

REPORT NUMBER TR-P24145-01-NC

**NEW CAR ASSESSMENT PROGRAM
SIDE IMPACT TEST**

**HONDA MOTOR CORPORATION
2005 ACURA RL
4-DOOR SEDAN**

NHTSA NUMBER: H55301

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OCTOBER 26, 2004

FINAL REPORT

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16. Abstract A 55/28 km/h 90 deg. Moving Deformable Barrier Side Impact NCAP Test was conducted on the subject 2005 Acura RL 4-Door Sedan in accordance with the specifications of the Office of Crash Worthiness Standards Test Procedures for the generation of consumer information on vehicle side crash protection. The test was conducted at KARCO Engineering, LLC in Adelanto, California, on October 26, 2004. The impact velocity of the Moving Deformable Barrier was 61.85 km/h, and the outside ambient temperature at the struck (driver's) side of the vehicle was 13.3 deg. C. The target vehicle's maximum post test static crush was 224 mm located at level 4. The test vehicle's occupant performance data is as follows: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 35%;">Measurement Description</th> <th style="width: 15%;">Driver SID/HIII</th> <th style="width: 15%;">Pass. SID/HIII</th> <th style="width: 35%;"></th> </tr> </thead> <tbody> <tr> <td>Left Upper Rib (LUR) G's</td> <td style="text-align: center;">39.3</td> <td style="text-align: center;">45.6</td> <td rowspan="5" style="background-color: #cccccc;"></td> </tr> <tr> <td>Left Lower Rib (LLR) G's</td> <td style="text-align: center;">48.2</td> <td style="text-align: center;">45.3</td> </tr> <tr> <td>Lower Spine (T₁₂) G's</td> <td style="text-align: center;">46.7</td> <td style="text-align: center;">51.7</td> </tr> <tr> <td>Thoracic Trauma Index (TTI) G's</td> <td style="text-align: center;">47.0</td> <td style="text-align: center;">49.0</td> </tr> <tr> <td>Pelvis (PEV) G's</td> <td style="text-align: center;">71.2</td> <td style="text-align: center;">54.8</td> </tr> </tbody> </table>				Measurement Description	Driver SID/HIII	Pass. SID/HIII		Left Upper Rib (LUR) G's	39.3	45.6		Left Lower Rib (LLR) G's	48.2	45.3	Lower Spine (T ₁₂) G's	46.7	51.7	Thoracic Trauma Index (TTI) G's	47.0	49.0	Pelvis (PEV) G's	71.2	54.8
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SECTION 1

PURPOSE AND TEST PROCEDURE

1.1 PURPOSE

This Side Impact NCAP test is conducted as part of the FY' 2005 test program sponsored by the National Highway Traffic Safety Administration (NHTSA), under contract No. DTNH22-03-D-32005. The purpose of this test is to generate comparative side impact data on a 2005 Acura RL 4-Door Sedan manufactured by Honda Motor Corporation Ltd.

1.2 TEST PROCEDURE

The side impact test was conducted in accordance with the current National Highway Traffic Safety Administration (NHTSA), Office of Crashworthiness Standards (OCS), laboratory test procedure NCAP Side Impact Testing, dated November 2002 and the corresponding KARCO Engineering Test Procedure KTP-214D, dated November 18, 1998. The procedures for receiving, inspection, testing, and reporting of test results are described in the test procedures and are not repeated in this report.

SECTION 2

SUMMARY OF SIDE IMPACT TEST

2.1 SUMMARY OF SIDE IMPACT NCAP TEST

A model year 2005 Acura RL 4-Door Sedan was impacted on the left (driver's) side by a Moving Deformable Barrier (MDB) which was moving forward in a 27° crabbed position to the tow road guidance system at a velocity of 61.85 km/h. The specified impact velocity range is from 61.1 to 62.7 km/h. The test (target) vehicle was stationary and positioned 63° to the line of forward motion. The weight of the vehicle as tested was 2026 kg and the test weight of the MDB was 1361 kg. The test was conducted at KARCO Engineering, LLC in Adelanto, California, on October 26, 2004.

SUPPLEMENTAL RESTRAINT INFORMATION

Restraint Type	Left Front Driver		Left Rear (Passenger)	
	Installed	Operation	Installed	Operation
Front Airbag	Yes	No	No	
Side Torso Airbag	Yes	Yes	No	
Head Airbag	No		No	
Curtain Airbag	Yes	Yes	Yes	Yes

One (1) real-time video camera and ten (10) high-speed motion picture cameras were used to document the impact event. The pre-test and post-test conditions were recorded by one (1) real-time video camera. Camera locations and pertinent camera information is documented in the data sheets. Pre- and post-test photographs of the vehicle and SID/HIIIs can be found in Appendix A. Two 50th percentile adult male Side Impact Dummies, Hybrid III (SID/HIIIs) were placed in the driver's and left rear passenger designated seating positions according to the test procedure. Each SID/HIII is instrumented with contact switches on the pelvis, thorax and six-axis neck load cells, and fourteen accelerometers in the following locations:

- Left Upper Rib (LUR) uni-axial accelerometer (Y-axis primary and redundant)
- Left Lower Rib (LLR) uni-axial accelerometer (Y-axis primary and redundant)
- Lower Thoracic Spine (T12) uni-axial accelerometer (Y-axis primary and redundant)
- Pelvic (PEV) section uni-axial accelerometer (Y-axis primary and redundant)
- Head Center of Gravity (CG) tri-axial accelerometers (X, Y, and Z axes primary and redundant)

The test vehicle was instrumented with twenty-six (26) structural accelerometers and the MDB was instrumented with five (5) accelerometers and one (1) contact switch on the right bumper to compare left side to right side bumper impact timing. All data channels were recorded with the fully self contained on-board Data Acquisition System (DAS). The data was digitally sampled at 10,000 samples per second and processed per Appendix V of the Test Procedure.

SECTION 2...(CONTINUED)

2.2 GENERAL COMMENTS

The test vehicle sustained a maximum static crush of 224 mm at level 4, 1350 mm rearward of the left vertical impact point. The driver SID/Hybrid III, Serial No. 274 and the passenger SID/Hybrid III, Serial No. 275 were calibrated just prior to this test. The SID/Hybrid III injury criteria is summarized as follows:

Measurement	Units	Driver	Passenger
Thoracic Trauma Index (TTI)	G's	47.0	49.0
Peak Pelvic G's (PEV)	G's	71.2	54.8

Tests summaries and post-test observations are presented in Section 3. The vehicle, camera, and occupant measurements are presented in Section 4. Appendix A contains the still photograph prints. Appendix B contains the driver and passenger SID/HIIIs, vehicle, and MDB response data traces. Appendix C contains the SID Configuration and performance verification data. Appendix D contains the test equipment information.

SECTION 3
OCCUPANT AND VEHICLE INFORMATION SHEETS

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: H55301
 Test Date: 10/26/04

CONVERSION FACTORS USED IN THIS REPORT*

Quantity	Typical Application	Std Units	Metric Unit	Multiply By
Mass	Vehicle Weight	lb	kg	0.4536
Linear Velocity	Impact Velocity	mile/h	km/h	1.609
Length or Distance	Measurements	in	mm	25.4
Volume	Fuel Systems	gal	liter	3.785
Volume	Small Fluids	oz	mL	29.573
Pressure	Tire Pressures	lbf/in ²	kPa	7.0
Volume	Liquid	gal	liter	3.785
Temperature	General Use	°F	°C	$=(tf - 32)/1.8$
Force	Dynamic Forces	lbf	N	4.448
Moment	Torque	lbf/ft	Nm	1.355

* Based on the Recommended Practice in SAE J916, May 85

DATA SHEET NO. 1

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2005 Acura RL 4-Door Sedan

NHTSA No.: H55301

Test Program: 55/28 km/h Side Impact NCAP

Test Date: 10/26/04

TEST VEHICLE INFORMATION AND OPTIONS

NHTSA No.	H55301	Anti-Lock Brakes	Yes
Make	Acura	All Wheel Drive	Yes
Model	RL	Power Steering	Yes
Body Style	4-Door Sedan	Driver Front Airbag	Yes
Vin No.	JH4KB16535C000915	Driver Side Torso Airbag	Yes
Color	Light Blue	Driver Side Head Airbag	No
Delivery Date	10/18/04	Driver Curtain Airbag	Yes
Odometer (miles)	134	Rear Pass. Airbag	No
Dealer	Acura of Pasadena	Rear Pass. Side Airbag	No
Transmission	5-Speed Automatic	Rear Pass. Head Airbag	No
Final Drive	All Wheel Drive	Rear Pass. Curtain Airbag	Yes
Type/No. Cyl.	V6	Pre-Tensioners	Yes
Engine Disp. (L)	3.5	Load Limiters	Yes
Engine Placement	Transverse	Bucket Seats	Yes
Roof Rack	No	Air Cond.	Yes
Sunroof/T-Top	Yes	AM/FM Cassette	Yes
Tinted Glass	No	Tilt Steering	Yes
Traction Control	Yes	Power Door Locks	Yes
Power Brakes	Yes	Power Windows	Yes
Front Disc	Yes	Power Seats	Yes
Rear Disc	Yes	Other	On-star, Navigation System

Does Owners Manual provide instructions to turn off automatics door locks.

Yes

DATA FROM CERTIFICATION LABEL

Manufactured By	Honda Motor Corporation Ltd.	GWR (kg)	2260
Date of Manufacture	09/04	GAWR Front (kg)	1215
		GAWR Rear (kg)	1080

VEHICLE SEATING AND CAPACITY WEIGHT INFORMATION

Measured Parameter	Front	Rear	Third	Total
Type of Seats	Bucket	Bucket	N/A	
Number of Occupants	2	3	N/A	5
Capacity Weight (VCW) (kg)				386

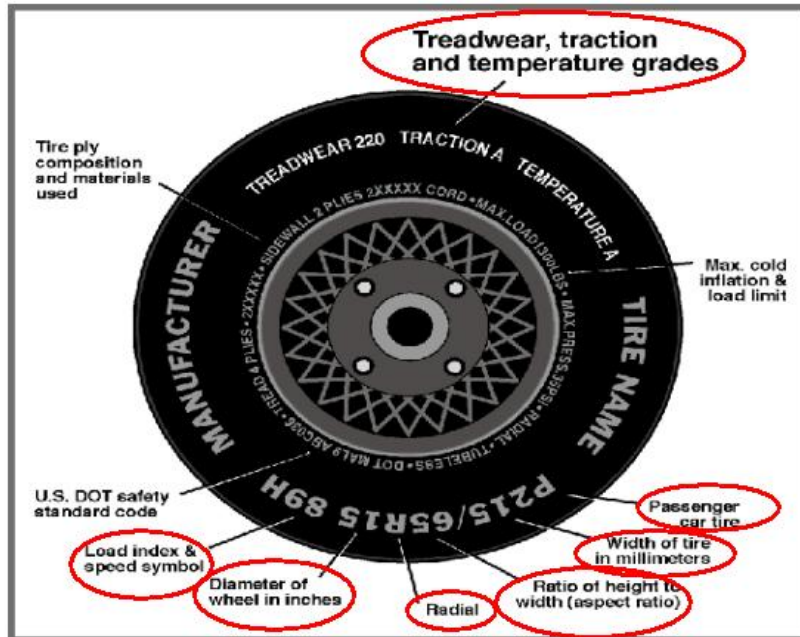
DATA SHEET NO. 1...(CONTINUED)

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: H55301
 Test Date: 10/26/04

Collect year, make, model, VIN, items circled in red, and tire manufacturer and tire name.



TIRE INFORMATION

Measured Parameter	Front	Rear
Max. Tire Pressure (kpa)	308	308
Cold Pressure (kpa)	220	210
Recommended Tire Size	P245/50R17 98V	P245/50R17 98V
Tire Size on Vehicle	P245/50R17 98V	P245/50R17 98V
Tire Manufacturer	Michelin	Michelin
Treadwear	800	800
Traction	A	A
Temperature Grades	A	A
Tire Plies Sidewall	2 Polyester	2 Polyester
Tire Plies Body	M + S	M + S
Load Index/Speed Symbol	98 V	98 V
Tire Material	2 Polyester + 2 Steel + 1 Polyamide	2 Polyester + 2 Steel + 1 Polyamide
DOT Safety Code Right	B9LM-JHMK-2404	B9LM-JHMK-2404
DOT Safety Code Left	B9LM-JHMK-2404	B9LM-JHMK-2404

DATA SHEET NO. 1...(CONTINUED)

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2005 Acura RL 4-Door Sedan

NHTSA No.: H55301

Test Program: 55/28 km/h Side Impact NCAP

Test Date: 10/26/04

TEST VEHICLE WEIGHTS

	Units	As Delivered Weights (UWW)			As Tested Weights (ATW)		
		Front Axle	Rear Axle	Total	Front Axle	Rear Axle	Total
Left	kg	536	389		600	453	
Right	kg	523	376		552	421	
Ratio	%	58.0	41.9		56.9	43.1	
Totals	kg	1059	765	1824	1152	874	2026

TARGET TEST WEIGHT CALCULATION

Measured Parameter	Units	Value
Total Delivered Weight (UWW)	kg	1824
Weight of 2 P572 ATD's	kg	161
Rated Cargo/Luggage Wt. (RCLW)	kg	45
Calculated Vehicle Target Wt. (TVTW)	kg	2030

TEST VEHICLE ATTITUDE AND CG

	Units	LF	RF	LR	RR	CG (aft of front axle)
As Delivered	mm	710	713	716	720	1174
As Tested	mm	695	705	695	703	1208
Fully Loaded	mm	695	709	690	700	

GENERAL TEST VEHICLE DATA

Measurement Description	Units	Value
Test Vehicle Wheel Base	mm	2800
Total Vehicle Length at Left Side	mm	3280
Total Vehicle Length at Centerline	mm	4913
Total Vehicle Length at Right Side	mm	3280
Weight of Ballast In Cargo Area	kg	0
Amount of Stoddard Solvent in Fuel Tank	Liters	68.3

TEST VEHICLE VERTICAL IMPACT LINE DATA

Measurement Description	Units	Value
Test Vehicle Wheel Base	mm	2800
Target Impact Point Aft of Front Axle	mm	460
Actual Impact Point Aft of Front Axle	mm	475

DATA SHEET NO. 1...(CONTINUED)

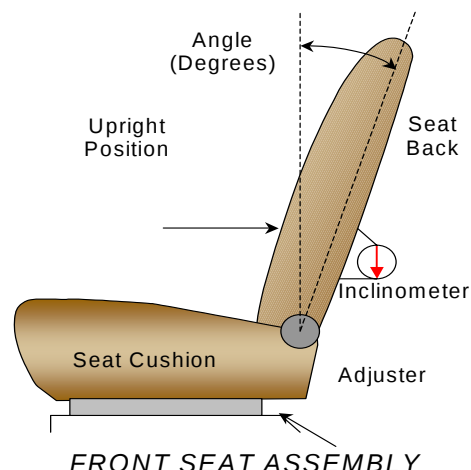
GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: H55301
 Test Date: 10/26/04

NOMINAL DESIGN RIDING POSITION

The driver and passenger seat backs are positioned to the manufacturers designated angle. The procedure is as follows: A special application tool with pointed probes is inserted through the fabric to make contact with the rigid portion of the lower seat frame assembly, approximately 13 inches above the pivot point of the seat back. An inclinometer is placed against the flat surface of the tool and the seat back angle is measured directly from the dial face.



SEAT BACK ANGLES

	Deg.
Driver Seat Back Angle	*
Rear Seat Back Angle	25.0

* Driver seatback was positioned at 620 mm from outer bolt of sun-visor to the center of the head support.

SEAT FORE/AFT POSITIONS

The Drivers seat is adjustable. The fore/aft position is set to the middle.

SEAT FORE/AFT POSITIONING

	Total Fore/Aft Travel	Placed in Position #
Driver Seat	255 mm	127 mm
Rear Seat		

SEAT BELT UPPER ANCHORAGE

Position number one (1) is the uppermost position.

SEAT BELT UPPER ANCHORAGE

	Total # of Positions	Placed in Position #
Driver Seat	4	1
Rear Seat	1	1

DATA SHEET NO. 1...(CONTINUED)

GENERAL TEST AND VEHICLE PARAMETER DATA

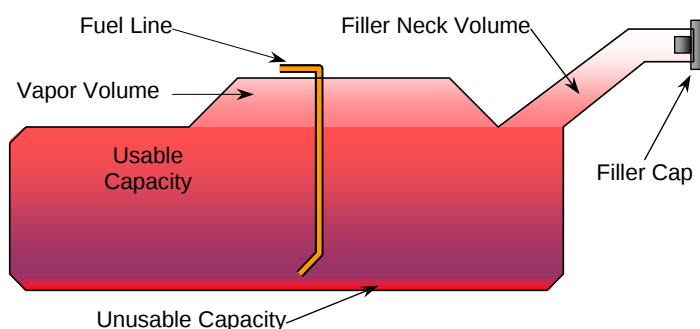
Test Vehicle: 2005 Acura RL 4-Door Sedan
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 Test Date: 10/26/04

FUEL TANK CAPACITY

	Liters
Usable Capacity of "Standard Tank"	73.4
Usable Capacity of "Optional" Tank	N/A
Usable Capacity used for FMVSS 301	67.5 to 69.0
Actual Amount of Solvent used	68.3

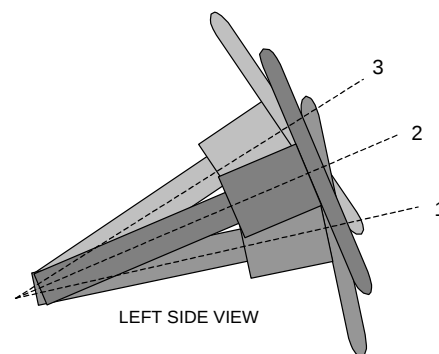
The test vehicle is equipped with an electric fuel pump. The fuel pump will operate for approximately three (3) seconds with the ignition in the "ON" position, after which the fuel pump automatically shuts off. The fuel filler door is located on the left rear fender.



VEHICLE FUEL TANK ASSEMBLY

STEERING COLUMN ADJUSTMENT

Steering wheel and column adjustments are made so that the steering wheel hub is at the geometric center of the locus it describes when moved through its full range of motion. An aluminum plate is placed across the rim of the steering wheel, an inclinometer is placed on the plate and the angle is measured.



STEERING COLUMN ASSEMBLY

STEERING COLUMN POSITIONS

	Degrees	Fore/Aft Position (mm)
Lowermost Position No.1	21.0	0
Geometric Center Position No. 2	23.0	20
Uppermost Position No.3	25.0	40

DATA SHEET NO. 2**TEST VEHICLE SUMMARY OF RESULTS**

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: H55301
 Test Date: 10/26/04

TEST VEHICLE WEIGHTS

	Units	As Delivered Weights (UWW)			As Tested Weights (ATW)		
		Front Axle	Rear Axle	Total	Front Axle	Rear Axle	Total
Left	kg	536	389	925	600	453	1052
Right	kg	523	376	899	552	421	973
Ratio	%	58.1	41.9	100%	56.9	43.1	100%
Totals	kg	1059	765	1824	1152	874	2026

MAXIMUM EXTERIOR STATIC CRUSH

Level	Measured Parameter	Units	Maximum Crush	Above Ground
Level 1	Sill Top Height	mm	37	228
Level 2	Occupant H-Point	mm	207	491
Level 3	Mid Door	mm	205	592
Level 4	Window Sill	mm	224	868
Level 5	Window top	mm	36	1375
N/A	Maximum Penetration	mm	224	

INSTRUMENTATION

Driver SID/Hybrid III Accelerometers	20
Passenger SID/Hybrid III Accelerometers	20
Vehicle Structure Accelerometers	26
MDB Accelerometers	5
Total number of Contact Switches	5
Total	76

CAMERA COVERAGE

High Speed, Vehicle On-Board	3
High Speed, Off-Board	5
High Speed, MDB On-Board	2
Real Time, Panning	1
Total	11

DATA SHEET NO. 3**MOVING DEFORMABLE BARRIER (MDB) SUMMARY OF RESULTS**

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: H55301
 Test Date: 10/26/04

MDB SPECIFICATIONS (mm)

Measurement Description	Length
Overall Width of Framework Carriage	1252
Overall Length including Honeycomb Face	4115
Wheel Base of Framework Carriage	2590
C.G. location aft of Front Axle	1127

MDB WEIGHTS

	Units	Front Axle	Rear Axle	Total
Left	kg	384	308	
Right	kg	385	284	
Ratio	%	56.5	43.5	
Totals	kg	769	592	1361

SPEED AND IMPACT DATA

Measured Parameter	Units	Requirement	Value
Trap No. 1 Velocity (Primary)	km/h	61.1 to 62.7	61.85
Trap No. 2 Velocity (Redundant)	km/h	61.1 to 62.7	61.66
MDB CL to Target Vehicle CL	degrees	88.5 to 91.5	89.5

MAXIMUM STATIC CRUSH OF HONEYCOMB FACE (mm)

Vertical Location			From Centerline		Max. Crush
Row	Description	Height	Distance	Direction	
A	Center of Bumper	432	800	Left	206
B	Top of Bumper	533	800	Left	80
C	Mid Level	686	800	Left	76
D	Top of Stack	813	800	Left & Right	111

MDB INSTRUMENTATION AND CAMERAS

Accelerometers	5
Contact Switches	1
High Speed Cameras	2

DATA SHEET NO. 4
POST TEST OBSERVATIONS

Test Vehicle: 2005 Acura RL 4-Door Sedan
Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: H55301
Test Date: 10/26/04

TEST DUMMY INFORMATION AND CONTACT POINTS

Description	Front Seat SID/HIII	Rear Seat SID/HIII
Dummy Type / Serial No.	P572F, SID/HIII NO. 274	P572F, SID/HIII NO. 275
Head Contact	Curtain Airbag	Curtain Airbag
Upper Torso Contact	Torso Airbag	Door Panel
Lower Torso Contact	Door Panel	Door Panel
Left Knee Contact	Door Panel	Door Panel
Right Knee Contact	Left Knee	Left Knee

POST-TEST DOOR OPENING AND SEAT TRACK INFORMATION

Description	Front	Rear
Left Side Door Opening	Remained Closed/Latch inoperable	Remained Closed/Latch inoperable
Right Side Door Opening	Remained Closed/Latch operable	Remained Closed/Latch operable
Seat Movement	None	None
Seat Back Failure	None	None

POST-TEST STRUCTURAL OBSERVATIONS

Critical Areas of Performance	Observations and Conclusions
Pillar Performance	Pillars pushed inward with no apparent failure
Sill Separation	No Apparent Visible Failure
Windshield Damage	Glazing Cracks on Struck Side Only
Window Damage	Both Struck Side Windows Broke
Other Notable Effects	No significant items to note.

SUPPLEMENTAL RESTRAINT SYSTEM INFORMATION

Restraint Type	Left Front (Driver) Occupant Location 01		Left Rear (Passenger) Occupant Location 04	
	Installed	Operation	Installed	Operation
Front Airbag	Yes	Not Deployed	No	
Side Airbag	Yes	Deployed Properly	No	
Head Airbag	No	Deployed Properly	No	
Curtain Airbag	Yes	Deployed Properly	Yes	Deployed Properly
Seat Belt Pretensioner	Yes		No	
Seat Belt Load Limiter	Yes		No	

MDB LEFT EDGE IMPACT POINT DATA

Measured Parameter	Units	Requirement	Value
Horizontal Offset	mm	+/- 50	15 (Right)
Vertical Offset	mm	+/- 20	7 (Above)

DATA SHEET NO. 5
SID/HIII INJURY CRITERIA AND SENSOR DATA

Test Vehicle: 2005 Acura RL 4-Door Sedan

NHTSA No.: H55301

Test Program: 55/28 km/h Side Impact NCAP

Test Date: 10/26/04

THORAX AND PELVIS PEAK ACCELERATIONS, PRIMARY (FIR 100 Filtered)

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Upper Rib (LUR)	Y	G's	39.3	40.6	-11.0	86.3	45.6	43.1	-5.2	195.6
Lower Rib (LLR)	Y	G's	48.2	31.3	-13.0	74.4	45.3	47.5	-5.4	195.6
Lower Spine (T ₁₂)	Y	G's	46.7	25.0	-14.0	63.8	51.7	43.8	-5.8	76.9
Pelvis (PEV)	Y	G's	71.2	22.5	-19.7	59.4	54.8	35.6	-5.2	61.9

THORACIC TRAUMA INDEX (TTI) AND PELVIC ACCELERATION, PRIMARY (FIR 100 Filtered)

Location	Driver				Passenger			
	LLR	T ₁₂	TTI(g)	PEV(g)	LUR	T ₁₂	TTI(g)	PEV(g)
Primary Rib, Spine, and Pelvis	48.188	46.684	47	71	45.613	51.746	49	55

THORAX AND PELVIS PEAK ACCELERATIONS, REDUNDANT (FIR 100 Filtered)

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Upper Rib (LUR)	Y	G's	38.6	40.6	-11.2	85.6	45.4	43.1	-5.2	195.6
Lower Rib (LLR)	Y	G's	48.9	31.3	-12.9	75.0	46.1	47.5	-5.4	195.6
Lower Spine (T ₁₂)	Y	G's	46.5	24.4	-14.7	71.9	51.9	43.8	-5.5	77.5
Pelvis (PEV)	Y	G's	70.9	22.5	-20.6	58.8	55.1	36.3	-5.1	71.3

THORACIC TRAUMA INDEX (TTI) AND PELVIC ACCELERATION, REDUNDANT (FIR 100 Filtered)

Location	Driver				Passenger			
	LLR	T ₁₂	TTI(g)	PEV(g)	LLR	T ₁₂	TTI(g)	PEV(g)
Redundant Rib, Spine, and Pelvis	48.939	46.508	48	71	46.140	51.948	49	55

Positive Acceleration Polarities:

- Longitudinal (X) = Forward
- Lateral (Y) = Right
- Vertical (Z) = Down

DATA SHEET NO. 5...(CONTINUED)
SID/HIII INJURY CRITERIA AND SENSOR DATA

Test Vehicle: 2005 Acura RL 4-Door Sedan

NHTSA No.: H55301

Test Program: 55/28 km/h Side Impact NCAP

Test Date: 10/26/04

HEAD PRIMARY PEAK ACCELERATIONS (SAE CLASS 1000 Filtered)

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Head CG	X	G's	5.0	177.3	-13.8	56.3	8.9	48.3	-11.9	66.6
Head CG	Y	G's	33.1	45.3	-8.2	131.6	84.5	48.6	-10.6	194.9
Head CG	Z	G's	18.9	129.4	-4.7	84.5	6.9	42.3	-35.7	58.5
Head CG Resultant	N/A	G's	35.4	45.4			85.0	48.6		

HEAD PRIMARY INJURY CRITERIA (SAE CLASS 1000 Filtered)

Location	Driver				Passenger			
	HIC	T ¹	T ²	Avg G	HIC	T ¹	T ²	Avg G
Head CG	146.3	30.7	66.7	27.7	297.1	44.8	62.1	49.3

HEAD REDUNDANT PEAK ACCELERATIONS (SAE CLASS 1000 Filtered)

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Head CG	X	G's	5.2	174.7	-14.1	56.3	8.6	191.0	-11.9	66.4
Head CG	Y	G's	33.2	41.0	-8.6	131.0	83.9	48.5	-10.3	195.6
Head CG	Z	G's	18.8	129.2	-4.7	84.4	7.0	42.4	-35.6	58.6
Head CG Resultant	N/A	G's	35.5	46.9			84.4	48.5		

HEAD REDUNDANT INJURY CRITERIA (SAE CLASS 1000 Filtered)

Location	Driver				Passenger			
	HIC	T ¹	T ²	Avg G	HIC	T ¹	T ²	Avg G
Head CG	146.6	30.6	66.6	27.8	288.8	44.8	63.4	47.4

UPPER NECK PEAK FORCES AND MOMENTS

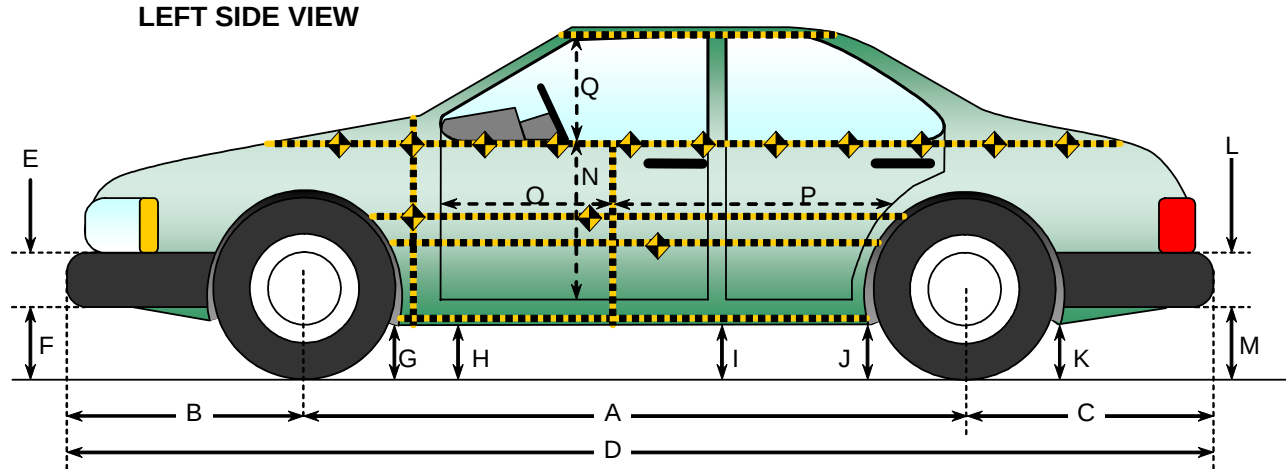
Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Neck Force	X	Newtons	139.5	166.9	-607.3	56.6	637.0	64.9	-94.8	145.8
Neck Force	Y	Newtons	581.0	52.5	-316.0	131.4	89.0	140.0	-1118.0	58.2
Neck Force	Z	Newtons	240.8	84.8	-795.8	129.5	310.5	42.0	-1854.7	58.7
Neck Force Resultant	N/A	Newtons	941.4	48.1			2243.3	58.7		
Neck Moment	X	N•m	22.0	83.6	-56.2	41.3	21.8	195.5	-25.3	50.0
Neck Moment	Y	N•m	45.8	76.5	-32.5	48.7	18.0	69.9	-1.2	20.3
Neck Moment	Z	N•m	32.2	66.3	-9.8	146.5	16.4	85.7	-8.8	145.9
Neck Moment Resultant	N/A	N•m	61.2	41.4			26.2	50.0		

DATA SHEET NO. 6

VEHICLE PRE-TEST AND POST-TEST MEASUREMENTS

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: H55301
 Test Date: 10/26/04



VEHICLE PRE AND POST-TEST MEASUREMENT INFORMATION

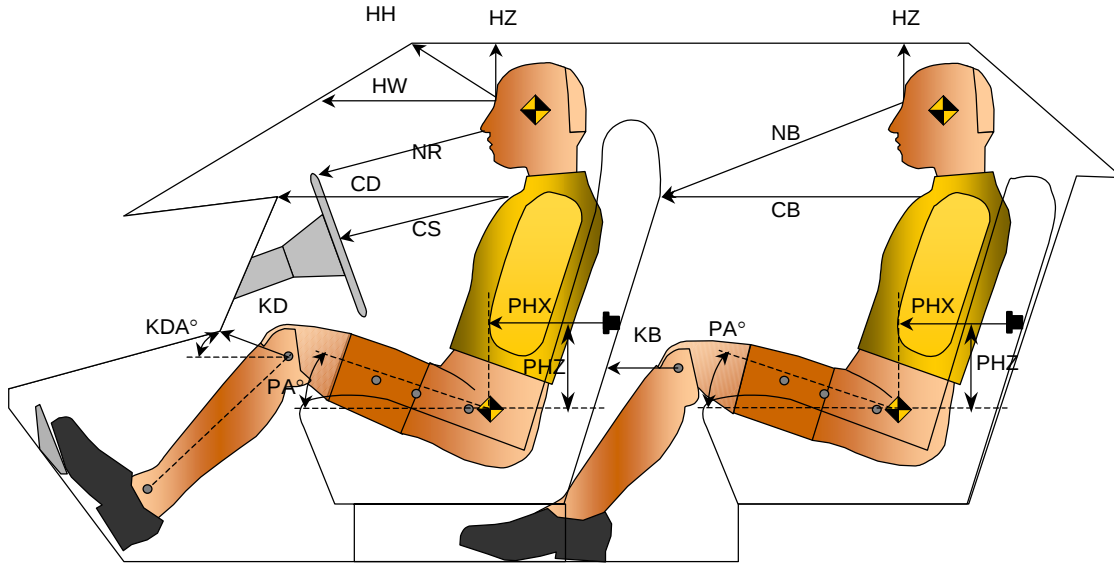
Code	Measurement Description	Pre-Test	Post-Test	Difference
A	Wheelbase	2800	2800	0
B	Front Axle to FSOV	1012	1050	38
C	Rear Axle to RSOV	1103	1060	-43
D	Total Length at Centerline	4913	4920	7
E	Front Bumper Thickness	398	400	2
F	Front Bumper Bottom to Ground	176	192	16
G	Sill Height at Front Wheel Well	161	189	28
H	Sill Height at Front Door Leading Edge	166	186	20
I	Sill Height at "B" Pillar	176	208	32
J1	Sill Height at Rear Wheel Well	156	196	40
J2	Pinch Weld Height at Rear Wheel Well	166	210	44
K	Sill Height aft of Rear Wheel Well	216	261	45
L	Rear Bumper Thickness	380	460	80
M	Rear Bumper Bottom to Ground	306	345	39
N	Sill Height to Window Bottom Sill	685	630	-55
O	Front Door Leading Edge to Impact CL	845	810	-35
P	Rear Door Trailing Edge to Impact CL	1245	1210	-35
Q	Front Window Opening	390	365	-25
R	Right Side Length	3280	3285	5
S	Left Side Length	3280	3270	-10
T	Vehicle Width at "B" Post	1855	1640	-215

DATA SHEET NO. 7

SID/HIII LONGITUDINAL CLEARANCE DIMENSIONS

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: H55301
 Test Date: 10/26/04



LONGITUDINAL CLEARANCE DIMENSION INFORMATION

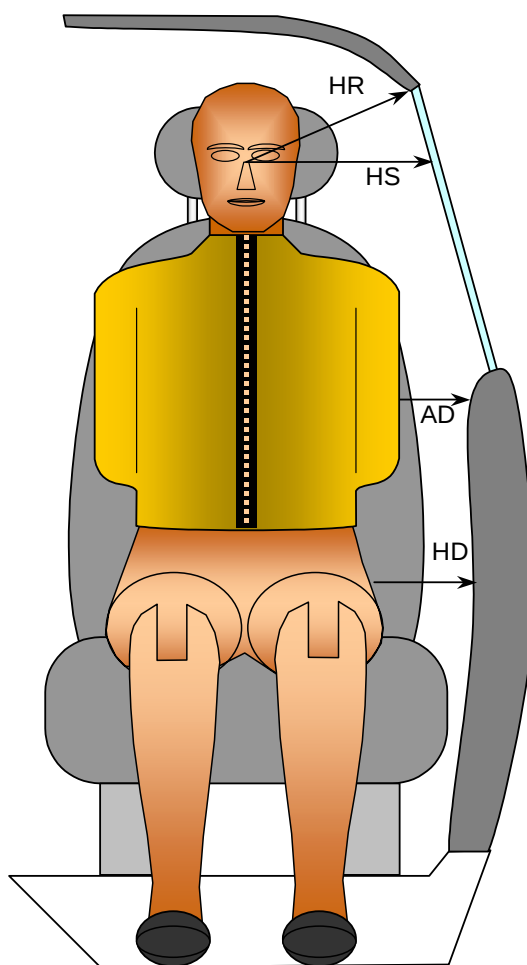
Driver Code	Pass. Code	Measurement Description	Driver		Passenger	
			Length(mm)	Angle	Length(mm)	Angle
HH		Head to Header	355	17.7		
HW		Head to Windshield	665	0.0		
HZ	HZ	Head to Roof	155		125	
NR	NB	Nose to Rim/Nose to Seatback	425	13.3	685	21.8
CD	CB	Chest to Dash or Seatback	535	6.0	605	4.2
CS		Chest to Steering Wheel	280	0.0		
KDL	KBL	Left Knee to Dash or Seatback	140	21.2	260	0.0
KDR	KBR	Right Knee to Dash or Seatback	150		255	
PA	PA	Pelvic Angle		22.5		24.2
PHX	PHX	H-Point to Striker (X-Axis)	240		180	
PHZ	PHZ	H-Point to Striker (Z-Axis)	220		250	

DATA SHEET NO. 8

SID/HII LATERAL CLEARANCE DIMENSIONS

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: H55301
 Test Date: 10/26/04



FRONT VIEW OF DUMMY

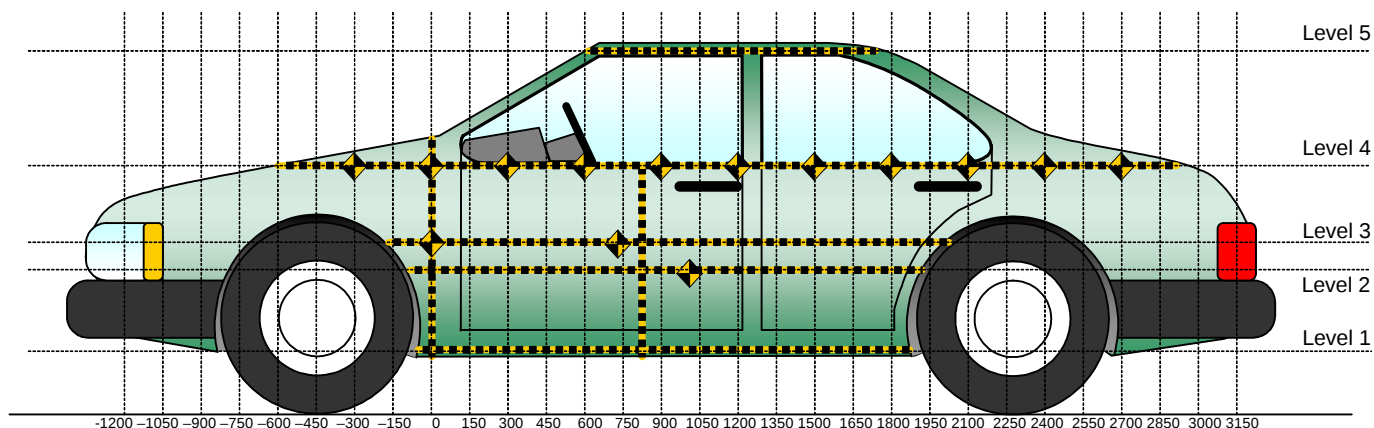
LATERAL CLEARANCE DIMENSION INFORMATION

Code	Measurement Description	Units	Driver	Passenger
HR	Head to Side Header	mm	235	243
HS	Head to Side Window	mm	350	355
AD	Arm to Door	mm	150	130
HD	H-Point to Door	mm	124	135

DATA SHEET NO. 9 **VEHICLE SIDE MEASUREMENTS**

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: H55301
 Test Date: 10/26/04



All Measurements Shown in mm

LEFT SIDE VIEW

Measurements are taken with vehicle in the as tested condition.

Measurements taken 900 mm right of impact reference.

All measurements below in mm.

Level	Measurement Description	Height Above Ground
1	Sill Top	228
2	Occupant H-Point	491
3	Mid Door	592
4	Window Sill	868
5	Window Top	1375

DATA SHEET NO. 10

VEHICLE EXTERIOR CRUSH PROFILES

Test Vehicle: 2005 Acura RL 4-Door Sedan

NHTSA No.: H55301

Test Program: 55/28 km/h Side Impact NCAP

Test Date: 10/26/04

	Pre-Test					Post-Test					Difference				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
-900															
-750															
-600															
-450															
-300				166					186					20	
-150		89	82	163			102	111	176			13	29	13	
0	134	96	90	155		166	131	171	176		32	35	81	21	
150	137	94	98	152		170	281	251	236		33	187	153	84	
300	138	92	94	149		171	286	281	266		33	194	187	117	
450	138	89	94	143		170	296	281	306		32	207	187	163	
600	138	88	91	140		172	283	296	310		34	195	205	170	
750	137	87	89	136	424	171	279	281	311	436	34	192	192	175	12
900	134	87	89	134	416	171	270	271	315	424	37	183	182	181	8
1050	134	87	86	132	411	166	266	256	316	430	32	179	170	184	19
1200	136	87	87	131	410	161	271	281	336	436	25	184	194	205	26
1350	134	89	88	132	413	156	266	280	356	449	22	177	192	224	36
1500	138	91	90	132	424	150	252	266	330	446	12	161	176	198	22
1650	138	94	91	134	433	143	238	241	290	444	5	144	150	156	11
1800	138	94	93	138	446	136	108	206	256	442	-2	14	113	118	-4
1950	138	94	93	146	466	126	126	106	195	449		32	13	49	-17
2100			90	150				121	146				31	-4	
2250				155					171					16	
2400				163					166					3	
2550				174					168					-6	
2700				188					178					-10	
2850				200					186					-14	
3000				233					216					-17	

Measurements are taken from fixed reference 1000 mm from vehicle center line.

DATA SHEET NO. 10...(CONTINUED)

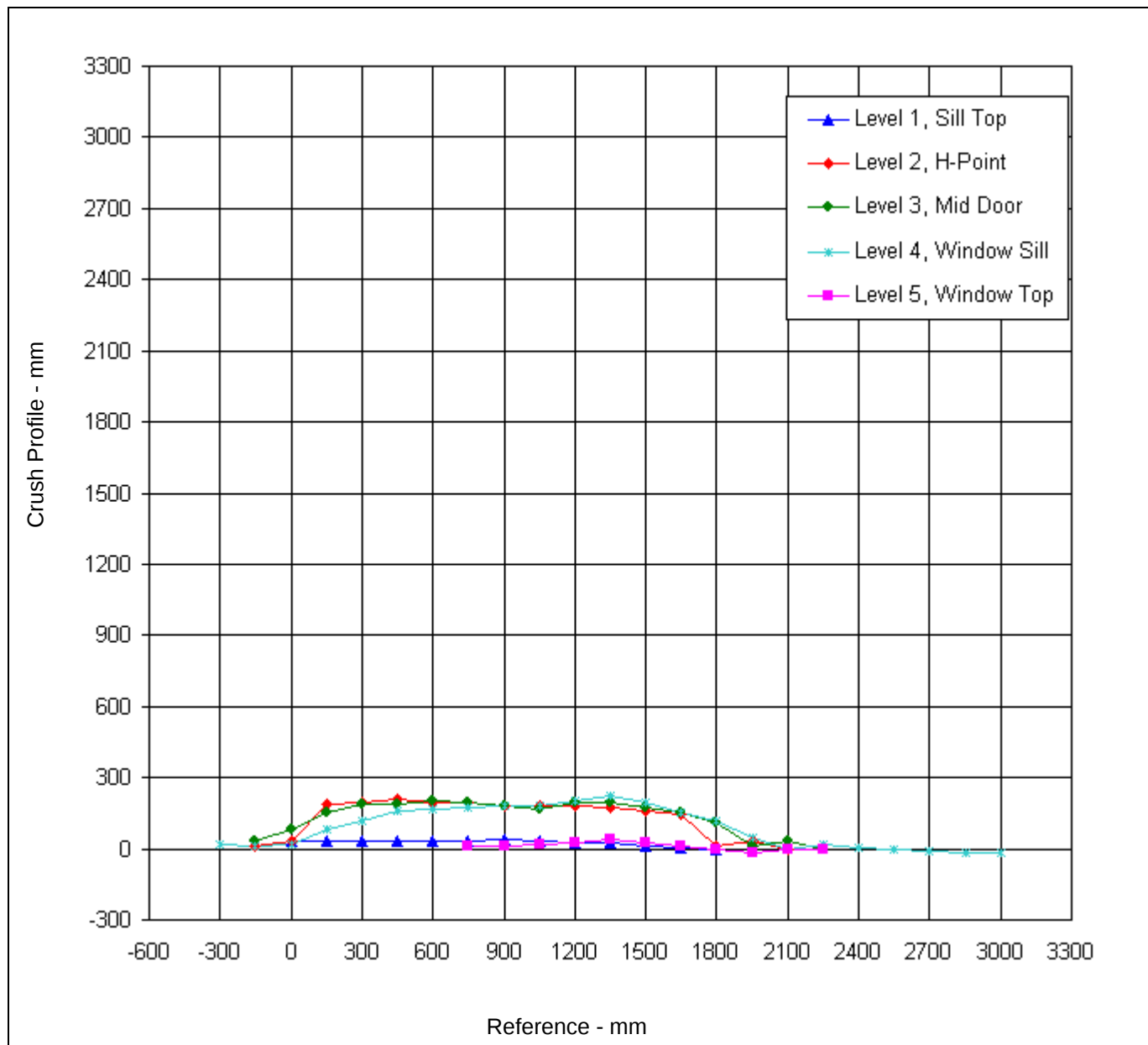
VEHICLE EXTERIOR CRUSH PROFILES

Test Vehicle: 2005 Acura RL 4-Door Sedan

NHTSA No.: H55301

Test Program: 55/28 km/h Side Impact NCAP

Test Date: 10/26/04



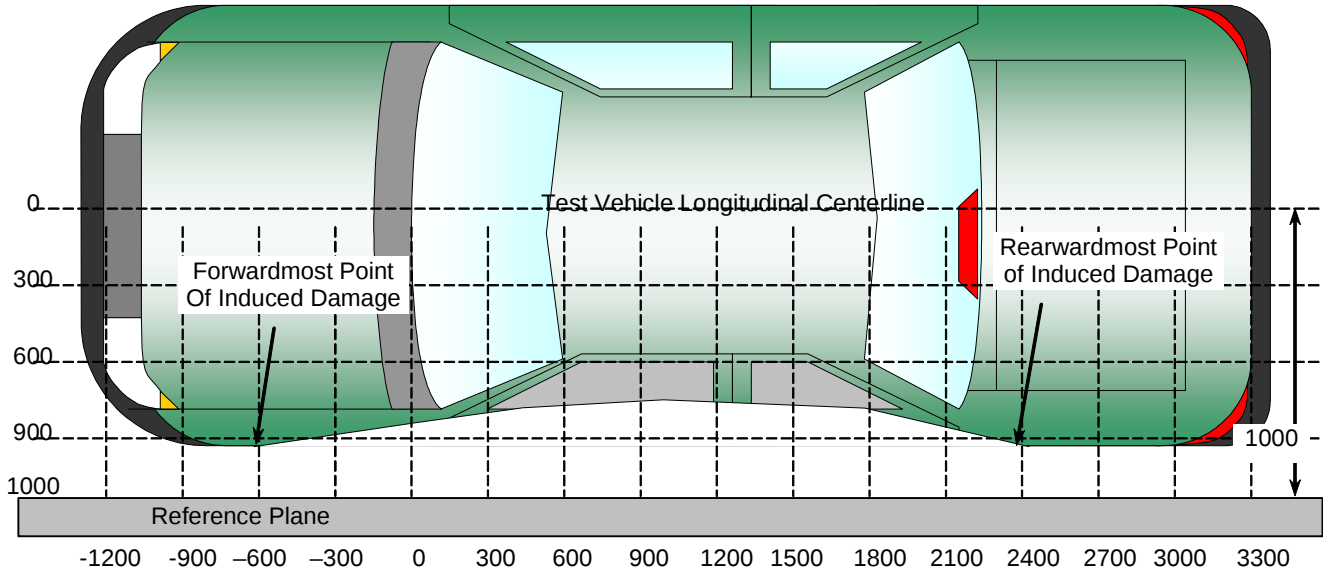
	Units	Level 1	Level 2	Level 3	Level 4	Level 5
Maximum Crush	mm	37	207	205	224	36
Distance from Impact	mm	900	450	600	1350	1350

DATA SHEET NO. 11

VEHICLE DAMAGE PROFILE DISTANCES

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: H55301
 Test Date: 10/26/04



All Dimensions Shown in millimeters

TOP VIEW

DAMAGE PROFILE DISTANCES

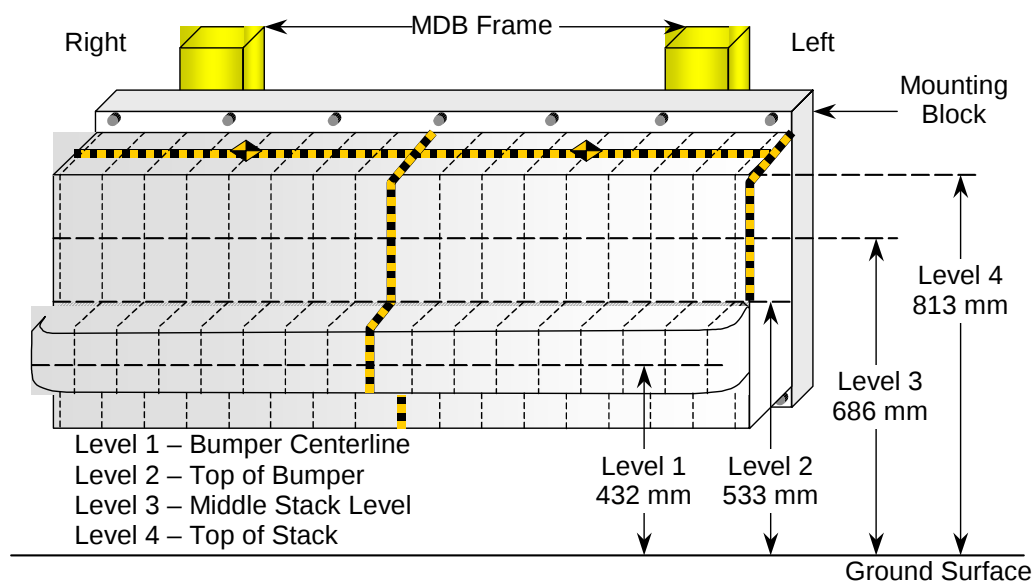
DPD	Distance From Impact Point in mm	Level	Pre-Test (mm)	Post-Test (mm)	Max. Static Crush (mm)
1	150	2	94	281	187
2	450	2	89	296	207
3	750	3	89	281	192
4	1050	4	132	316	184
5	1350	4	132	356	224
6	1650	4	134	290	156

DATA SHEET NO. 12

DEFORMABLE BARRIER HONEYCOMB FACE STATIC CRUSH

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: H55301
 Test Date: 10/26/04



DEFORMABLE BARRIER STATIC CRUSH

Stack Level	Distance Right of Center								C/L	Distance Left of Center							
	800	700	600	500	400	300	200	100		100	200	300	400	500	600	700	800
1	206	160	138	118	111	110	103	102	93	98	92	92	88	85	83	88	108
2	80	61	48	36	30	28	26	26	22	22	24	31	31	36	41	43	56
3	76	33	12	4	-2	0	13	9	-2	-4	-3	-4	1	6	11	43	72
4	111	67	33	8	2	5	29	39	23	10	-2	-2	2	10	23	71	111

All Dimensions in mm

DATA SHEET NO. 13

VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY

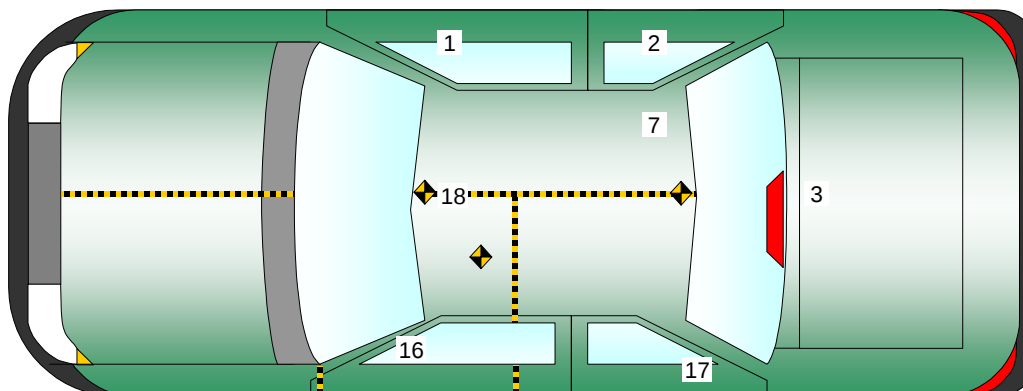
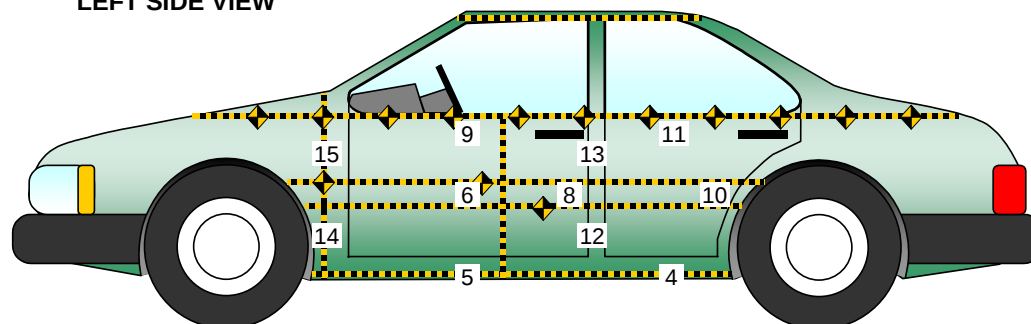
Test Vehicle: 2005 Acura RL 4-Door Sedan

NHTSA No.: H55301

Test Program: 55/28 km/h Side Impact NCAP

Test Date: 10/26/04

LEFT SIDE VIEW



No.	Location
1	Right Sill at Front Seat
2	Right Sill at Rear Seat
3	Rear Floorpan Above Axle
4	Left Sill at Rear Door
5	Left Sill at Front Door
6	Left Front Door Centerline
7	Right Rear Occupant Compartment
8	Left Front Door Mid-Rear
9	Left Front Door Upper Centerline

No.	Location
10	Left Rear Door Mid-Rear
11	Left Rear Door Upper Centerline
12	Left Lower B-Post
13	Left Middle B-Post
14	Left Lower A-Post
15	Left Middle A-Post
16	Front Seat Track
17	Rear Seat Track or Structure
18	Vehicle CG

DATA SHEET NO. 13...(CONTINUED)
VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY

Test Vehicle: 2005 Acura RL 4-Door Sedan

NHTSA No.: H55301

Test Program: 55/28 km/h Side Impact NCAP

Test Date: 10/26/04

VEHICLE ACCELEROMETER PEAK DATA AND PRE-TEST LOCATIONS

Loc. No.	Accelerometer Location	Measurements (mm)			Peak Values (G's)				
		X	Y	Z	Axis	Max	Time	Min	Time
1	Right Sill at Front Seat	2835	760	320	X	4.0	32.1	-4.0	18.4
					Y	19.7	8.7	-2.1	95.9
					Z	4.2	28.3	-4.4	16.6
					RES	20.0	8.7		
2	Right Sill at Rear Seat	1920	760	330	X	4.6	32.6	-4.6	18.3
					Y	16.5	8.9	-2.1	93.8
					Z	7.1	36.5	-4.7	15.0
					RES	16.9	8.7		
3	Rear Floorpan Above Axle	740	330	495	X	4.8	62.6	-8.7	19.8
					Y	23.8	29.3	-2.9	115.0
					Z	6.6	32.7	-5.1	10.8
					RES	24.1	29.3		
4	Left Sill at Rear Door	1900	-785	155	Y	23.9	18.5	-3.0	7.4
5	Left Sill at Front Door	2750	-785	155	Y	20.0	6.9	-11.8	11.1
6	Front Door Centerline	2740	-800	550	Y	202.9	5.6	-59.7	13.0 ²
7	Rt. Rear Occ. Compartment	2300	610	180	Y	19.3	8.1	-2.1	94.3
8	Front Door Mid-Rear	2450	-800	600	Y	140.9	4.3	-46.0	18.3 ³
9	Front Door Upper Centerline	2740	-800	700	Y	100.2	15.6	-24.1	20.1 ⁴
10	Rear Door Mid-Rear	1500	-800	770	Y	160.2	13.7	-46.5	9.7
11	Rear Door Upper Centerline	1830	-800	800	Y	159.5	8.1	-50.1	21.8
12	B-Post Lower	2300	-750	420	Y	157.6	3.3	-34.8	12.4
13	B-Post Middle	2300	-750	780	Y	0.0	0.0	0.0	0.0 ⁵
14	A-Post Lower	3440	-860	340	Y	70.7	5.2	-24.4	19.7
15	A-Post Middle	3440	-860	500	Y	108.9	5.3	-3.7	12.4 ⁶
16	Front Seat Track	4860	-610	310	Y	103.4	18.4	-104.9	25.4
17	Rear Seat Structure				Y				
18	Vehicle CG	2910	250	205	X	2.1	22.3	-5.4	17.3
					Y	17.7	7.9	-1.6	189.9
					Z	14.2	23.4	-11.9	18.3
					RES	21.7	23.4		

1.) Not installed

6.) Channel failed at 8.0 msec.

2.) Channel failed at 14.5 msec.

3.) Channel failed at 28.8 msec.

4.) Channel failed at 32.5 msec.

5.) Channel failed, no data

DATA SHEET NO. 14
MDB ACCELEROMETER LOCATION AND DATA SUMMARY

Test Vehicle: 2005 Acura RL 4-Door Sedan

NHTSA No.: H55301

Test Program: 55/28 km/h Side Impact NCAP

Test Date: 10/26/04

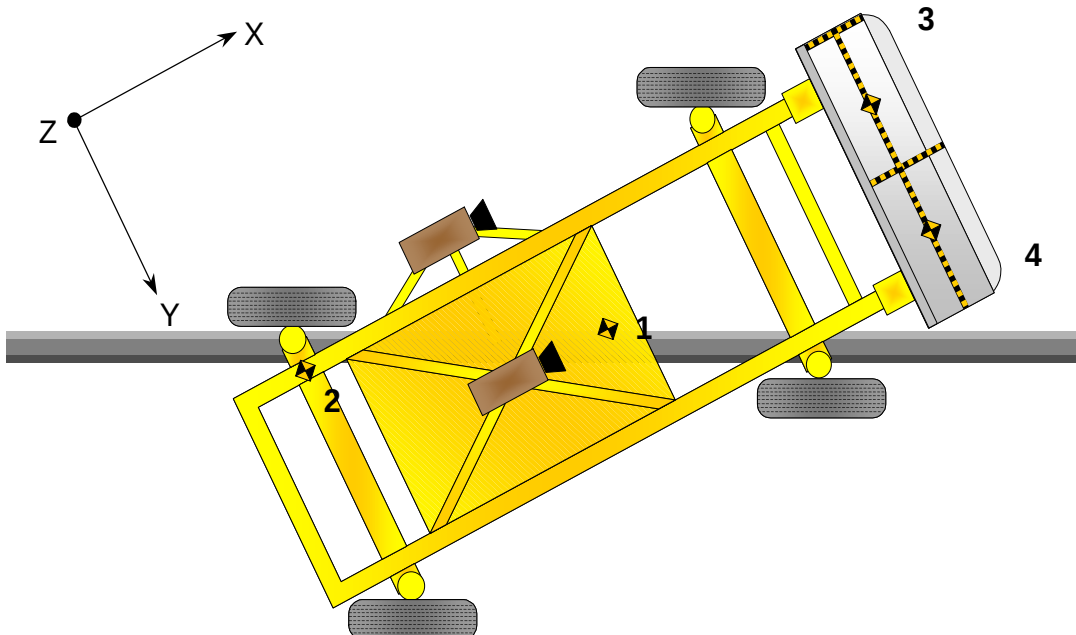
MDB ACCELEROMETER PEAK DATA AND LOCATIONS

Loc. No.	Accelerometer Location	Measurements (mm)			Peak Values (G's)				
		X	Y	Z	Axis	Max	Time	Min	Time
1	MDB CG	-1195	0	430	X	2.5	192.1	-21.1	31.0
					Y	2.3	133.0	-7.8	27.7
					Z	18.7	133.4	-21.9	122.8
					RES	21.9	122.7		
2	MDB Rear	-2642	-593	608	X	2.4	113.6	-22.5	31.3
					Y	3.6	146.3	-4.8	21.7

Reference Points X - MDB Front Axle Y - MDB Centerline Z - Ground Plane

MDB BUMPER CONTACT SWITCH DATA

Loc. No.	Contact Switch Location	Units	Peak and 50% Crossing Point			
			Max	Time	50%	Time
3	MDB Left Bumper (T=0)	% F.S.	100.0	0.0	50.0	0.0
4	MDB Right Bumper	% F.S.	97.9	11.4	50.0	-0.5



DATA SHEET NO. 15

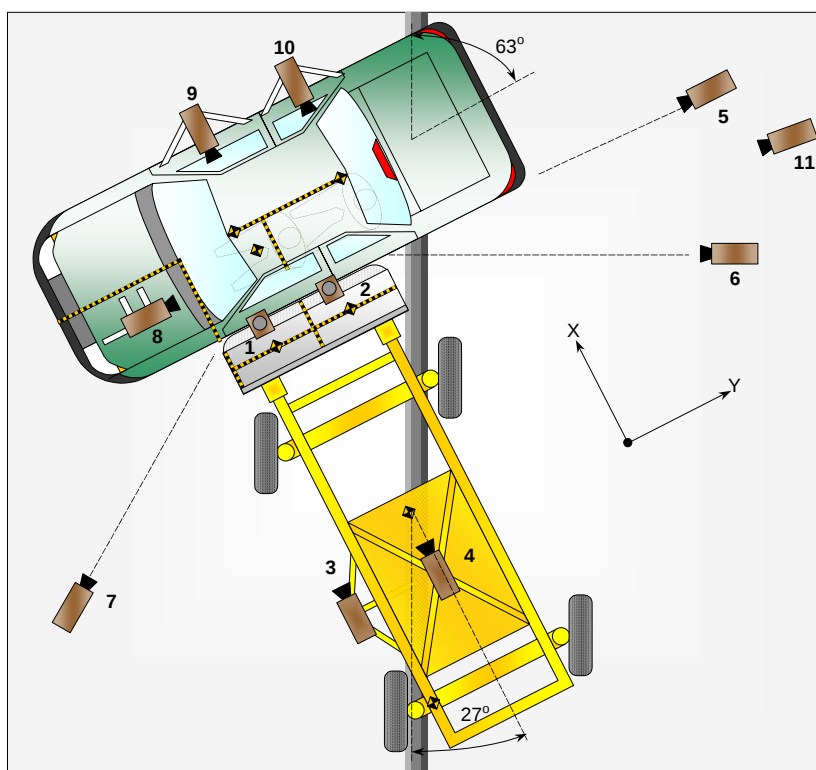
HIGH SPEED CAMERA LOCATIONS AND DATA

Test Vehicle: 2005 Acura RL 4-Door Sedan

NHTSA No.: H55301

Test Program: 55/28 km/h Side Impact NCAP

Test Date: 10/26/04



No.	Camera View	Location (mm)			Angle (deg.)	Lens (mm)	Film Speed (fps)
		X	Y	Z			
1	Overhead Overall	2438	609	-5486	90	8	515
2	Overhead Close Up	1676	-1067	-5486	90	35	440
3	Impact Point	0	-2134	-1143	7	13	820
4	Side Overall	838	-3912	-1829	11	13	450
5	Rear	15545	228	-1371	1	35	510
6	Left Rear	16459	-7188	-939	1	80	DNR
7	Left Front	-4775	-2666	-1473	7	13	NTM
8	Driver Front	-864	483	-1321	20	19	1005
9	Driver Side	864	1981	-1118	5	6	1030
10	Rear Passenger	1524	1981	-1118	5	6	1000
11	Real Time Film	22860	3658	-1727	5	N/A	30

X = Barrier Face Y = Monorail Centerline Z = Ground NTM: No Timing Marks

DNR: Did Not Run

DATA SHEET NO. 16

FMVSS 301 FUEL SYSTEM INTEGRITY POST IMPACT DATA

Test Vehicle: 2005 Acura RL 4-Door Sedan

NHTSA No.: H55301

Test Program: 55/28 km/h Side Impact NCAP

Test Date: 10/26/04

Test Time: 1:38 PM

Temperature: 13.3 Deg. C.

Stoddard Solvent Spillage Measurements

- A. From impact until vehicle motion ceases: 0.0 oz.
(Maximum Allowable = 1 ounce)
- B. For the 5 minute period after motion ceases: 0.0 oz.
(Maximum Allowable = 5 ounces)
- C. For the following 25 minutes: 0.0 oz.
(Maximum Allowable = 1 oz./minute)
- D. Spillage Details: No leakage occurred

DATA SHEET NO. 17

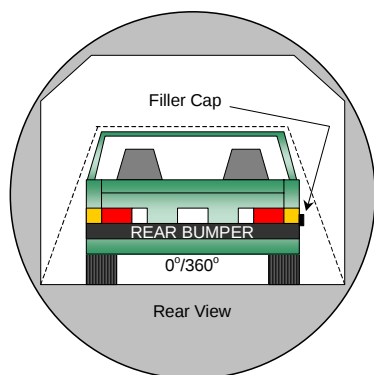
FMVSS 301 STATIC ROLLOVER DATA SHEET

Test Vehicle: 2005 Acura RL 4-Door Sedan

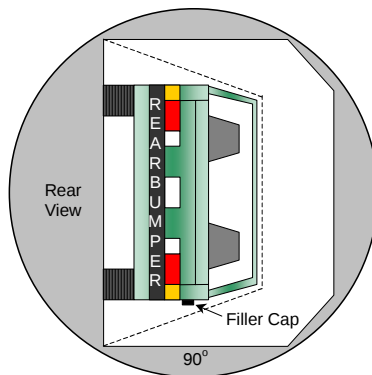
NHTSA No.: H55301

Test Program: 55/28 km/h Side Impact NCAP

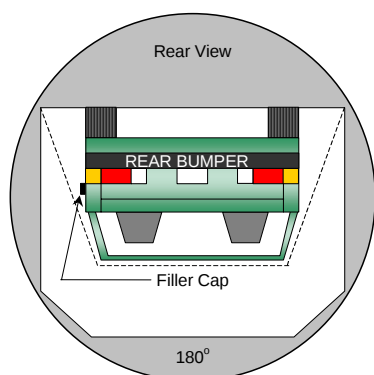
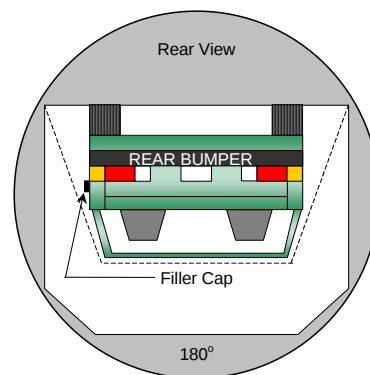
Test Date: 10/26/04



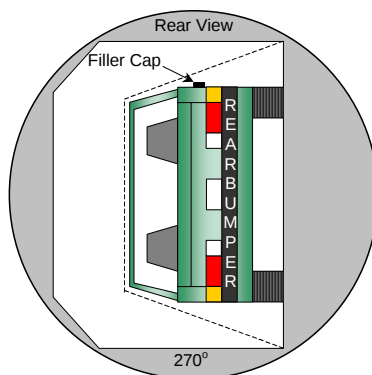
0° TO 90°



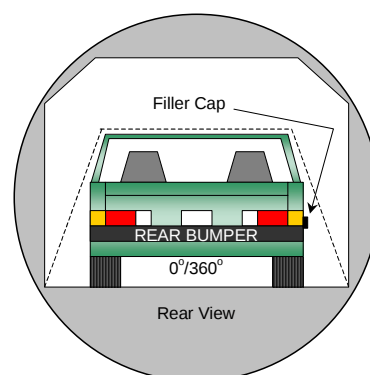
90° TO 180°



180° TO 270°



270° TO 360°



1. The specified fixture rollover rate for each 90° of rotation is 60 to 120 seconds.
2. The position hold time at each position is 300 seconds (minimum).
3. Details of Stoddard Solvent spillage locations.

No solvent leakage occurred during static rollover testing.

DATA SHEET NO. 17...(CONTINUED)
FMVSS 301 STATIC ROLLOVER DATA SHEET

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: H55301
 Test Date: 10/26/04

SOLVENT COLLECTION TIME TABLE IN SECONDS

Test Phase	Rotation Time	Hold Time	Total Time
0° to 90°	81	300	381
90° to 180°	76	300	376
180° to 270°	78	300	378
270° to 360°	79	300	379

FMVSS 301 SPILLAGE TABLE REQUIREMENT (oz.)

First 5 Minutes	5.0
Sixth Minute	1.0
Seventh Minute	1.0
Eighth Minute	1.0

Test Phase	First 5 Minutes	Sixth Minute	Seventh Minute	Eighth Minute
0° to 90°	0	0	0	0
90° to 180°	0	0	0	0
180° to 270°	0	0	0	0
270° to 360°	0	0	0	0

SOLVENT SPILLAGE LOCATION TABLE

Test Phase	Spillage Location
0° to 90°	None
90° to 180°	None
180° to 270°	None
270° to 360°	None

APPENDIX A
PHOTOGRAPHS

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A-37	Driver Dummy Left Side, Post-Test	A-37
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A-39	Driver Dummy Clearance from Door, Post-Test	A-39
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Figure A-1: Left Front, as Received



Figure A-2: Right Rear, as Received

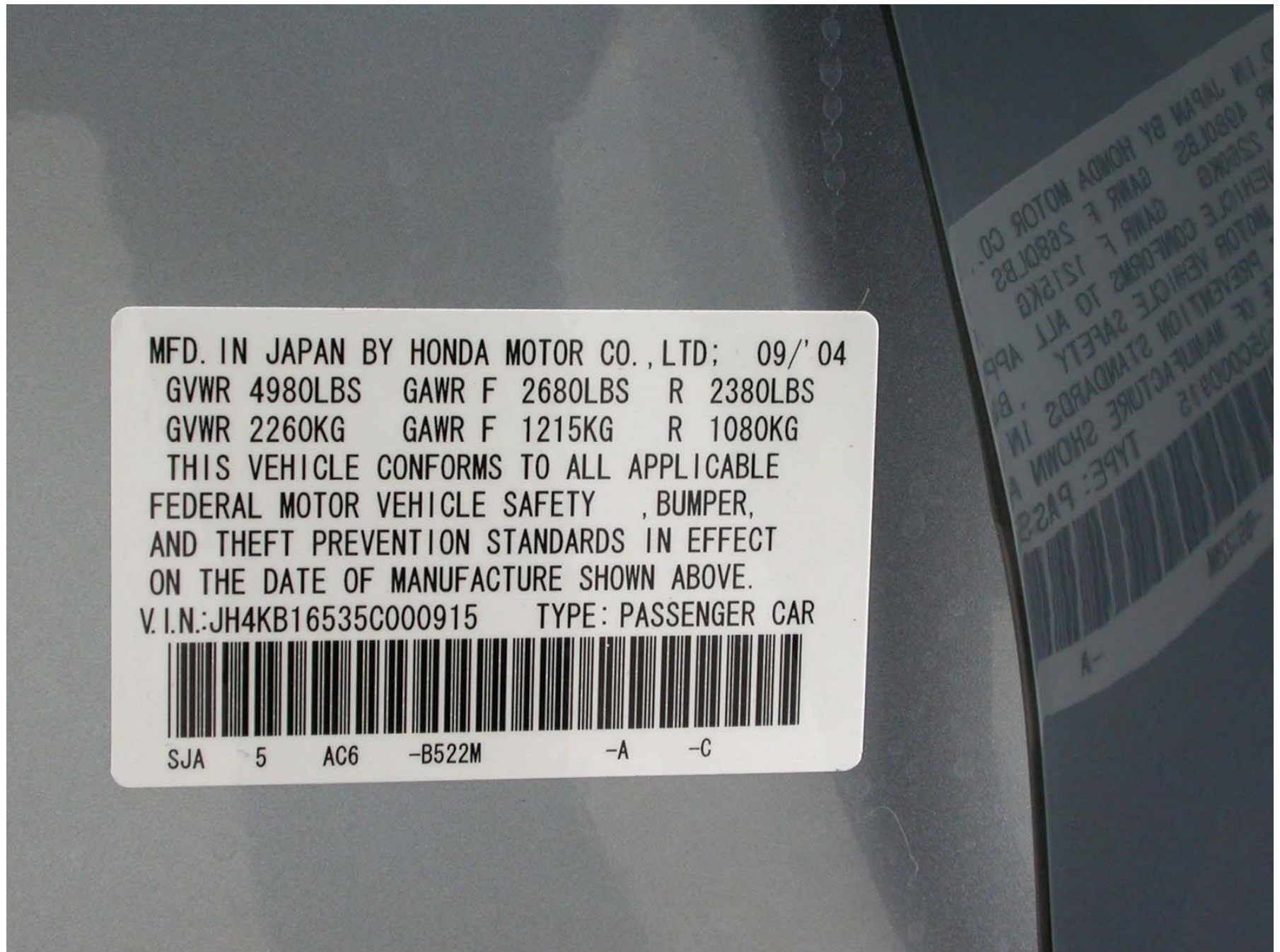


Figure A-3: Manufacturer's Label

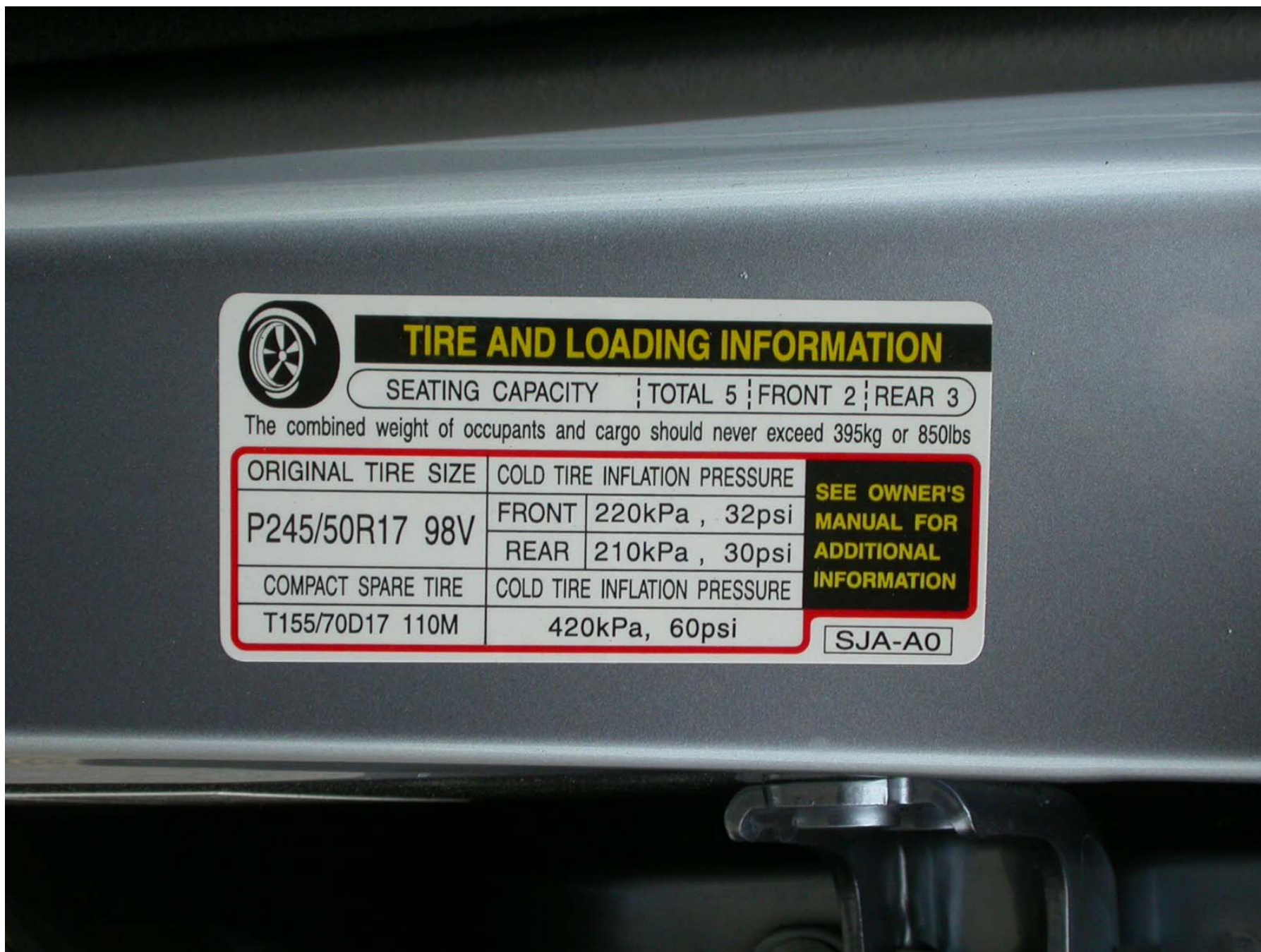


Figure A-4: Tire Placard



Figure A-5: Front View, Pre-Test



Figure A-6: Front View, Post-Test



Figure A-7: Left Front $\frac{3}{4}$ View, Pre-Test



Figure A-8: Left Front 3/4 View, Post-Test



Figure A-9: Left (Impacted) Side View, Pre-Test



Figure A-10: Left (Impacted) Side View, Post-Test



Figure A-11: Left Rear $\frac{3}{4}$ View, Pre-Test



Figure A-12: Left Rear $\frac{3}{4}$ View, Post-Test



Figure A-13: Rear View, Pre-Test



Figure A-14: Rear View, Post-Test



Figure A-15: Right Rear $\frac{3}{4}$ View, Pre-Test



Figure A-16: Right Rear $\frac{3}{4}$ View, Post-Test



Figure A-17: Right Side View, Pre-Test



Figure A-18: Right Side View, Post-Test



Figure A-19: Right Front $\frac{3}{4}$ View, Pre-Test



Figure A-20: Right Front $\frac{3}{4}$ View, Post-Test



Figure A-21: Overhead View, Pre-Test

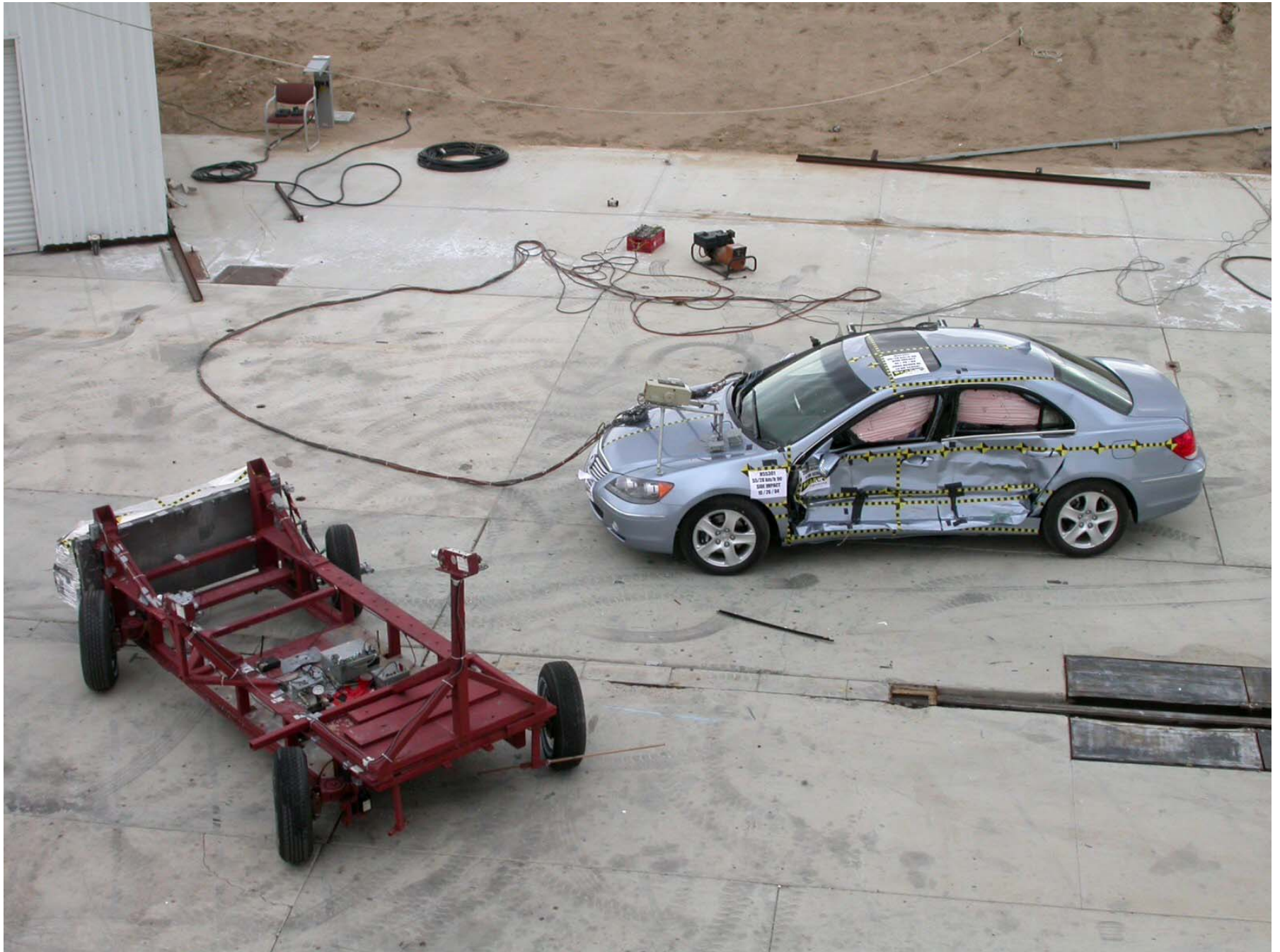


Figure A-22: Overhead View, Post-Test

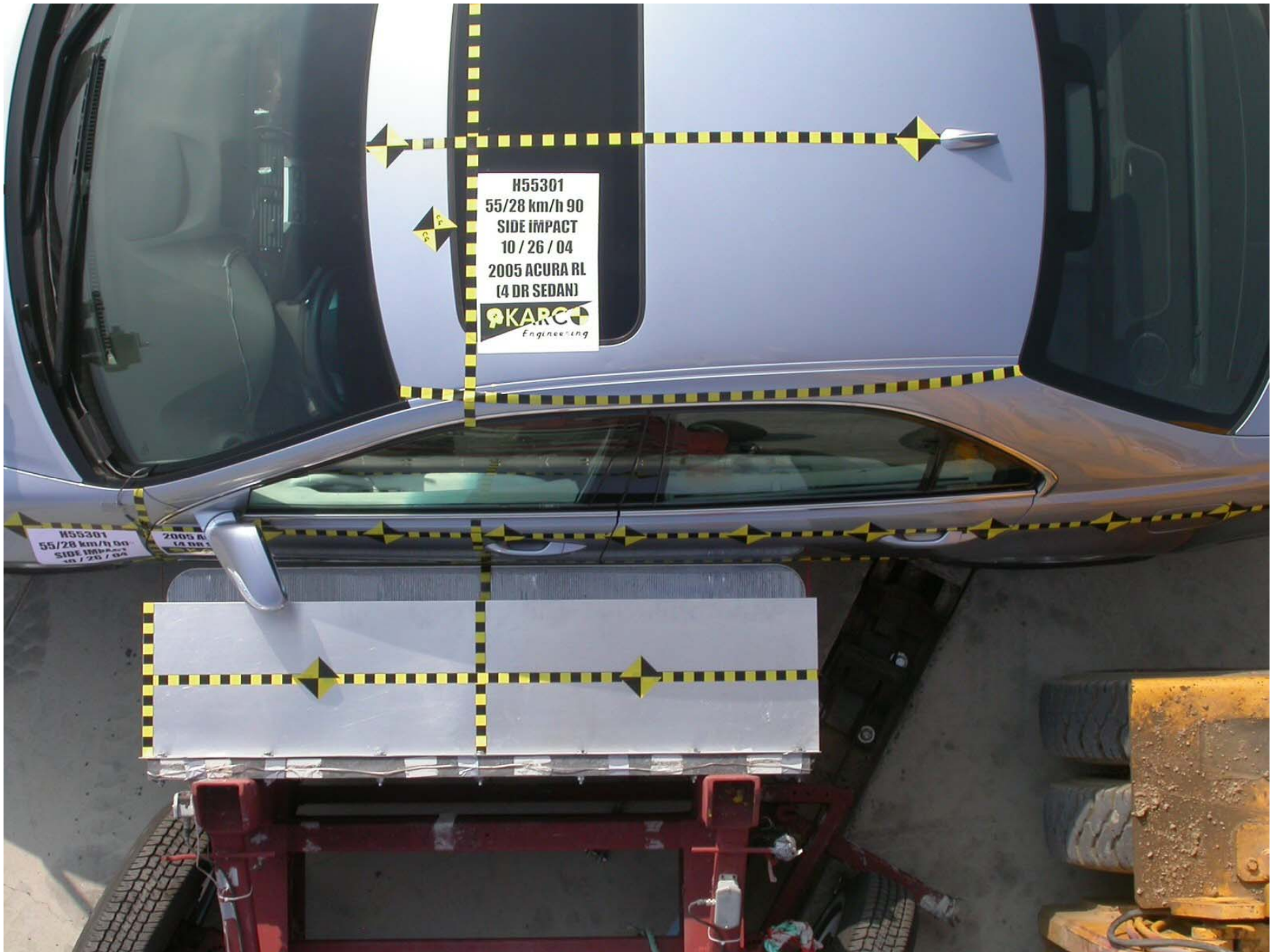


Figure A-23: Overhead Close-up View, Pre-Test

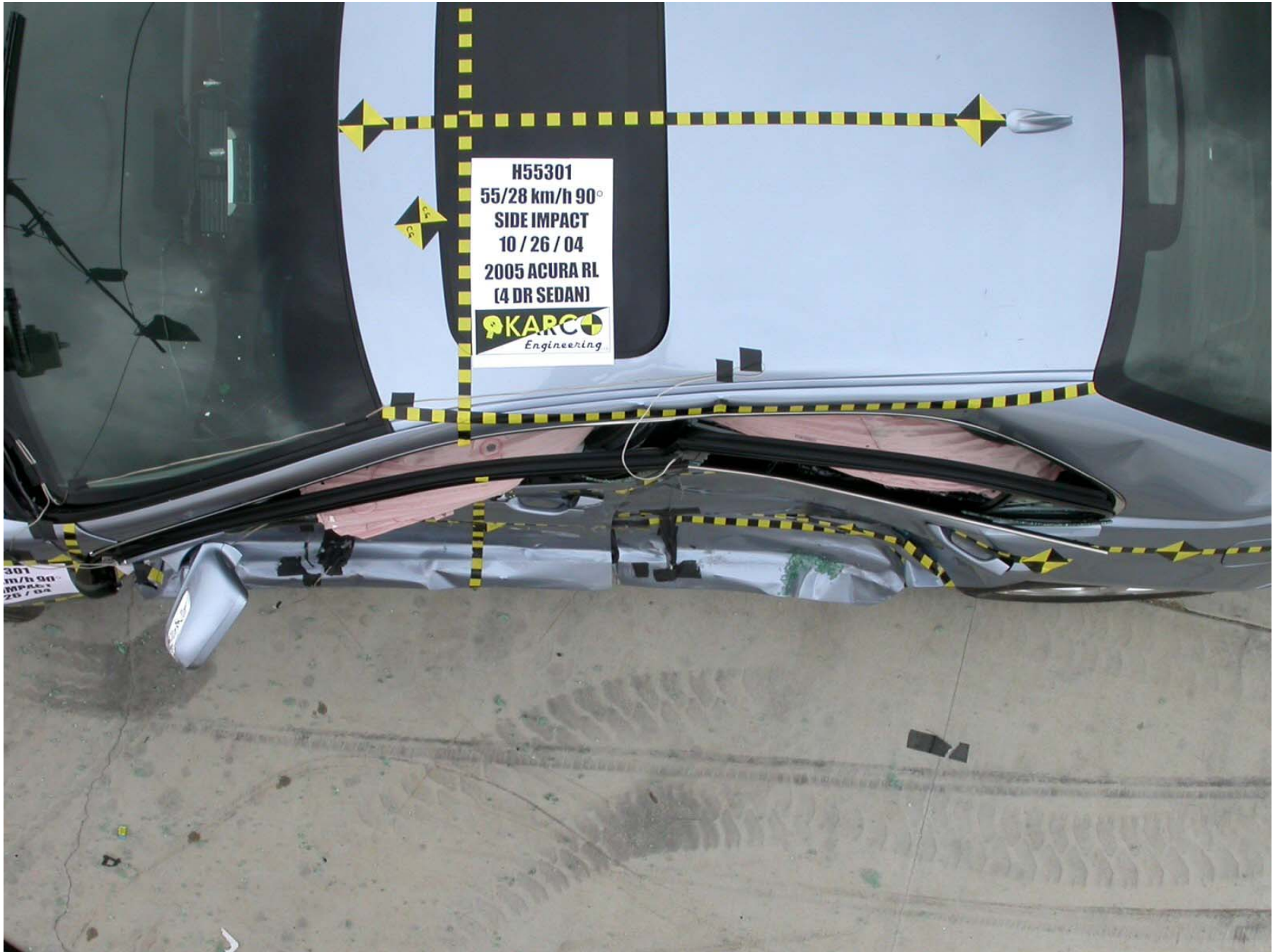


Figure A-24: Overhead Close-up View, Post-Test



Figure A-25: Impact Point, Pre-Test



Figure A-26: Impact Point, Post-Test



Figure A-27: Front $\frac{3}{4}$ View of Left Side Doors, Pre-Test



Figure A-28: Front $\frac{3}{4}$ View of Left Side Doors, Post-Test



Figure A-29: Rear $\frac{3}{4}$ View of Left Side Doors, Pre-Test



Figure A-30: Rear ¾ View of Left Side Doors, Post-Test



Figure A-31: Left Front Door Closed, Pre-Test



Figure A-32: Left Front Door Closed, Post-Test



Figure A-33: Left Rear Door Closed, Pre-Test



Figure A-34: Left Rear Door Closed, Post-Test



Figure A-35: Driver Dummy Left Side with Door Open, Pre-Test



Figure A-36: Driver Dummy Left Side, Pre-test



Figure A-37: Driver Dummy Left Side, Post-Test



Figure A-38: Driver Dummy Clearance From Door, Pre-Test



Figure A-39: Driver Dummy Clearance From Door, Post-Test



Figure A-40: Driver Dummy Inside View, Pre-Test



Figure A-41: Driver Dummy Inside View, Post-Test



Figure A-42: Driver Door Inside View, Pre-Test



Figure A-43: Driver Dummy Contact Points, Post-Test (Vehicle Moved)



Figure A-44: Passenger Dummy Left Side with Door Open, Pre-Test



Figure A-45: Passenger Dummy Left Side, Pre-Test



Figure A-46: Passenger Dummy Left Side, Post-Test



Figure A-47: Passenger Dummy Clearance From Door , Pre-Test



Figure A-48: Passenger Dummy Clearance From Door, Post-Test



Figure A-49: Passenger Dummy Inside View, Pre-Test



Figure A-50: Passenger Dummy Inside View, Post-Test



Figure A-51: Passenger Door Inside View, Pre-Test



Figure A-52: Passenger Dummy Contact Points, Post-Test (Vehicle Moved)



Figure A-53: Front View of Deformable Barrier, Pre-Test



Figure A-54: Front View of Deformable Barrier, Post-Test

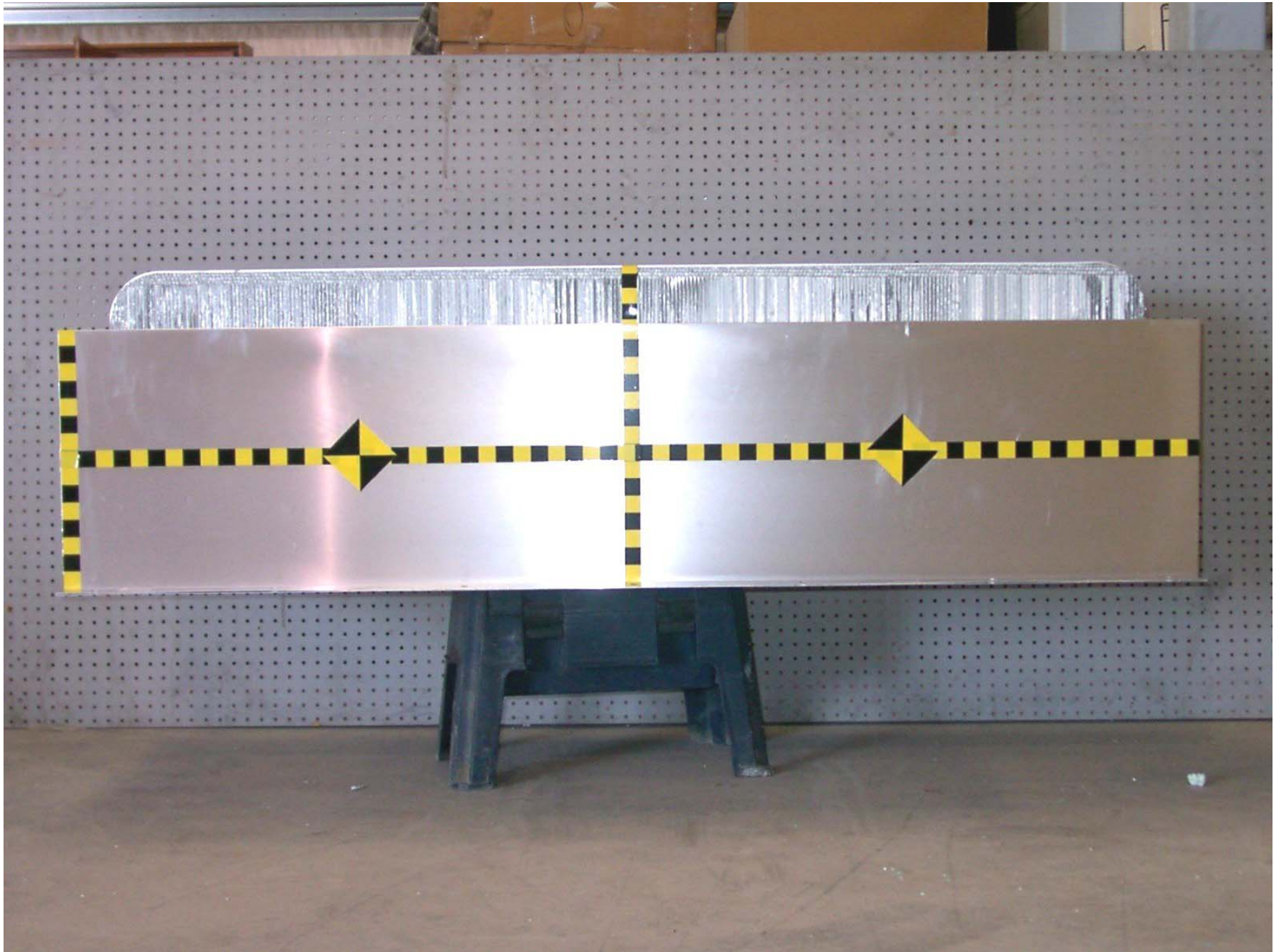


Figure A-55: Top View of Deformable Barrier, Pre-Test



Figure A-56: Top View of Deformable Barrier, Post-Test



Figure A-57: Right Side View of Deformable Barrier, Pre-Test



Figure A-58: Right Side View of Deformable Barrier, Post-Test



Figure A-59: Left Side View of Deformable Barrier, Pre-Test



Figure A-60: Left Side View of Deformable Barrier, Post-Test



Figure A-61: Vehicle on Rollover Device (0°)



Figure A-62: Vehicle on Rollover Device (90°)



Figure A-63: Vehicle on Rollover Device (180°)

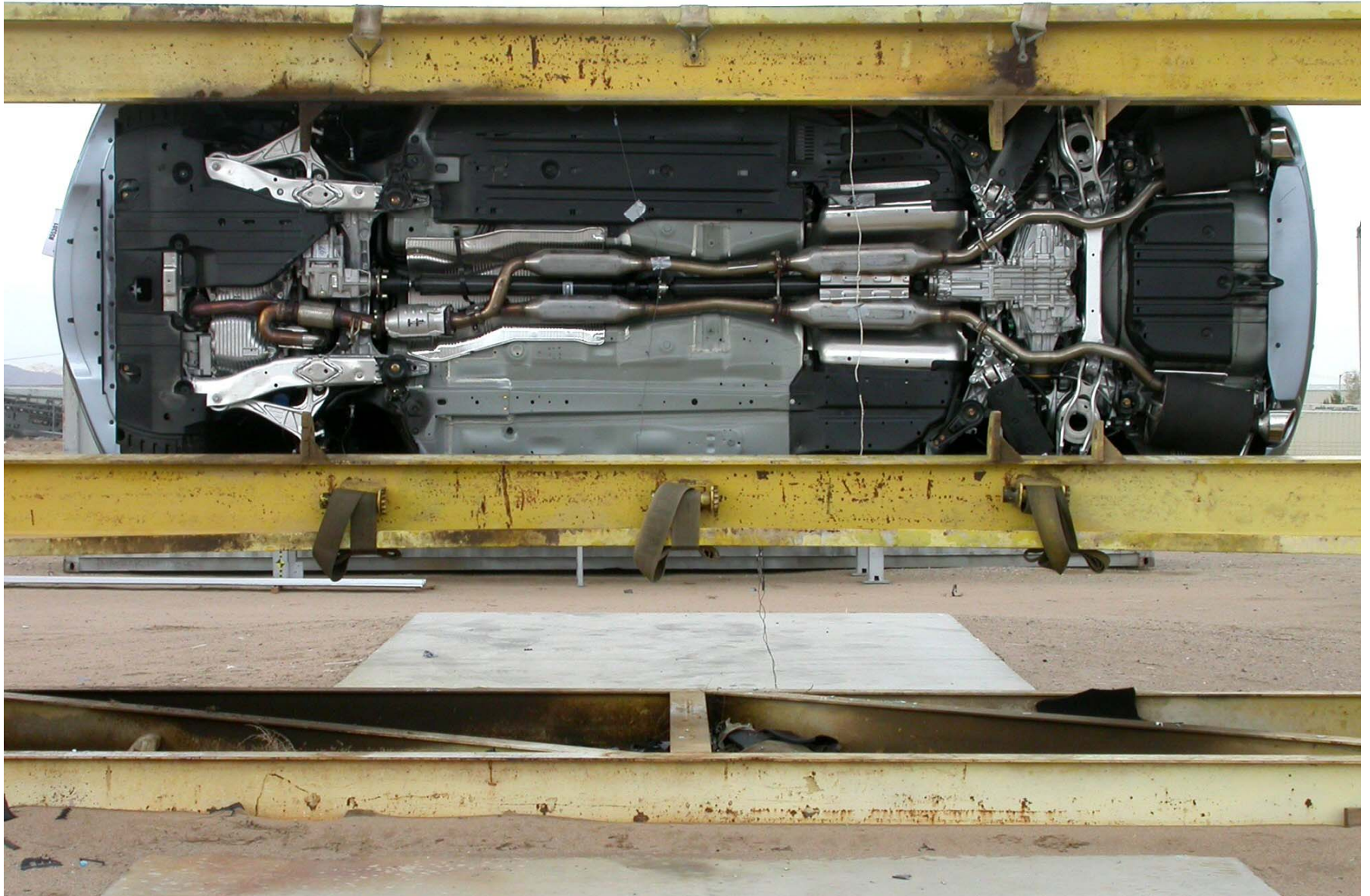


Figure A-64: Vehicle on Rollover Device (270°)



Figure A-65: Vehicle Impact

APPENDIX B

SID/HIII, VEHICLE AND MDB RESPONSE DATA

LIST OF DATA PLOTS

Data Plot	Page
B-1	Driver Head X Primary
	Driver Head Y Primary
	Driver Head Z Primary
	Driver Head Resultant Primary
B-2	Driver Head Primary X Velocity
	Driver Head Primary Y Velocity
	Driver Head Primary Z Velocity
B-3	Driver Head X Redundant
	Driver Head Y Redundant
	Driver Head Z Redundant
	Driver Head Resultant Redundant
B-4	Driver Head Redundant X Velocity
	Driver Head Redundant Y Velocity
	Driver Head Redundant Z Velocity
B-5	Driver Upper Neck Force X
	Driver Upper Neck Force Y
	Driver Upper Neck Force Z
	Driver Upper Neck Force Resultant
B-6	Driver Upper Neck Moment X
	Driver Upper Neck Moment Y
	Driver Upper Neck Moment Z
	Driver Upper Neck Moment Resultant
B-7	Driver Upper Rib Primary Y
	Driver Lower Rib Primary Y
	Driver Lower Spine Primary Y
	Driver Pelvis Primary Y
B-8	Driver Upper Rib Primary Y Velocity
	Driver Lower Rib Primary Y Velocity
	Driver Lower Spine Primary Y Velocity
	Driver Pelvis Primary Y Velocity
B-9	Driver Upper Rib Redundant Y
	Driver Lower Rib Redundant Y
	Driver Lower Spine Redundant Y
	Driver Pelvis Redundant Y

LIST OF DATA PLOTS...(CONTINUED)

Data Plot		Page
B-10	Driver Upper Rib Redundant Y Velocity	B-10
	Driver Lower Rib Redundant Y Velocity	B-10
	Driver Lower Spine Redundant Y Velocity	B-10
	Driver Pelvis Redundant Y Velocity	B-10
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	Driver Pelvis Contact	B-11
B-12	Passenger Head X Primary	B-12
	Passenger Head Y Primary	B-12
	Passenger Head Z Primary	B-12
	Passenger Head Resultant Primary	B-12
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	Passenger Head Primary Y Velocity	B-13
	Passenger Head Primary Z Velocity	B-13
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	Passenger Head Resultant Redundant	B-14
B-15	Passenger Head Redundant X Velocity	B-15
	Passenger Head Redundant Y Velocity	B-15
	Passenger Head Redundant Z Velocity	B-15
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	Passenger Upper Neck Force Y	B-16
	Passenger Upper Neck Force Z	B-16
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B-17	Passenger Upper Neck Moment X	B-17
	Passenger Upper Neck Moment Y	B-17
	Passenger Upper Neck Moment Z	B-17
	Passenger Upper Neck Moment Resultant	B-17
B-18	Passenger Upper Rib Primary Y	B-18
	Passenger Lower Rib Primary Y	B-18
	Passenger Lower Spine Primary Y	B-18
	Passenger Pelvis Primary Y	B-18

LIST OF DATA PLOTS...(CONTINUED)

Data Plot	Page
B-19	Passenger Upper Rib Primary Y Velocity
	Passenger Lower Rib Primary Y Velocity
	Passenger Lower Spine Primary Y Velocity
	Passenger Pelvis Primary Y Velocity
B-20	Passenger Upper Rib Redundant Y
	Passenger Lower Rib Redundant Y
	Passenger Lower Spine Redundant Y
	Passenger Pelvis Redundant Y
B-21	Passenger Upper Rib Redundant Y Velocity
	Passenger Lower Rib Redundant Y Velocity
	Passenger Lower Spine Redundant Y Velocity
	Passenger Pelvis Redundant Y Velocity
B-22	Passenger Thorax Contact
	Passenger Pelvis Contact
B-23	Vehicle Right Sill at Front Seat X
	Vehicle Right Sill at Front Seat Y
	Vehicle Right Sill at Front Seat Z
	Vehicle Right Sill Front Seat Resultant
B-24	Vehicle Right Sill at Front Seat X Velocity
	Vehicle Right Sill at Front Seat Y Velocity
	Vehicle Right Sill at Front Seat Z Velocity
B-25	Vehicle Right Sill at Rear Seat X
	Vehicle Right Sill at Rear Seat Y
	Vehicle Right Sill at Rear Seat Z
	Vehicle Right Sill Rear Seat Resultant
B-26	Vehicle Right Sill at Rear Seat X Velocity
	Vehicle Right Sill at Rear Seat Y Velocity
	Vehicle Right Sill at Rear Seat Z Velocity
B-27	Vehicle Rear Floor Above Axle X
	Vehicle Rear Floor Above Axle Y
	Vehicle Rear Floor Above Axle Z
	Vehicle Rear Floor Above Axle Resultant
B-28	Vehicle Rear Floor Above Axle X Velocity
	Vehicle Rear Floor Above Axle Y Velocity
	Vehicle Rear Floor Above Axle Z Velocity

LIST OF DATA PLOTS...(CONTINUED)

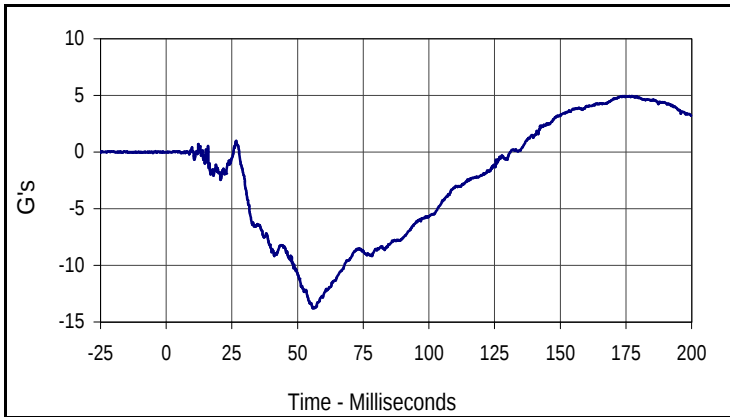
Data Plot	Page
B-29	Vehicle Left Sill at Rear Door Y
	Vehicle Left Sill at Front Door Y
	Vehicle Left Sill at Rear Door Y Velocity
	Vehicle Left Sill at Front Door Y Velocity
B-30	Vehicle Left Front Door CL Y
	Vehicle Right Rear Occupant Compartment
	Vehicle Left Front Door Mid Rear Y
	Vehicle Left Front Door Upper CL Y
B-31	Vehicle Left Front Door CL Y Velocity
	Vehicle Right Rear Occupant Compartment Y Velocity
	Vehicle Left Front Door Mid Rear Y Velocity
	Vehicle Left Rear Door Upper CL Y Velocity
B-32	Vehicle Left Rear Door Mid Rear Y
	Vehicle Left Rear Door Upper C/L Y
	Vehicle Left Rear Door Mid Rear Y Velocity
	Vehicle Left Rear Door Upper CL Y Velocity
B-33	Vehicle B-Post Lower Y
	Vehicle B-Post Middle Y
	Vehicle B-Post Lower Y Velocity
	Vehicle B-Post Middle Y Velocity
B-34	Vehicle A-Post Lower Y
	Vehicle A-Post Middle Y
	Vehicle A-Post Lower Y Velocity
	Vehicle A-Post Middle Y Velocity
B-35	Vehicle Left Front Seat Track
	Vehicle Rear Seat Structure
	Vehicle Left Front Seat Track Y Velocity
	Vehicle Rear Seat Structure Y Velocity
B-36	Vehicle CG X
	Vehicle CG Y
	Vehicle CG Z
	Vehicle CG Resultant
B-37	Vehicle CG X Velocity
	Vehicle CG Y Velocity
	Vehicle CG Z Velocity

LIST OF DATA PLOTS...(CONTINUED)

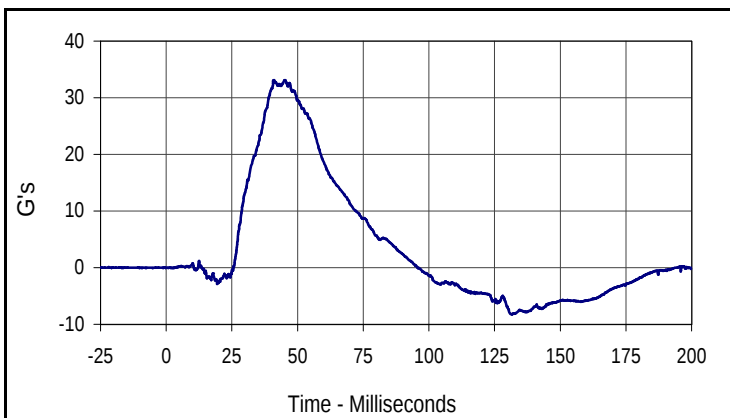
Data Plot	Page
B-38	Driver Upper Rib Primary Y
	Driver Lower Rib Primary Y
	Driver Lower Spine Primary Y
	Driver Pelvis Primary Y
B-39	Driver Upper Rib Redundant Y
	Driver Lower Rib Redundant Y
	Driver Lower Spine Redundant Y
	Driver Pelvis Redundant Y
B-40	Passenger Upper Rib Primary Y
	Passenger Lower Rib Primary Y
	Passenger Lower Spine Primary Y
	Passenger Pelvis Primary Y
B-41	Passenger Upper Rib Redundant Y
	Passenger Lower Rib Redundant Y
	Passenger Lower Spine Redundant Y
	Passenger Pelvis Redundant Y
B-42	MDB CG X
	MDB CG Y
	MDB CG Z
	MDB CG Resultant
B-43	MDB CG X Velocity
	MDB CG Y Velocity
	MDB CG Z Velocity
B-44	MDB Rear X
	MDB Rear Y
	MDB Rear X Velocity
	MDB Rear Y Velocity
B-45	MDB Right Bumper Contact

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

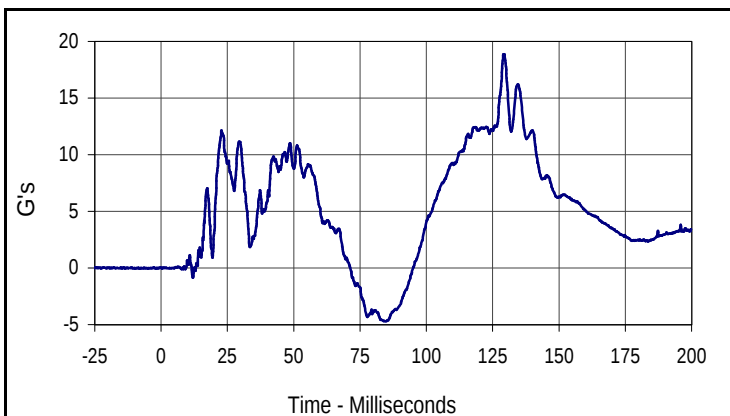
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 NHTSA No.: H55301



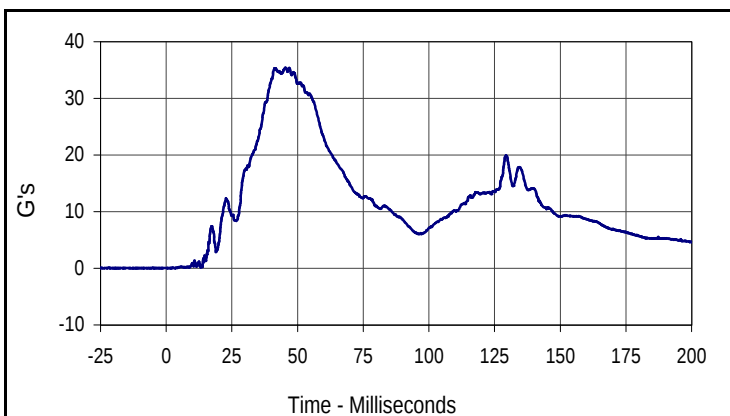
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Max	Time	Min	Time
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Max	Time	Min	Time
33.1	45.3	-8.2	131.6



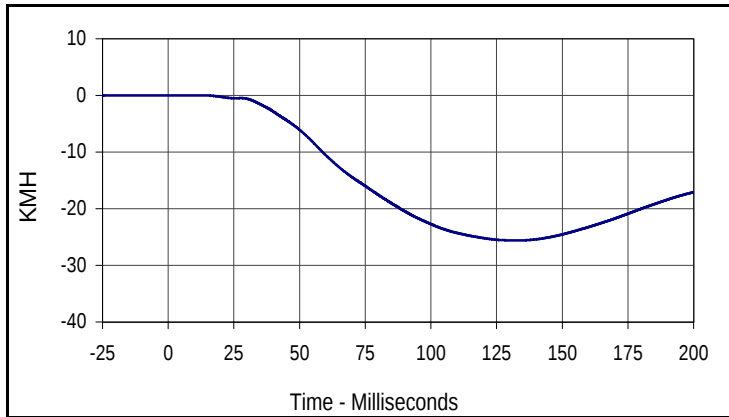
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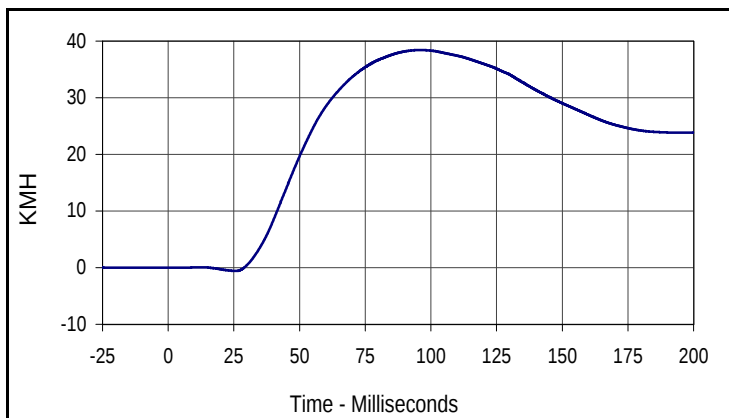
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Driver Head Resultant Primary			
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Max	Time	Min	Time
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Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

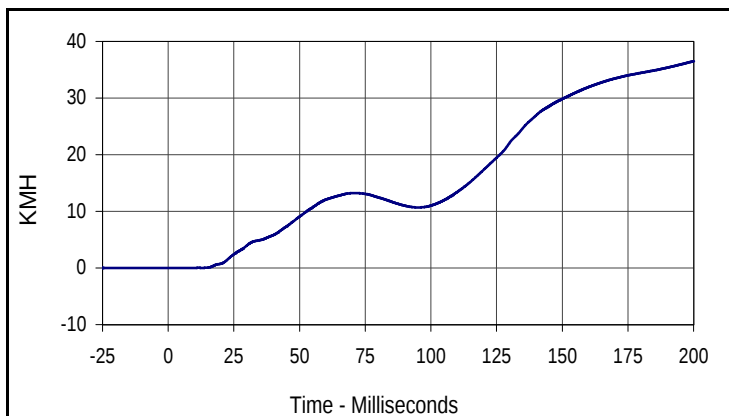
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 NHTSA No.: H55301



Curve Description			
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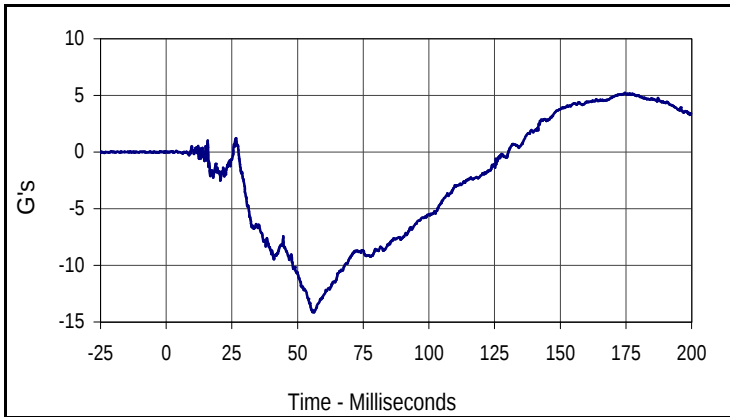
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Max	Time	Min	Time
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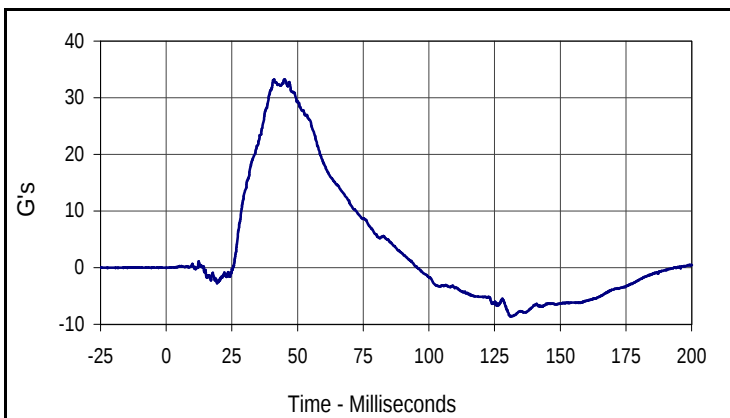
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Driver Head Primary Z Velocity			
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Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

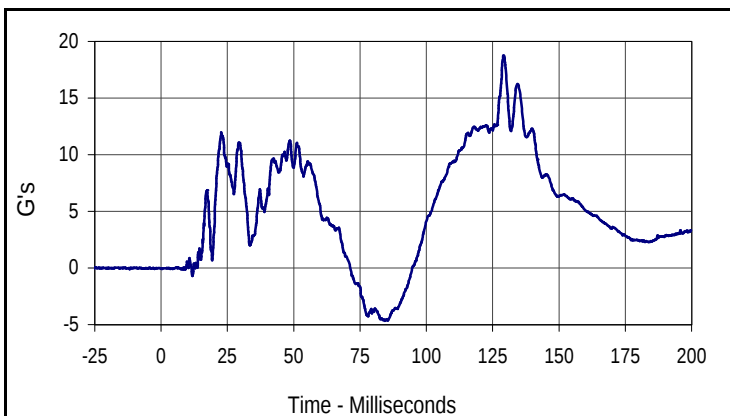
Test Date: 10/26/04
 NHTSA No.: H55301



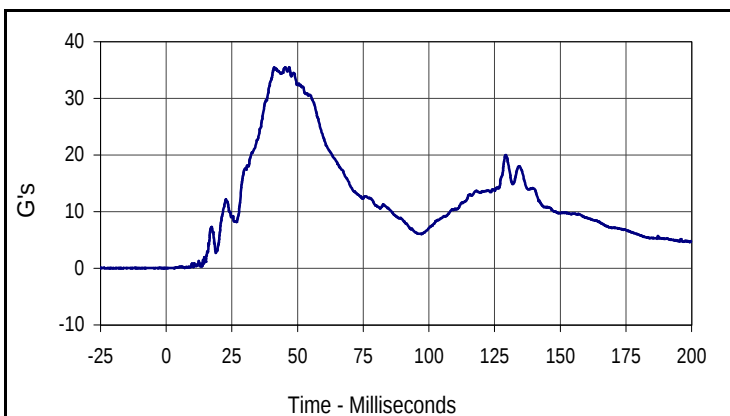
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Max	Time	Min	Time
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Curve Description			
Driver Head Y Redundant			
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Max	Time	Min	Time
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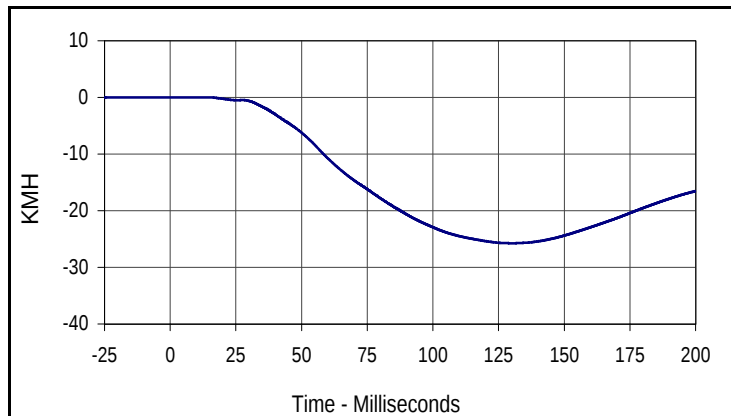
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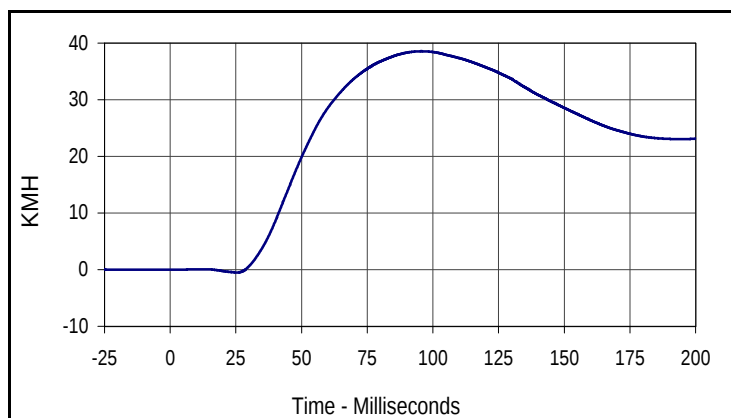
Curve Description			
Driver Head Resultant Redundant			
CURNO	Type	SAE Class	Units
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Max	Time	Min	Time
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Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

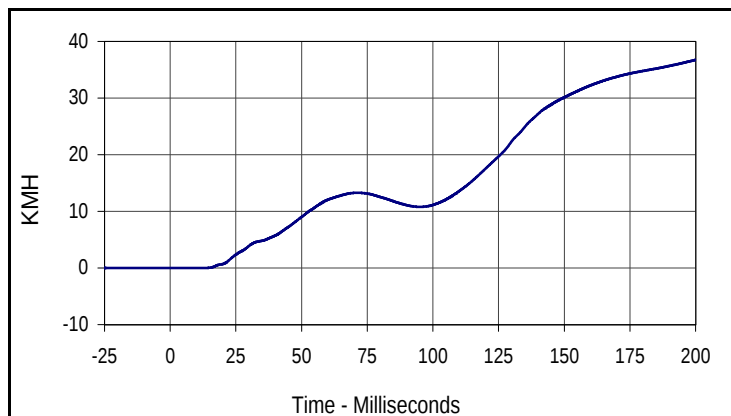
Test Date: 10/26/04
 NHTSA No.: H55301



Curve Description			
Driver Head Redundant X Velocity			
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004	IN1	180	KMH
Max	Time	Min	Time
0.0	12.2	-25.8	130.3



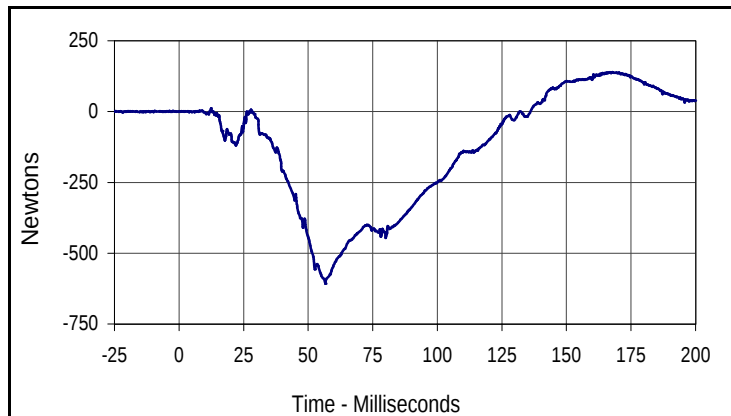
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Driver Head Redundant Y Velocity			
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005	IN1	180	KMH
Max	Time	Min	Time
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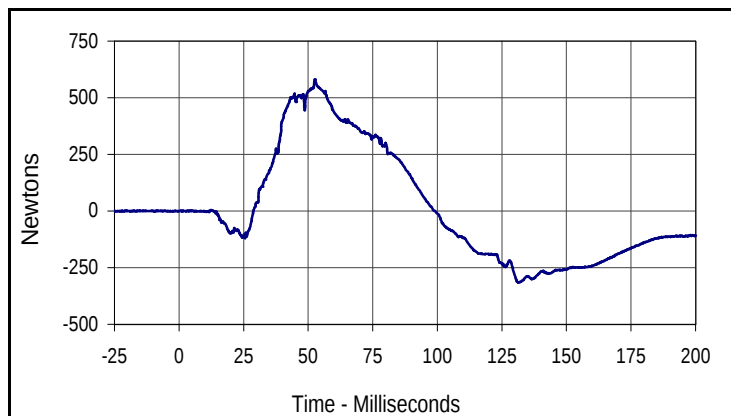
Curve Description			
Driver Head Redundant Z Velocity			
CURNO	Type	SAE Class	Units
006	IN1	180	KMH
Max	Time	Min	Time
36.7	200.0	0.0	9.0

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

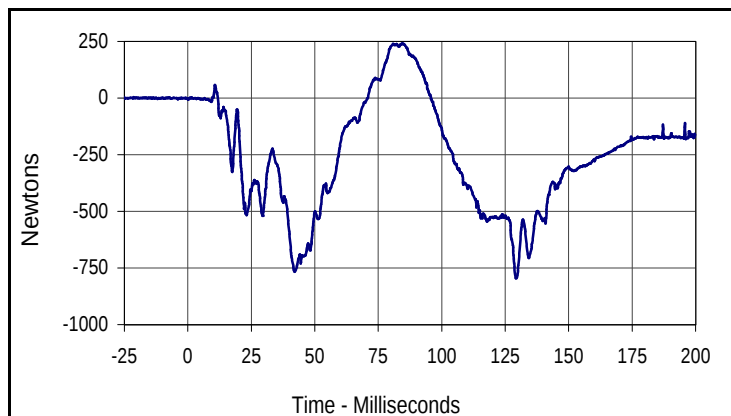
Test Date: 10/26/04
 NHTSA No.: H55301



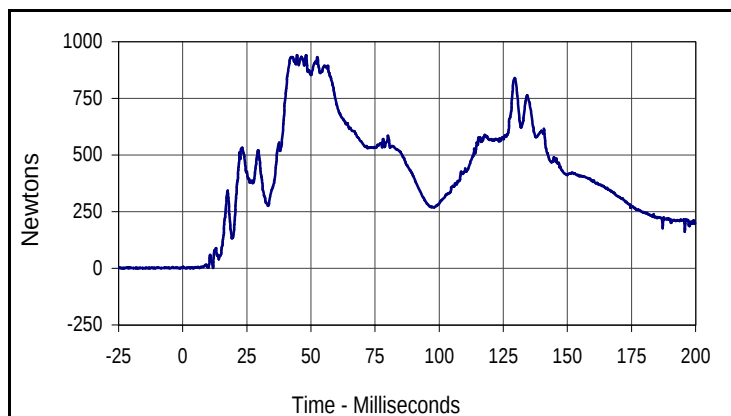
Curve Description			
Driver Upper Neck Force X			
CURNO	Type	SAE Class	Units
007	FIL	1000	Newtons
Max	Time	Min	Time
139.5	166.9	-607.3	56.6



Curve Description			
Driver Upper Neck Force Y			
CURNO	Type	SAE Class	Units
008	FIL	1000	Newtons
Max	Time	Min	Time
581.0	52.5	-316.0	131.4



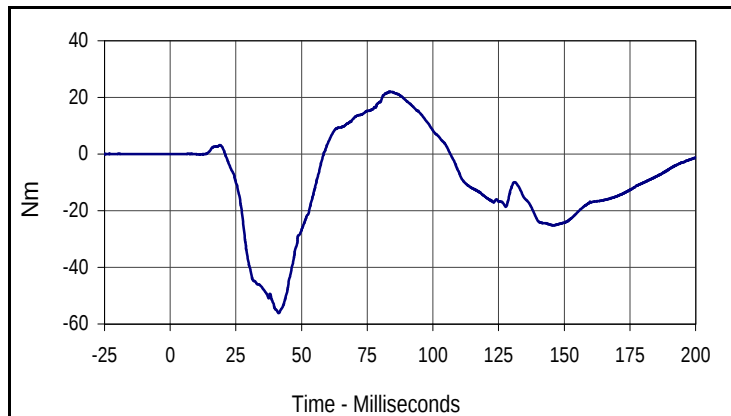
Curve Description			
Driver Upper Neck Force Z			
CURNO	Type	SAE Class	Units
009	FIL	1000	Newtons
Max	Time	Min	Time
240.8	84.8	-795.8	129.5



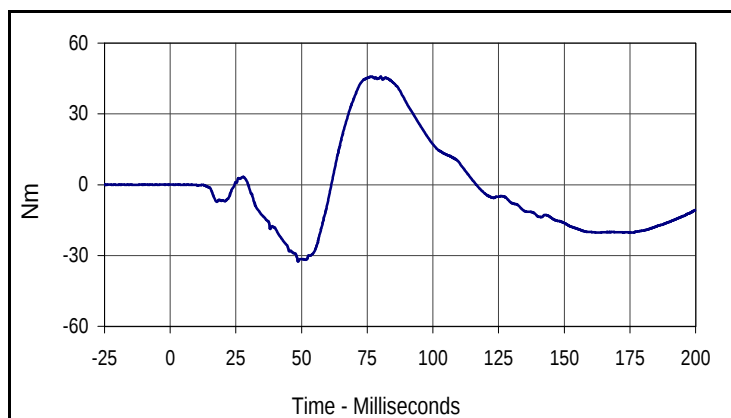
Curve Description			
Driver Upper Neck Force Resultant			
CURNO	Type	SAE Class	Units
007	RES	1000	Newtons
Max	Time	Min	Time
941.4	48.1	0.4	1.3

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

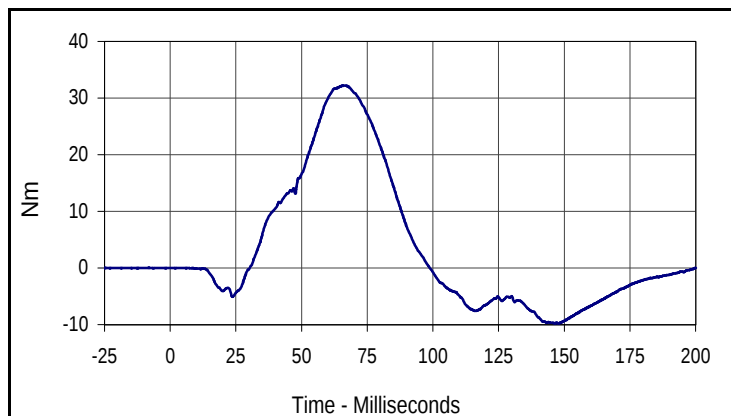
Test Date: 10/26/04
 NHTSA No.: H55301



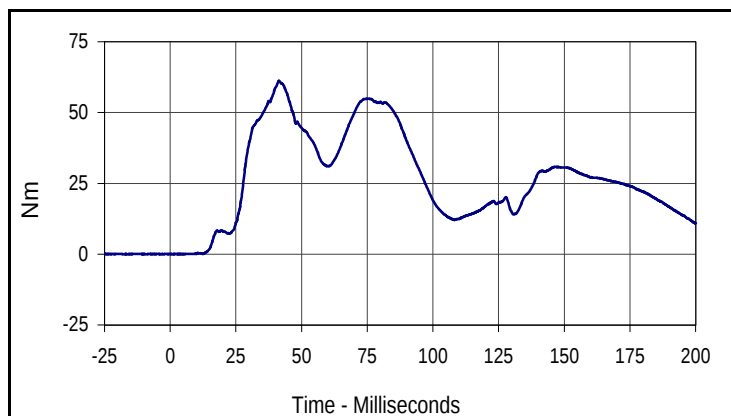
Curve Description			
Driver Upper Neck Moment X			
CURNO	Type	SAE Class	Units
010	FIL	600	Nm
Max	Time	Min	Time
22.0	83.6	-56.2	41.3



Curve Description			
Driver Upper Neck Moment Y			
CURNO	Type	SAE Class	Units
011	FIL	600	Nm
Max	Time	Min	Time
45.8	76.5	-32.5	48.7



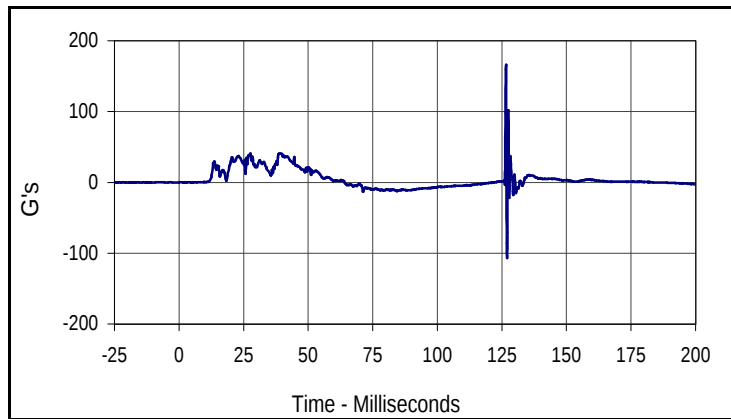
Curve Description			
Driver Upper Neck Moment Z			
CURNO	Type	SAE Class	Units
012	FIL	600	Nm
Max	Time	Min	Time
32.2	66.3	-9.8	146.5



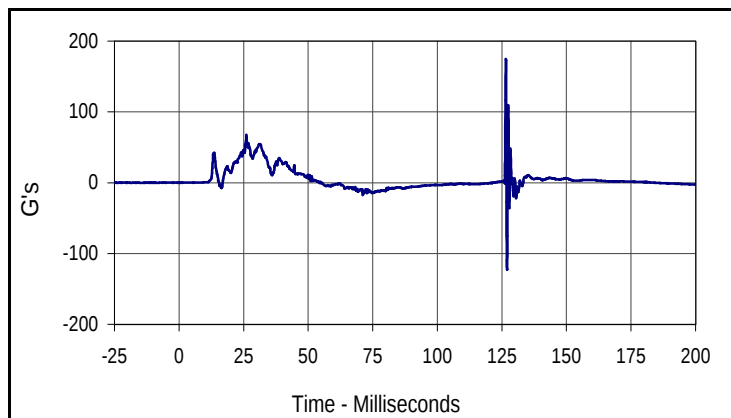
Curve Description			
Driver Upper Neck Moment Resultant			
CURNO	Type	SAE Class	Units
010	RES	600	Nm
Max	Time	Min	Time
61.2	41.4	0.0	5.2

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

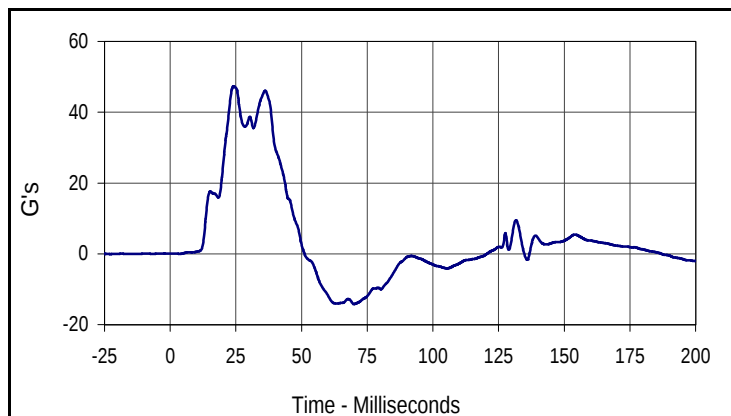
Test Date: 10/26/04
 NHTSA No.: H55301



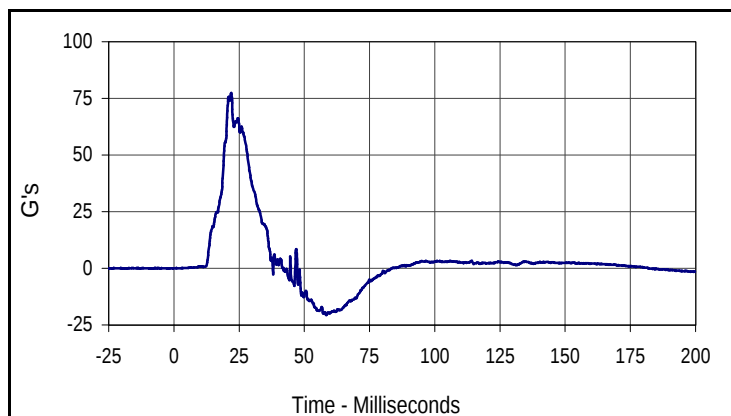
Curve Description			
Driver Upper Rib Primary Y			
CURNO	Type	SAE Class	Units
013	FIL	1000	G's
Max	Time	Min	Time
165.8	126.6	-106.9	127.0



Curve Description			
Driver Lower Rib Primary Y			
CURNO	Type	SAE Class	Units
014	FIL	1000	G's
Max	Time	Min	Time
174.9	126.5	-122.2	127.0



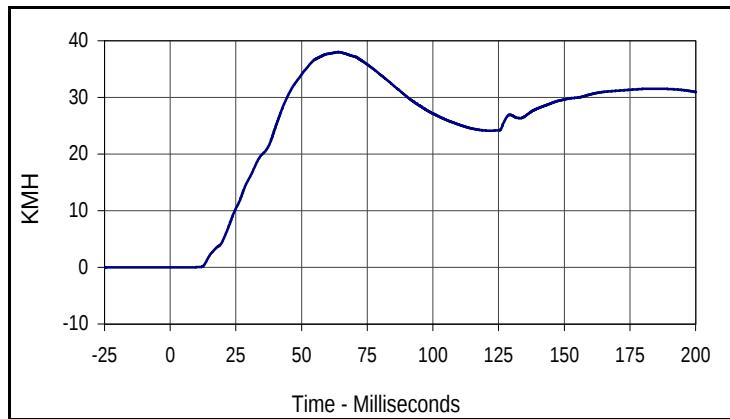
Curve Description			
Driver Lower Spine Primary Y			
CURNO	Type	SAE Class	Units
015	FIL	180	G's
Max	Time	Min	Time
47.3	24.1	-14.2	69.9



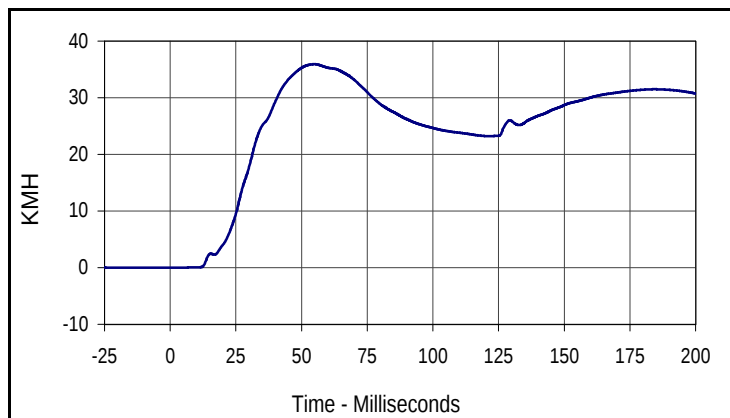
Curve Description			
Driver Pelvis Primary Y			
CURNO	Type	SAE Class	Units
016	FIL	1000	G's
Max	Time	Min	Time
77.3	22.0	-20.6	58.4

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

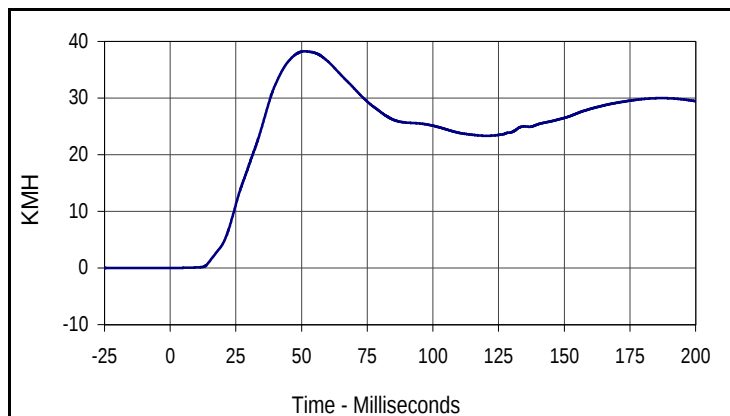
Test Date: 10/26/04
 NHTSA No.: H55301



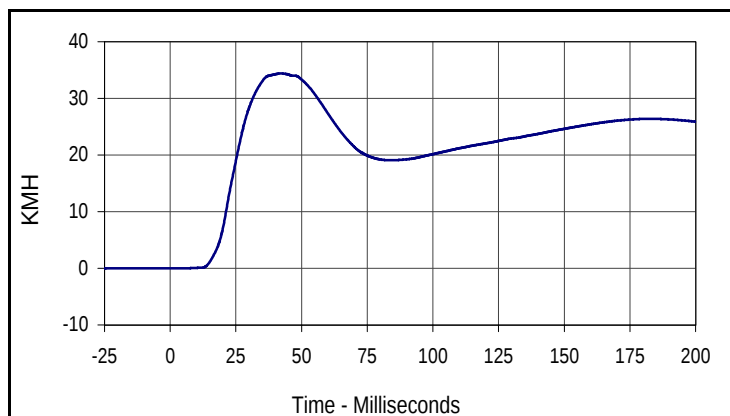
Curve Description			
Driver Upper Rib Primary Y Velocity			
CURNO	Type	SAE Class	Units
013	IN1	180	KMH
Max	Time	Min	Time
38.0	64.0	0.0	0.0



Curve Description			
Driver Lower Rib Primary Y Velocity			
CURNO	Type	SAE Class	Units
014	IN1	180	KMH
Max	Time	Min	Time
35.9	54.8	0.0	0.0



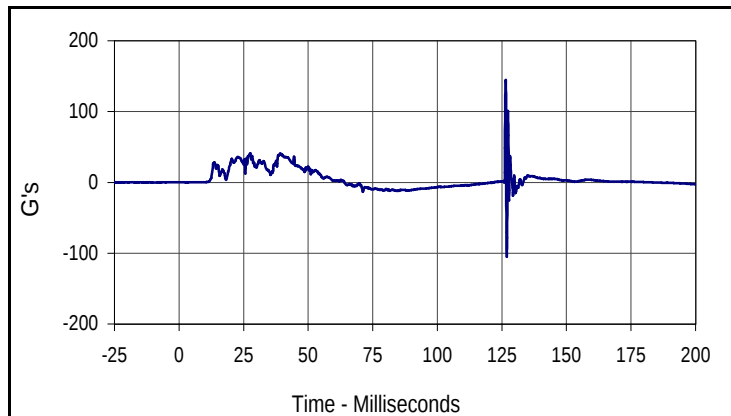
Curve Description			
Driver Lower Spine Primary Y Velocity			
CURNO	Type	SAE Class	Units
015	IN1	180	KMH
Max	Time	Min	Time
38.2	51.1	0.0	0.0



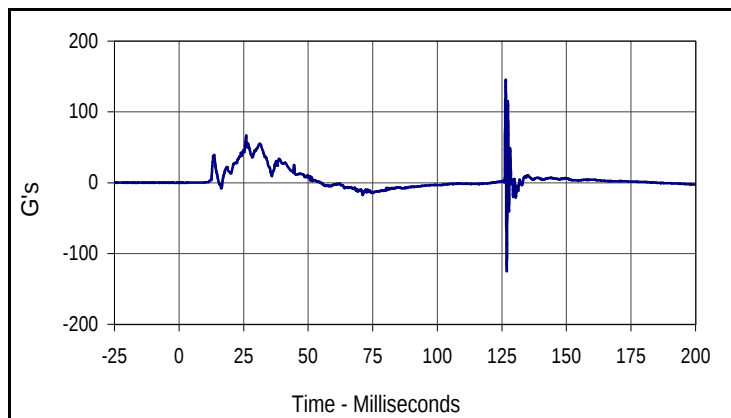
Curve Description			
Driver Pelvis Primary Y Velocity			
CURNO	Type	SAE Class	Units
016	IN1	180	KMH
Max	Time	Min	Time
34.4	42.0	0.0	0.0

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

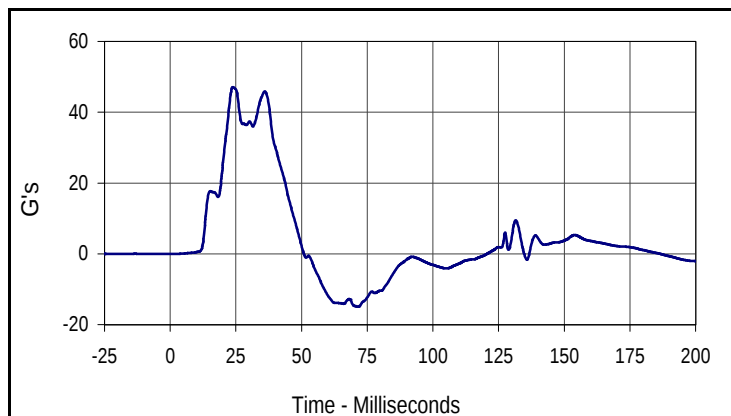
Test Date: 10/26/04
 NHTSA No.: H55301



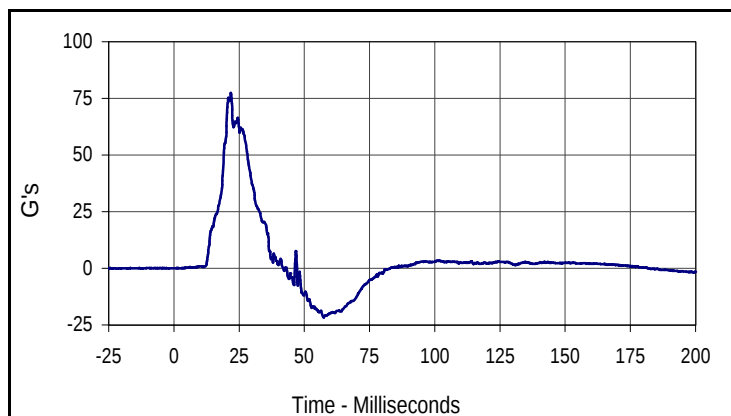
Curve Description			
Driver Upper Rib Redundant Y			
CURNO	Type	SAE Class	Units
017	FIL	1000	G's
Max	Time	Min	Time
144.2	126.5	-105.3	126.9



Curve Description			
Driver Lower Rib Redundant Y			
CURNO	Type	SAE Class	Units
018	FIL	1000	G's
Max	Time	Min	Time
144.5	126.5	-125.2	126.9



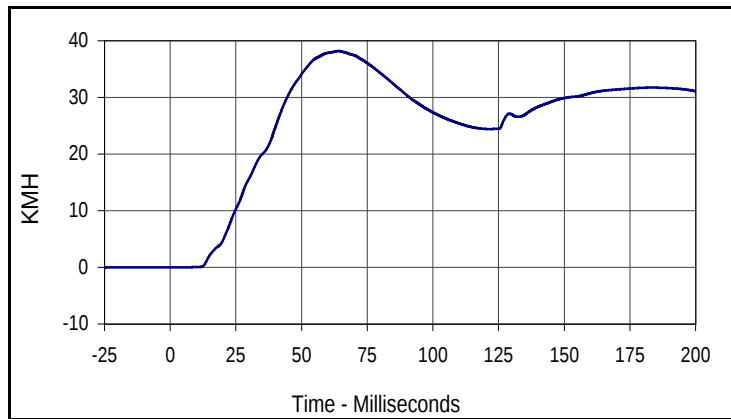
Curve Description			
Driver Lower Spine Redundant Y			
CURNO	Type	SAE Class	Units
019	FIL	180	G's
Max	Time	Min	Time
47.1	23.9	-14.9	71.4



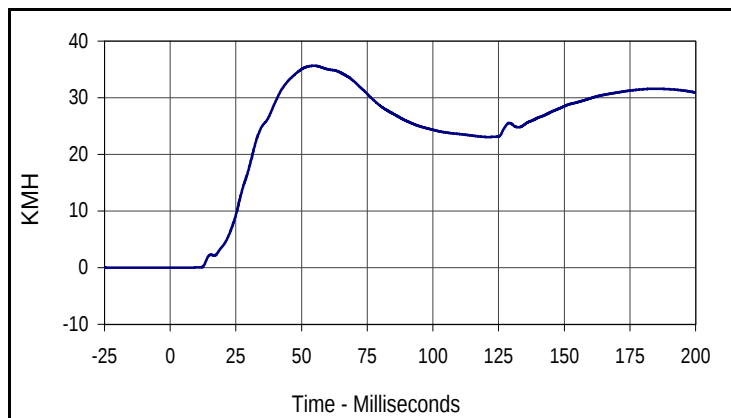
Curve Description			
Driver Pelvis Redundant Y			
CURNO	Type	SAE Class	Units
020	FIL	1000	G's
Max	Time	Min	Time
77.4	21.9	-21.7	57.5

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

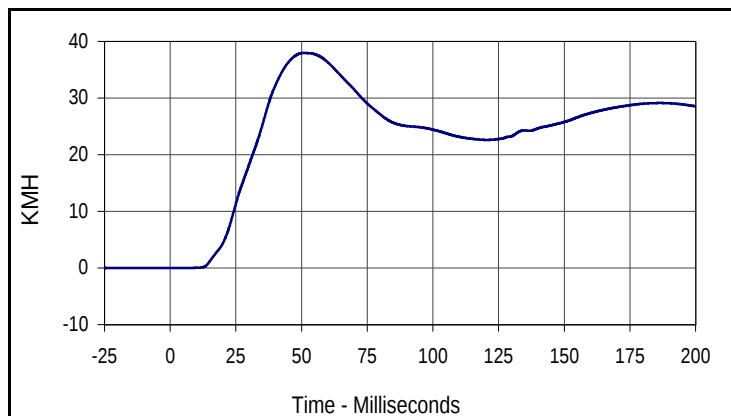
Test Date: 10/26/04
 NHTSA No.: H55301



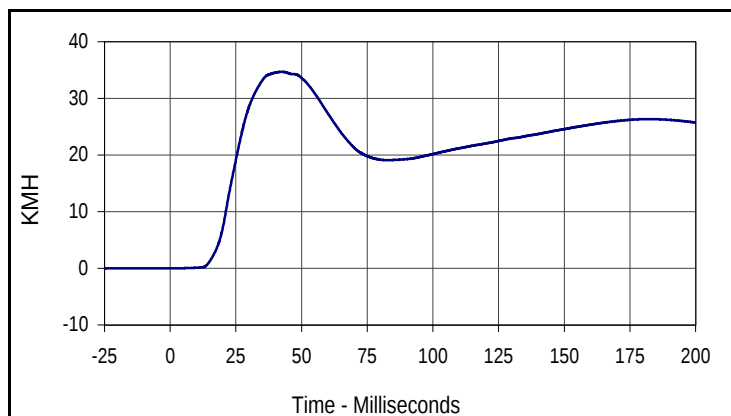
Curve Description			
Driver Upper Rib Redundant Y Velocity			
CURNO	Type	SAE Class	Units
017	IN1	180	KMH
Max	Time	Min	Time
38.2	64.0	0.0	0.0



Curve Description			
Driver Lower Rib Redundant Y Velocity			
CURNO	Type	SAE Class	Units
018	IN1	180	KMH
Max	Time	Min	Time
35.6	54.8	0.0	2.6



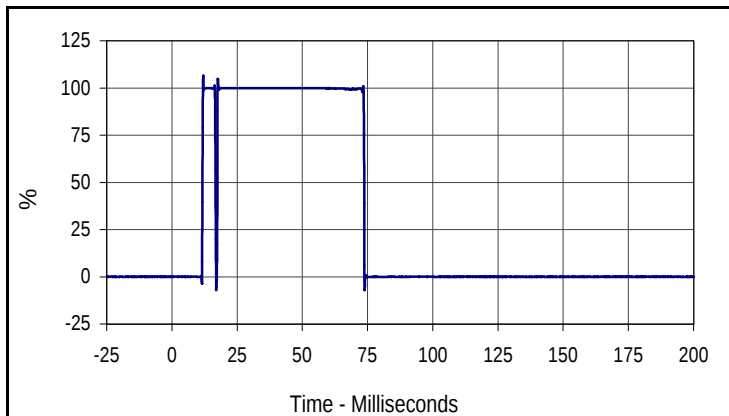
Curve Description			
Driver Lower Spine Redundant Y Velocity			
CURNO	Type	SAE Class	Units
019	IN1	180	KMH
Max	Time	Min	Time
38.0	50.9	0.0	3.1



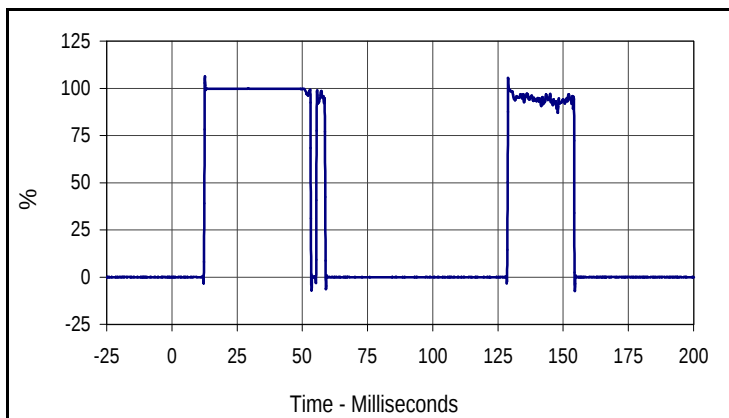
Curve Description			
Driver Pelvis Redundant Y Velocity			
CURNO	Type	SAE Class	Units
020	IN1	180	KMH
Max	Time	Min	Time
34.7	42.2	0.0	0.3

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

Test Date: 10/26/04
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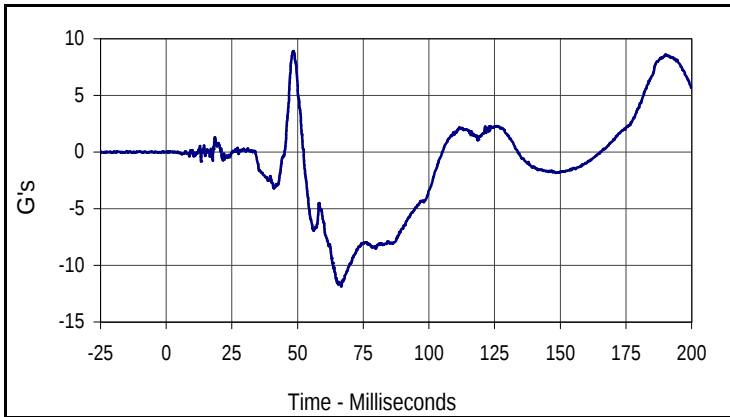
Curve Description			
Driver Thorax Contact			
CURNO	Type	SAE Class	Units
021	FIL	1000	%
Max	Time	Cross %	Time
106.5	12.0	50.0	11.8



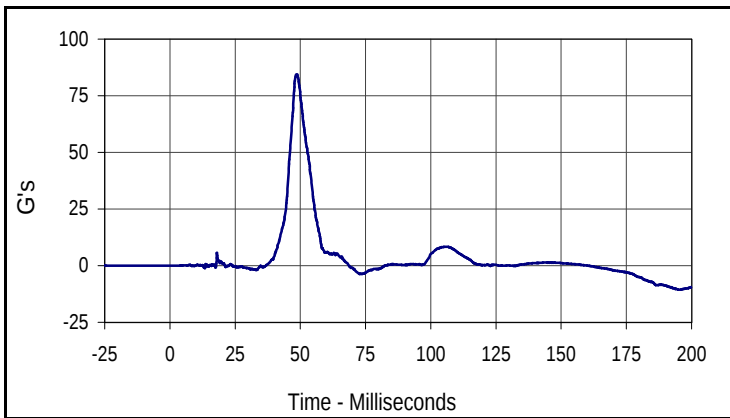
Curve Description			
Driver Pelvis Contact			
CURNO	Type	SAE Class	Units
022	FIL	1000	%
Max	Time	Cross %	Time
106.4	12.7	50.0	12.5

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

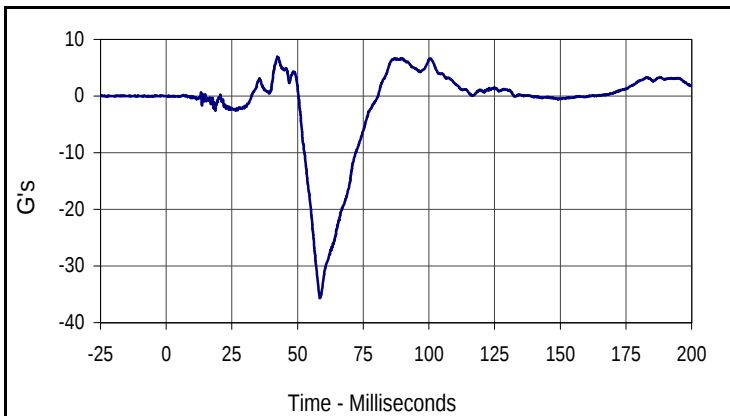
Test Date: 10/26/04
 NHTSA No.: H55301



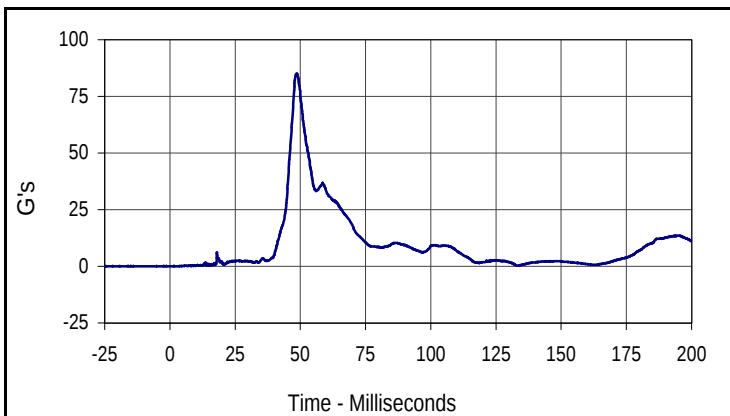
Curve Description			
Passenger Head X Primary			
CURNO	Type	SAE Class	Units
023	FIL	1000	G's
Max	Time	Min	Time
8.9	48.3	-11.9	66.6



Curve Description			
Passenger Head Y Primary			
CURNO	Type	SAE Class	Units
024	FIL	1000	G's
Max	Time	Min	Time
84.5	48.6	-10.6	194.9



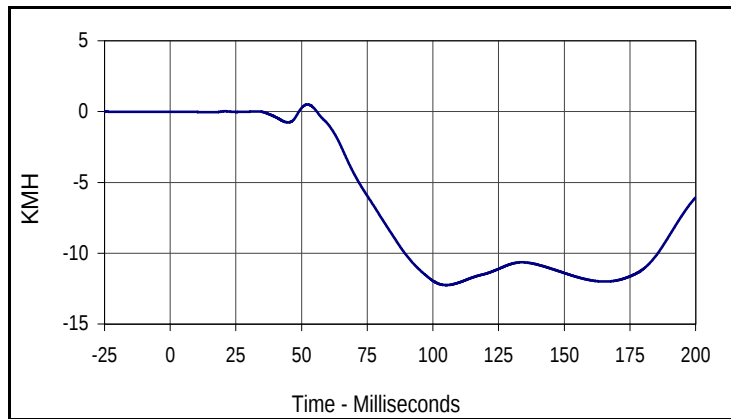
Curve Description			
Passenger Head Z Primary			
CURNO	Type	SAE Class	Units
025	FIL	1000	G's
Max	Time	Min	Time
6.9	42.3	-35.7	58.5



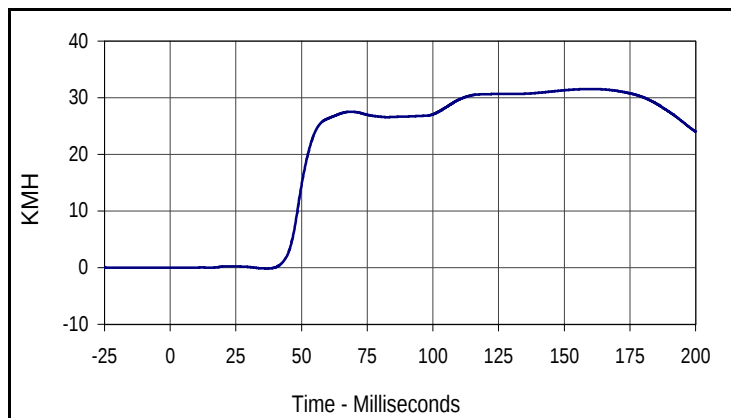
Curve Description			
Passenger Head Resultant Primary			
CURNO	Type	SAE Class	Units
023	RES	1000	G's
Max	Time	Min	Time
85.0	48.6	0.0	2.1

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

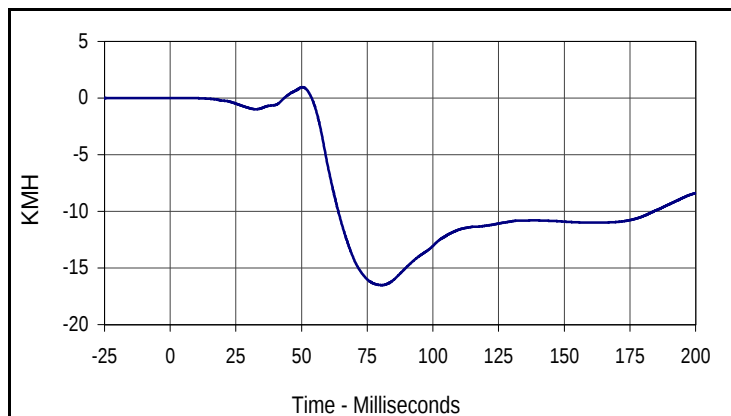
Test Date: 10/26/04
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Curve Description			
Passenger Head Primary X Velocity			
CURNO	Type	SAE Class	Units
023	IN1	180	KMH
Max	Time	Min	Time
0.5	52.2	-12.3	105.1



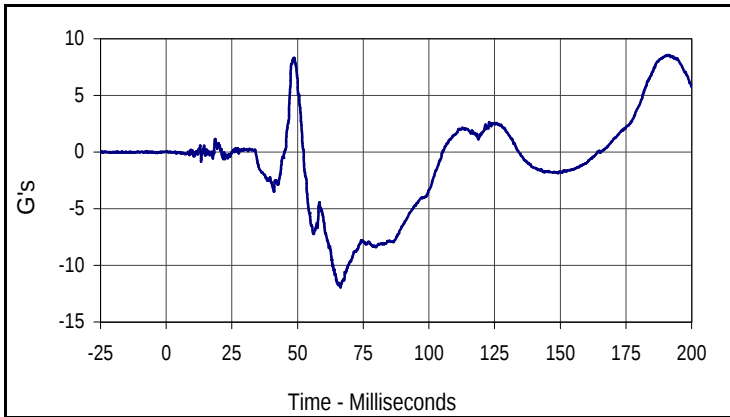
Curve Description			
Passenger Head Primary Y Velocity			
CURNO	Type	SAE Class	Units
024	IN1	180	KMH
Max	Time	Min	Time
31.5	160.4	-0.1	36.8



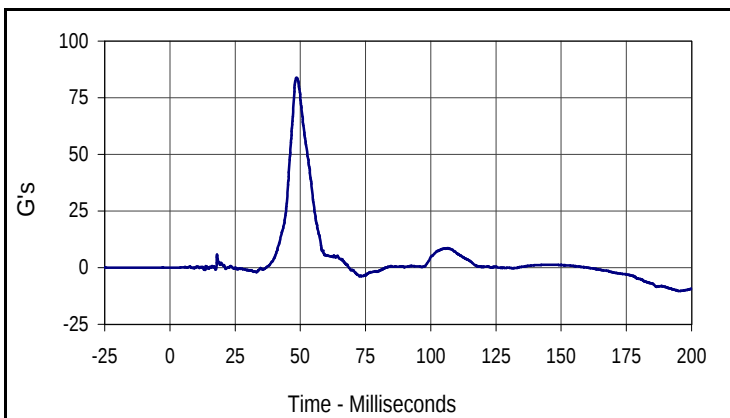
Curve Description			
Passenger Head Primary Z Velocity			
CURNO	Type	SAE Class	Units
025	IN1	180	KMH
Max	Time	Min	Time
1.0	50.4	-16.5	80.5

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

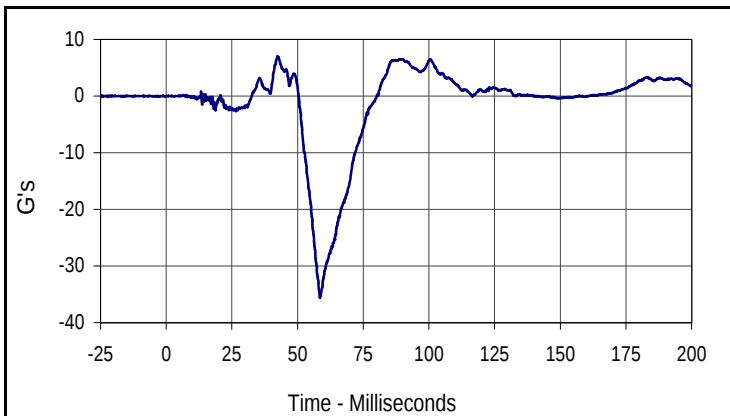
Test Date: 10/26/04
 NHTSA No.: H55301



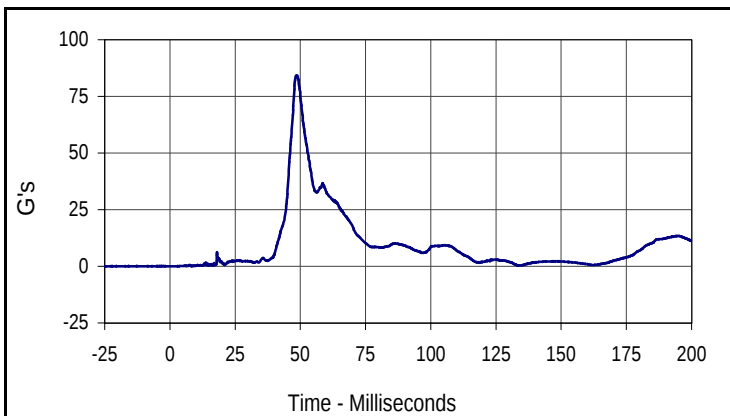
Curve Description			
Passenger Head X Redundant			
CURNO	Type	SAE Class	Units
026	FIL	1000	G's
Max	Time	Min	Time
8.6	191.0	-11.9	66.4



Curve Description			
Passenger Head Y Redundant			
CURNO	Type	SAE Class	Units
027	FIL	1000	G's
Max	Time	Min	Time
83.9	48.5	-10.3	195.6



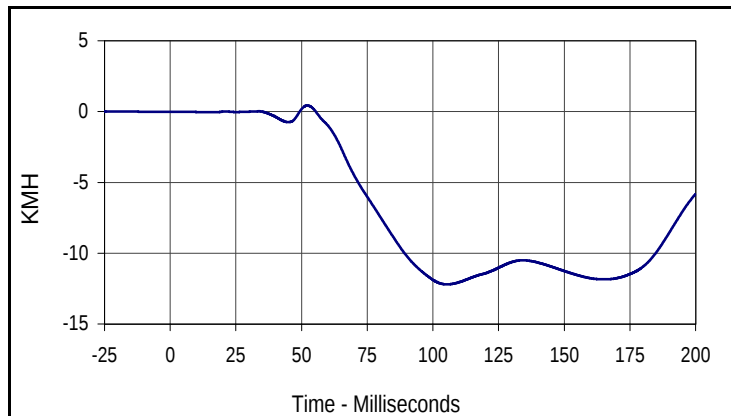
Curve Description			
Passenger Head Z Redundant			
CURNO	Type	SAE Class	Units
028	FIL	1000	G's
Max	Time	Min	Time
7.0	42.4	-35.6	58.6



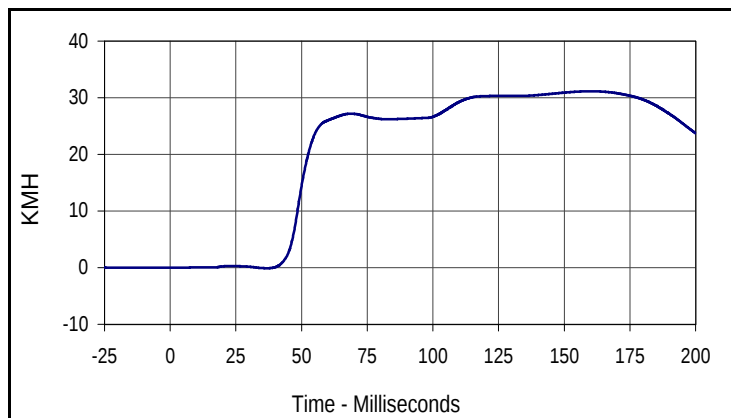
Curve Description			
Passenger Head Resultant Redundant			
CURNO	Type	SAE Class	Units
026	RES	1000	G's
Max	Time	Min	Time
84.4	48.5	0.0	1.1

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

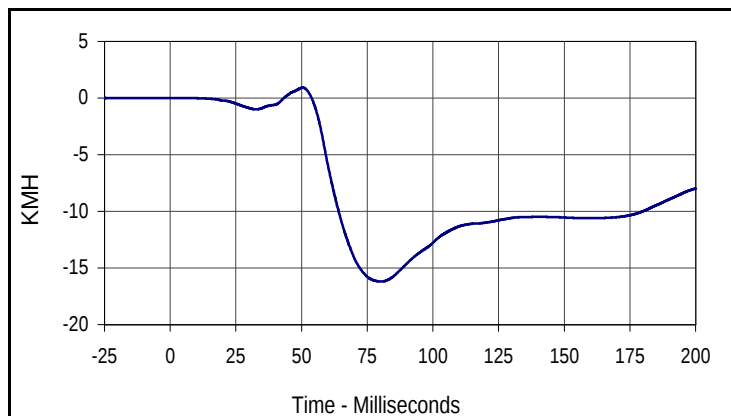
Test Date: 10/26/04
 NHTSA No.: H55301



Curve Description			
Passenger Head Redundant X Velocity			
CURNO	Type	SAE Class	Units
026	IN1	180	KMH
Max	Time	Min	Time
0.4	52.2	-12.2	105.3



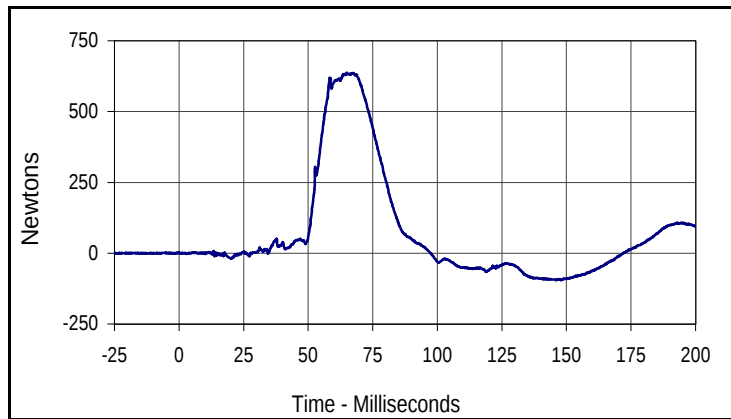
Curve Description			
Passenger Head Redundant Y Velocity			
CURNO	Type	SAE Class	Units
027	IN1	180	KMH
Max	Time	Min	Time
31.1	160.2	-0.1	36.9



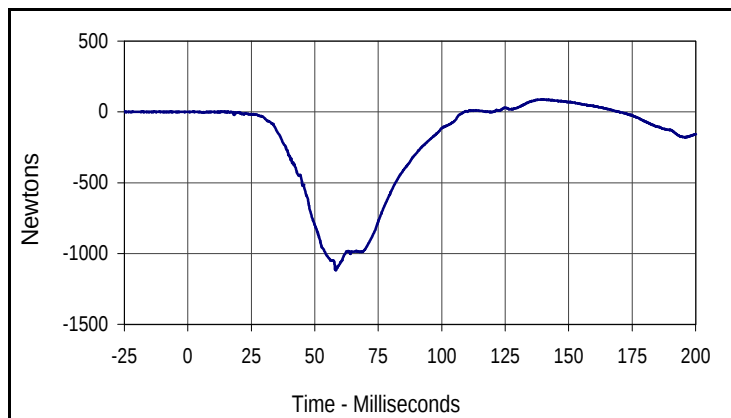
Curve Description			
Passenger Head Redundant Z Velocity			
CURNO	Type	SAE Class	Units
028	IN1	180	KMH
Max	Time	Min	Time
0.9	50.4	-16.2	80.3

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

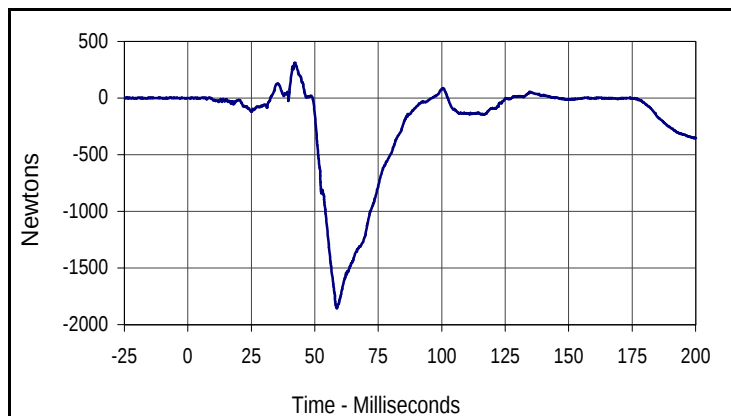
Test Date: 10/26/04
 NHTSA No.: H55301



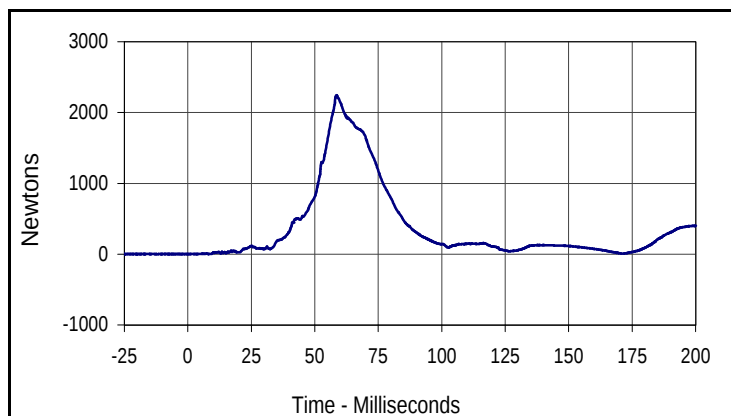
Curve Description			
Passenger Upper Neck Force X			
CURNO	Type	SAE Class	Units
029	FIL	1000	Newtons
Max	Time	Min	Time
637.0	64.9	-94.8	145.8



Curve Description			
Passenger Upper Neck Force Y			
CURNO	Type	SAE Class	Units
030	FIL	1000	Newtons
Max	Time	Min	Time
89.0	140.0	-1118.0	58.2



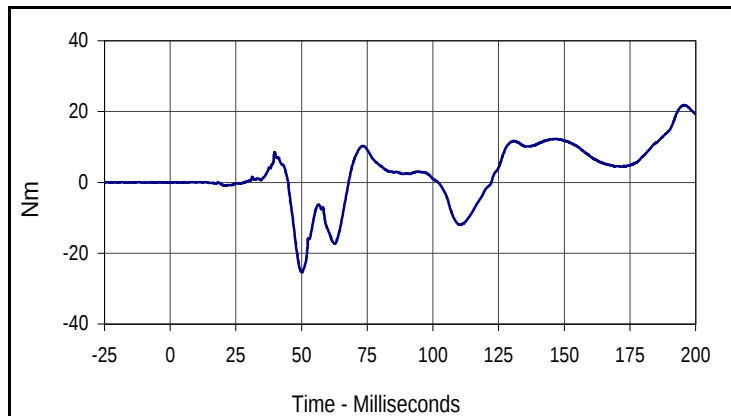
Curve Description			
Passenger Upper Neck Force Z			
CURNO	Type	SAE Class	Units
031	FIL	1000	Newtons
Max	Time	Min	Time
310.5	42.0	-1854.7	58.7



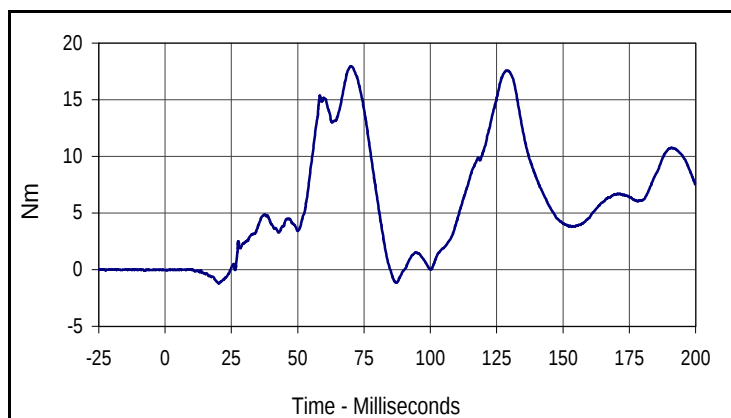
Curve Description			
Passenger Upper Neck Force Resultant			
CURNO	Type	SAE Class	Units
029	RES	1000	Newtons
Max	Time	Min	Time
2243.3	58.7	0.6	0.4

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

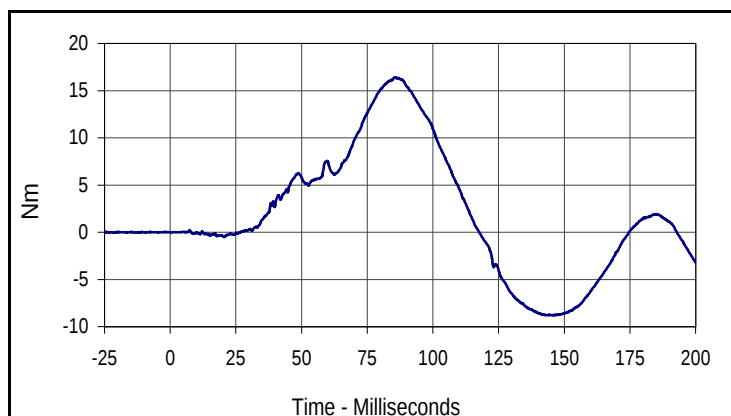
Test Date: 10/26/04
 NHTSA No.: H55301



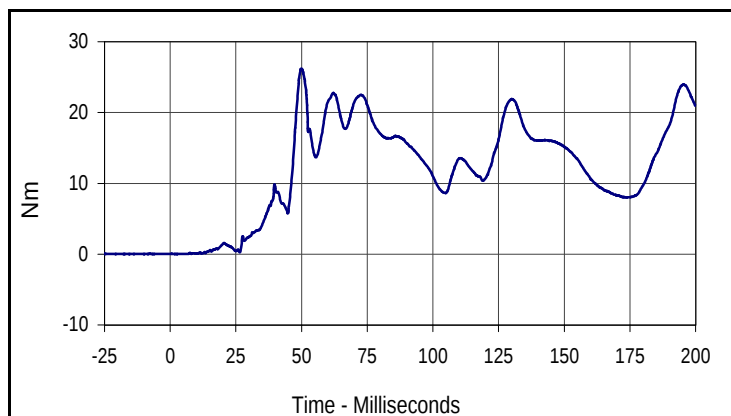
Curve Description			
Passenger Upper Neck Moment X			
CURNO	Type	SAE Class	Units
032	FIL	600	Nm
Max	Time	Min	Time
21.8	195.5	-25.3	50.0



Curve Description			
Passenger Upper Neck Moment Y			
CURNO	Type	SAE Class	Units
033	FIL	600	Nm
Max	Time	Min	Time
18.0	69.9	-1.2	20.3



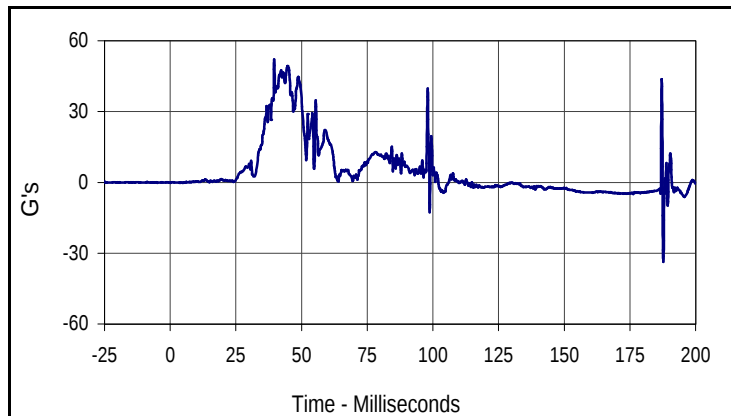
Curve Description			
Passenger Upper Neck Moment Z			
CURNO	Type	SAE Class	Units
034	FIL	600	Nm
Max	Time	Min	Time
16.4	85.7	-8.8	145.9



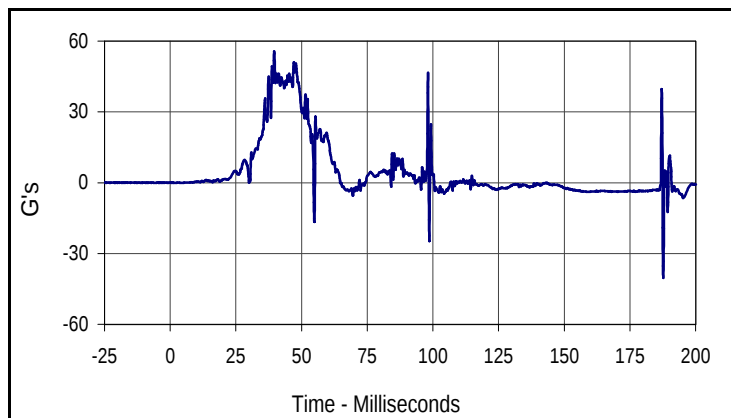
Curve Description			
Passenger Upper Neck Moment Resultant			
CURNO	Type	SAE Class	Units
032	RES	600	Nm
Max	Time	Min	Time
26.2	50.0	0.0	2.6

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

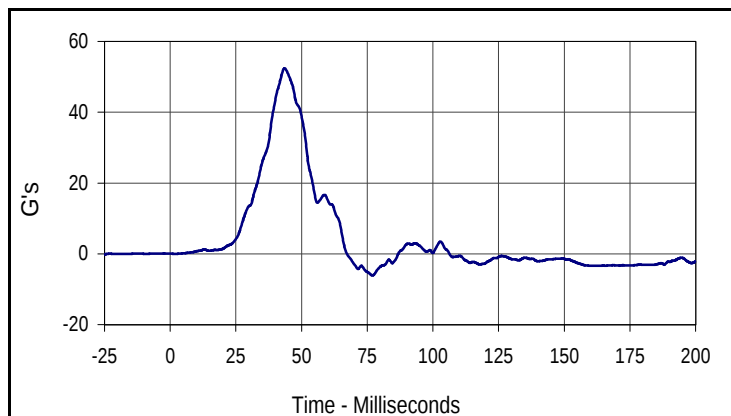
Test Date: 10/26/04
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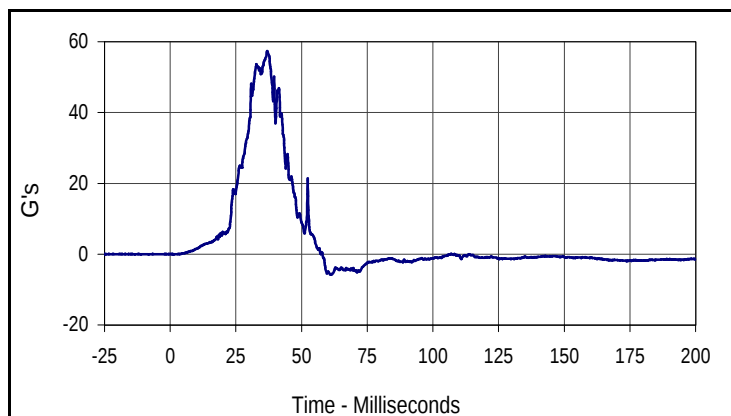
Curve Description			
Passenger Upper Rib Primary Y			
CURNO	Type	SAE Class	Units
035	FIL	1000	G's
Max	Time	Min	Time
52.1	39.6	-33.7	187.7



Curve Description			
Passenger Lower Rib Primary Y			
CURNO	Type	SAE Class	Units
036	FIL	1000	G's
Max	Time	Min	Time
55.6	39.6	-40.3	187.7



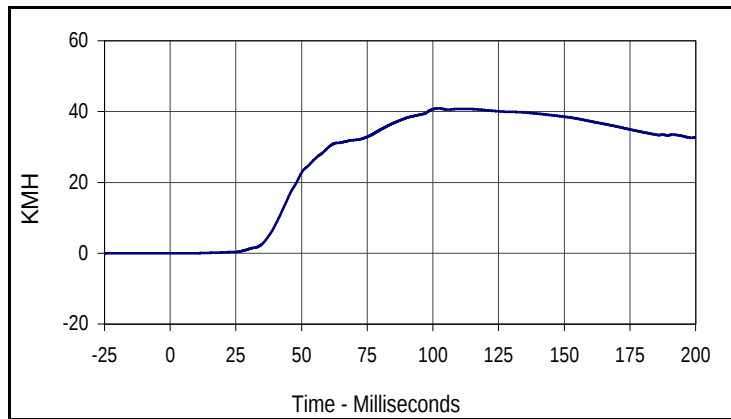
Curve Description			
Passenger Lower Spine Primary Y			
CURNO	Type	SAE Class	Units
037	FIL	180	G's
Max	Time	Min	Time
52.4	43.5	-6.1	77.0



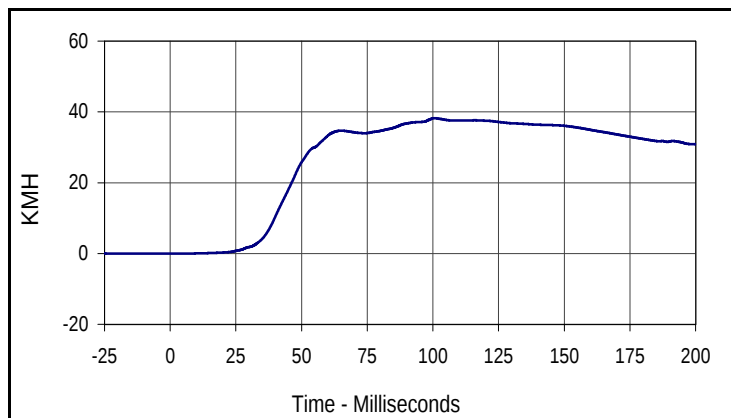
Curve Description			
Passenger Pelvis Primary Y			
CURNO	Type	SAE Class	Units
038	FIL	1000	G's
Max	Time	Min	Time
57.4	36.9	-5.9	61.0

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

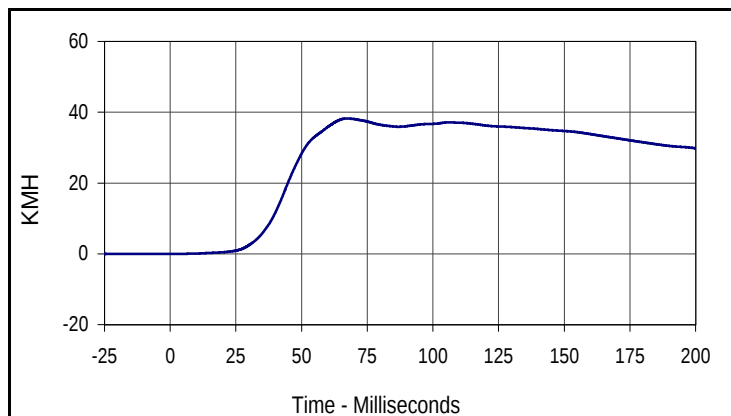
Test Date: 10/26/04
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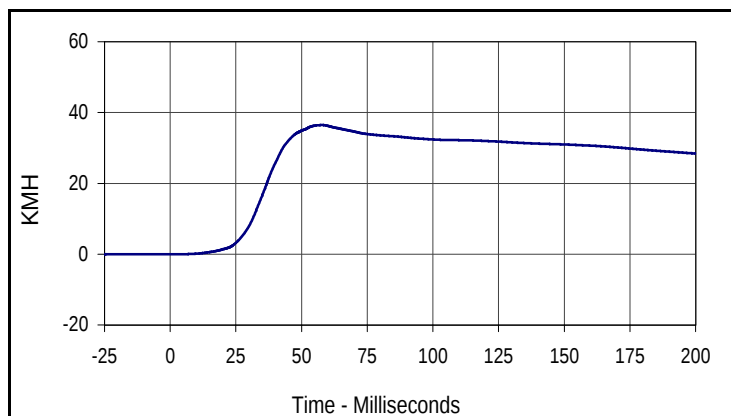
Curve Description			
Passenger Upper Rib Primary Y Velocity			
CURNO	Type	SAE Class	Units
035	IN1	180	KMH
Max	Time	Min	Time
40.9	102.1	0.0	5.7



Curve Description			
Passenger Lower Rib Primary Y Velocity			
CURNO	Type	SAE Class	Units
036	IN1	180	KMH
Max	Time	Min	Time
38.2	100.6	0.0	5.3



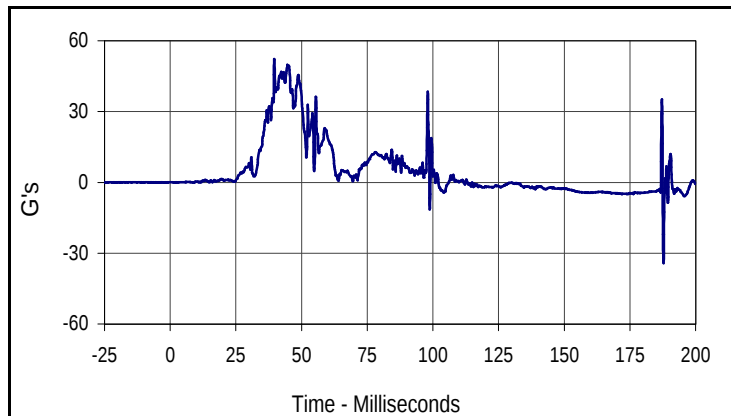
Curve Description			
Passenger Lower Spine Primary Y Velocity			
CURNO	Type	SAE Class	Units
037	IN1	180	KMH
Max	Time	Min	Time
38.2	67.3	0.0	0.0



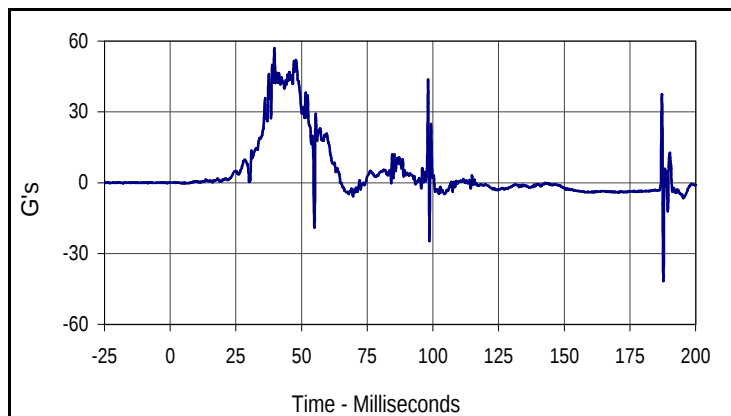
Curve Description			
Passenger Pelvis Primary Y Velocity			
CURNO	Type	SAE Class	Units
038	IN1	180	KMH
Max	Time	Min	Time
36.5	57.8	0.0	2.8

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

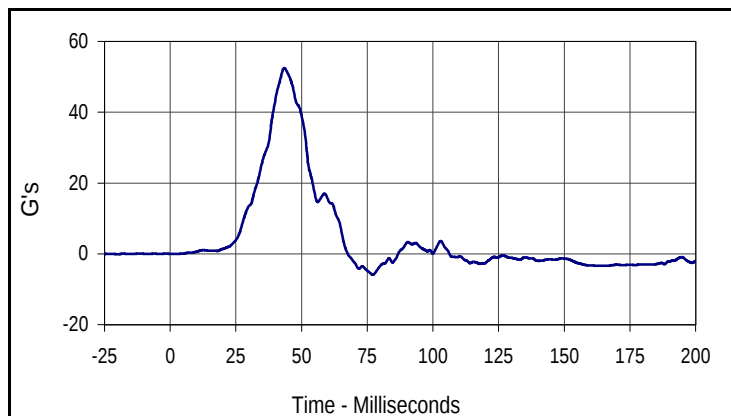
Test Date: 10/26/04
 NHTSA No.: H55301



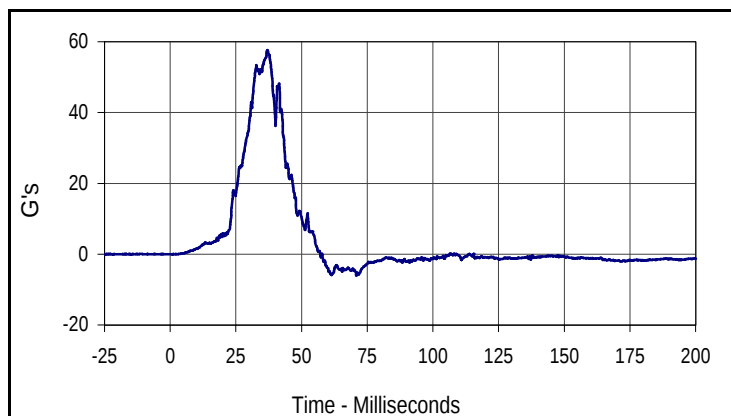
Curve Description			
Passenger Upper Rib Redundant Y			
CURNO	Type	SAE Class	Units
039	FIL	1000	G's
Max	Time	Min	Time
52.3	39.6	-34.2	187.8



Curve Description			
Passenger Lower Rib Redundant Y			
CURNO	Type	SAE Class	Units
040	FIL	1000	G's
Max	Time	Min	Time
57.1	39.7	-41.5	187.7



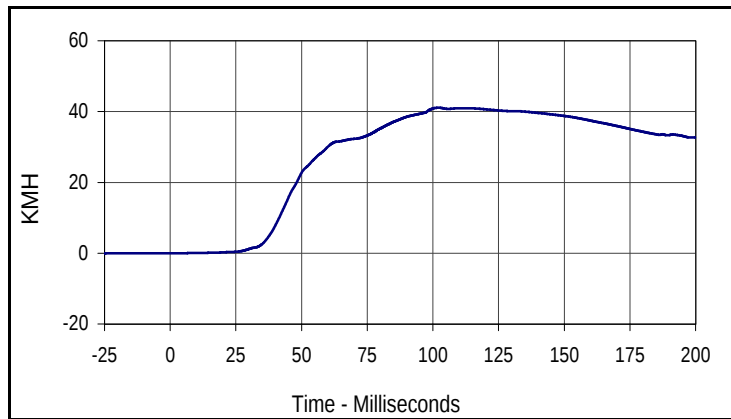
Curve Description			
Passenger Lower Spine Redundant Y			
CURNO	Type	SAE Class	Units
041	FIL	180	G's
Max	Time	Min	Time
52.5	43.4	-5.9	77.1



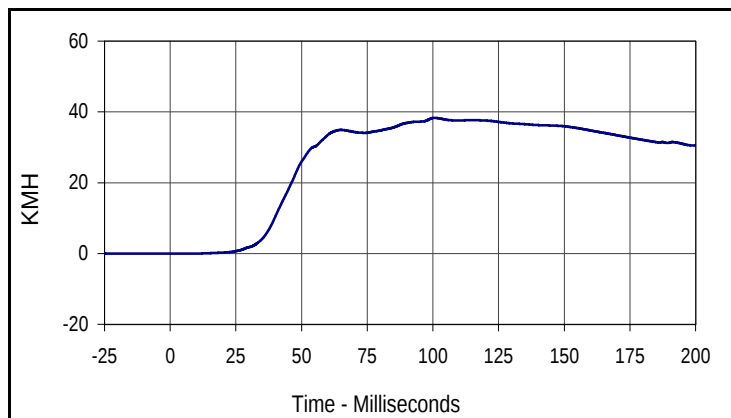
Curve Description			
Passenger Pelvis Redundant Y			
CURNO	Type	SAE Class	Units
042	FIL	1000	G's
Max	Time	Min	Time
57.7	37.0	-6.1	70.9

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

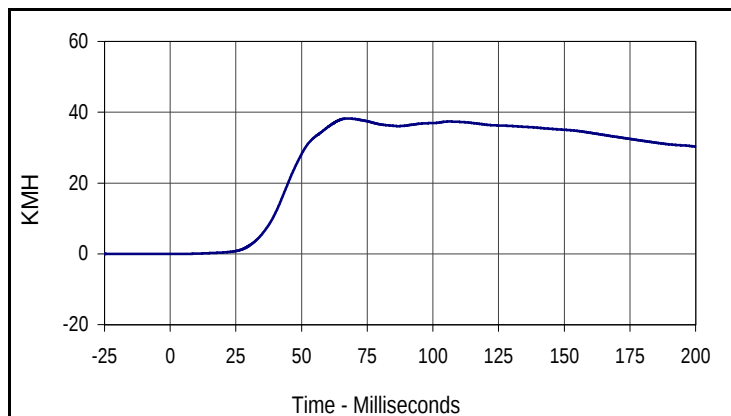
Test Date: 10/26/04
 NHTSA No.: H55301



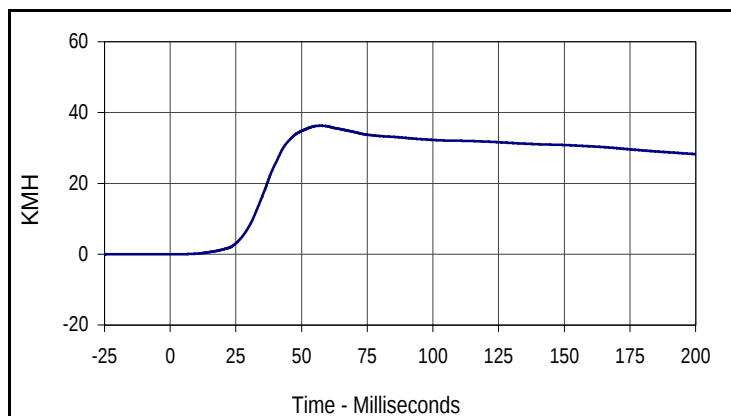
Curve Description			
Passenger Upper Rib Redundant Y Velocity			
CURNO	Type	SAE Class	Units
039	IN1	180	KMH
Max	Time	Min	Time
41.1	102.2	0.0	0.0



Curve Description			
Passenger Lower Rib Redundant Y Velocity			
CURNO	Type	SAE Class	Units
040	IN1	180	KMH
Max	Time	Min	Time
38.3	100.6	0.0	7.7



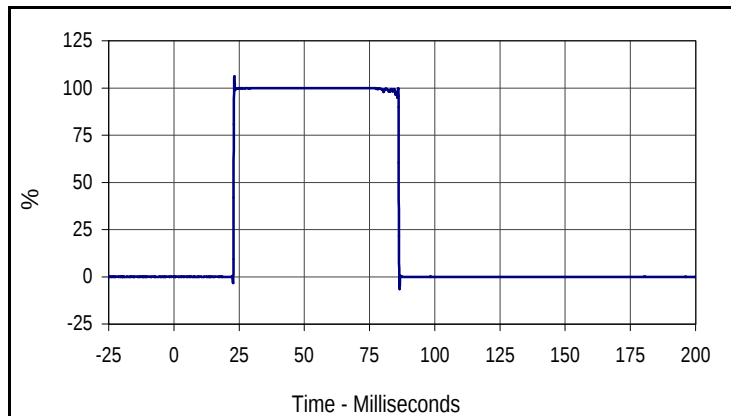
Curve Description			
Passenger Lower Spine Redundant Y Velocity			
CURNO	Type	SAE Class	Units
041	IN1	180	KMH
Max	Time	Min	Time
38.2	67.6	0.0	2.0



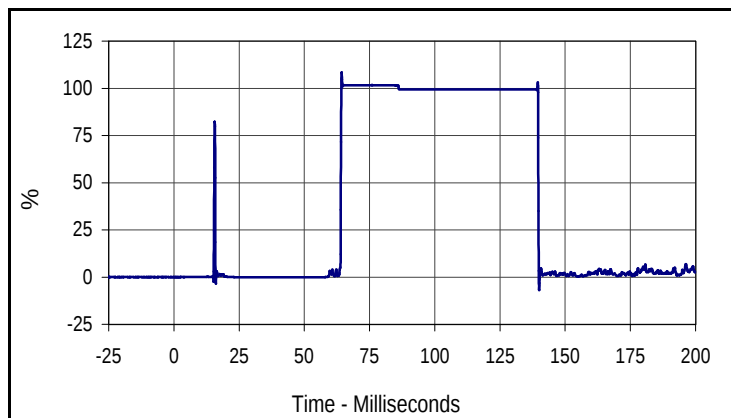
Curve Description			
Passenger Pelvis Redundant Y Velocity			
CURNO	Type	SAE Class	Units
042	IN1	180	KMH
Max	Time	Min	Time
36.3	57.2	0.0	2.9

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

Test Date: 10/26/04
 NHTSA No.: H55301



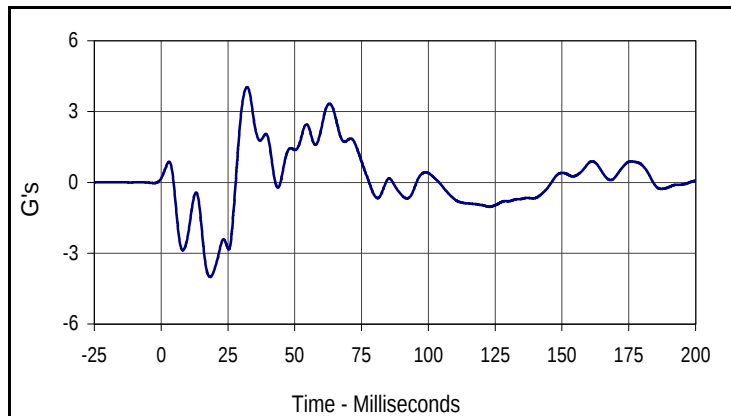
Curve Description			
Passenger Thorax Contact			
CURNO	Type	SAE Class	Units
043	FIL	1000	%
Max	Time	Cross %	Time
106.1	23.2	50.0	23.0



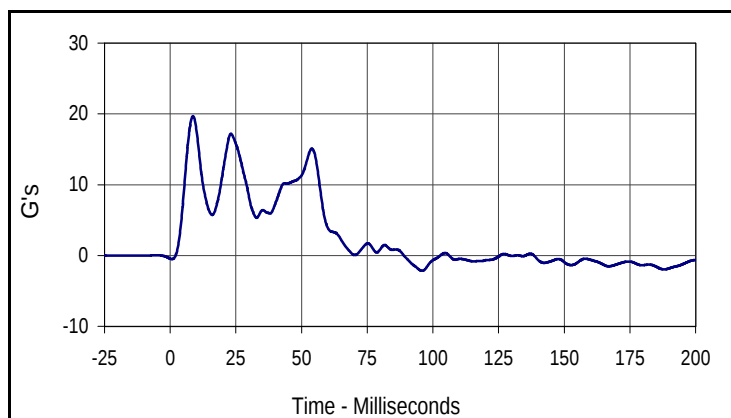
Curve Description			
Passenger Pelvis Contact			
CURNO	Type	SAE Class	Units
044	FIL	1000	%
Max	Time	Cross %	Time
108.2	64.3	50.0	46.0

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

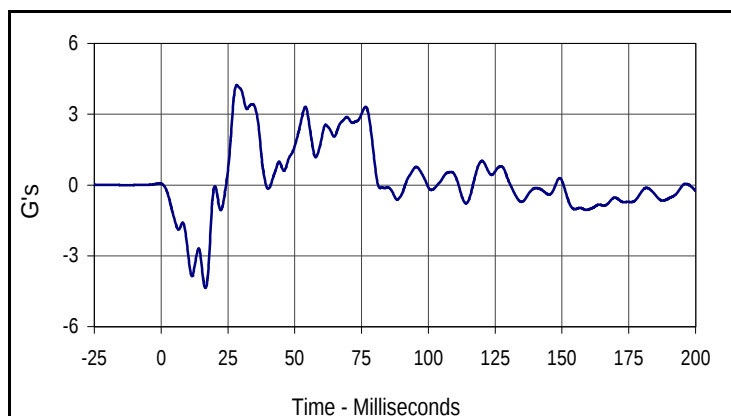
Test Date: 10/26/04
 NHTSA No.: H55301



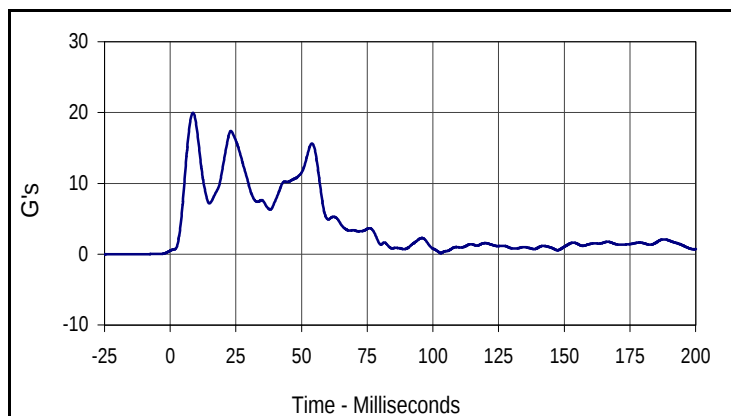
Curve Description			
Vehicle Right Sill at Front Seat X			
CURNO	Type	SAE Class	Units
045	FIL	60	G's
Max	Time	Min	Time
4.0	32.1	-4.0	18.4



Curve Description			
Vehicle Right Sill at Front Seat Y			
CURNO	Type	SAE Class	Units
046	FIL	60	G's
Max	Time	Min	Time
19.7	8.7	-2.1	95.9



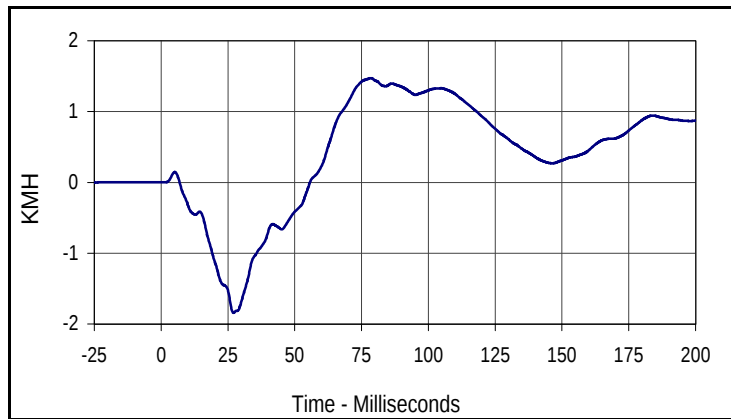
Curve Description			
Vehicle Right Sill at Front Seat Z			
CURNO	Type	SAE Class	Units
047	FIL	60	G's
Max	Time	Min	Time
4.2	28.3	-4.4	16.6



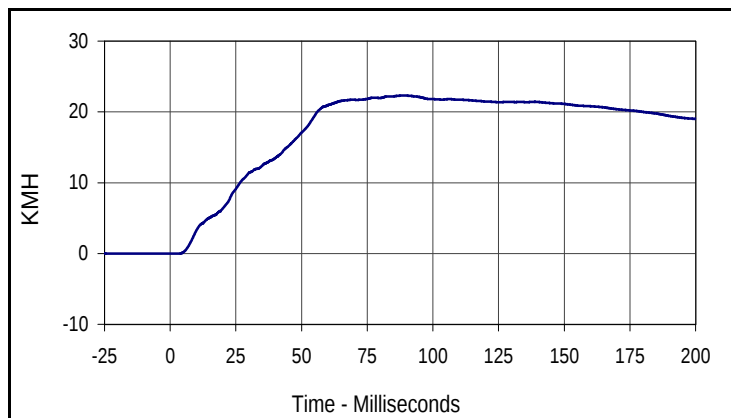
Curve Description			
Vehicle Right Sill Front Seat Resultant			
CURNO	Type	SAE Class	Units
045	RES	60	G's
Max	Time	Min	Time
20.0	8.7	0.1	103.0

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

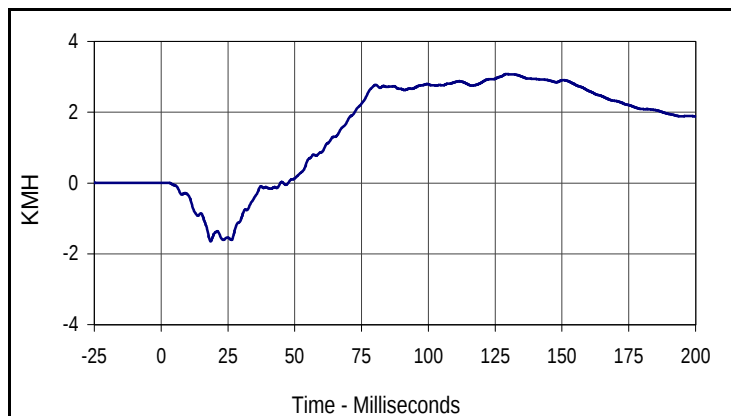
Test Date: 10/26/04
 NHTSA No.: H55301



Curve Description			
Vehicle Right Sill at Front Seat X Velocity			
CURNO	Type	SAE Class	Units
045	IN1	180	KMH
Max	Time	Min	Time
1.5	78.5	-1.8	27.1



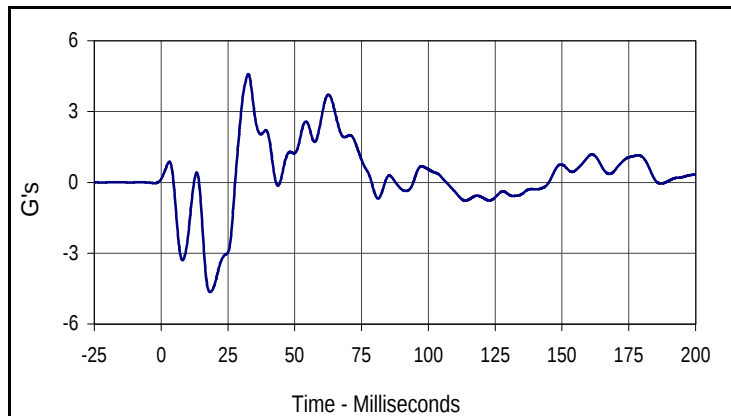
Curve Description			
Vehicle Right Sill at Front Seat Y Velocity			
CURNO	Type	SAE Class	Units
046	IN1	180	KMH
Max	Time	Min	Time
22.3	88.4	0.0	3.3



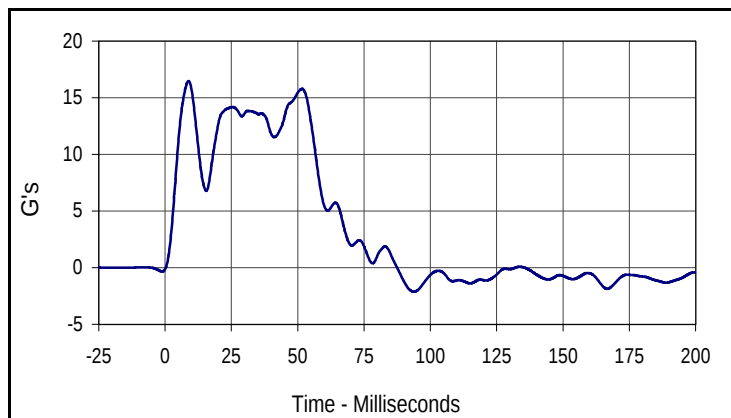
Curve Description			
Vehicle Right Sill at Front Seat Z Velocity			
CURNO	Type	SAE Class	Units
047	IN1	180	KMH
Max	Time	Min	Time
3.1	129.3	-1.6	18.5

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

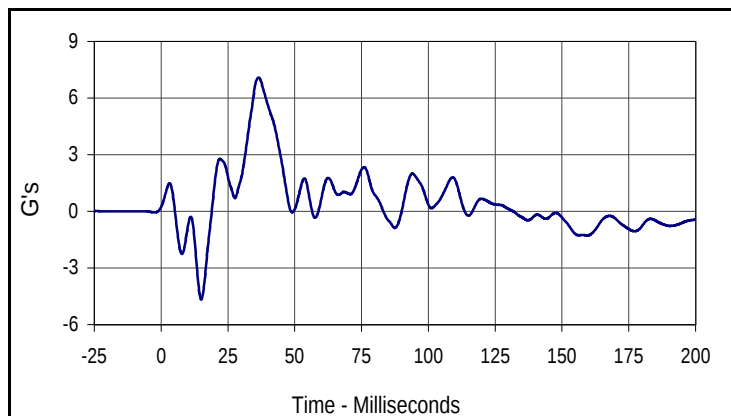
Test Date: 10/26/04
 NHTSA No.: H55301



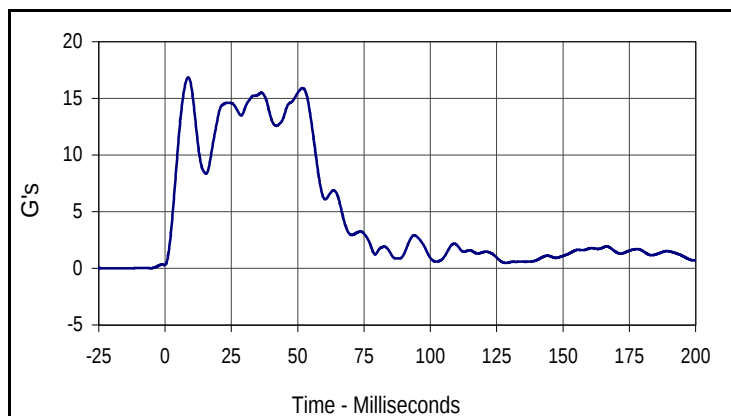
Curve Description			
Vehicle Right Sill at Rear Seat X			
CURNO	Type	SAE Class	Units
048	FIL	60	G's
Max	Time	Min	Time
4.6	32.6	-4.6	18.3



Curve Description			
Vehicle Right Sill at Rear Seat Y			
CURNO	Type	SAE Class	Units
049	FIL	60	G's
Max	Time	Min	Time
16.5	8.9	-2.1	93.8



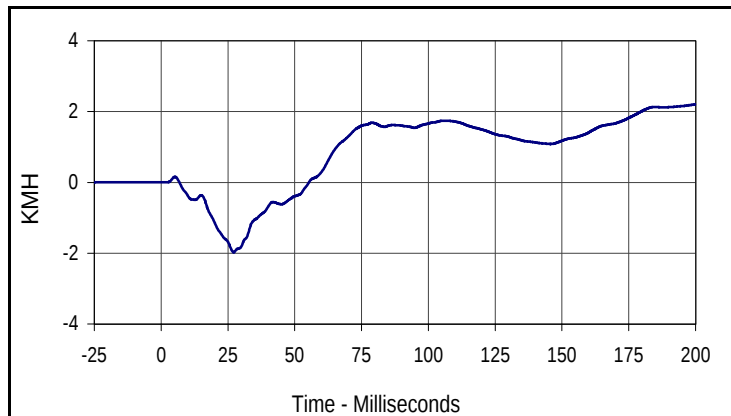
Curve Description			
Vehicle Right Sill at Rear Seat Z			
CURNO	Type	SAE Class	Units
050	FIL	60	G's
Max	Time	Min	Time
7.1	36.5	-4.7	15.0



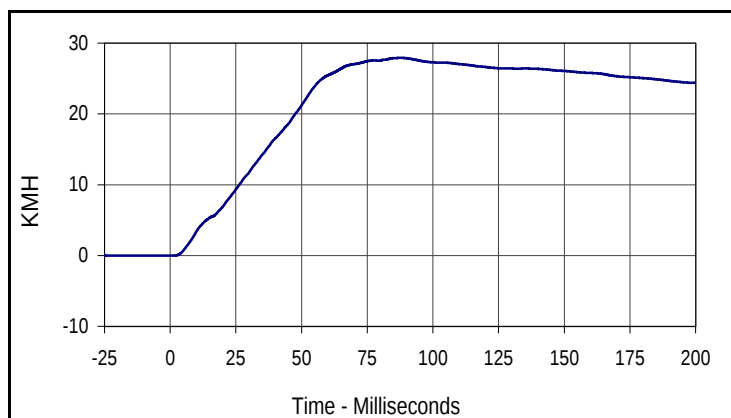
Curve Description			
Vehicle Right Sill Rear Seat Resultant			
CURNO	Type	SAE Class	Units
048	RES	60	G's
Max	Time	Min	Time
16.9	8.7	0.3	0.0

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

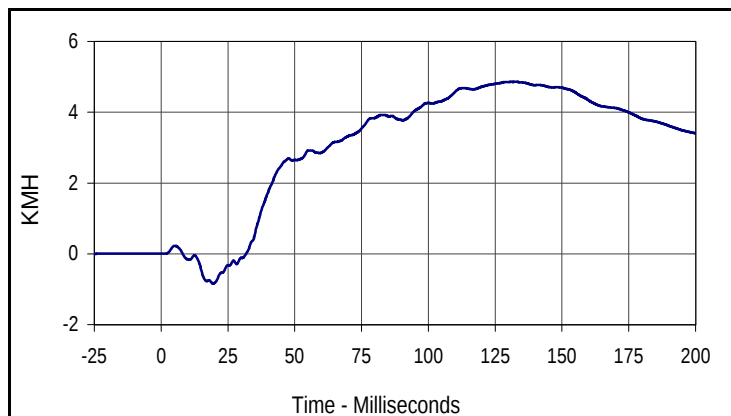
Test Date: 10/26/04
 NHTSA No.: H55301



Curve Description			
Vehicle Right Sill at Rear Seat X Velocity			
CURNO	Type	SAE Class	Units
048	IN1	180	KMH
Max	Time	Min	Time
2.2	200.0	-2.0	27.1



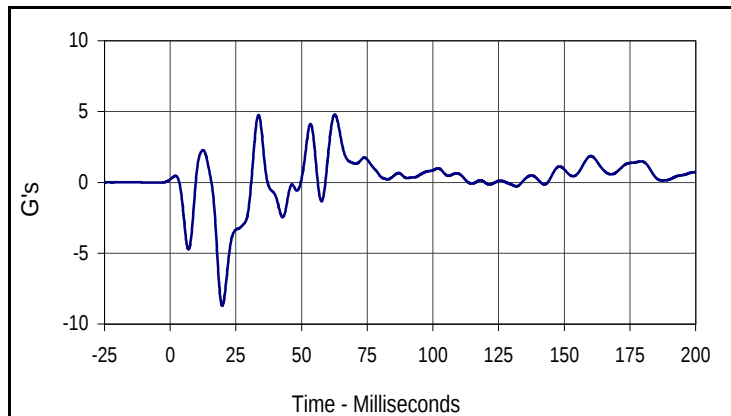
Curve Description			
Vehicle Right Sill at Rear Seat Y Velocity			
CURNO	Type	SAE Class	Units
049	IN1	180	KMH
Max	Time	Min	Time
27.9	87.8	0.0	1.4



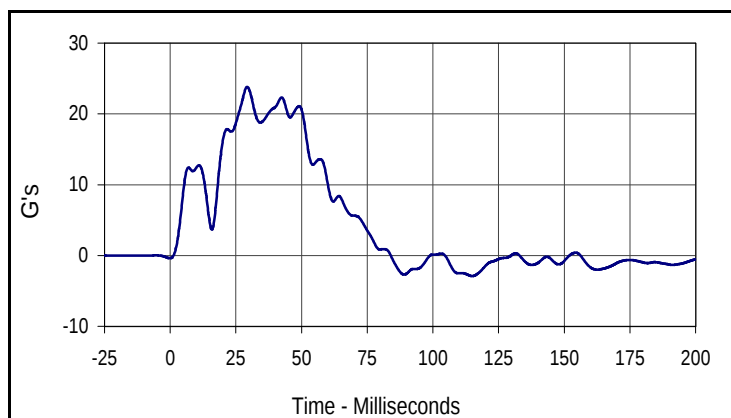
Curve Description			
Vehicle Right Sill at Rear Seat Z Velocity			
CURNO	Type	SAE Class	Units
050	IN1	180	KMH
Max	Time	Min	Time
4.9	132.8	-0.8	19.5

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

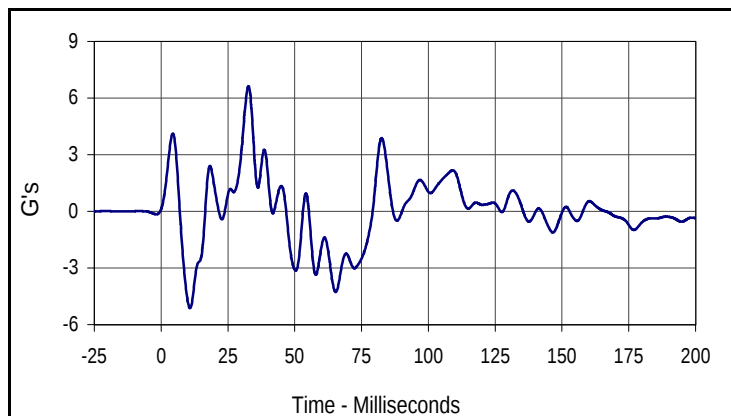
Test Date: 10/26/04
 NHTSA No.: H55301



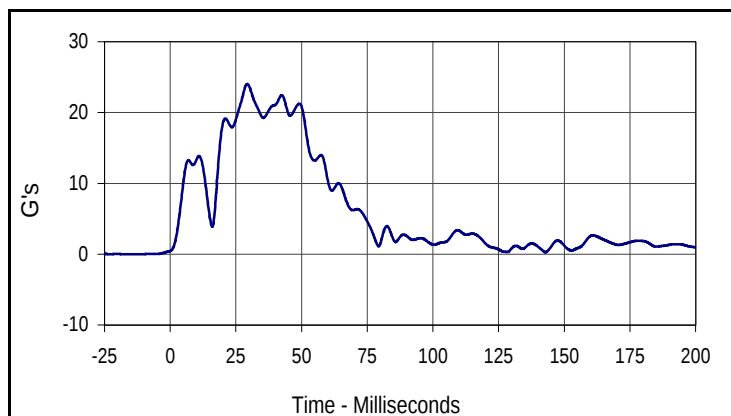
Curve Description			
Vehicle Rear Floor Above Axle X			
CURNO	Type	SAE Class	Units
051	FIL	60	G's
Max	Time	Min	Time
4.8	62.6	-8.7	19.8



Curve Description			
Vehicle Rear Floor Above Axle Y			
CURNO	Type	SAE Class	Units
052	FIL	60	G's
Max	Time	Min	Time
23.8	29.3	-2.9	115.0



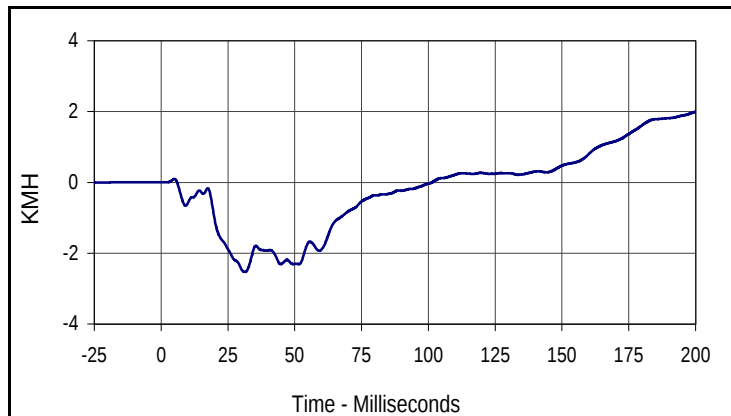
Curve Description			
Vehicle Rear Floor Above Axle Z			
CURNO	Type	SAE Class	Units
053	FIL	60	G's
Max	Time	Min	Time
6.6	32.7	-5.1	10.8



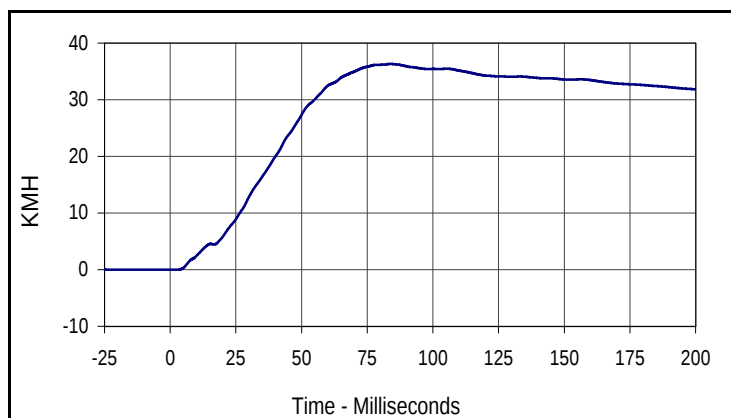
Curve Description			
Vehicle Rear Floor Above Axle Resultant			
CURNO	Type	SAE Class	Units
051	RES	60	G's
Max	Time	Min	Time
24.1	29.3	0.3	142.8

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

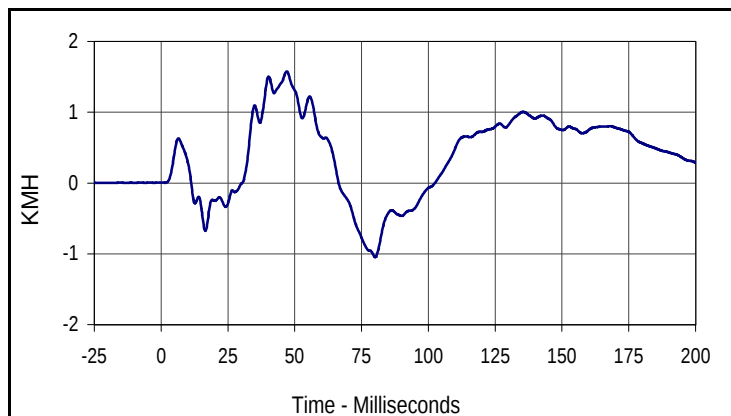
Test Date: 10/26/04
 NHTSA No.: H55301



Curve Description			
Vehicle Rear Floor Above Axle X Velocity			
CURNO	Type	SAE Class	Units
051	FIL	180	KMH
Max	Time	Min	Time
2.0	200.0	-2.5	31.4



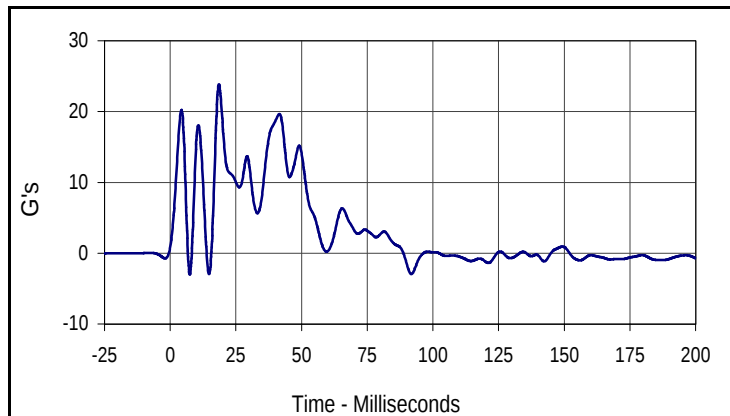
Curve Description			
Vehicle Rear Floor Above Axle Y Velocity			
CURNO	Type	SAE Class	Units
052	FIL	180	KMH
Max	Time	Min	Time
36.3	83.9	0.0	2.4



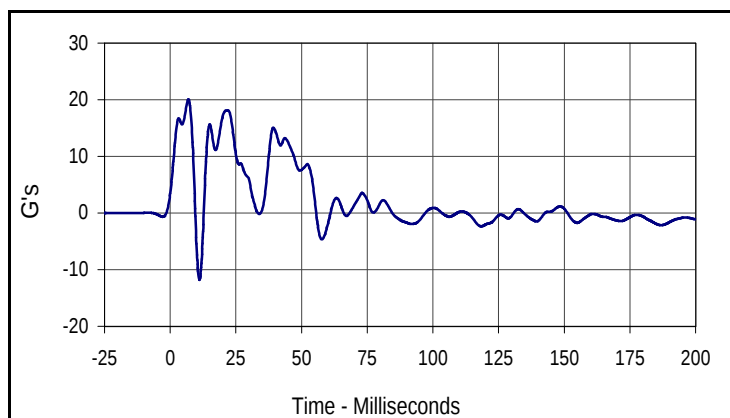
Curve Description			
Vehicle Rear Floor Above Axle Z Velocity			
CURNO	Type	SAE Class	Units
053	FIL	180	KMH
Max	Time	Min	Time
1.6	47.0	-1.0	80.1

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

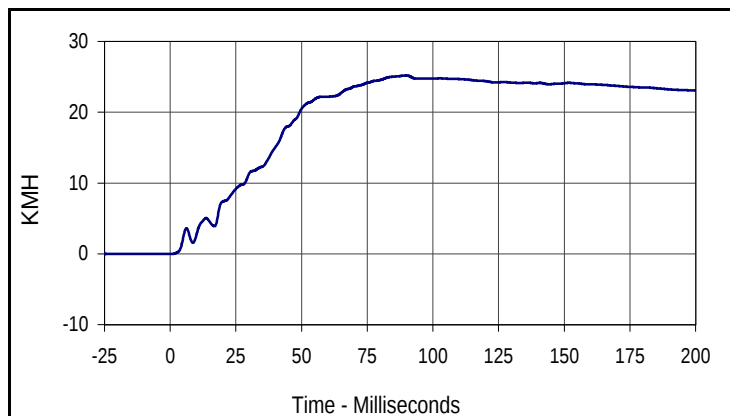
Test Date: 10/26/04
 NHTSA No.: H55301



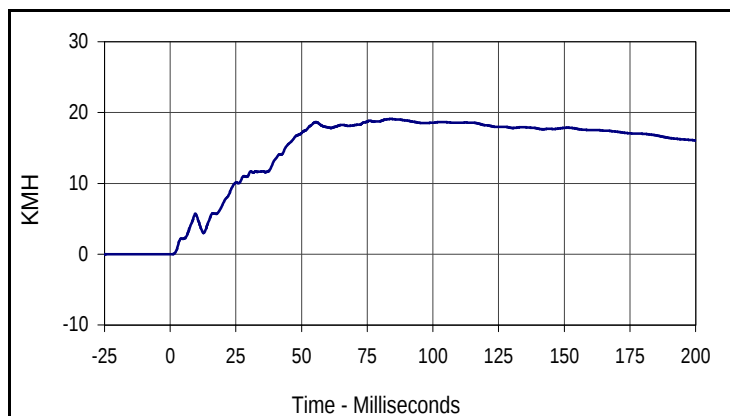
Curve Description			
Vehicle Left Sill at Rear Door Y			
CURNO	Type	SAE Class	Units
054	FIL	60	G's
Max	Time	Min	Time
23.9	18.5	-3.0	7.4



Curve Description			
Vehicle Left Sill at Front Door Y			
CURNO	Type	SAE Class	Units
055	FIL	60	G's
Max	Time	Min	Time
20.0	6.9	-11.8	11.1



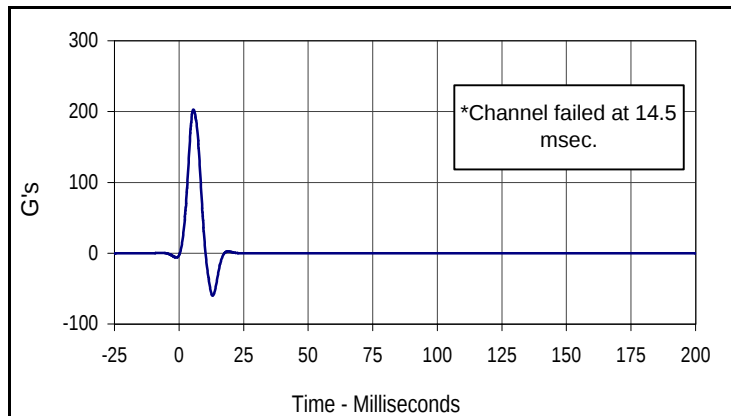
Curve Description			
Vehicle Left Sill at Rear Door Y Velocity			
CURNO	Type	SAE Class	Units
054	IN1	180	KMH
Max	Time	Min	Time
25.2	89.8	0.0	0.6



Curve Description			
Vehicle Left Sill at Front Door Y Velocity			
CURNO	Type	SAE Class	Units
055	IN1	180	KMH
Max	Time	Min	Time
19.1	84.0	0.0	0.7

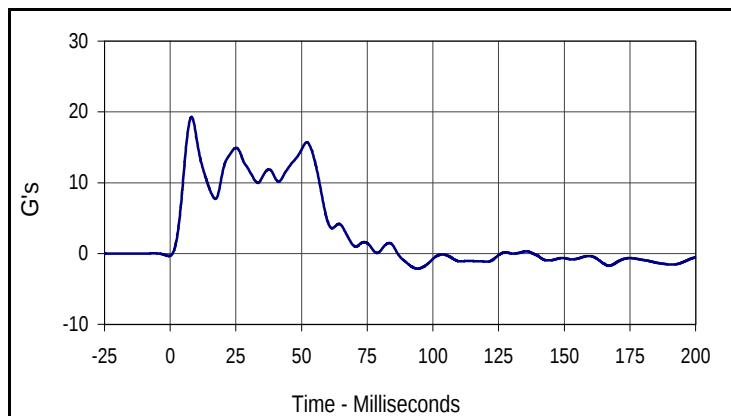
Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

Test Date: 10/26/04
 NHTSA No.: H55301

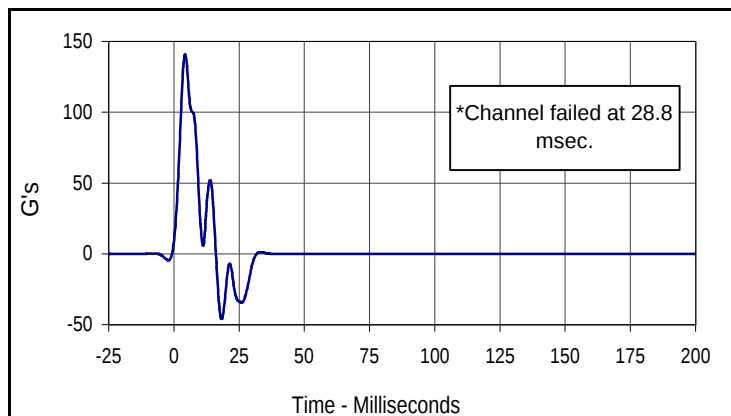


Curve Description			
Vehicle Left Front Door CL Y			
CURNO	Type	SAE Class	Units
056	FIL	60	G's
Max	Time	Min	Time
202.9	5.6	-59.7	13.0

*Channel failed at 14.5 msec.

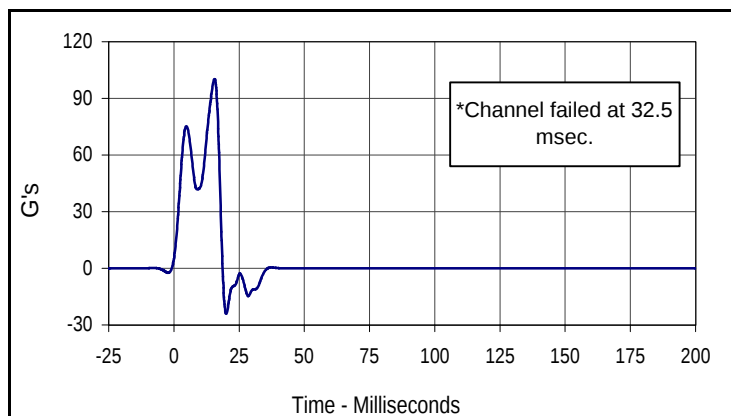


Curve Description			
Vehicle Right Rear Occupant Compartment			
CURNO	Type	SAE Class	Units
057	FIL	60	G's
Max	Time	Min	Time
19.3	8.1	-2.1	94.3



Curve Description			
Vehicle Left Front Door Mid Rear Y			
CURNO	Type	SAE Class	Units
058	FIL	60	G's
Max	Time	Min	Time
140.9	4.3	-46.0	18.3

*Channel failed at 28.8 msec.

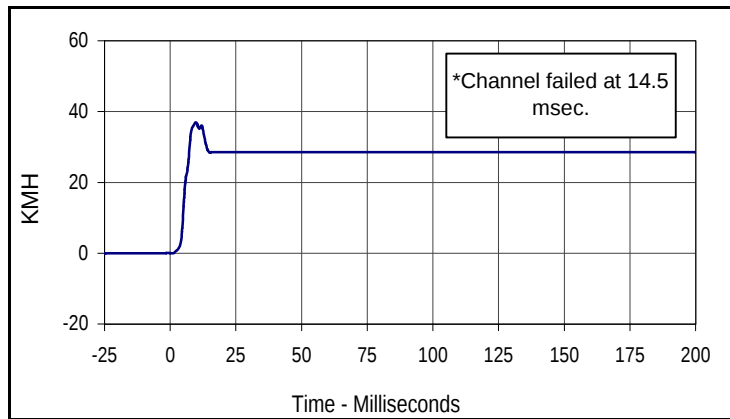


Curve Description			
Vehicle Left Front Door Upper CL Y			
CURNO	Type	SAE Class	Units
059	FIL	60	G's
Max	Time	Min	Time
100.2	15.6	-24.1	20.1

*Channel failed at 32.5 msec.

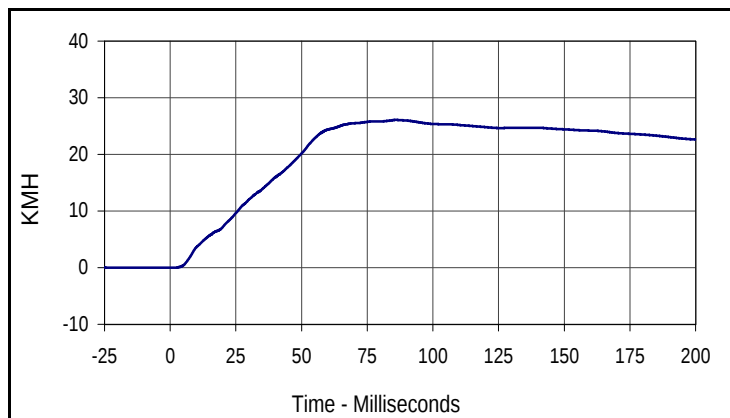
Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

Test Date: 10/26/04
 NHTSA No.: H55301

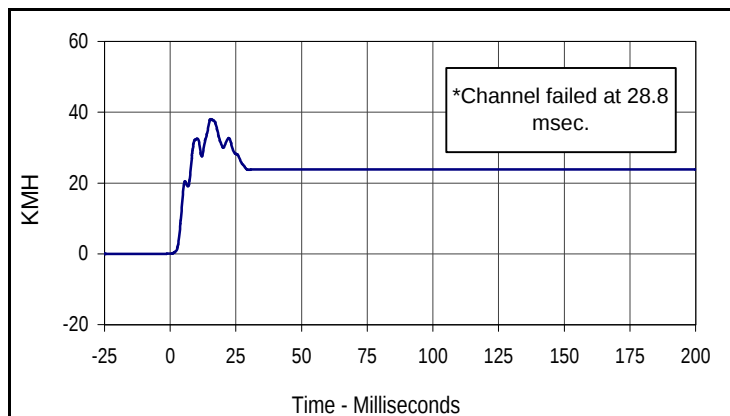


Curve Description			
Vehicle Left Front Door CL Y Velocity			
CURNO	Type	SAE Class	Units
056	IN1	180	KMH
Max	Time	Min	Time
37.0	9.8	-0.1	0.9

*Channel failed at 14.5 msec.

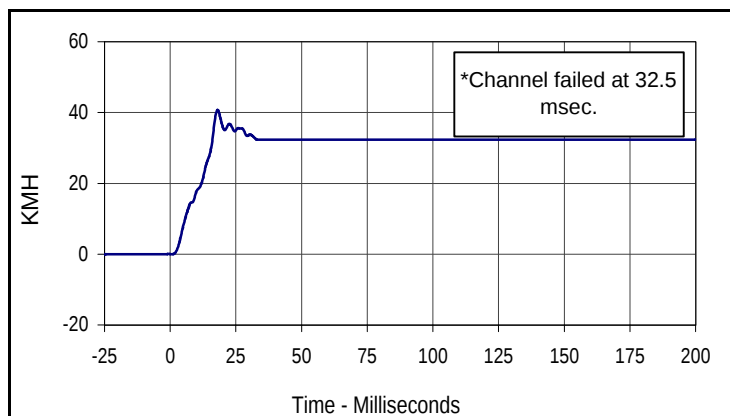


Curve Description			
Vehicle Right Rear Occupant Compartment Y Velocity			
CURNO	Type	SAE Class	Units
057	IN1	180	KMH
Max	Time	Min	Time
26.1	85.8	0.0	1.3



Curve Description			
Vehicle Left Front Door Mid Rear Y Velocity			
CURNO	Type	SAE Class	Units
058	IN1	180	KMH
Max	Time	Min	Time
38.1	15.4	0.0	0.0

*Channel failed at 28.8 msec.

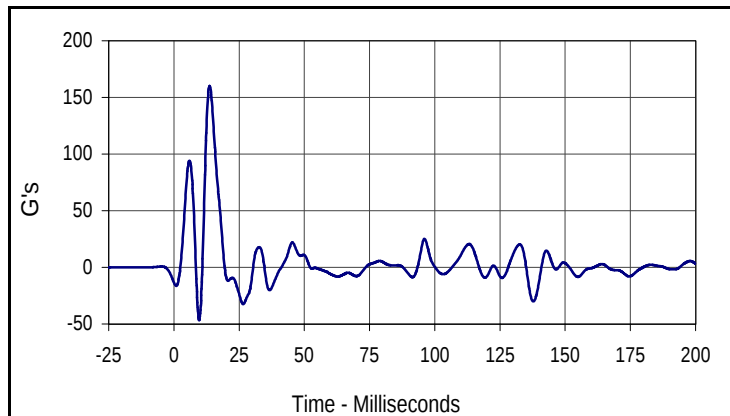


Curve Description			
Vehicle Left Front Door Upper CL Y Velocity			
CURNO	Type	SAE Class	Units
059	IN1	180	KMH
Max	Time	Min	Time
40.7	18.0	0.0	0.8

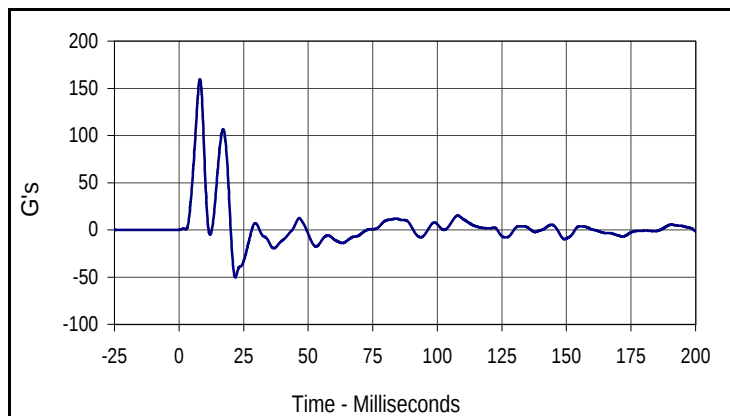
*Channel failed at 32.5 msec.

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

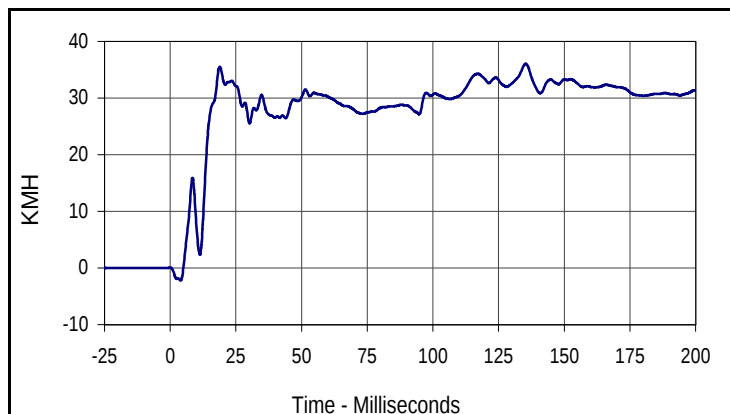
Test Date: 10/26/04
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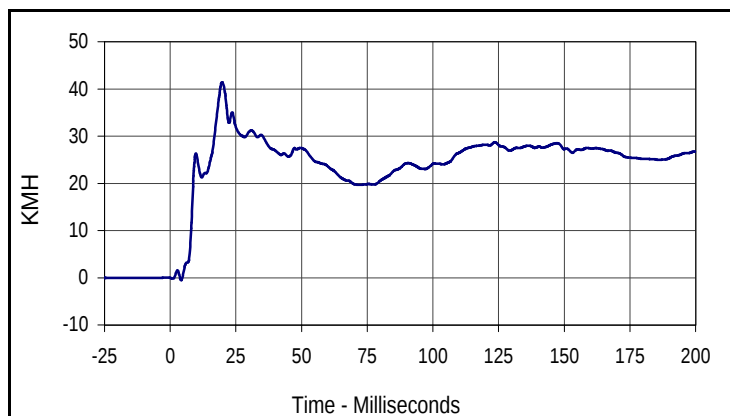
Curve Description			
Vehicle Left Rear Door Mid Rear Y			
CURNO	Type	SAE Class	Units
060	FIL	60	G's
Max	Time	Min	Time
160.2	13.7	-46.5	9.7



Curve Description			
Vehicle Left Rear Door Upper CL Y			
CURNO	Type	SAE Class	Units
061	FIL	60	G's
Max	Time	Min	Time
159.5	8.1	-50.1	21.8



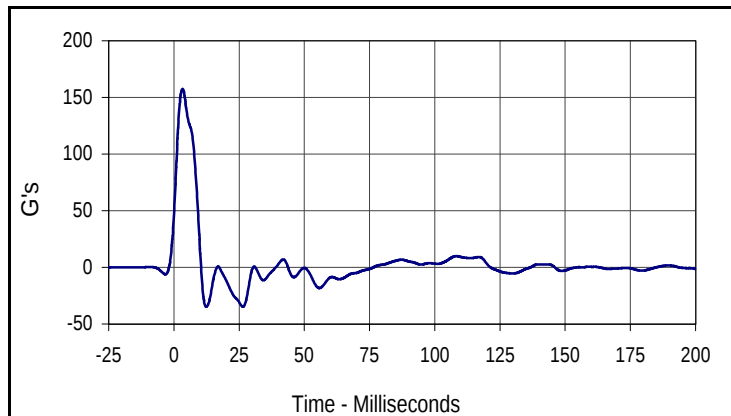
Curve Description			
Vehicle Left Rear Door Mid Rear Y Velocity			
CURNO	Type	SAE Class	Units
060	IN1	180	KMH
Max	Time	Min	Time
36.0	135.3	-2.2	4.0



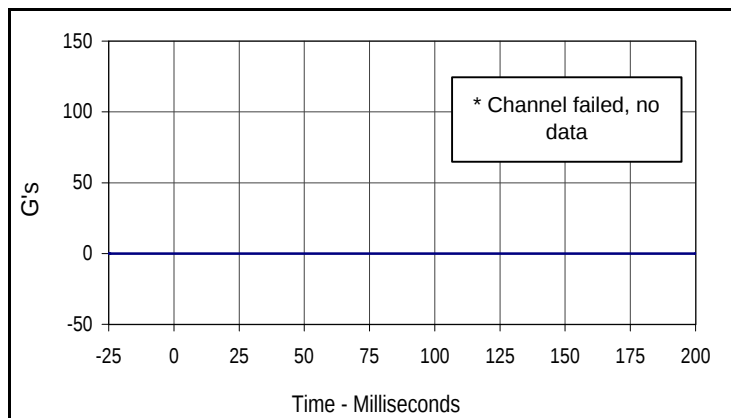
Curve Description			
Vehicle Left Rear Door Upper CL Y Velocity			
CURNO	Type	SAE Class	Units
061	IN1	180	KMH
Max	Time	Min	Time
41.4	19.8	-0.5	4.2

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

Test Date: 10/26/04
 NHTSA No.: H55301

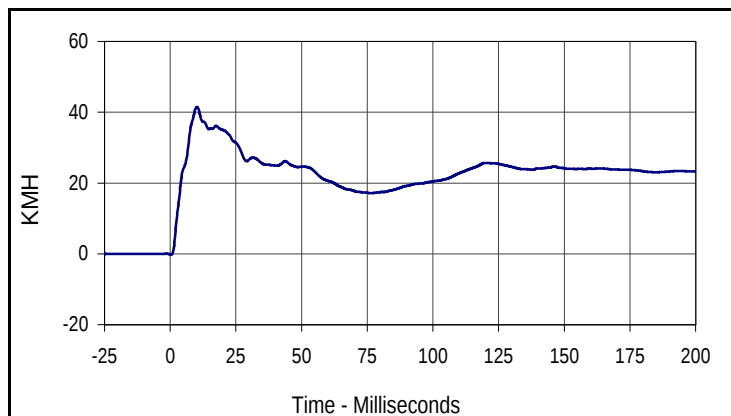


Curve Description			
Vehicle B-Post Lower Y			
CURNO	Type	SAE Class	Units
062	FIL	60	G's
Max	Time	Min	Time
157.6	3.3	-34.8	12.4

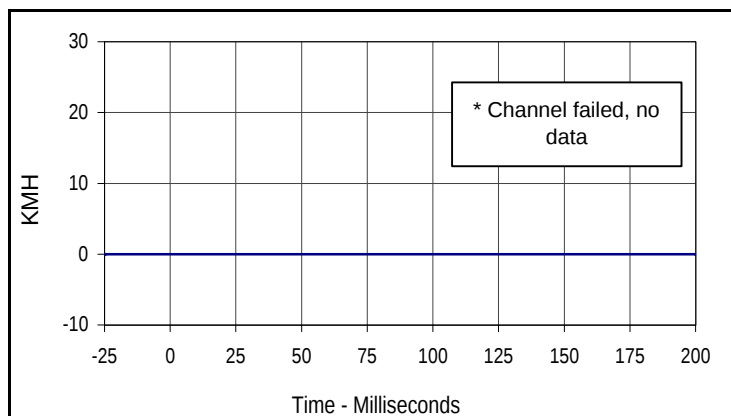


Curve Description			
Vehicle B-Post Middle Y			
CURNO	Type	SAE Class	Units
063	FIL	60	G's
Max	Time	Min	Time
0.0	0.0	0.0	0.0

* Channel failed, no data



Curve Description			
Vehicle B-Post Lower Y Velocity			
CURNO	Type	SAE Class	Units
062	IN1	180	KMH
Max	Time	Min	Time
41.5	10.2	-0.3	0.4

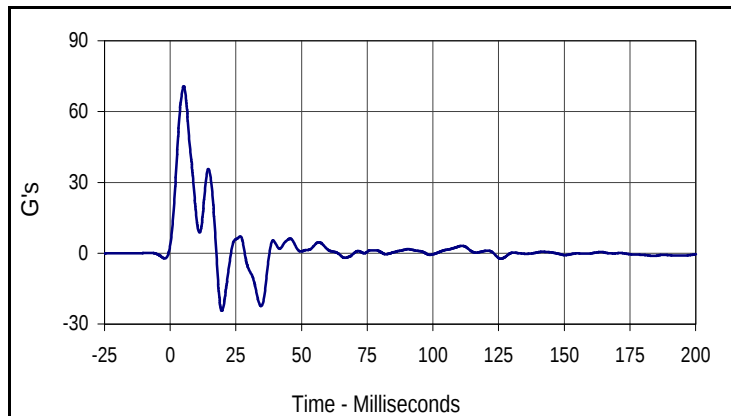


Curve Description			
Vehicle B-Post Middle Y Velocity			
CURNO	Type	SAE Class	Units
063	IN1	180	KMH
Max	Time	Min	Time
0.0	0.0	0.0	0.0

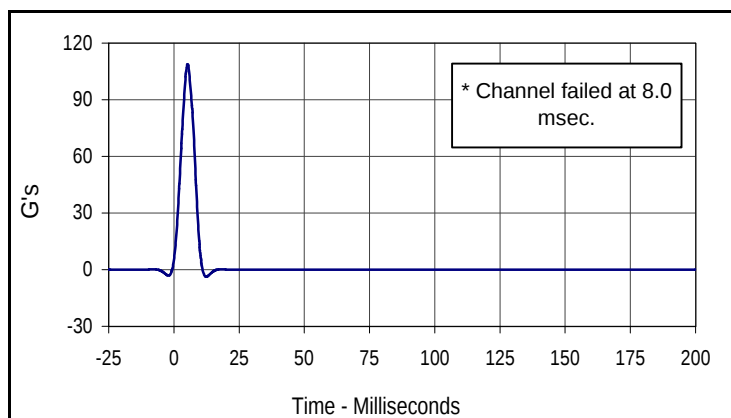
* Channel failed, no data

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

Test Date: 10/26/04
 NHTSA No.: H55301

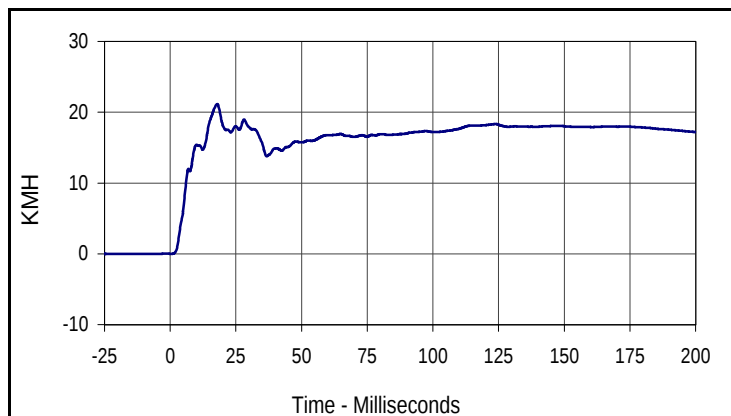


Curve Description			
Vehicle A-Post Lower Y			
CURNO	Type	SAE Class	Units
064	FIL	60	G's
Max	Time	Min	Time
70.7	5.2	-24.4	19.7

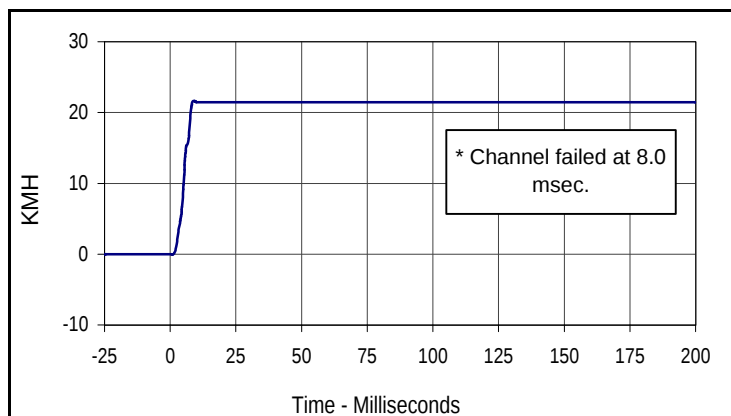


Curve Description			
Vehicle A-Post Middle Y			
CURNO	Type	SAE Class	Units
065	FIL	60	G's
Max	Time	Min	Time
108.9	5.3	-3.7	12.4

* Channel failed at 8.0 msec.



Curve Description			
Vehicle A-Post Lower Y Velocity			
CURNO	Type	SAE Class	Units
064	IN1	180	KMH
Max	Time	Min	Time
21.2	17.8	0.0	0.4

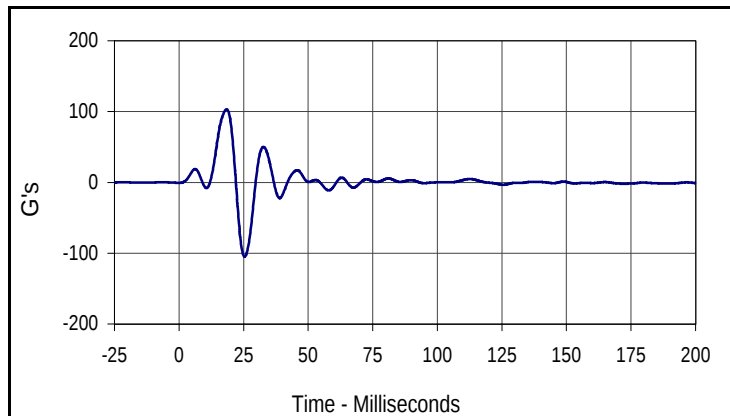


Curve Description			
Vehicle A-Post Middle Y Velocity			
CURNO	Type	SAE Class	Units
065	IN1	180	KMH
Max	Time	Min	Time
21.7	8.9	0.0	0.8

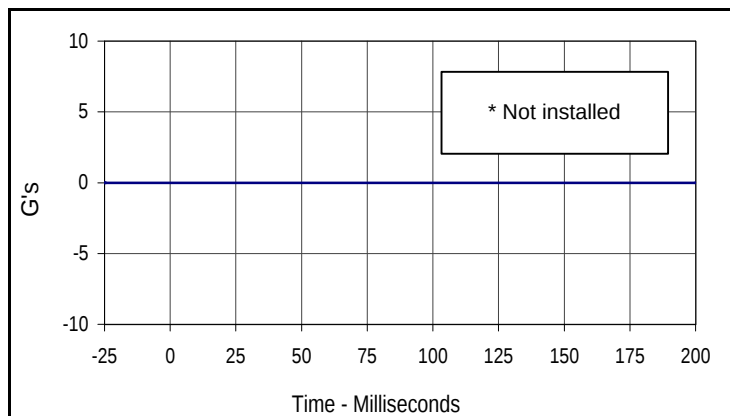
* Channel failed at 8.0 msec.

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

Test Date: 10/26/04
 NHTSA No.: H55301

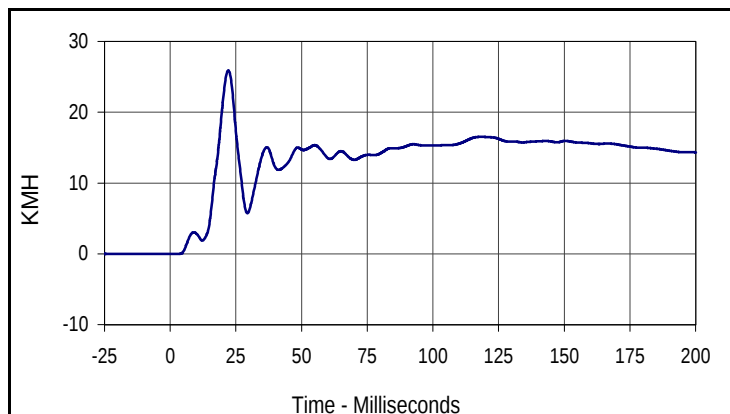


Curve Description			
Vehicle Left Front Seat Track			
CURNO	Type	SAE Class	Units
066	FIL	60	G's
Max	Time	Min	Time
103.4	18.4	-104.9	25.4

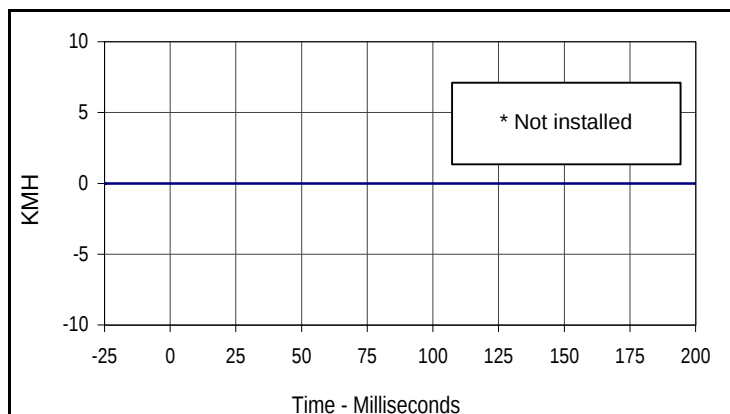


Curve Description			
Vehicle Rear Seat Structure			
CURNO	Type	SAE Class	Units
067	FIL	60	G's
Max	Time	Min	Time
0.0	0.0	0.0	0.0

* Not installed



Curve Description			
Vehicle Left Front Seat Track Y Velocity			
CURNO	Type	SAE Class	Units
066	IN1	180	KMH
Max	Time	Min	Time
25.9	22.1	0.0	0.0

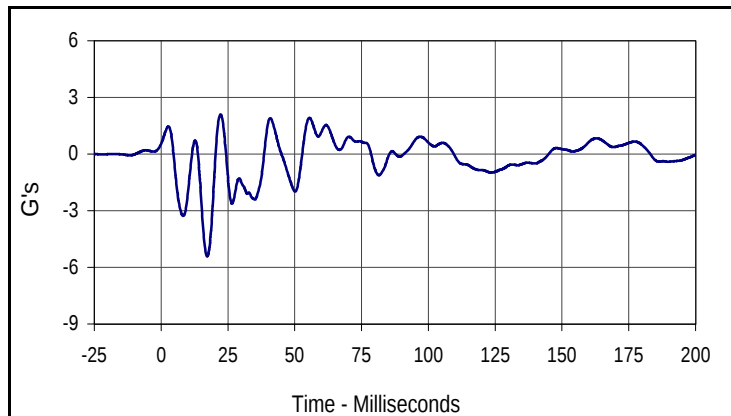


Curve Description			
Vehicle Rear Seat Structure Y Velocity			
CURNO	Type	SAE Class	Units
067	IN1	180	KMH
Max	Time	Min	Time
0.0	0.0	0.0	0.0

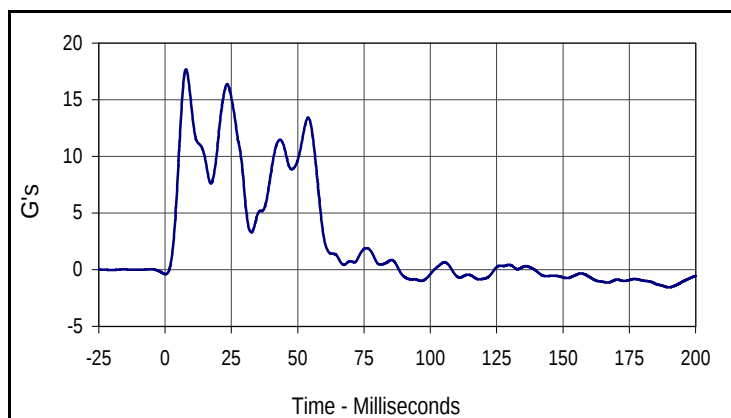
* Not installed

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

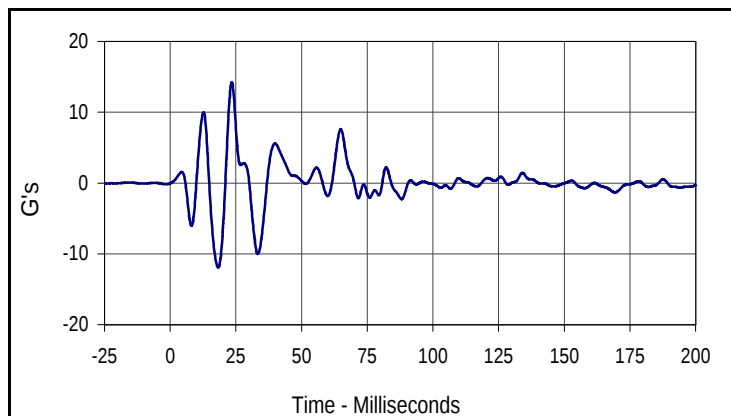
Test Date: 10/26/04
 NHTSA No.: H55301



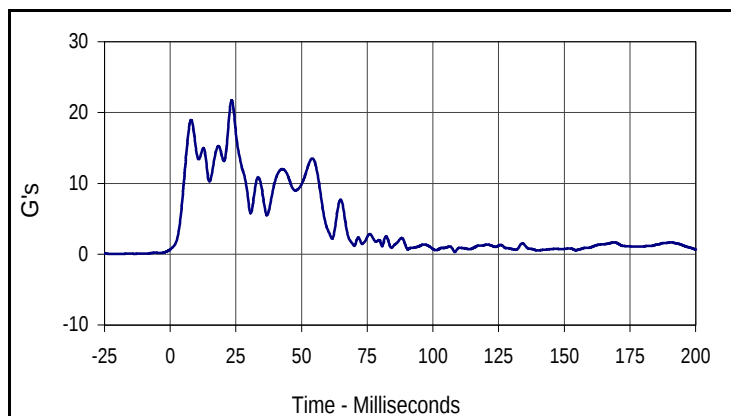
Curve Description			
Vehicle CG X			
CURNO	Type	SAE Class	Units
068	FIL	60	G's
Max	Time	Min	Time
2.1	22.3	-5.4	17.3



Curve Description			
Vehicle CG Y			
CURNO	Type	SAE Class	Units
069	FIL	60	G's
Max	Time	Min	Time
17.7	7.9	-1.6	189.9



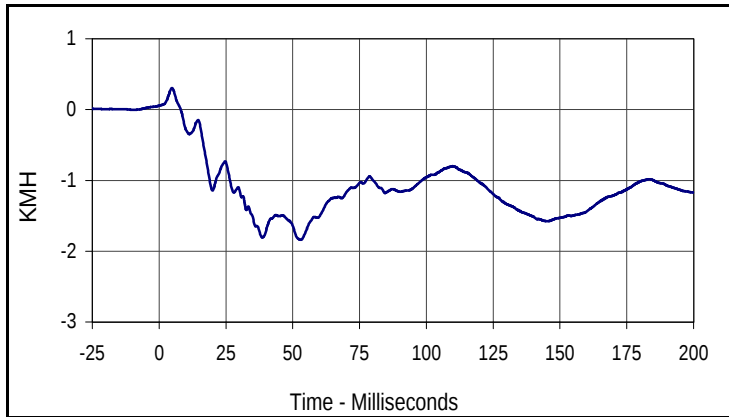
Curve Description			
Vehicle CG Z			
CURNO	Type	SAE Class	Units
070	FIL	60	G's
Max	Time	Min	Time
14.2	23.4	-11.9	18.3



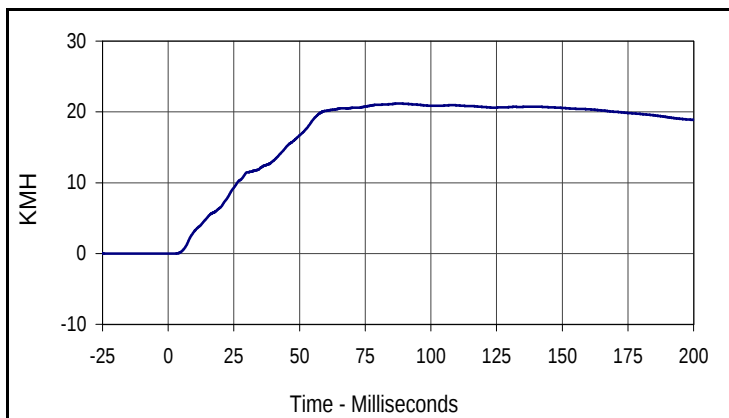
Curve Description			
Vehicle CG Resultant			
CURNO	Type	SAE Class	Units
068	RES	60	G's
Max	Time	Min	Time
21.7	23.4	0.3	108.4

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

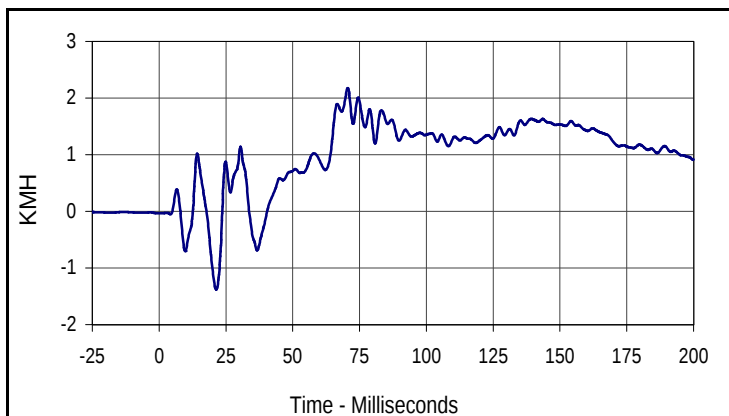
Test Date: 10/26/04
 NHTSA No.: H55301



Curve Description			
Vehicle CG X Velocity			
CURNO	Type	SAE Class	Units
068	IN1	180	KMH
Max	Time	Min	Time
0.3	4.8	-1.8	53.1



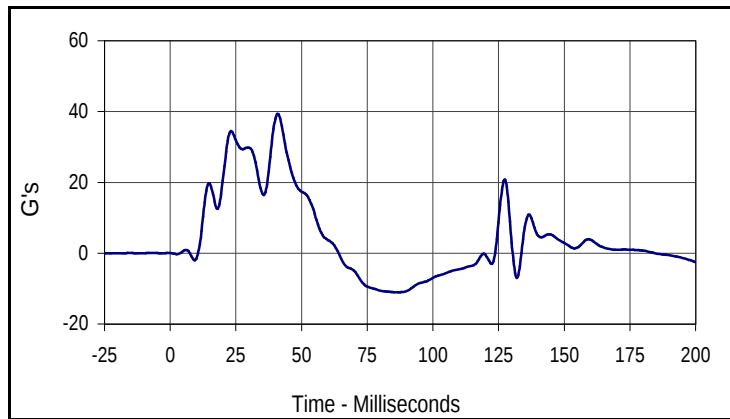
Curve Description			
Vehicle CG Y Velocity			
CURNO	Type	SAE Class	Units
069	IN1	180	KMH
Max	Time	Min	Time
21.2	87.8	0.0	0.0



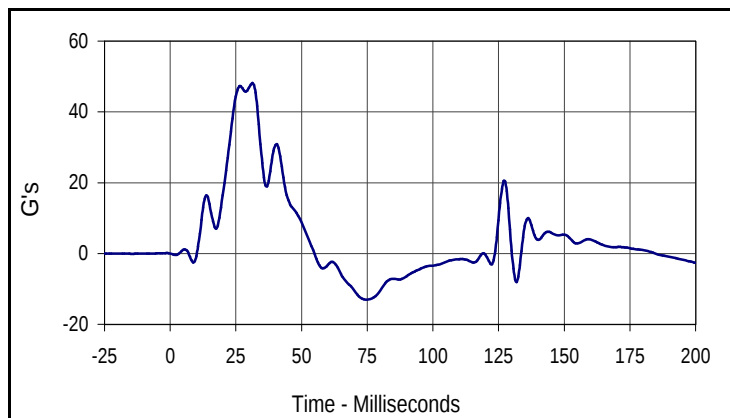
Curve Description			
Vehicle CG Z Velocity			
CURNO	Type	SAE Class	Units
070	IN1	180	KMH
Max	Time	Min	Time
2.2	70.6	-1.4	21.4

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

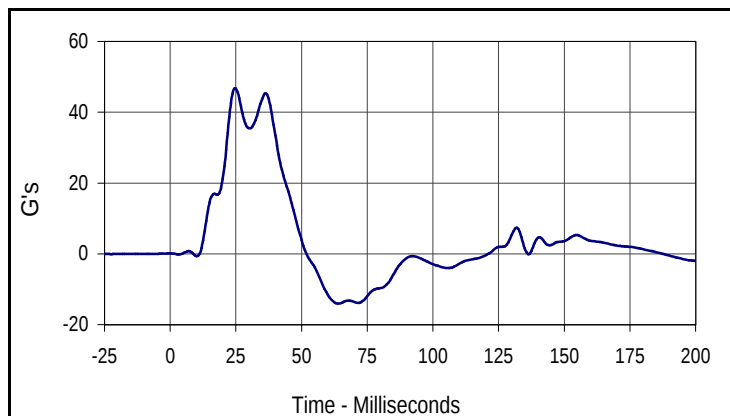
Test Date: 10/26/04
 NHTSA No.: H55301



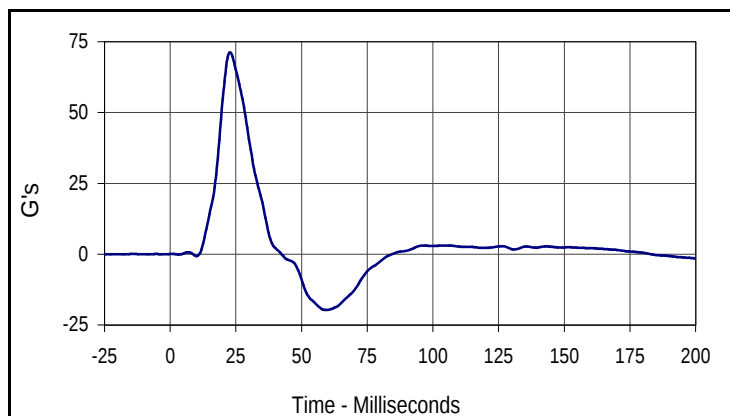
Curve Description			
Driver Upper Rib Primary Y			
CURNO	Type	SAE Class	Units
013	FIR	FIR100	G's
Max	Time	Min	Time
39.3	40.6	-11.0	86.3



Curve Description			
Driver Lower Rib Primary Y			
CURNO	Type	SAE Class	Units
014	FIR	FIR100	G's
Max	Time	Min	Time
48.2	31.3	-13.0	74.4



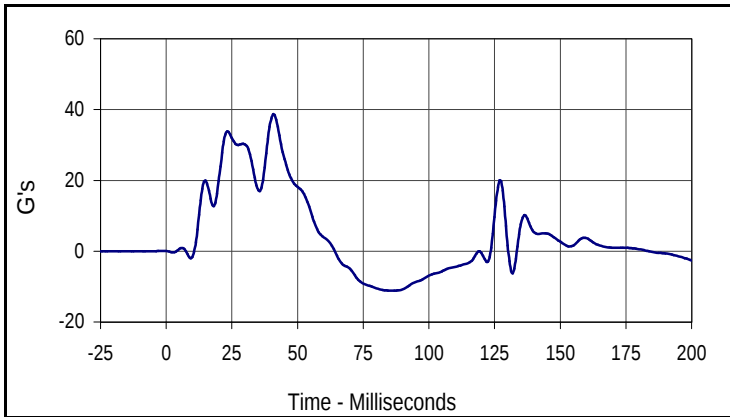
Curve Description			
Driver Lower Spine Primary Y			
CURNO	Type	SAE Class	Units
015	FIR	FIR100	G's
Max	Time	Min	Time
46.7	25.0	-14.0	63.8



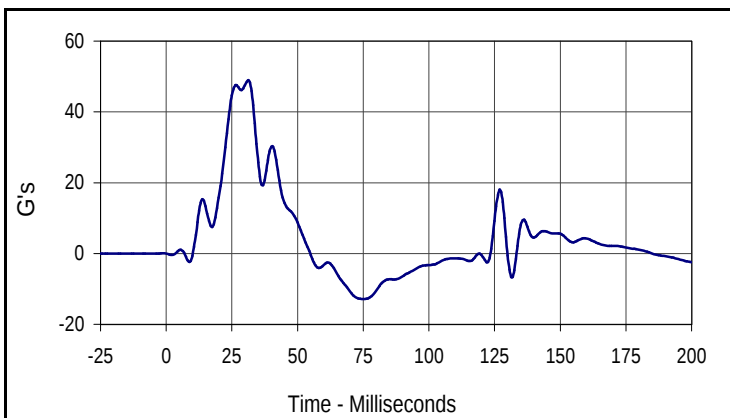
Curve Description			
Driver Pelvis Primary Y			
CURNO	Type	SAE Class	Units
016	FIR	FIR100	G's
Max	Time	Min	Time
71.2	22.5	-19.7	59.4

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

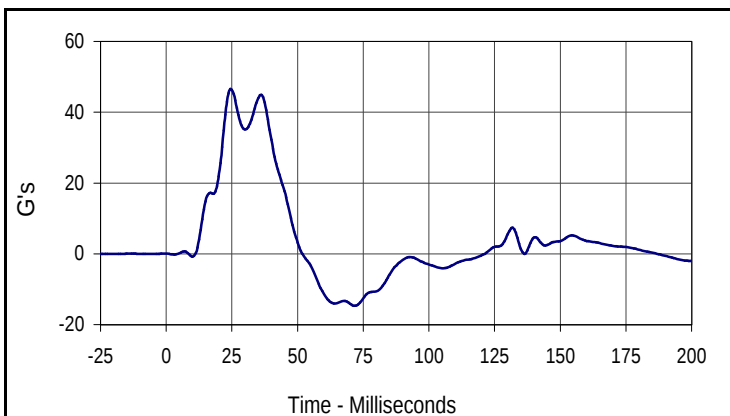
Test Date: 10/26/04
 NHTSA No.: H55301



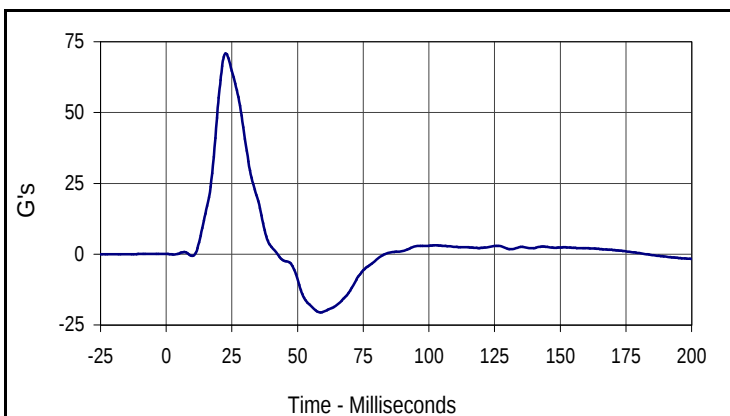
Curve Description			
Driver Upper Rib Redundant Y			
CURNO	Type	SAE Class	Units
017	FIR	FIR100	G's
Max	Time	Min	Time
38.6	40.6	-11.2	85.6



Curve Description			
Driver Lower Rib Redundant Y			
CURNO	Type	SAE Class	Units
018	FIR	FIR100	G's
Max	Time	Min	Time
48.9	31.3	-12.9	75.0



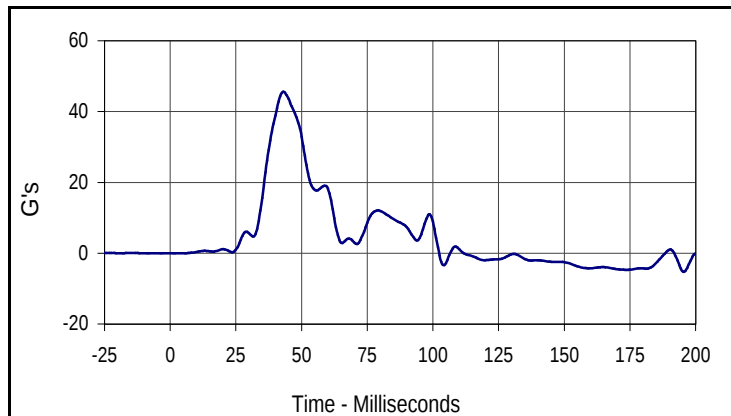
Curve Description			
Driver Lower Spine Redundant Y			
CURNO	Type	SAE Class	Units
019	FIR	FIR100	G's
Max	Time	Min	Time
46.5	24.4	-14.7	71.9



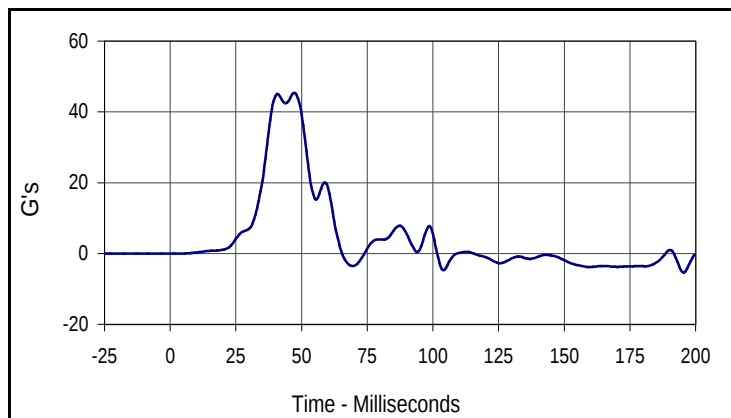
Curve Description			
Driver Pelvis Redundant Y			
CURNO	Type	SAE Class	Units
020	FIR	FIR100	G's
Max	Time	Min	Time
70.9	22.5	-20.6	58.8

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

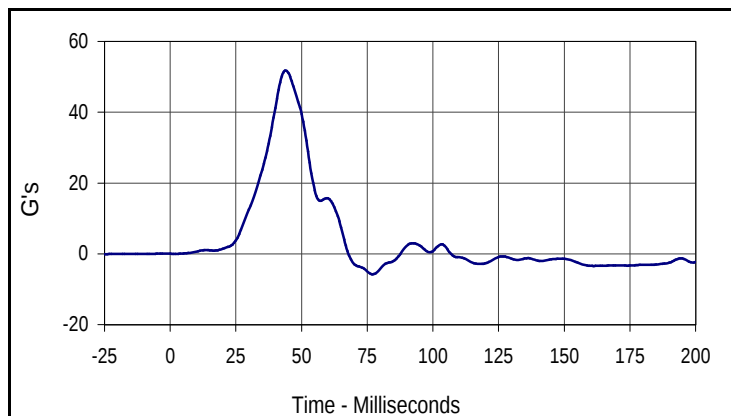
Test Date: 10/26/04
 NHTSA No.: H55301



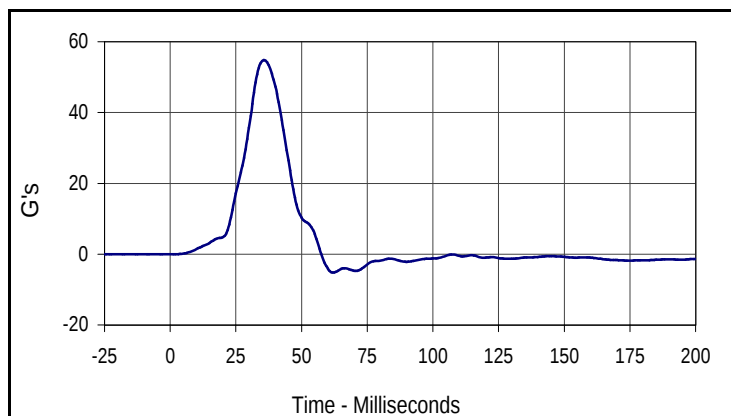
Curve Description			
Passenger Upper Rib Primary Y			
CURNO	Type	SAE Class	Units
035	FIR	FIR100	G's
Max	Time	Min	Time
45.6	43.1	-5.2	195.6



Curve Description			
Passenger Lower Rib Primary Y			
CURNO	Type	SAE Class	Units
036	FIR	FIR100	G's
Max	Time	Min	Time
45.3	47.5	-5.4	195.6



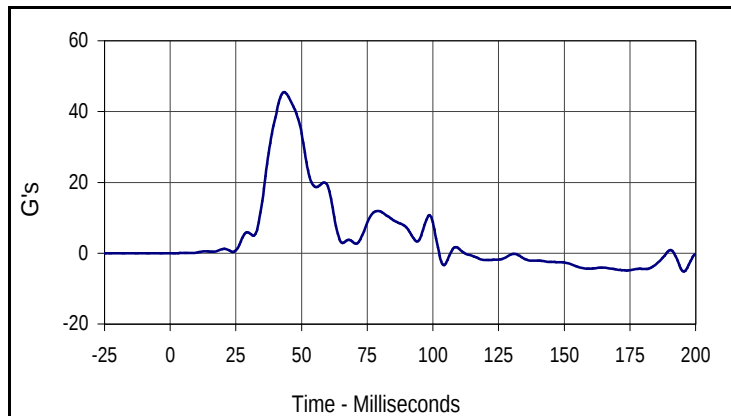
Curve Description			
Passenger Lower Spine Primary Y			
CURNO	Type	SAE Class	Units
037	FIR	FIR100	G's
Max	Time	Min	Time
51.7	43.8	-5.8	76.9



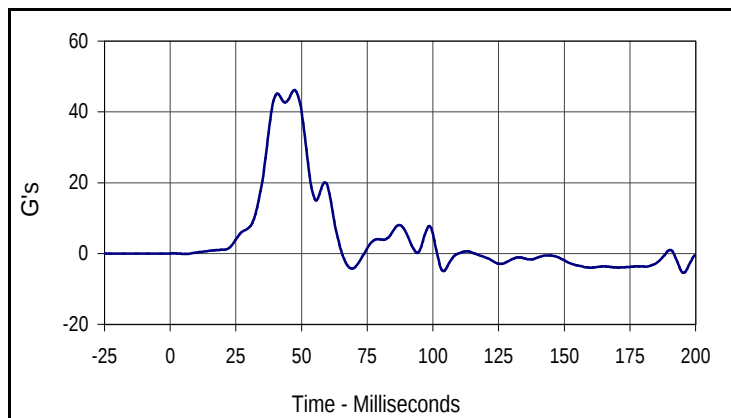
Curve Description			
Passenger Pelvis Primary Y			
CURNO	Type	SAE Class	Units
038	FIR	FIR100	G's
Max	Time	Min	Time
54.8	35.6	-5.2	61.9

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

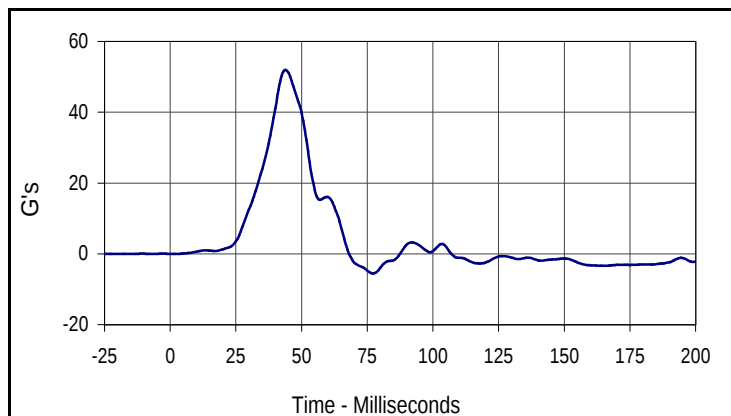
Test Date: 10/26/04
 NHTSA No.: H55301



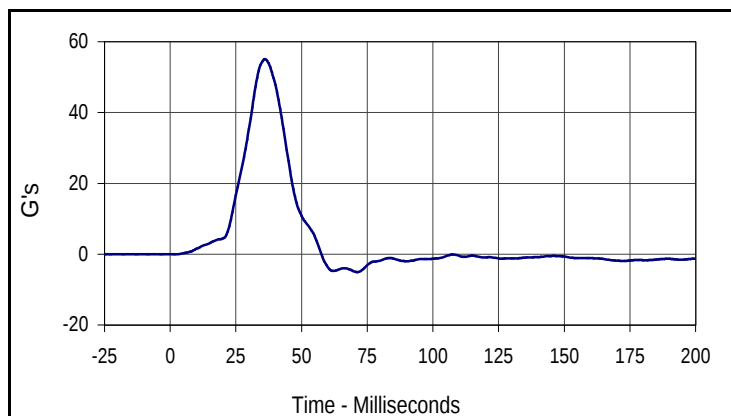
Curve Description			
Passenger Upper Rib Redundant Y			
CURNO	Type	SAE Class	Units
039	FIR	FIR100	G's
Max	Time	Min	Time
45.4	43.1	-5.2	195.6



Curve Description			
Passenger Lower Rib Redundant Y			
CURNO	Type	SAE Class	Units
040	FIR	FIR100	G's
Max	Time	Min	Time
46.1	47.5	-5.4	195.6



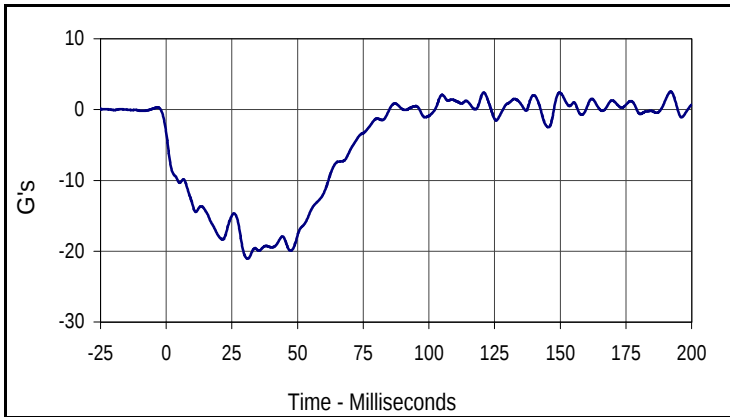
Curve Description			
Passenger Lower Spine Redundant Y			
CURNO	Type	SAE Class	Units
041	FIR	FIR100	G's
Max	Time	Min	Time
51.9	43.8	-5.5	77.5



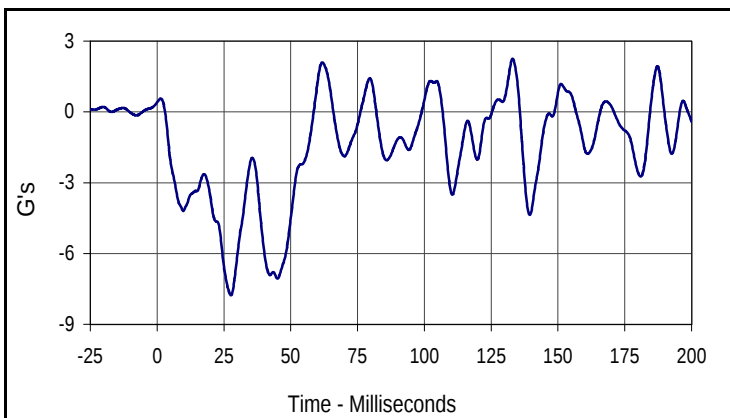
Curve Description			
Passenger Pelvis Redundant Y			
CURNO	Type	SAE Class	Units
042	FIR	FIR100	G's
Max	Time	Min	Time
55.1	36.3	-5.1	71.3

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

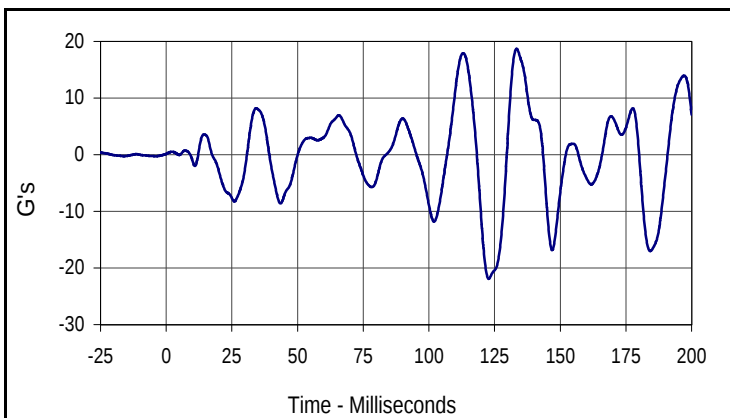
Test Date: 10/26/04
 NHTSA No.: H55301



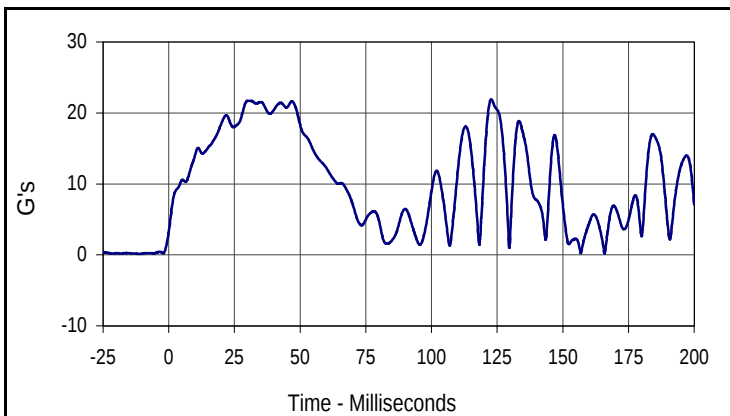
Curve Description			
MDB CG X			
CURNO	Type	SAE Class	Units
071	FIL	60	G's
Max	Time	Min	Time
2.5	192.1	-21.1	31.0



Curve Description			
MDB CG Y			
CURNO	Type	SAE Class	Units
072	FIL	60	G's
Max	Time	Min	Time
2.3	133.0	-7.8	27.7



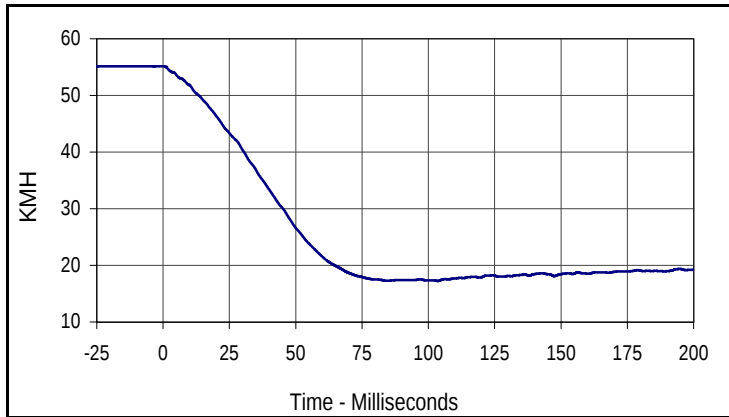
Curve Description			
MDB CG Z			
CURNO	Type	SAE Class	Units
073	FIL	60	G's
Max	Time	Min	Time
18.7	133.4	-21.9	122.8



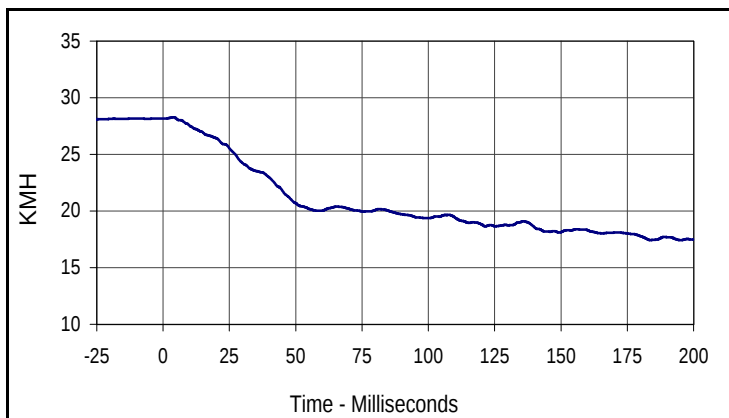
Curve Description			
MDB CG Resultant			
CURNO	Type	SAE Class	Units
071	RES	60	G's
Max	Time	Min	Time
21.9	122.7	0.2	165.9

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

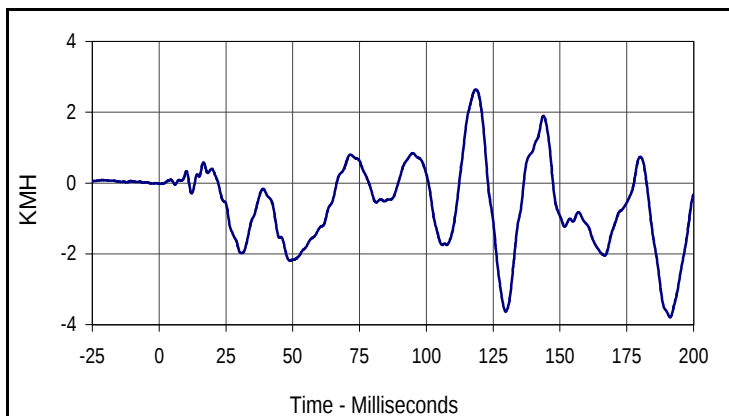
Test Date: 10/26/04
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Curve Description			
MDB CG X Velocity			
CURNO	Type	SAE Class	Units
071	IN1	180	KMH
Max	Time	Min	Time
55.1	0.2	17.2	103.5



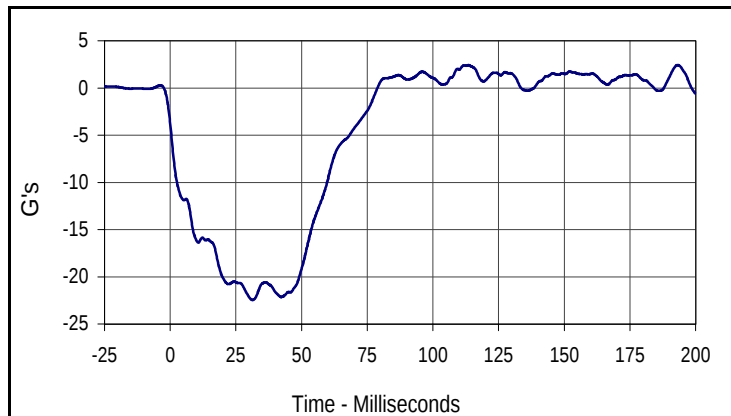
Curve Description			
MDB CG Y Velocity			
CURNO	Type	SAE Class	Units
072	IN1	180	KMH
Max	Time	Min	Time
28.3	3.9	17.4	195.2



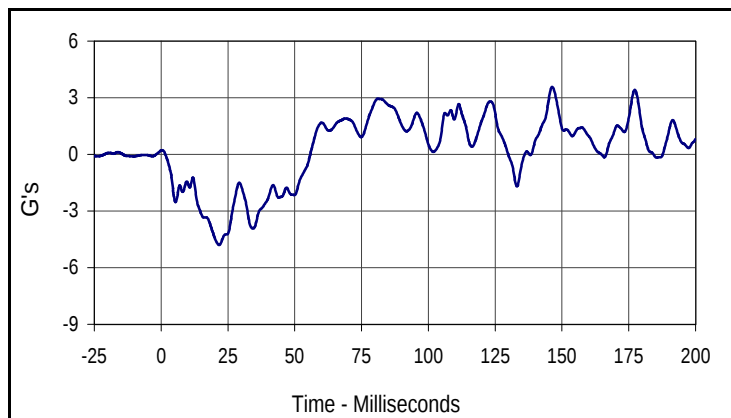
Curve Description			
MDB CG Z Velocity			
CURNO	Type	SAE Class	Units
073	IN1	180	KMH
Max	Time	Min	Time
2.6	118.5	-3.8	191.2

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

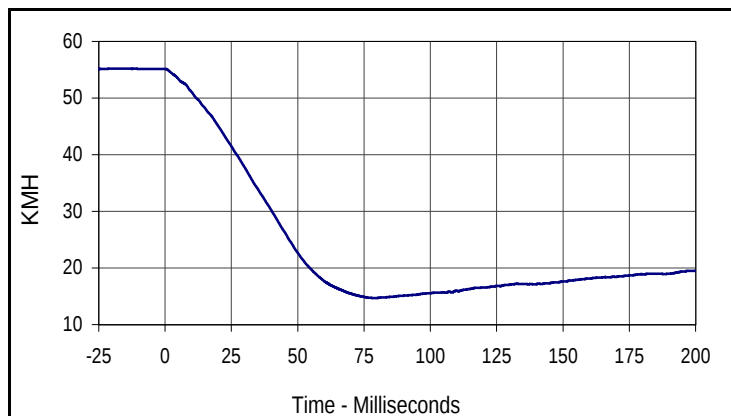
Test Date: 10/26/04
 NHTSA No.: H55301



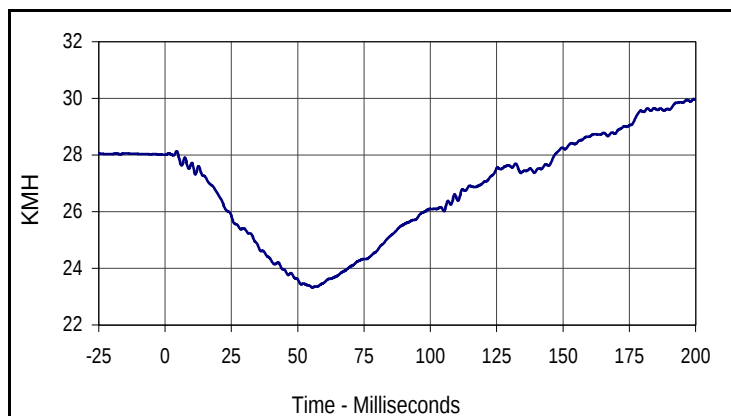
Curve Description			
MDB Rear X			
CURNO	Type	SAE Class	Units
074	FIL	60	G's
Max	Time	Min	Time
2.4	113.6	-22.5	31.3



Curve Description			
MDB Rear Y			
CURNO	Type	SAE Class	Units
075	FIL	60	G's
Max	Time	Min	Time
3.6	146.3	-4.8	21.7



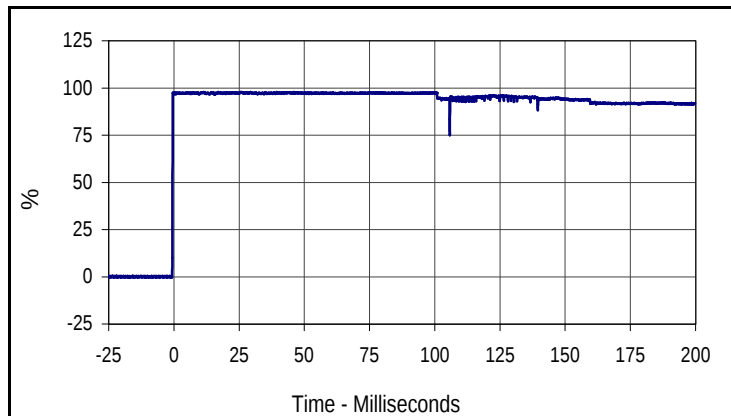
Curve Description			
MDB Rear X Velocity			
CURNO	Type	SAE Class	Units
074	IN1	180	KMH
Max	Time	Min	Time
55.1	0.0	14.7	79.1



Curve Description			
MDB Rear Y Velocity			
CURNO	Type	SAE Class	Units
075	IN1	180	KMH
Max	Time	Min	Time
30.0	199.3	23.3	55.6

Test Vehicle: 2005 Acura RL 4-Door Sedan
 Test Program: 55/28 km/h Side Impact NCAP

Test Date: 10/26/04
 NHTSA No.: H55301



Curve Description			
MDB Right Bumper Contact			
CURNO	Type	SAE Class	Units
076	FIL	1000	%
Max	Time	Cross %	Time
97.9	11.4	50.0	-0.5

APPENDIX C

SID/HIII CONFIGURATION AND PERFORMANCE VERIFICATION DATA

APPENDIX C
PRE-TEST SID / HIII CONFIGURATION AND PERFORMANCE VERIFICATION DATA

Test Program: SID / HIII External Measurements
 ATD Serial No.: 274

Test Date: 10/16/04
 Test I.D.: N/A



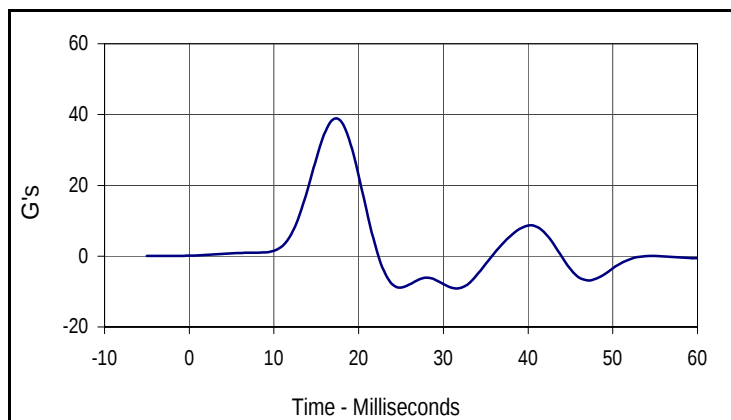
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
SH- Seated Height	mm	889 to 909	905	Pass
HP- Hip Point Height	mm	99 (reference)	99	Pass
RH- Rib Height	mm	502 to 520	512	Pass
KH- Knee Pivot From Back Line	mm	511 to 526	521	Pass
KV- Knee Pivot From Floor	mm	490 to 505	495	Pass
HW- Hip Width	mm	356 to 391	378	Pass
Overall Test Results				Pass

Test Program: SID / HIII Thorax Lateral Impact
 ATD Serial No.: 274

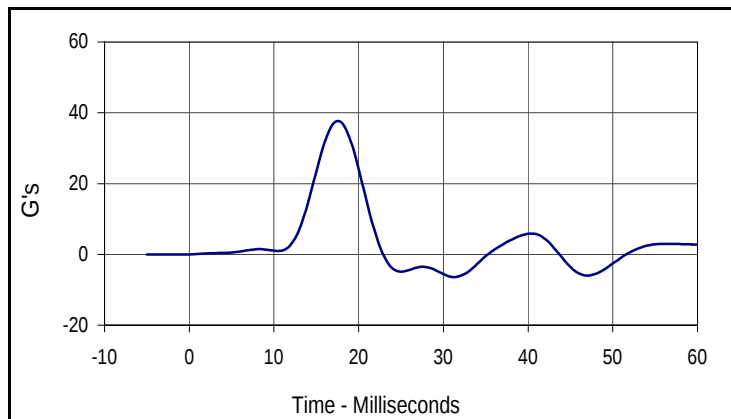
Test Date: 10/14/04
 Test I.D.: TH10A



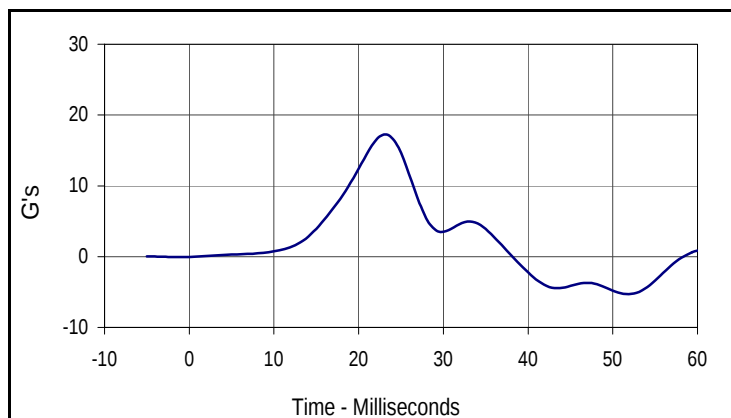
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.28	Pass
Upper Rib Acceleration	G's	37.0 to 46.0	38.9	Pass
Lower Rib Acceleration	G's	37.0 to 46.0	37.7	Pass
Thoracic Spine Acceleration	G's	15.0 to 22.0	17.3	Pass
Overall Test Results			Pass	



Curve Description			
Upper Rib Primary Y			
CURNO	Type	SAE Class	Units
001	FIL	FIR100	G's
Max	Time	Min	Time
38.9	17.5	-9.1	31.9



Curve Description			
Lower Rib Primary Y			
CURNO	Type	SAE Class	Units
002	FIL	FIR100	G's
Max	Time	Min	Time
37.7	17.5	-6.4	31.3



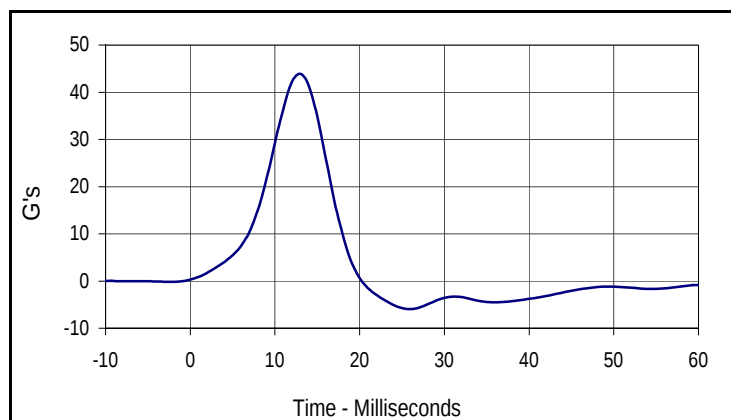
Curve Description			
Lower Spine Primary Y			
CURNO	Type	SAE Class	Units
003	FIL	FIR100	G's
Max	Time	Min	Time
17.3	23.1	-5.3	51.9

Test Program: SID / HIII Pelvis Lateral Impact
 ATD Serial No.: 274

Test Date: 10/15/04
 Test I.D.: PL10A



Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.3	Pass
Peak Pelvis Acceleration	G's	40.0 to 60.0	43.8	Pass
Acceleration Time Above 20 G's	Msec.	3.0 to 7.0	6.87	Pass
Overall Test Results				Pass



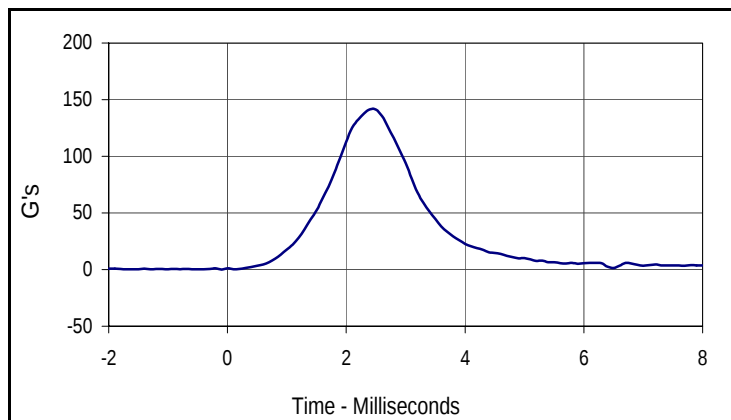
Curve Description			
Pelvis Primary Y			
CURNO	Type	SAE Class	Units
001	FIL	FIR100	G's
Max	Time	Min	Time
43.8	13.1	-5.9	25.6

Test Program: SID / HIII Head Drop Lateral Impact Test
 ATD Serial No.: 274

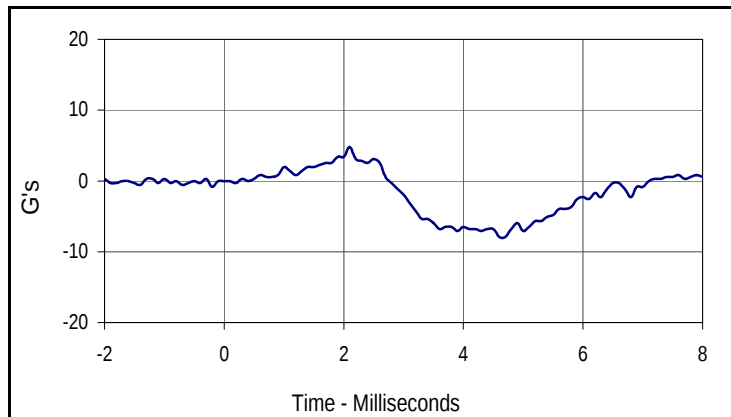
Test Date: 10/14/04
 Test I.D.: HD10A



Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Peak Resultant Acceleration	G's	120.0 to 150.0	141.4	Pass
Peak Longitudinal Acceleration	G's	≤15.0	7.9	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Oscillations After Main Pulse	%	<10	7.3	Pass
Overall Test Results			Pass	



Curve Description			
Head Resultant			
CURNO	Type	SAE Class	Units
001	RES	1000	G's
Max	Time	Min	Time
141.4	2.4	0.0	-0.1



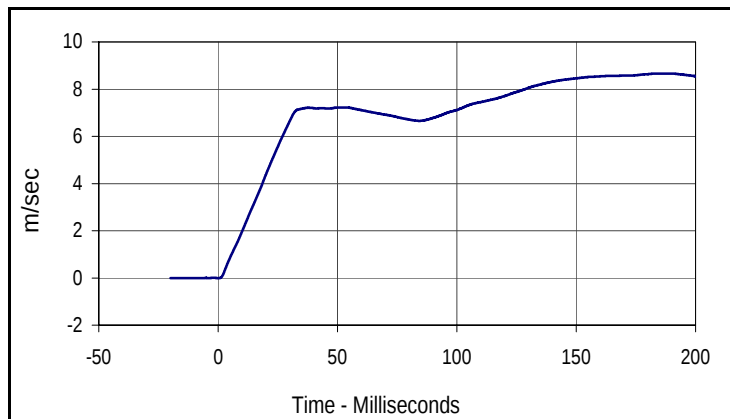
Curve Description			
Head X			
CURNO	Type	SAE Class	Units
002	FIL	1000	G's
Max	Time	Min	Time
4.8	2.1	-7.9	4.6

Test Program: SID / HIII Neck Pendulum Lateral Test
 ATD Serial No.: 274

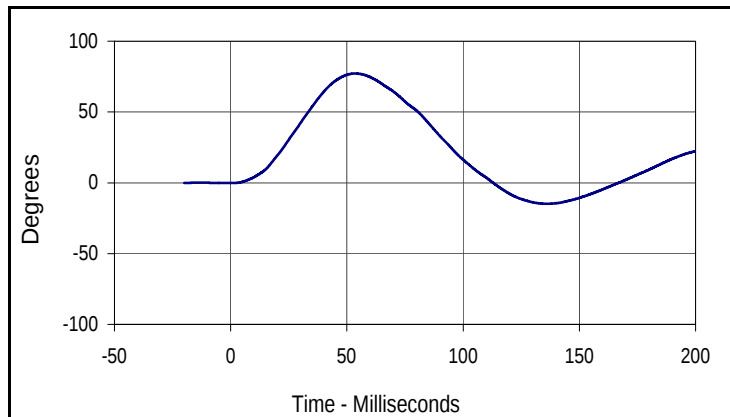
Test Date: 10/14/04
 Test I.D.: NB10A



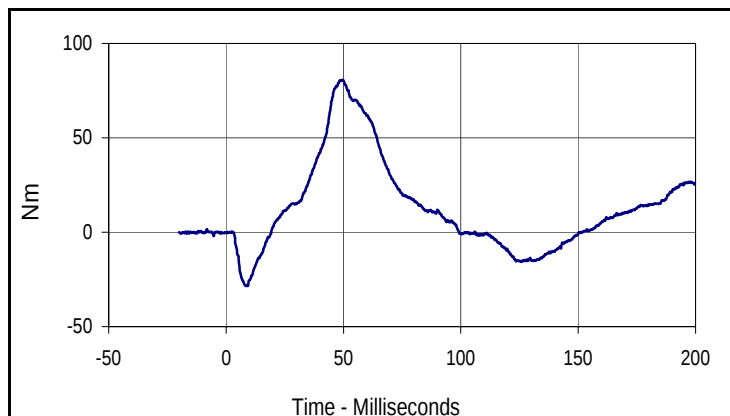
Tested Parameter		Units	Specification	Result	Pass/Fail
Laboratory Temperature		°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity		%	10 to 70	30	Pass
Pendulum Velocity		m/sec	6.89 to 7.13	7.04	Pass
Pendulum Deceleration	10 Msec.	m/sec	1.96 to 2.55	1.97	Pass
	20 Msec.	m/sec	4.12 to 5.10	4.38	Pass
	30 Msec.	m/sec	5.73 to 7.01	6.65	Pass
	40 to 70	m/sec	6.27 to 7.64	7.23	Pass
"D" Plane Rotation	Max	Degrees	66.0 to 82.0	77.2	Pass
Max Rotation Time After Peak Moment		Msec.	2.0 to 16.0	3.9	Pass
Rotation Time From Peak to Zero Angle		Msec.	58.0 to 67.0	59.5	Pass
Moment About Occipital Condyle		Nm	73.0 to 88.0	79.2	Pass
Positive Moment Decay, Time To 0 Nm		Msec.	49.0 to 64.0	49.7	Pass
			Overall Test Results		Pass



Curve Description			
Pendulum Velocity			
CURNO	Type	SAE Class	Units
001	FIL	180	m/sec
Max	Time	Min	Time
8.7	186.4	0.0	0.4



Curve Description			
"D" Plane Rotation			
CURNO	Type	SAE Class	Units
003	FIL	60	Degrees
Max	Time	Min	Time
77.2	53.4	-14.8	135.9



Curve Description			
Moment About Occipital Condyle			
CURNO	Type	SAE Class	Units
004	FIL	600	Nm
Max	Time	Min	Time
79.2	49.5	-28.0	9.3

Test Program: SID / HIII External Measurements
 ATD Serial No.: 275

Test Date: 10/16/04
 Test I.D.: N/A



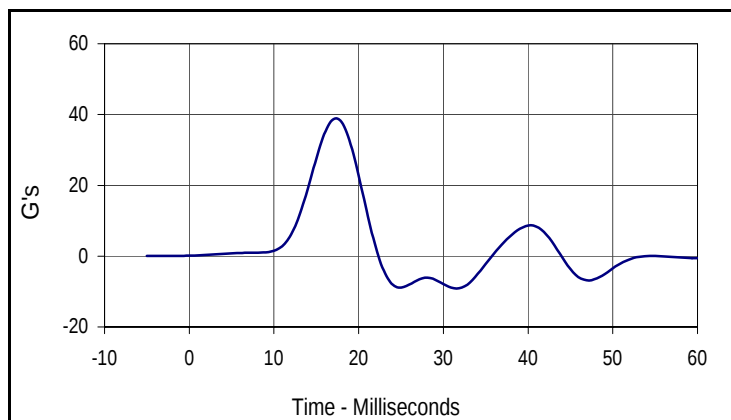
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
SH- Seated Height	mm	889 to 909	894	Pass
HP- Hip Point Height	mm	99 (reference)	99	Pass
RH- Rib Height	mm	502 to 520	510	Pass
KH- Knee Pivot From Back Line	mm	511 to 526	516	Pass
KV- Knee Pivot From Floor	mm	490 to 505	500	Pass
HW- Hip Width	mm	356 to 391	372	Pass
Overall Test Results				Pass

Test Program: SID / HIII Thorax Lateral Impact
 ATD Serial No.: 275

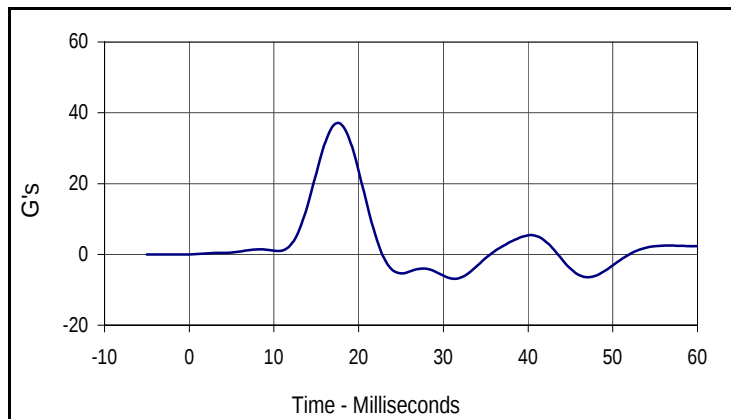
Test Date: 10/14/04
 Test I.D.: TH10B



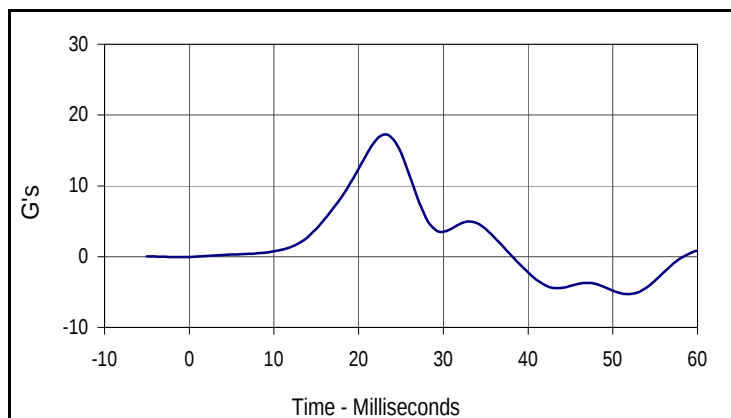
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.25	Pass
Upper Rib Acceleration	G's	37.0 to 46.0	38.9	Pass
Lower Rib Acceleration	G's	37.0 to 46.0	37.1	Pass
Thoracic Spine Acceleration	G's	15.0 to 22.0	17.3	Pass
Overall Test Results			Pass	



Curve Description			
Upper Rib Primary Y			
CURNO	Type	SAE Class	Units
001	FIL	FIR100	G's
Max	Time	Min	Time
38.9	17.5	-9.1	31.9



Curve Description			
Lower Rib Primary Y			
CURNO	Type	SAE Class	Units
002	FIL	FIR100	G's
Max	Time	Min	Time
37.1	17.5	-6.9	31.3



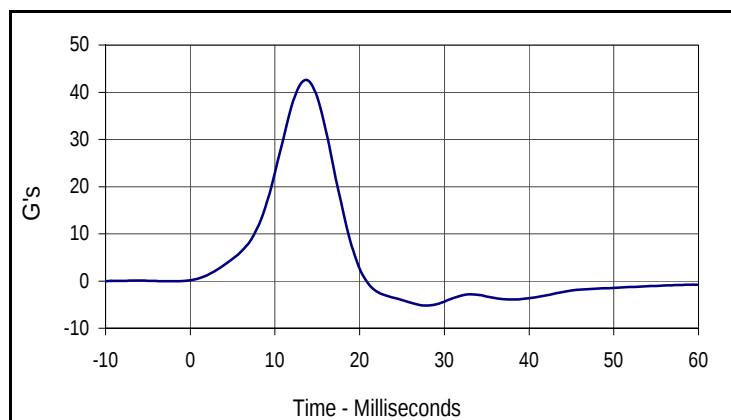
Curve Description			
Lower Spine Primary Y			
CURNO	Type	SAE Class	Units
003	FIL	FIR100	G's
Max	Time	Min	Time
17.3	23.1	-5.3	51.9

Test Program: SID / HIII Pelvis Lateral Impact
 ATD Serial No.: 275

Test Date: 10/15/04
 Test I.D.: PL10B



Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.31	Pass
Peak Pelvis Acceleration	G's	40.0 to 60.0	42.6	Pass
Acceleration Time Above 20 G's	Msec.	3.0 to 7.0	6.88	Pass
Overall Test Results				Pass



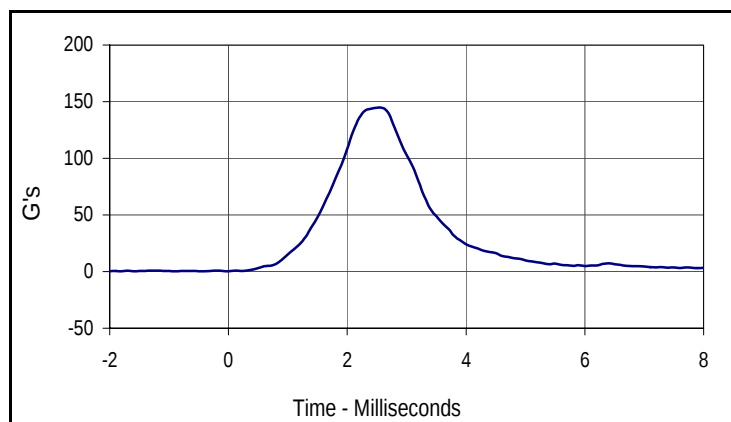
Curve Description			
Pelvis Primary Y			
CURNO	Type	SAE Class	Units
001	FIL	FIR100	G's
Max	Time	Min	Time
42.6	13.8	-5.2	28.1

Test Program: SID / HIII Head Drop Lateral Impact Test
 ATD Serial No.: 275

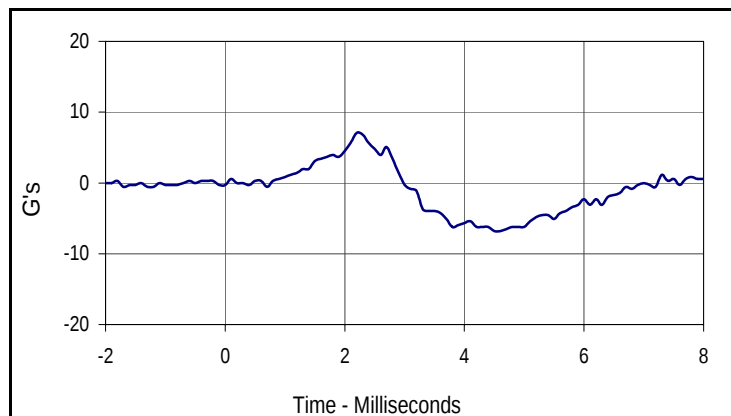
Test Date: 10/14/04
 Test I.D.: HD10B



Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Peak Resultant Acceleration	G's	120.0 to 150.0	144.6	Pass
Peak Longitudinal Acceleration	G's	≤15.0	7.1	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Oscillations After Main Pulse	%	<10	6.8	Pass
Overall Test Results			Pass	



Curve Description			
Head Resultant			
CURNO	Type	SAE Class	Units
001	RES	1000	G's
Max	Time	Min	Time
144.6	2.5	0.3	-2.0



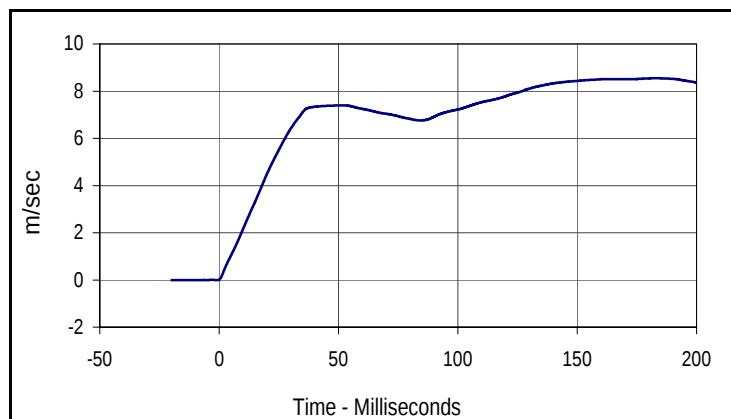
Curve Description			
Head X			
CURNO	Type	SAE Class	Units
002	FIL	1000	G's
Max	Time	Min	Time
7.1	2.2	-6.8	4.5

Test Program: SID / HIII Neck Pendulum Lateral Test
 ATD Serial No.: 275

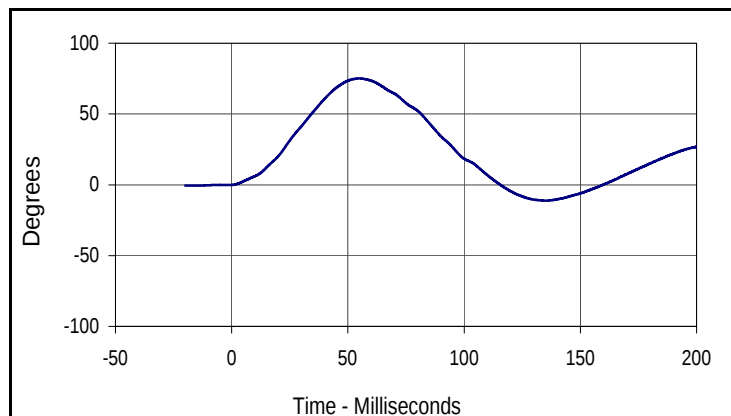
Test Date: 10/14/04
 Test I.D.: NB10B



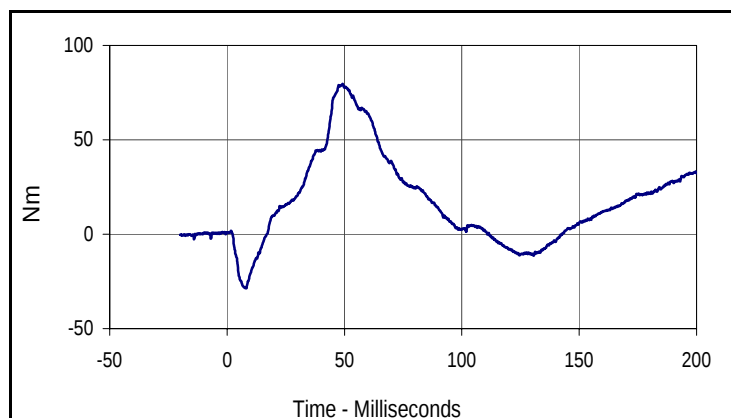
Tested Parameter		Units	Specification	Result	Pass/Fail
Laboratory Temperature		°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity		%	10 to 70	30	Pass
Pendulum Velocity		m/sec	6.89 to 7.13	7.04	Pass
Pendulum Deceleration	10 Msec.	m/sec	1.96 to 2.55	2.16	Pass
	20 Msec.	m/sec	4.12 to 5.10	4.48	Pass
	30 Msec.	m/sec	5.73 to 7.01	6.42	Pass
	40 to 70	m/sec	6.27 to 7.64	7.40	Pass
"D" Plane Rotation	Max	Degrees	66.0 to 82.0	75.1	Pass
Max Rotation Time After Peak Moment		Msec.	2.0 to 16.0	5.7	Pass
Rotation Time From Peak to Zero Angle		Msec.	58.0 to 67.0	60.7	Pass
Moment About Occipital Condyle		Nm	73.0 to 88.0	78.2	Pass
Positive Moment Decay, Time To 0 Nm		Msec.	49.0 to 64.0	61.7	Pass
			Overall Test Results		Pass



Curve Description			
Pendulum Velocity			
CURNO	Type	SAE Class	Units
001	FIL	180	m/sec
Max	Time	Min	Time
8.5	183.2	0.0	-0.6



Curve Description			
"D" Plane Rotation			
CURNO	Type	SAE Class	Units
003	FIL	60	Degrees
Max	Time	Min	Time
75.1	54.9	-11.1	135.2



Curve Description			
Moment About Occipital Condyle			
CURNO	Type	SAE Class	Units
004	FIL	600	Nm
Max	Time	Min	Time
78.2	49.2	-28.1	8.2

APPENDIX C
POST-TEST SID / HIII CONFIGURATION AND PERFORMANCE VERIFICATION DATA

Test Program: SID / HIII External Measurements
 ATD Serial No.: 274

Test Date: 11/5/04
 Test I.D.: N/A



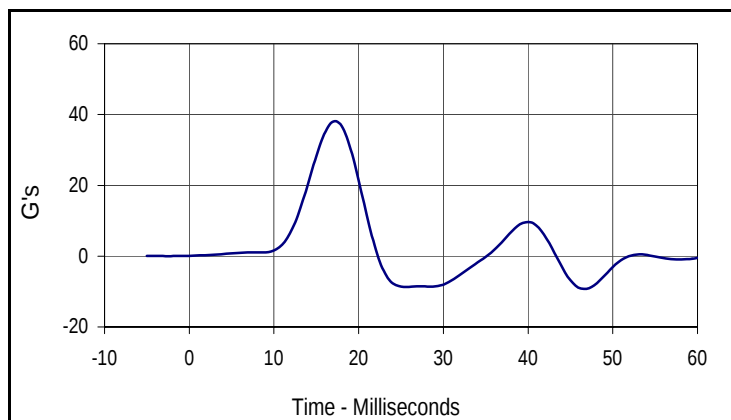
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
SH- Seated Height	mm	889 to 909	901	Pass
HP- Hip Point Height	mm	99 (reference)	99	Pass
RH- Rib Height	mm	502 to 520	515	Pass
KH- Knee Pivot From Back Line	mm	511 to 526	521	Pass
KV- Knee Pivot From Floor	mm	490 to 505	496	Pass
HW- Hip Width	mm	356 to 391	365	Pass
Overall Test Results				Pass

Test Program: SID / HIII Thorax Lateral Impact
 ATD Serial No.: 274

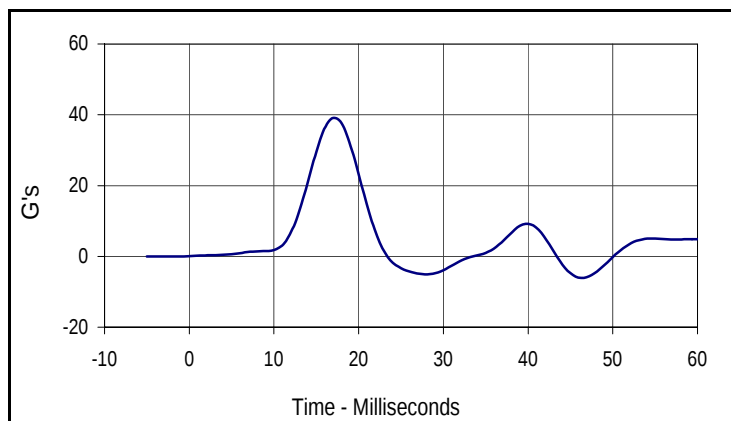
Test Date: 11/3/04
 Test I.D.: TH10D



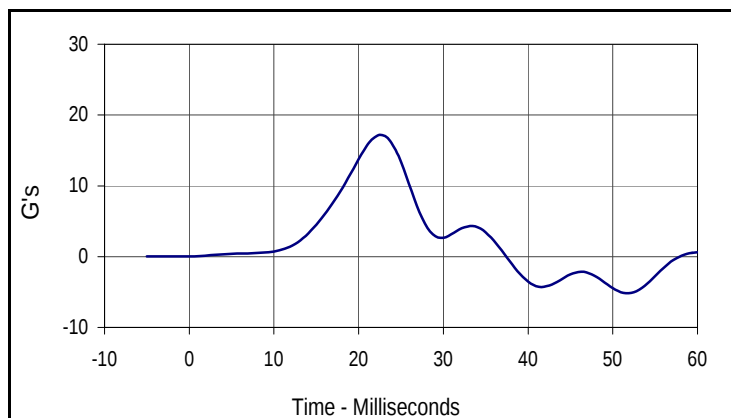
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.27	Pass
Upper Rib Acceleration	G's	37.0 to 46.0	37.9	Pass
Lower Rib Acceleration	G's	37.0 to 46.0	39.1	Pass
Thoracic Spine Acceleration	G's	15.0 to 22.0	17.2	Pass
Overall Test Results			Pass	



Curve Description			
Upper Rib Primary Y			
CURNO	Type	SAE Class	Units
001	FIL	FIR100	G's
Max	Time	Min	Time
37.9	17.5	-9.3	46.9



Curve Description			
Lower Rib Primary Y			
CURNO	Type	SAE Class	Units
002	FIL	FIR100	G's
Max	Time	Min	Time
39.1	16.9	-6.0	46.3



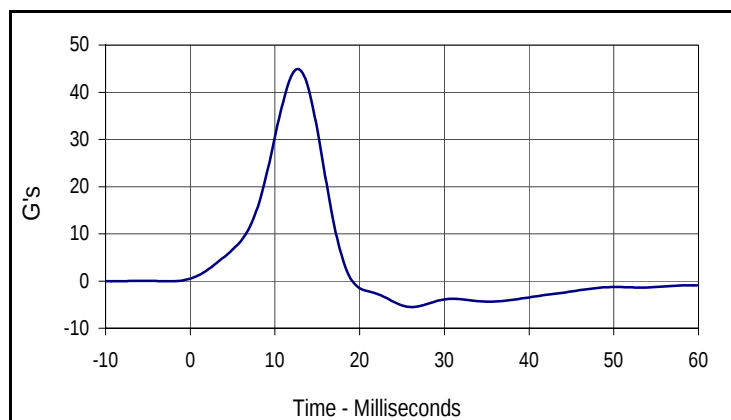
Curve Description			
Lower Spine Primary Y			
CURNO	Type	SAE Class	Units
003	FIL	FIR100	G's
Max	Time	Min	Time
17.2	22.5	-5.2	51.9

Test Program: SID / HIII Pelvis Lateral Impact
 ATD Serial No.: 274

Test Date: 11/4/04
 Test I.D.: PL10C



Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.27	Pass
Peak Pelvis Acceleration	G's	40.0 to 60.0	44.8	Pass
Acceleration Time Above 20 G's	Msec.	3.0 to 7.0	6.88	Pass
Overall Test Results				Pass



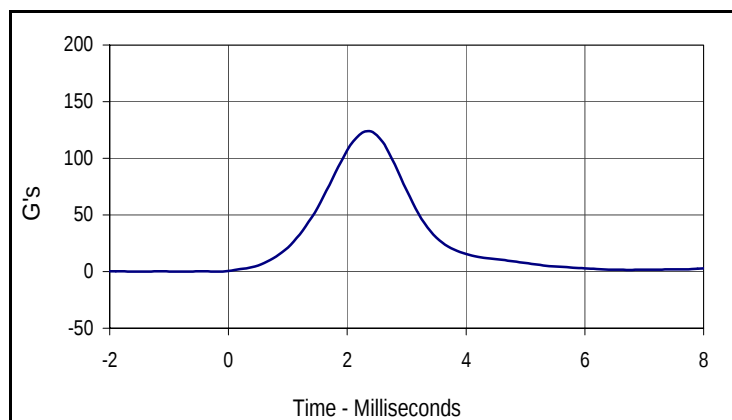
Curve Description			
Pelvis Primary Y			
CURNO	Type	SAE Class	Units
001	FIL	FIR100	G's
Max	Time	Min	Time
44.8	12.5	-5.5	26.3

Test Program: SID / HIII Head Drop Lateral Impact Test
 ATD Serial No.: 274

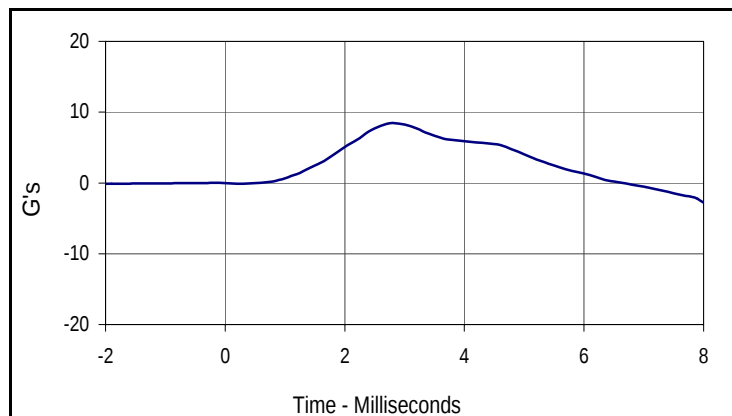
Test Date: 11/5/04
 Test I.D.: HD10C



Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Peak Resultant Acceleration	G's	120.0 to 150.0	123.8	Pass
Peak Longitudinal Acceleration	G's	≤15.0	8.5	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Oscillations After Main Pulse	%	<10	6.1	Pass
Overall Test Results			Pass	



Curve Description			
Head Resultant			
CURNO	Type	SAE Class	Units
001	RES	1000	G's
Max	Time	Min	Time
123.8	2.4	0.0	-0.2



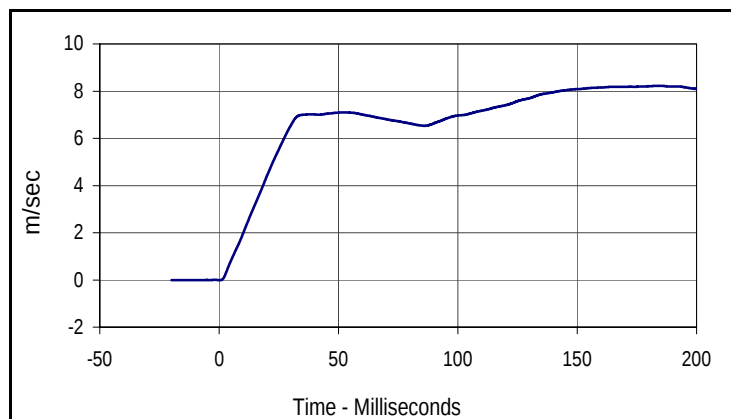
Curve Description			
Head X			
CURNO	Type	SAE Class	Units
002	FIL	1000	G's
Max	Time	Min	Time
8.5	2.8	-0.1	0.2

Test Program: SID / HIII Neck Pendulum Lateral Test
 ATD Serial No.: 274

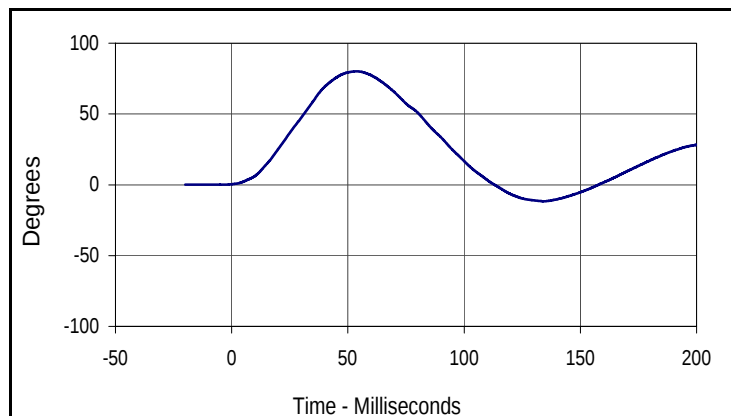
Test Date: 11/5/04
 Test I.D.: NB10C



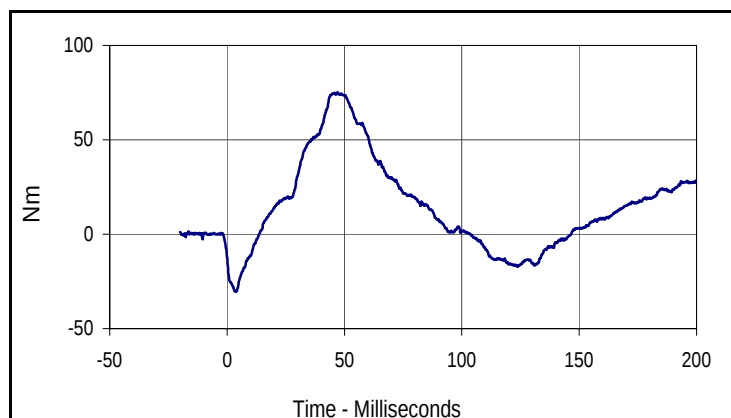
Tested Parameter		Units	Specification	Result	Pass/Fail
Laboratory Temperature		°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity		%	10 to 70	30	Pass
Pendulum Velocity		m/sec	6.89 to 7.13	7.04	Pass
Pendulum Deceleration	10 Msec.	m/sec	1.96 to 2.55	1.97	Pass
	20 Msec.	m/sec	4.12 to 5.10	4.40	Pass
	30 Msec.	m/sec	5.73 to 7.01	6.55	Pass
	40 to 70	m/sec	6.27 to 7.64	7.10	Pass
"D" Plane Rotation	Max	Degrees	66.0 to 82.0	80.1	Pass
Max Rotation Time After Peak Moment		Msec.	2.0 to 16.0	6.7	Pass
Rotation Time From Peak to Zero Angle		Msec.	58.0 to 67.0	59.3	Pass
Moment About Occipital Condyle		Nm	73.0 to 88.0	73.8	Pass
Positive Moment Decay, Time To 0 Nm		Msec.	49.0 to 64.0	56.6	Pass
			Overall Test Results		Pass



Curve Description			
Pendulum Velocity			
CURNO	Type	SAE Class	Units
001	FIL	180	m/sec
Max	Time	Min	Time
8.2	184.4	0.0	0.5



Curve Description			
"D" Plane Rotation			
CURNO	Type	SAE Class	Units
003	FIL	60	Degrees
Max	Time	Min	Time
80.1	53.8	-11.6	134.4



Curve Description			
Moment About Occipital Condyle			
CURNO	Type	SAE Class	Units
004	FIL	600	Nm
Max	Time	Min	Time
73.8	47.1	-29.9	3.7

Test Program: SID / HIII External Measurements
 ATD Serial No.: 275

Test Date: 11/5/04
 Test I.D.: N/A



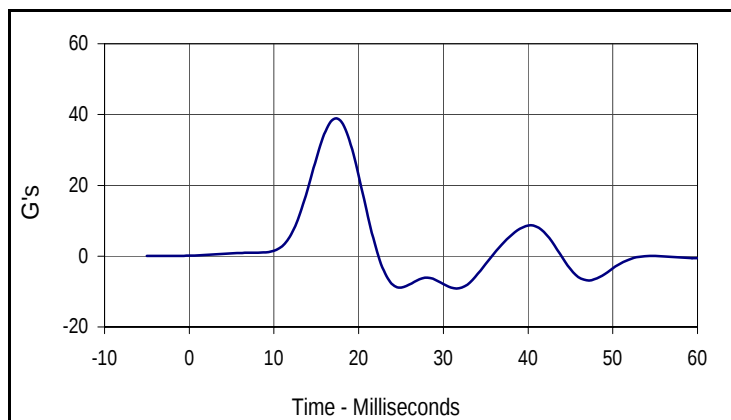
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
SH- Seated Height	mm	889 to 909	892	Pass
HP- Hip Point Height	mm	99 (reference)	99	Pass
RH- Rib Height	mm	502 to 520	515	Pass
KH- Knee Pivot From Back Line	mm	511 to 526	513	Pass
KV- Knee Pivot From Floor	mm	490 to 505	501	Pass
HW- Hip Width	mm	356 to 391	375	Pass
Overall Test Results				Pass

Test Program: SID / HIII Thorax Lateral Impact
 ATD Serial No.: 275

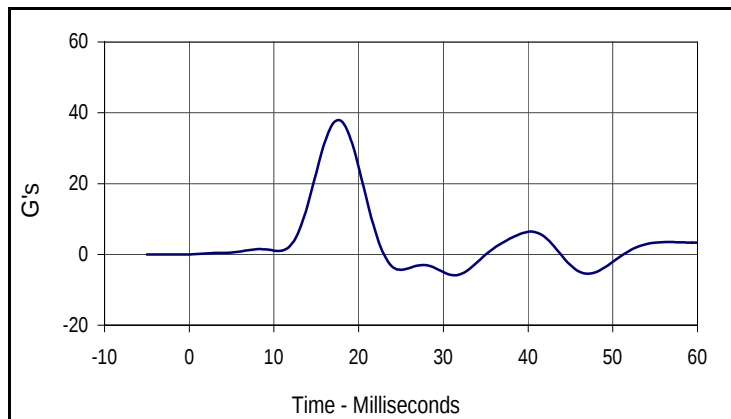
Test Date: 11/3/04
 Test I.D.: TH10C



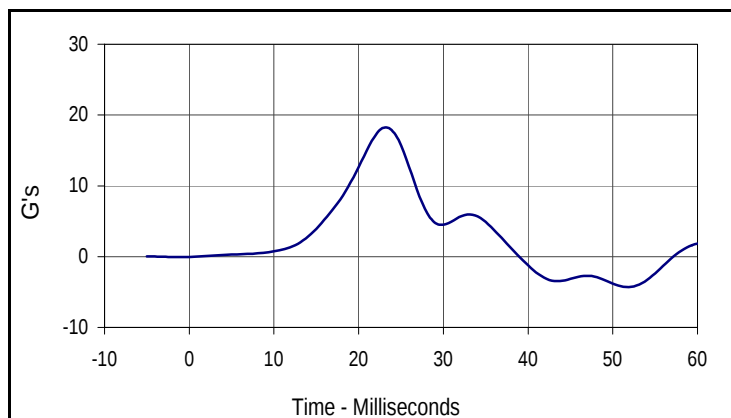
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.27	Pass
Upper Rib Acceleration	G's	37.0 to 46.0	38.9	Pass
Lower Rib Acceleration	G's	37.0 to 46.0	38.0	Pass
Thoracic Spine Acceleration	G's	15.0 to 22.0	18.3	Pass
Overall Test Results			Pass	



Curve Description			
Upper Rib Primary Y			
CURNO	Type	SAE Class	Units
001	FIL	FIR100	G's
Max	Time	Min	Time
38.9	17.5	-9.1	31.9



Curve Description			
Lower Rib Primary Y			
CURNO	Type	SAE Class	Units
002	FIL	FIR100	G's
Max	Time	Min	Time
38.0	17.5	-5.9	31.3



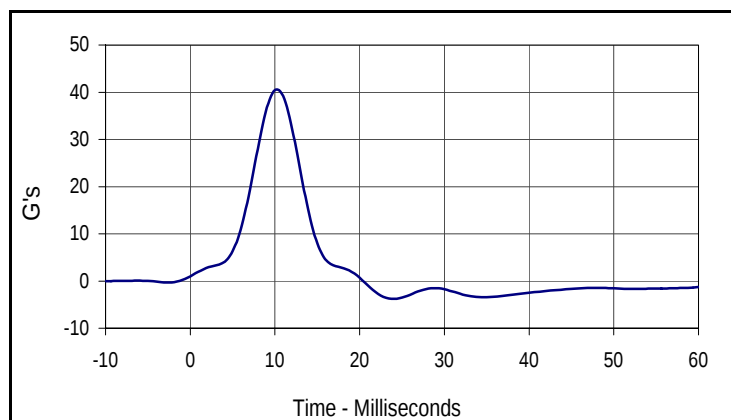
Curve Description			
Lower Spine Primary Y			
CURNO	Type	SAE Class	Units
003	FIL	FIR100	G's
Max	Time	Min	Time
18.3	23.1	-4.3	51.9

Test Program: SID / HIII Pelvis Lateral Impact
 ATD Serial No.: 275

Test Date: 11/4/04
 Test I.D.: PL10D



Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.22	Pass
Peak Pelvis Acceleration	G's	40.0 to 60.0	40.4	Pass
Acceleration Time Above 20 G's	Msec.	3.0 to 7.0	6.25	Pass
Overall Test Results				Pass



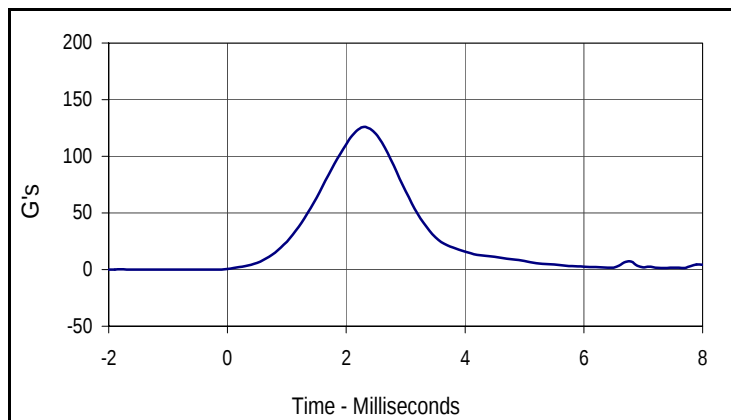
Curve Description			
Pelvis Primary Y			
CURNO	Type	SAE Class	Units
001	FIL	FIR100	G's
Max	Time	Min	Time
40.4	10.0	-3.8	23.8

Test Program: SID / HIII Head Drop Lateral Impact Test
 ATD Serial No.: 275

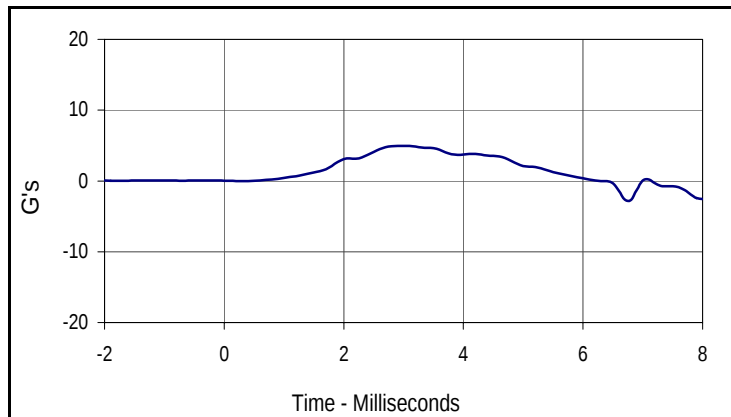
Test Date: 11/5/04
 Test I.D.: HD10D



Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Peak Resultant Acceleration	G's	120.0 to 150.0	125.9	Pass
Peak Longitudinal Acceleration	G's	≤15.0	5.0	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Oscillations After Main Pulse	%	<10	6.0	Pass
Overall Test Results			Pass	



Curve Description			
Head Resultant			
CURNO	Type	SAE Class	Units
001	RES	1000	G's
Max	Time	Min	Time
125.9	2.3	0.1	-1.6



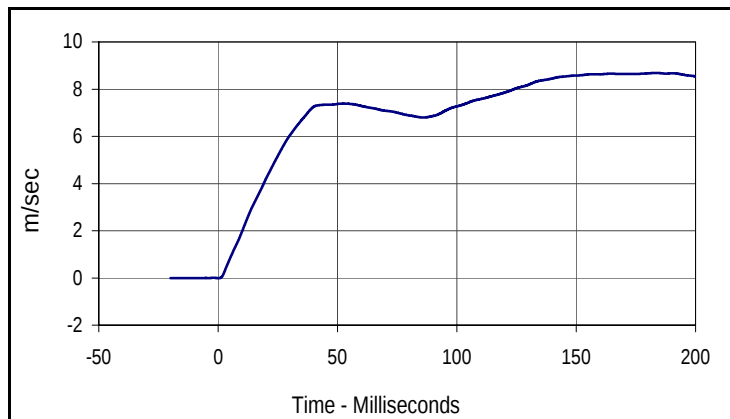
Curve Description			
Head X			
CURNO	Type	SAE Class	Units
002	FIL	1000	G's
Max	Time	Min	Time
5.0	3.0	0.0	0.3

Test Program: SID / HIII Neck Pendulum Lateral Test
 ATD Serial No.: 275

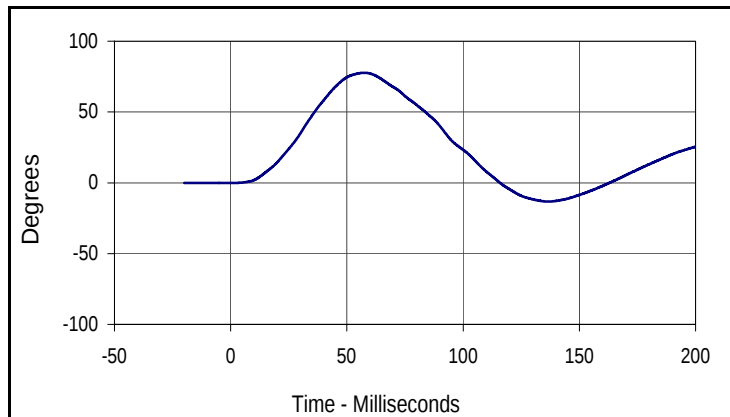
Test Date: 11/5/04
 Test I.D.: NB10D



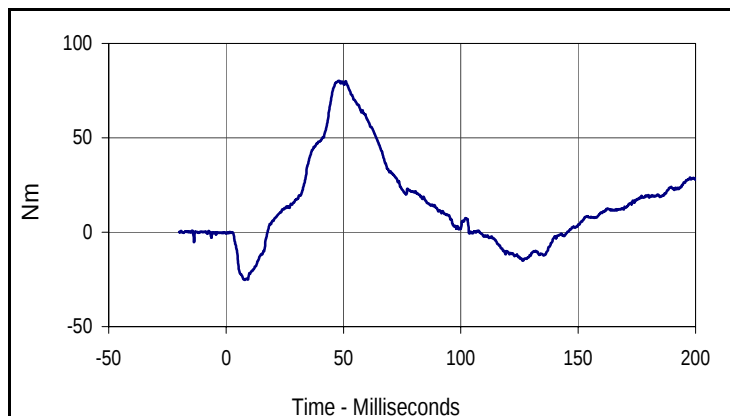
Tested Parameter		Units	Specification	Result	Pass/Fail
Laboratory Temperature		°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity		%	10 to 70	30	Pass
Pendulum Velocity		m/sec	6.89 to 7.13	7.04	Pass
Pendulum Deceleration	10 Msec.	m/sec	1.96 to 2.55	1.97	Pass
	20 Msec.	m/sec	4.12 to 5.10	4.19	Pass
	30 Msec.	m/sec	5.73 to 7.01	6.04	Pass
	40 to 70	m/sec	6.27 to 7.64	7.39	Pass
"D" Plane Rotation	Max	Degrees	66.0 to 82.0	77.7	Pass
Max Rotation Time After Peak Moment		Msec.	2.0 to 16.0	9.2	Pass
Rotation Time From Peak to Zero Angle		Msec.	58.0 to 67.0	58.5	Pass
Moment About Occipital Condyle		Nm	73.0 to 88.0	78.8	Pass
Positive Moment Decay, Time To 0 Nm		Msec.	49.0 to 64.0	55.3	Pass
			Overall Test Results		Pass



Curve Description			
Pendulum Velocity			
CURNO	Type	SAE Class	Units
001	FIL	180	m/sec
Max	Time	Min	Time
8.7	183.3	0.0	0.4



Curve Description			
"D" Plane Rotation			
CURNO	Type	SAE Class	Units
003	FIL	60	Degrees
Max	Time	Min	Time
77.7	57.4	-13.3	136.6



Curve Description			
Moment About Occipital Condyle			
CURNO	Type	SAE Class	Units
004	FIL	600	Nm
Max	Time	Min	Time
78.8	48.2	-24.7	8.1

APPENDIX D

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

55/28 km/h Side Impact NCAP
Instrumentation Data Channel Assignments
Driver SID/HIII Serial Number 274
10/26/04
2005 Acura RL 4-Door Sedan

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
1	Head CG	X	GPAC066X	Accel., Full Bridge	Entran	2000JF	G
2	Head CG	Y	GPAC067Y	Accel., Full Bridge	Entran	2000JF	G
3	Head CG	Z	GPAC068Z	Accel., Full Bridge	Entran	2000JF	G
4	Head CG, Redundant	X	GPAC069X	Accel., Full Bridge	Entran	2000JF	G
5	Head CG, Redundant	Y	GPAC070Y	Accel., Full Bridge	Entran	2000JF	G
6	Head CG, Redundant	Z	GPAC071Z	Accel., Full Bridge	Entran	2000JF	G
7	Neck Force	X	274_NFX	Load cell, six axis neck	R. A. Denton	1716A	N
8	Neck Force	Y	274_NFY	Load cell, six axis neck	R. A. Denton	1716A	N
9	Neck Force	Z	274_NFZ	Load cell, six axis neck	R. A. Denton	1716A	N
10	Neck Moment	X	274_NMX	Load cell, six axis neck	R. A. Denton	1716A	Nm
11	Neck Moment	Y	274_NMY	Load cell, six axis neck	R. A. Denton	1716A	Nm
12	Neck Moment	Z	274_NMZ	Load cell, six axis neck	R. A. Denton	1716A	Nm
13	Upper Rib Primary	Y	KEAC070X	Accel.,1/2 bridge	Endevco	7264-2000X	G
14	Lower Rib, Primary	Y	KEAC071Y	Accel.,1/2 bridge	Endevco	7264-2000Y	G
15	Lower Spine, Primary	Y	KEAC072Z	Accel.,1/2 bridge	Endevco	7264-2000Z	G
16	Pelvis, Primary	Y	GPAC065X	Accel.,Full bridge	Endevco	7264A-2000	G
17	Upper Rib Redundant	Y	KEAC076X	Accel.,1/2 bridge	Endevco	7264-2000X	G
18	Lower Rib, Redundant	Y	KEAC077Y	Accel.,1/2 bridge	Endevco	7264-2000Y	G
19	Lower Spine, Redundant	Y	KEAC078Z	Accel.,1/2 bridge	Endevco	7264-2000Z	G
20	Pelvis, Redundant	Y	KEAC089X	Accel.,1/2 bridge	Endevco	7264-2000X	G
21	Thorax Contact	N/A	T0	Contact Switch	Tapeswitch	8 oz. Yellow	%
22	Pelvis Contact	N/A	T0	Contact Switch	Tapeswitch	8 oz. Yellow	%

55/28 km/h Side Impact NCAP
Instrumentation Data Channel Assignments
Passenger SID/HII Serial Number 275
10/26/04
2005 Acura RL 4-Door Sedan

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
23	Head CG	X	GPAC072X	Accel., Full Bridge	Entran	2000JF	G
24	Head CG	Y	GPAC073Y	Accel., Full Bridge	Entran	2000JF	G
25	Head CG	Z	GPAC074Z	Accel., Full Bridge	Entran	2000JF	G
26	Head CG, Redundant	X	GPAC075X	Accel., Full Bridge	Entran	2000JF	G
27	Head CG, Redundant	Y	GPAC077Y	Accel., Full Bridge	Entran	2000JF	G
28	Head CG, Redundant	Z	GPAC078Z	Accel., Full Bridge	Entran	2000JF	G
29	Neck Force	X	275_NFX	Load cell, six axis neck	R. A. Denton	1716A	N
30	Neck Force	Y	275_NFY	Load cell, six axis neck	R. A. Denton	1716A	N
31	Neck Force	Z	275_NFZ	Load cell, six axis neck	R. A. Denton	1716A	N
32	Neck Moment	X	275_NMX	Load cell, six axis neck	R. A. Denton	1716A	Nm
33	Neck Moment	Y	275_NMY	Load cell, six axis neck	R. A. Denton	1716A	Nm
34	Neck Moment	Z	275_NMZ	Load cell, six axis neck	R. A. Denton	1716A	Nm
35	Upper Rib Primary	Y	KEAC066X	Accel.,1/2 bridge	Endevco	7264-2000X	G
36	Lower Rib, Primary	Y	KEAC067Y	Accel.,1/2 bridge	Endevco	7264-2000Y	G
37	Lower Spine, Primary	Y	KEAC068Z	Accel.,1/2 bridge	Endevco	7264-2000Z	G
38	Pelvis, Primary	Y	KEAC079X	Accel.,1/2 bridge	Endevco	7264-2000X	G
39	Upper Rib Redundant	Y	KEAC073X	Accel.,1/2 bridge	Endevco	7264-2000X	G
40	Lower Rib, Redundant	Y	KEAC074Y	Accel.,1/2 bridge	Endevco	7264-2000Y	G
41	Lower Spine, Redundant	Y	KEAC075Z	Accel.,1/2 bridge	Endevco	7264-2000Z	G
42	Pelvis, Redundant	Y	KEAC081X	Accel.,1/2 bridge	Endevco	7264-2000X	G
43	Thorax Contact	Y	T0	Contact Switch	Tapeswitch	8 oz. Yellow	%
44	Pelvis Contact	Y	T0	Contact Switch	Tapeswitch	8 oz. Yellow	%

55/28 km/h Side Impact NCAP
Instrumentation Data Channel Assignments
Vehicle Accelerometers
10/26/04
2005 Acura RL 4-Door Sedan

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
45	Right at Sill Front Seat	X	KETX1A	Accel., Triax	I.C. Sensor	3031-200	G
46	Right at Sill Front Seat	Y	KETX1B	Accel., Triax	I.C. Sensor	3031-200	G
47	Right at Sill Front Seat	Z	KETX1C	Accel., Triax	I.C. Sensor	3031-200	G
48	Right at Sill Rear Seat	X	KETX4A	Accel., Triax	I.C. Sensor	3031-500	G
49	Right at Sill Rear Seat	Y	KETX4B	Accel., Triax	I.C. Sensor	3031-500	G
50	Right at Sill Rear Seat	Z	KETX4C	Accel., Triax	I.C. Sensor	3031-500	G
51	Rear Floorpan Above Axle	X	KETX5A	Accel., Triax	I.C. Sensor	3031-500	G
52	Rear Floorpan Above Axle	Y	KETX5B	Accel., Triax	I.C. Sensor	3031-500	G
53	Rear Floorpan Above Axle	Z	KETX5C	Accel., Triax	I.C. Sensor	3031-500	G
54	Left Sill at Rear Door	Y	KEVA012	Accel., Vehicle block	I.C. Sensor	3031-500	G
55	Left Sill at Front Door	Y	KEVA010	Accel., Vehicle block	I.C. Sensor	3031-500	G
56	Left Front Door Centerline	Y	ICST004X	Accel., Triax	I.C. Sensor	3031-500	G
57	Rear Occupant Compartment	Y	KEVA013	Accel., Vehicle block	I.C. Sensor	3031-200	G
58	Left Front Door Mid-Rear	Y	ICST004Y	Accel., Triax	I.C. Sensor	3031-500	G
59	Left Front Door Upper Centerline	Y	ICST004Z	Accel., Triax	I.C. Sensor	3031-500	G
60	Rear Door Mid-Rear	Y	ICST005X	Accel., Triax	I.C. Sensor	3031-500	G
61	Rear Door Upper Centerline	Y	ICST005Y	Accel., Triax	I.C. Sensor	3031-500	G
62	B-Post Lower	Y	KEBX2A	Accel., Biax	I.C. Sensor	3031-500	G
63	B-Post Middle	Y	KEBX2B	Accel., Biax	I.C. Sensor	3031-500	G
64	A-Post Lower	Y	KEBX1A	Accel., Biax	I.C. Sensor	3031-500	G
65	A-Post Middle	Y	KEBX1B	Accel., Biax	I.C. Sensor	3031-500	G
66	Front Seat Track	Y	KEIC008Y	Single	I.C. Sensor	3031-500	G
67	Rear Seat Structure	Y	N/A	N/A	N/A	N/A	N/A
68	Vehicle CG	X	KETX4A	Accel., Triax	I.C. Sensor	3031-200	G
69	Vehicle CG	Y	KETX4B	Accel., Triax	I.C. Sensor	3031-200	G
70	Vehicle CG	Z	KETX4C	Accel., Triax	I.C. Sensor	3031-200	G

**55/28 km/h Side Impact NCAP
Instrumentation Data Channel Assignments
Moving Deformable Barrier
10/26/04
2005 Acura RL 4-Door Sedan**

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
71	MDB CG	X	MDASX	Accel., Triax	I.C. Sensor	3031-500	G
72	MDB CG	Y	MDASY	Accel., Triax	I.C. Sensor	3031-500	G
73	MDB CG	Z	MDASZ	Accel., Triax	I.C. Sensor	3031-500	G
74	MDB Rear Centerline	X	SLDBX	Accel., Triax	I.C. Sensor	3031-50	G
75	MDB Rear Centerline	Y	SLDBY	Accel., Triax	I.C. Sensor	3031-50	G
76	Right Bumper Contact	N/A	T0	Contact Switch	Tapeswitch	40 oz. Grey	%