG(FRP) Y2-(RR) - 131.0-30.0 (N) W VILLEY- 75.6 - 211 (H) 11_(LR)_131.9 - 30.9(N) JOHER VI- RRYLF-75.6- 3,5 N CONSER VI-RE/V2 RR - 75.6-4.9/D 11 - (RF _132,5-28,4.N) 0 2-RF 2 75.6- 6A W 11 -(LF - 133,8 - 29.9 N) 1 11 - IF - 75.6 - 7.6 K BEST AVAILABLE COPY

AutoNet Vehicle Data Sheet

AutoNet Vehicle Data Sheet

Hyundai 1995 Elantra

Step-Up Korean Subcompact
Hyundai added the subcompact Elantra to its product line for
model year 1992. Fitting between the company's subcompact Excel
and midsize Sonata sedans, the Elantra is built on a 98.4-inch
wheelbase and has an overall length of 171.6 inches.
Elantra uses a 1.6-liter, 16-valve four cylinder of 113-HP,
mated to a five-speed manual transmission. Optional is a larger,
1.8-liter, 16-valve 124-HP power plant that can be had with
either the five-speed manual or a four-speed automatic
transmission. The Elantra is available in GL and GLS trim
levels; the larger engine is standard on the GLS.
Hyundai gave the Elantra a slight facelift for model year 1994,
with a revised front end, including new headlamps, and
redesigned taillights. Overall, the effect was to add a bit more
roundness and detail design flair to the Elantra's conservative
exterio design. A driver's-side airbag was also introduced at
that time; antilock brakes are an option on the better-equipped
GLS version..
Minor color and trim changes mark the 1995 Elantra, as Hyundai
gears up to introduce an all-new version of this model in the
fall of this year as a new '96.
Hyundai Elantra buyers averaged about 36 years of age in 1994;
some thirty percent were younger than 30. Most Elantra drivers-over 60 percent--were women.

	Hyundai Elantra Base 4DR 5M SDN 40423A	Hyundai Elantra GLS 4DR 5M SDN 40443A
Prices and Standard Er Base Price Dealer Invoice Destination Charge Package Required Standard Engine Standard Trans.	ngine: \$ 10,199.00 \$ 9,207.00 \$ 405.00 No 1.6L I4 5 Speed Manual	\$ 11,599.00 \$ 10,234.00 \$ 405.00 No 1.8L I4 5 Speed Manual
Sales and Origin: Sales Volume Where Built Company Ctry	45056 Korea Korea	45056 Korea Korea
Exterior Dimensions & Curb Weight (MT/AT) Wt Dist Manual Wt Dist Auto Wheelbase Track (Fr/Rr) Length Width Height Top Type Opt	Weight: 2500/2628 NL 98.4 98.4 172.9 172.8 66.1 172.8 186.1 186.1 186.1 186.1 186.1 186.1 186.1 186.1 186.1 186.1 186.1 186.1	2582/2628 NL 98.4 56.9 172.8 66.1 52.0 HF NA
Capacity & Volume: Cargo Vol EPA Cargo Vol Mfr Fuel Capacity Tow Capac. (Std/Max) Seating (Std) Seating (Opt) EPA Class Pass. Vol (Mfr)		12 11.8 13.7 1000/1000 5 NA COMPACT 90
Interior Dimensions: Head Room (Fr/Rr) Leg Room (Fr/Rr) Shldr Room (Fr/Rr) Hip Room (Fr/Rr)	38.4/37.6 42.6/33.4 54.3/53.4 50.9/54.7	38.4/37.6 42.6/33.4 54.3/53.4 50.9/54.7
Engine Drv Brakes (Fr) Brakes (Rr)	Brakes: 33.8 FR FWD Disc Drum R&P Ind Ind	33.8 FR FWD Disc Drum R&P Ind Ind

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175/65R14
                                                                                                                       185/60R14
          Tires
   Warranty:
Basic Time (Mos)
Basic Miles
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   ENGINES:
                                                                                                       BorexStroke Compression
Transmission Turbo
Final Drive Fuel Ec.(cty/hwy)
                                  Displace. Valves
Fuel Sys Fuel
Horsepower Torque
    Engine
                                 1596/97 16 3.24x2.95 9.2
MPFI Gas 102 0 5000 4.59 22/29
1796/110 16 3.17x3.46 9.2
MPFI Gas 116 0 4500 4.59 21/28
1796/110 16 3.17x3.46 9.2
MPFI Gas 1796/110 16 3.17x3.46 9.2
MPFI Gas 1796/110 16 3.17x3.46 9.2
MPFI Gas 4500 4.50 4.50 22/29
   1.6L I4
   1.8L I4
   1.8L I4
   Customer Rebates and Incentives:
Year Amount Expires
1994 $1,000* 5/31/95
   Year Amount 1994 $1,000*
service for 2 years. 1995
                                                                                                                   Comments
*Buyer may choose an extra $250 rebate or free
                                                                              5/31/95
   STANDARD EQUIPMENT for Hyundai Elantra: [Applies to All unless otherwise noted] Feature [Applicability]
 COMFORT AND CONVENIENCE
Ashtrays, Front Illuminated & Dual Rear
Assist Grips, FR & RR (3)
Cigarette Lighter, Illuminated
Climate Controls, Rotary Type
Clock, Digital Quartz
Door Locks, Power
[GLS]
Heater Ducts, Rear Seat
Steering Wheel, Tilt
[GLS]
Windows, Power
[GLS]
 CUSTOMER ASSISTANCE/WARRANTY
Hyundai 24 Hour Roadside Assistance
Program, 36 Months/36,000 Miles
DECOR AND TRIM
Carpeting, Cargo Area Side Trim
[GLS]
Door Trim, Carpeted Kick Panels
[GLS]
Door Trim, Full W/Cloth Inserts
Seat Trim, Full Face Cloth
[BASE]
Seat Trim, Deluxe Full Cloth
[GLS]
Steering Wheel, Color Keyed 4 Spoke W/
Supplemental Drivers Side Air Bag
Grille, Bodycolor
[BASE]
Grille, Bodycolor With Charcoal Accent
[GLS]
Moldings, Bodycolor Bodyside W/Black
Accent
Accent
[BASE]
Moldings, Bodycolor Bodyside W/Bright
Accent
[GLS]
Moldings, Bright Side Window Accents
[GLS]
[GLS]
Moldings, Bodycolor Rocker Panel Molding
[GLS]
Tailpipe, Bright Trim
[GLS]
 DOORS
Door Handle, Bodycolor
 ENGINES
Engine, 1.6L I4 DOHC 16V
[BASE]
 Engine, 1.8L I4 DOHC 16V [GLS]
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EXTERIOR LIGHTING Headlamps, Aerodynamic Halogen

FLOOR COVERING
Carpeting, Cargo Area Floor
Carpeting, Cut Pile
[BASE]
Carpeting, Deluxe Cut Pile
[GLS]

GLASS AND MIRRORS
Defoggers, Front Side Windows
Defroster, Electric Rear Window
Mirrors, Passengers Visor Vanity
Glass, Tinted
Glass, Windshield Sunshade Band
Mirrors, Dual Remote Control Black
[BASE]
Mirrors, Dual Power Remote Control Body
Color

INSTRUMENTATION
Gauges, Tachometer
[GLS]
Gauges, Temperature & Trip Odometer
Warning Lights, Door Ajar, Trunk Open
Warning Lights, Low Fuel

INTERIOR LIGHTING
Door Trim, Front Courtesy Lamps
[GLS]
Illumination, Cargo Area
Illumination, Front Map Lights (2)
[GLS]
Illumination, Overhead Courtesy

MECHANICAL AND BODY
Battery, 12 Volt, Maintenance Free
Body Construction, Unitized
Front Wheel Drive
Fuel Injection, Electronic Multi Port
Bumpers, Bodycolor W/Charcoal Accent
[BASE]
Bumpers, Bodycolor W/Bright Accent
[GLS]
Alternator, 75 AMP
Electronic Distributionless Ignition

REMOTES AND RELEASES
Remote, Fuel Door & Hood Releases
Remote, Trunk Release

SAFETY
Door Locks, Rear Child Safety
Seat Belts, Color Keyed (5)
Seat Belts, Front 3 Point Passive,
Passengers Side
Seat Belts, Front 3 Point Non Passive
Drivers Side
Seat Belts, Rear 3 Point (2)
Seat Belts, Rear 2 Point, Center
Steering Wheel, Collapsible Steering
Column
Wipers, Front Variable Intermittent

SEATS Seats, Drivers 6 Way Adjustable [GLS] Seats, Front Reclining Buckets W/ Adjustable Headrests Seats, Rear, 60/40 Split Fold Down [GLS]

SOUND SYSTEM AND CLOCK Audio System, AM/FM ETR 40 Watt Stereo Cassette W/4 Speakers [GLS] Antenna, Fixed Mast

STEERING, BRAKING, TRACTION
Brakes, Front Ventilated Power Assisted
Discs
Brakes, Rear Self Adjusting Drums With
Wear Warning Sensor
Steering, Power Rack & Pinion

STORAGE
Coin Box
Console, Full Center W/Storage Box
Console, Full Center W/Covered Storage
Box
[GLS]
Cupholder, Dual

```
Door Trim, Front Map Pockets
[GLS]
Glove Box, Lockable
  SUSPENSION
Stabilizer Bars, FR & RR
Suspension, Front Independent MacPherson
Strut With Coil Springs
Suspension, Rear Independent 3-Link
Torsion Beam With Coil Springs and
Lateral Rod
Shock Absorbers, Oil/Hydropneumatic
Damping Front & Rear
[BASE]
Shock Absorbers, Gas Pressurized Oil
Filled Front & Rear
[GLS]
  TRANSMISSIONS
Transmission, 5 Speed Manual W OD
 WHEELS AND TIRES
Tires, SBRP175/65R14 With Full Wheel
Covers, 5.5JX14 Steel Wheels
[BASE]
Tires, SBRP185/60HR14 With Deluxe Full
Wheel Covers, 5.5JX14 Steel Wheels
[GLS]
  OPTIONAL EQUIPMENT for Hyundai Elantra: [Applies to All unless otherwise noted] ID Option/Package/[Applicability]
                                                                                                                                       MSRP/Invoice
 PEP OR PEG PACKAGES
02ABBase Package 2
BASE
ETR AM/FM Stereo Cassette W 4 Speakers
                                                                                                                                        $ 350/268
 03ACBase Package 3
[BASE]
- ETR AM/FM Stereo Cassette W 4 Speakers
- Air Conditioning, Non-CFC
                                                                                                                                        $ 1245/998
 04ADBase Package 4
[BASE]
- ETR AM/FM Stereo Cassette W 4 Speakers
- Air Conditioning, Non-CFC
- Cruise Control
                                                                                                                                        $ 1465/1178
 10AJGLS Package 10
[GLS]
- Air Conditioning, Non-CFC
- Cruise Control
- ETR AM/FM Stereo Cassette W 4 Speakers
                                                                                                                                        $ 1303/1053
 11AKGLS Package 11
[GLS]
- ETR AM/FM Stereo Cassette W 4 Speakers
- Air Conditioning, Non-CFC
- Cruise Control
- 5.5JX14 Alloy Wheels
                                                                                                                                      $ 1643/1330
12ALGLS Package 12
[GLS]
- ETR AM/FM Stereo Cassette W 4 Speakers
- Air Conditioning, Non-CFC
- Cruise Control
- Sunroof, Power Tilt/Slide Glass W
Inner Sunshade
- Front Map Lights (2)
                                                                                                                                       $ 1813/1469
13AMGLS Package 13
[GLS]
- ETR AM/FM Stereo Cassette W 4 Speakers
- Air Conditioning, Non-CFC
- Cruise Control
- 4 Wheel Antilock Brake System
                                                                                                                                      $ 2078/1764
14ANGLS Package 14
[GLS]
- ETR AM/FM Stereo Cassette W 6 Speakers
- Air Conditioning, Non-CFC
- 5.5JX14 Alloy Wheels
- Cruise Control
- Sunroof, Power Tilt/Slide Glass W
Inner Sunshade
- Front Map Lights (2)
- 4 Wheel Antilock Brake System
                                                                                                                                      $ 3120/2605
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\$ 2345/1894

15AOGLS Package 15

[GLS] - ETR AM/FM Stereo Cassette W 6 Speakers - Air Conditioning, Non-CFC - 5.5JX14 Alloy Wheels - Cruise Control - Sunroof, Power Tilt/Slide Glass W Inner Sunshade - Front Map Lights (2)	
DOORS DG PIO - Door Edge Guards	\$ 36/23
EMISSIONS AND EXHAUST CA California Emissions	\$ NC/NC
FLOOR COVERING CF PIO - Carpeted Floor Mats	\$ 58/38
MISCELLANEOUS EXTERIOR MG PIO - Mud Guards	\$ 78/47
WD PIO - Sunroof Wind Deflector [GLS]	\$ 52/30
SOUND SYSTEM AND CLOCK CD PIO - CD Player	\$ 395/290
STORAGE AR PIO - Console Armrest	\$ 108/70
TRANSMISSIONS ATRITransmission, 4 Speed Electronically [BASE] Controlled W Lock-Up Torque Converter & Power/Economy Dual Mode 1.8L Engine 14 DOHC 16V	\$ 1300/1169
ATR2Transmission, 4 Speed Electronically [GLS] Controlled W Lock-Up Torque Converter & Power/Economy Dual Mode	\$ 725/651

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