

REPORT NUMBER TR-P25001-08-NC

**NEW CAR ASSESSMENT PROGRAM
FRONTAL BARRIER IMPACT TEST**

**HONDA MOTORS COPORATION
2005 HONDA ODYSSEY 5-DOOR MPV**

NHTSA NUMBER: M55302

**PREPARED BY:
KARCO ENGINEERING, LLC
9270 HOLLY ROAD
ADELANTO, CALIFORNIA 92301**



DECEMBER 16, 2004

FINAL REPORT

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Prepared by: _____
Mr. Yednesh Parnaik, Project Engineer
KARCO Engineering, LLC

Date: December 30, 2004

Reviewed by: _____
Mr. Michael L. Dunlap, Quality Assurance Manager
KARCO Engineering, LLC

Date: December 30, 2004

Approved by: _____
Mr. Frank D. Richardson, Program Manager
KARCO Engineering, LLC

Date: December 30, 2004

FINAL REPORT ACCEPTED BY:

Manager, New Car Assessment Program

Date of Acceptance

COTR, NCAP Frontal Impact Program

Date of Acceptance

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7. Authors Mr. Yednesh Parnaik, Project Engineer, Karco Mr. Frank Richardson, Program Manager, Karco	10. Work Unit No.			
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16. Abstract A 35 mph (56.3 km/h) frontal barrier impact was conducted on a 2005 Honda Odyssey 5-Door MPV at Karco Engineering, LLC on December 16, 2004. This test was conducted to obtain data indicant of FMVSS 208, 212, 219 (partial), 301, and footwell intrusion performance. The impact velocity was 56.28 km/h. The ambient temperature at the barrier face at the time of impact was 14.4 degrees Celcius. The vehicle's maximum post-test static crush was 466 mm near the center of the vehicle. The test vehicle was equipped with a 3-point continuous belt system and second generation supplemental airbags in both front outboard seating positions. With respect to FMVSS 208 "Occupant Crash Protection", the occupant injury criteria summary is as follows:				
Measurement Description	Units	Threshold	Driver ATD	Passenger ATD
Head Injury Criteria (HIC ₃₆)	N/A	1000	249.0	332.8
Max. Chest Accel. (3 msec Clip)	G's	60	36.4	39.8
Left Femur Force	Newtons	10008	-1633.1	-3941.8
Right Femur Force	Newtons	10008	-3346.9	-3352.7
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SECTION 1

PURPOSE AND SUMMARY OF TEST M55302

1.1 PURPOSE

This 35 mph (56.3 km/h) frontal barrier impact test is part of the New Car Assessment Program (NCAP) sponsored by the National Highway Traffic Safety Administration (NHTSA) under Contract No. DTNH22-01-D-02005. The purpose of this test was to obtain vehicle crashworthiness and occupant restraint system performance data for an impact speed in excess of the current 30 mph (48.3 km/h) requirements.

This 56.3 km/h frontal barrier impact test was conducted in accordance with the Office of Crashworthiness Standards (OCS) New Car Assessment Program (NCAP) Laboratory Indicant Test Procedure, dated December 1999. Data was obtained indicant of FMVSS 208 "Occupant Crash Protection"; FMVSS 212, "Windshield Retention"; FMVSS 219, "Windshield Zone Intrusion (Partial)"; and FMVSS 301 "Fuel System Integrity" performance. Procedures for receiving, inspection testing and reporting of test results are described in the test procedures and are not repeated in this report.

1.2 SUMMARY

A load cell barrier consisting of 36 load cells was impacted by a 2005 Honda Odyssey 5-Door MPV at a velocity of 56.28 km/h. The test was performed at Karco Engineering, LLC on December 16, 2004.

Three (3) real-time and fifteen (15) high-speed cameras were used to document the frontal barrier impact event. Camera locations and other pertinent camera information can be found in Data Sheet number 15 (page number: 27) of this report.

Two Part 572E, 50th percentile male anthropomorphic test devices (ATDs), were placed in the driver and right-front passenger seating positions according to dummy placement instructions specified in the Laboratory Indicant Test Procedure.

Both ATDs were fully instrumented with head (primary and redundant), chest (primary and redundant) and pelvic triaxial accelerometers, chest displacement potentiometers, six-axis upper neck transducers, right/left femur load cells, and lower leg instrumentation. Seat belt load cells were also placed on the driver's and passenger's lap and shoulder belts to measure dummy torso and pelvic section loading. The driver (position 1) ATD (Serial No. 35) and the right-front passenger (position 2) ATD (Serial No. 34) were calibrated prior to this test.

Ninety seven (97) channels of data were recorded using an on-board data acquisition system. Appendix A contains Pre and Post-Test Photographs, Appendix B contains the vehicle and dummy response data traces. Appendix C contains Load Cell Barrier information. Appendix D contains the Instrumentation Data Channel assignments, Appendix E contains the Dummy Calibration data, and Appendix F contains the Child Restraint System (CRS) report.

There was 100 percent windshield retention and no intrusion into the protected zone of the windshield during the impact event. There was no Stoddard solvent leakage after the event or during any phase of the static rollover.

The maximum static crush of the vehicle was 466 mm and both the driver and the passenger side doors remained closed during the impact event and were operable after the impact.

The driver's visible contact points were as follows: The driver ATD head, chest and abdomen contacted the airbag, and both knees contacted the knee bolster.

The passenger's visible contact points were as follows: The passenger ATD head, chest and abdomen contacted the airbag, and both knees contacted the glove box.

Occupant injury data is contained in table below.

OCCUPANT DATA SUMMARY

ATD Position	HIC ₃₆	Clip (g)	Chest Defl. (mm)	Left Femur (N)	Right Femur (N)	Belt Spool (mm)
Driver	249.0	36.4	-24.7	-1633.1	-3346.9	*
Passenger	332.8	39.8	-16.5	-3941.8	-3352.7	*

* Sensor Not Installed

SECTION 2
OCCUPANT AND VEHICLE INFORMATION/DATA SHEETS

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

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
CRASH TEST SUMMARY**

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

PRIMARY IMPACT DATA

Measured Parameter	Units	Value
Velocity at Impact	km/h	56.28
Test Weight	kg	2263
Impact Angle	degrees	0
Average Rebound	mm	557
Maximum Static Crush	mm	466

DOOR OPENING AND SEAT TRACK INFORMATION

Description	Driver	Passenger
Front Door Opening	Remained closed, opened w/o tools	Remained closed, opened w/o tools
Rear Door Opening	Remained closed, opened w/o tools	Remained closed, opened w/o tools
Seat Track Shift (mm)	0	0
Seat Back Failure	No	No

TEST DUMMY INFORMATION

Description	Driver	Passenger
Dummy Type/ Serial No.	50% Male Hybrid III No. 35	50% Male Hybrid III No. 34
Head Contact	Airbag	Airbag
Chest Contact	Airbag	Airbag
Abdomen Contact	Airbag	Airbag
Left Knee Contact	Knee Bolster	Glove Box
Right Knee Contact	Knee Bolster	Glove Box

MOVIE COVERAGE

Cameras	Standard	Additional
High Speed	14	1
Real Time	1	2
Total	15	3

DATA CHANNELS

Driver ATD Sensors	40
Passenger ATD Sensors	40
Belt Assessment Sensors	8
Vehicle Structure Accelerometers	9
Rigid Barrier Load Cells	36
Total	133

**DATA SHEET NO. 2
GENERAL TEST AND VEHICLE PARAMETER DATA**

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

TEST VEHICLE INFORMATION AND OPTIONS

NHTSA No.	G55302	Anti-Lock Brakes	Yes
Make	Honda	All Wheel Drive	No
Model	Odyssey	Power Steering	Yes
Body Style	5-Door MPV	Driver Front Airbag	Yes
Vin No.	5FNRL38295B024876	Driver Side Airbag	Yes
Color	Silver	Driver Head Airbag	No
Delivery Date	12/9/2004	Driver Curtain Airbag	Yes
Odometer	25.9	Pass. Airbag	Yes
Dealer	Valley-Hi Honda	Pass. Side Airbag	Yes
Transmission	5 Speed Automatic	Pass. Head Airbag	No
Final Drive	Front	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	No	AM/FM Cassette	Yes
Tinted Glass	Yes	Tilt Steering	Yes
Traction Control	No	Power Door Locks	Yes
Power Brakes	Yes	Power Windows	Yes
Front Disc	Yes	Power Seats	Yes
Rear Disc	Yes	Other	

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

DATA FROM CERTIFICATION LABEL

Manufactured By	Honda Manufacturing of Alabama	GVWR (kg)	2700
Date of Manufacture	Oct-04	GAWR Front (kg)	1285
		GAWR Rear (kg)	1450

VEHICLE SEATING AND CAPACITY WEIGHT INFORMATION

Measured Parameter	Front	Rear	Third	Total
Type of Seats	Bucket	Bucket	Bench	
Number of Occupants	2	2	3	7
Capacity Weight (VCW) (kg)				612
Cargo Weight (RCLW) (kg)				136

DATA SHEET NO. 2...(CONTINUED)
GENERAL TEST AND VEHICLE PARAMETER DATA

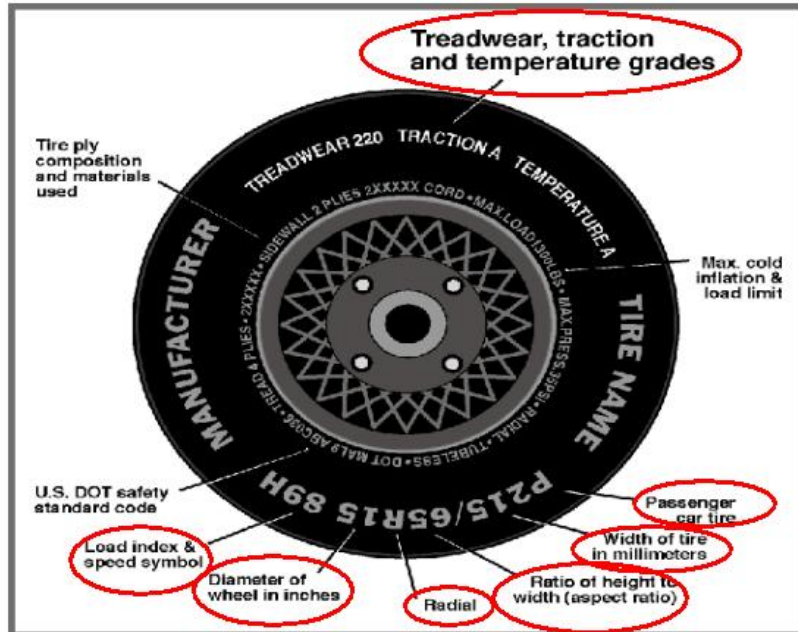
Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

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)	230	240
Recommended Tire Size	P235/65R16	P235/65R16
Tire Size on Vehicle	P235/65R16	P235/65R16
Tire Manufacturer	Bridgestone	Bridgestone
Treadwear	320	320
Traction	B	B
Temperature Grades	B	B
Tire Plies Sidewall	2 Polyester	2 Polyester
Tire Plies Body	2 Polyester + 2 Steel + 1 Nylon	2 Polyester + 2 Steel + 1 Nylon
Load Index/Speed Symbol	103T	103T
Tire Material	Polyster + Steel + Nylon	Polyster + Steel + Nylon
DOT Safety Code Right	OB46 CT1 3004	OB46 CT1 3004
DOT Safety Code Left	OB46 CT1 3004	OB46 CT1 3104

DATA SHEET NO. 2...(CONTINUED)
GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

TEST VEHICLE WEIGHTS

	Units	As Delivered Weights (UVW)			As Tested Weights (ATW)		
		Front Axle	Rear Axle	Total	Front Axle	Rear Axle	Total
Left	kg	567	448		603	542	
Right	kg	540	427		586	532	
Ratio	%	55.8	44.2		52.5	47.5	
Totals	kg	1107	875	1982	1189	1074	2263

TARGET TEST WEIGHT CALCULATION

Measured Parameter	Units	Value
Total Delivered Weight (UVW)	kg	1982
Weight of 2 P572 ATD's	kg	152
Rated Cargo/Luggage Wt. (RCLW)	kg	136
Calculated Vehicle Target Wt. (TVTW)	kg	2270

TEST VEHICLE ATTITUDE AND CG

	Units	LF	RF	LR	RR	CG (aft of front axle)
As Delivered	mm	746	748	756	762	1329
As Tested	mm	727	729	723	728	1428

Vehicle Wheel Base (mm) 3010

Weight of Ballast Secured in cargo area (kg) 0

Weight of Items Removed (kg) 86

Vehicle Components Removed Rear door panels, glass window, spare tire and tools

* Ballast weight does not include cameras, instrumentation and brake abort system.

FUEL SYSTEM DATA

Fuel System Capacity From Owners Manual (L) 79.5

Test Volume Range - 92 to 94% of Usable Capacity (L) 73.1 to 74.7

Actual Test Volume of Stoddard Solvent Filled (L) 34.1

Test Fluid Type: Stoddard Solvent

Kinematic Viscosity: as per ASTM Standard D484-71 Purple

Is Vehicle Fuel Pump Electric or Mechanical? Electric

If electric, does pump operate with ignition switch "On" & engine "OFF" Yes

Fuel System Particulars: None

**DATA SHEET NO. 3
POST-TEST IMPACT DATA**

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

SPEED TRAP DATA

Measured Parameter	Units	Requirement	Value
Trap No.1 Velocity (Primary)	km/h	55.51 to 57.12	56.28
Trap No. 1 Entry Distance	mm	<1524	1524
Trap No.1 Exit Distance	mm	<1524	305
Trap No.2 Velocity (Redun.)	km/h	55.51 to 57.12	56.07
Trap No.2 Entry Distance	mm	<1524	1524
Trap No.2 Exit Distance	mm	<1524	305

VEHICLE STATIC CRUSH

Measured Parameter	Units	Pre-Test	Post-Test	Difference
Left Side	mm	4873	4578	-295
Center	mm	5103	4648	-455
Right Side	mm	4876	4546	-330

VEHICLE REBOUND FROM BARRIER

Measured Parameter	Units	Value
Left Side	mm	555
Center	mm	515
Right Side	mm	600
Average	mm	557

DATA SHEET NO. 4
TEST VEHICLE INFORMATION

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

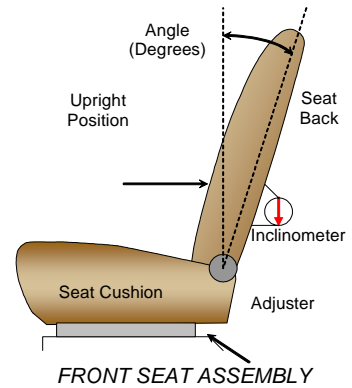
NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

NOMINAL DESIGN RIDING POSITION

The driver and passenger seat backs are positioned to the manufacturers designated angle. The procedure is as follows:
Seat back angle was measured at the headrest of the seat back using a digital inclinometer.



SEAT BACK ANGLES

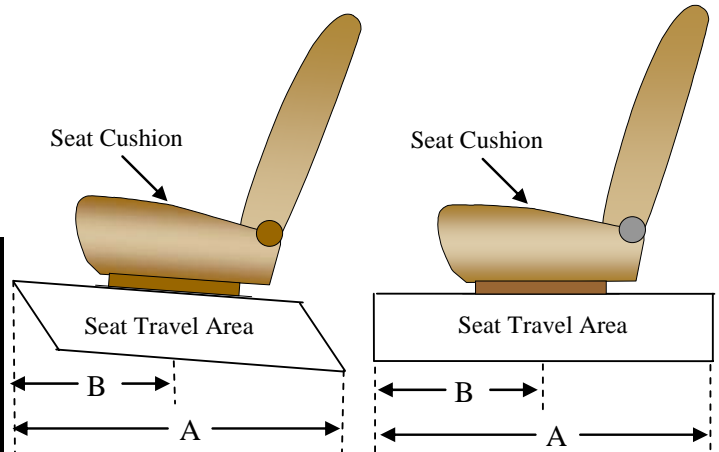
	Deg.
Driver w/seated Dummy	14.2
Passenger w/seated Dummy	14.2

SEAT FORE/AFT POSITIONS

The total seat travel was measured from forward most position to rearmost position, irrespective of vertical seat height in those positions. The seat was set at the longitudinal mid position with vertical adjustment at the lowest position obtainable for both the driver and passenger.

SEAT FORE/AFT POSITIONING

	Total Fore/Aft Travel (Detent)	Placed in Position (Detent)
Driver Seat	23	12
Passenger Seat	23	12



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
Passenger Seat	4	1

DATA SHEET NO. 4...(CONTINUED)
TEST VEHICLE INFORMATION

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

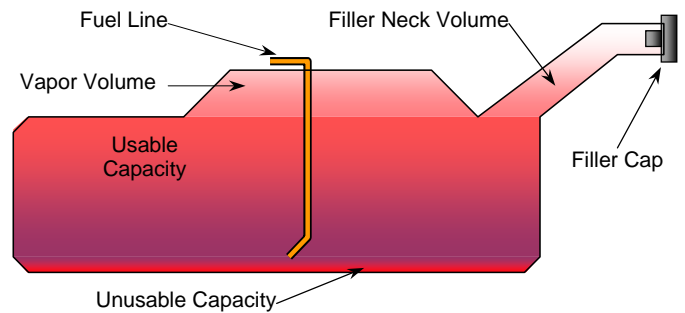
Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

FUEL TANK CAPACITY

	Liters
Usable Capacity of "Standard Tank"	79.5
Usable Capacity of "Optional" Tank	
Usable Capacity used for FMVSS 301	73.1 to 74.7
Actual Amount of Solvent used	34.1
1/3 of Usable Capacity	26.5

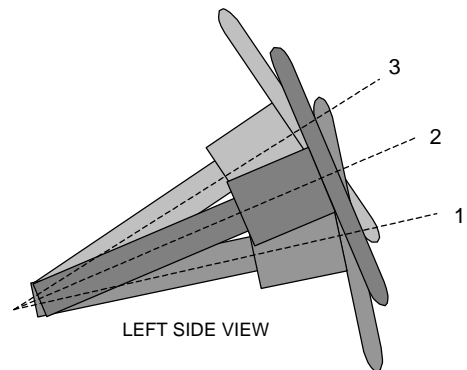
The test vehicle is equipped with an electric fuel pump. The fuel pump operates for approximately two seconds after the ignition is placed in the "ON" position, after which the fuel pump automatically shuts off. The fuel filler door is located on the left rear fender. The standard fuel tank occupies the area under the rear seat.



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

	Fore/Aft Positon (mm)	Degrees
Lowermost positon No. 1		22.7
Geometric center position No. 2		25.8
Uppermost position No. 3		28.9

DATA SHEET NO. 5
DUMMY POSITIONING IN VEHICLE

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

TEST DUMMY POSITION MEASUREMENTS

Code	Measurement Description	Driver		Passenger	
		Length (mm)	Angle (deg)	Length (mm)	Angle (deg)
WA	Windshield Angle		28.6		
SWA	Steering Wheel Angle		64.2		
SCA	Steering Column Angle		25.8		
SA	Seat Back Angle		14.2		14.2
HZ	Head to Roof (Z)	205	90.0	210	90.0
HH	Head to Header	360		400	
HW	Head to Windshield	655		745	
HR	Head to Side Header (Y)	300		215	
NR	Nose to Rim	400	14.4		
CD	Chest to Dash	550		630	
CS	Chest to Steering Hub	290			
RA	Rim to Abdomen	200			
KDL	Left Knee to Dash	105	17.2	110	
KDR	Right Knee to Dash	120		120	12.9
PA	Pelvic Angle		23.5		20.6
TA	Tibia Angle		58.5		55.0
KK	Knee to Knee (Y)	300		285	
SK	Striker to Knee	675	2.0	695	5.0
ST	Striker to Head	618	73.0	600	76.0
SH	Striker to H-Point	346	14.0	270	17.3
SHY	Striker to H-Point (Y)	270		250	
HS	Head to Side Window	340		335	
HD	H-Point to Door (Y)	125		95	
AD	Arm to Door (Y)	150		35	

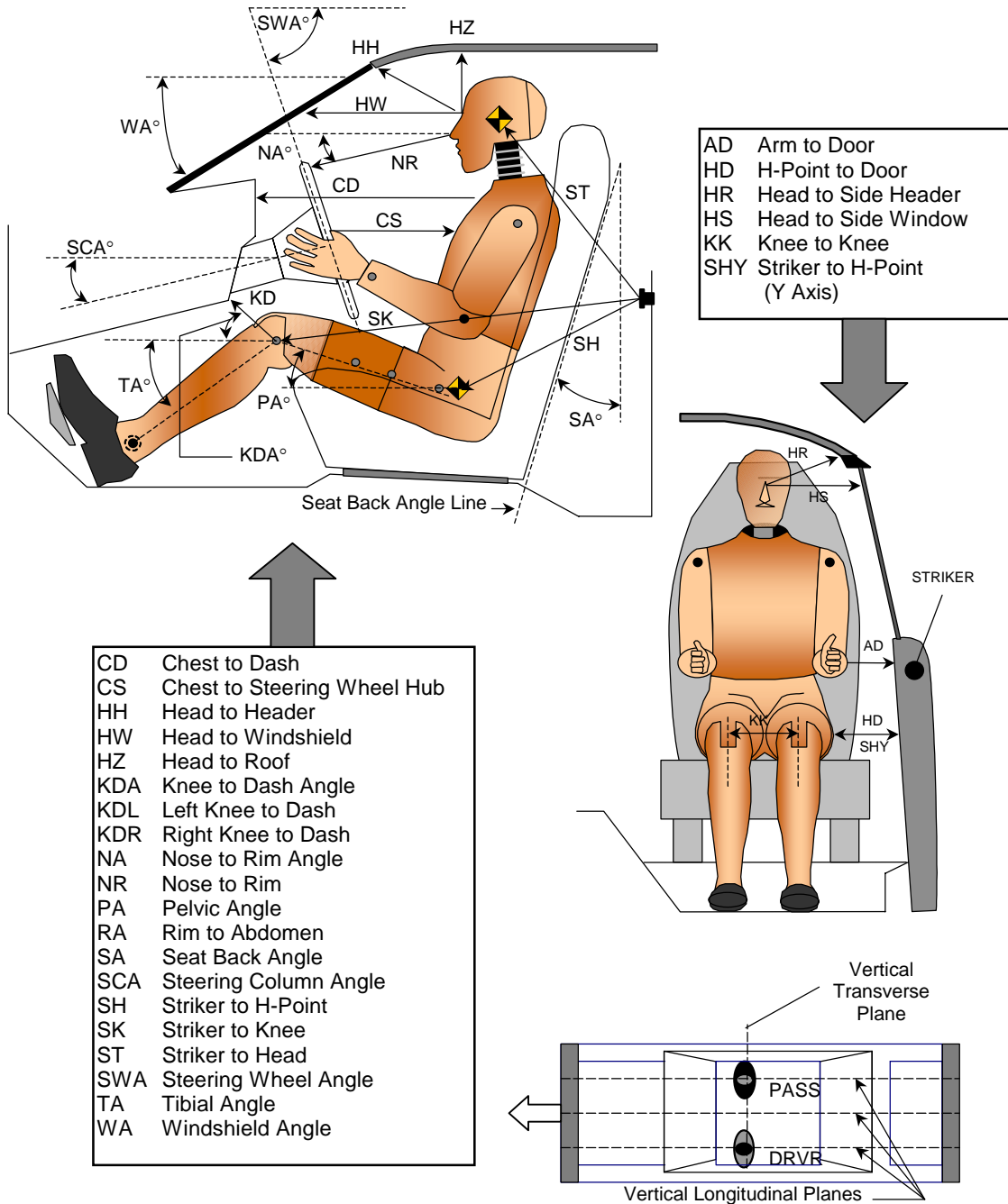
DATA SHEET NO. 5...(CONTINUED)
DUMMY POSITIONING IN VEHICLE

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

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Test Date: 12/16/04



DUMMY MEASUREMENTS FOR FRONT SEAT OCCUPANTS

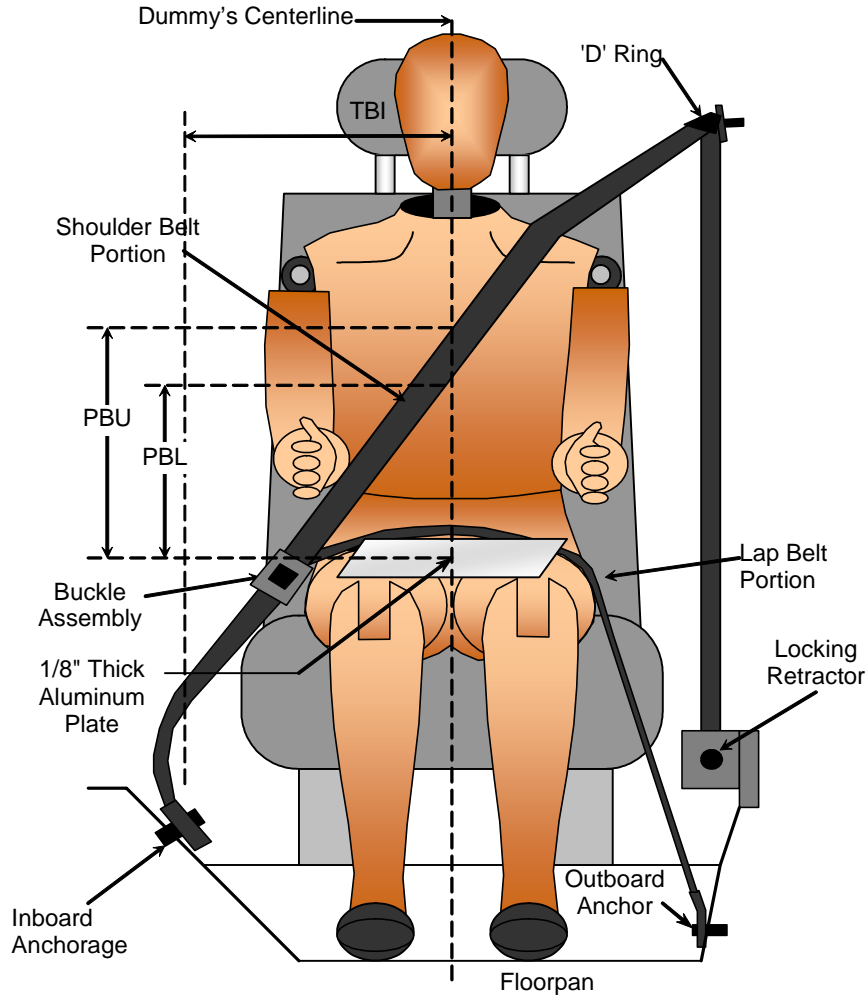
DATA SHEET NO. 6
SEAT BELT POSITIONING DATA

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04



SEAT BELT POSITIONING MEASUREMENTS

Measured Parameter	Units	Driver	Passenger
TBI -Dummy C/L to Lap/Shoulder Belt Intersect	mm	210	235
PBU - Top Surface of reference to belt upper edge	mm	320	345
PBL - Top Surface of reference to belt lower edge	mm	250	260
Lap Belt Tension	Newtons	10	10
Shoulder Belt Tension	N/A	Retractor	Retractor

DATA SHEET NO. 7 - VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

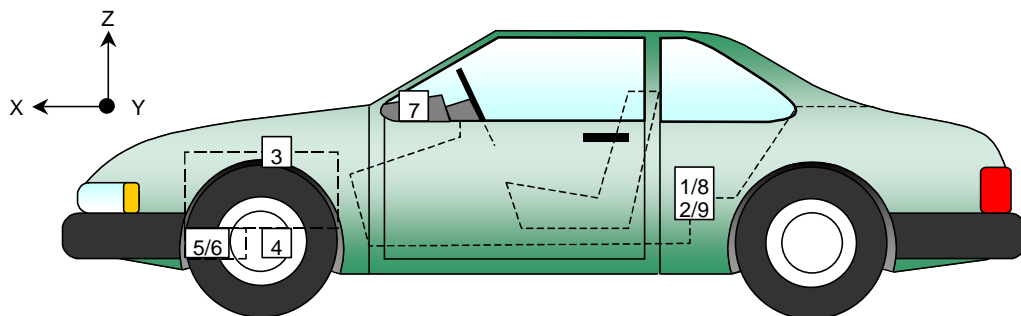
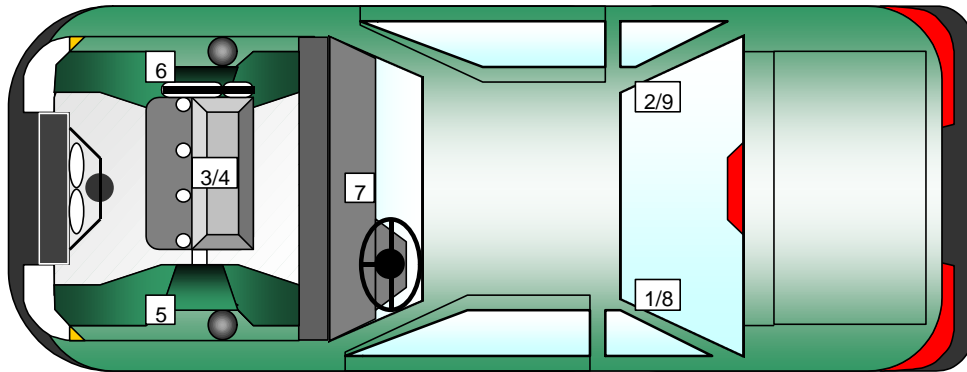
Test Date: 12/16/04

VEHICLE ACCELEROMETER PEAK DATA AND PRE-TEST LOCATIONS

No.	Accelerometer Location	Measurements (mm)			Peak Values				
		X	Y	Z	Units	Max	Time	Min	Time
1	Left Rear X-Member	1910	-810	380	G's	1.6	130.5	-29.6	30.3
2	Right Rear X-Member	1910	810	380	G's	2.3	125.5	-34.1	61.1
3	Engine Top	4420	260	840	G's	53.5	46.5	-192.1	25.3 ¹
4	Engine Bottom	4340	180	150	G's	38.3	35.9	-178.5	25.2
5	Left Brake Caliper	4310	-750	330	G's	57.3	64.6	-113.4	39.0
6	Right Brake Caliper	4310	750	330	G's	33.8	66.6	-108.1	37.1
7	Instrument Panel	3590	0	1140	G's	2.8	110.5	-45.4	32.7
8	Left Rear X-Member (Z-Axis)	1840	-810	380	G's	5.4	66.5	-6.1	49.2
9	Right Rear X-Member (Z-Axis)	1840	810	380	G's	6.5	62.3	-8.9	45.7

Reference Planes: X=From Rear Surface of Vehicle, Y=Vehicle Centerline, Z=Ground Plane

1.) Channel failed at 50.3 msec.



DATA SHEET NO. 8 - HYBRID III ATD INJURY CRITERIA AND SENSOR DATA

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

HEAD PRIMARY PEAK ACCELERATIONS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Head CG	X	G's	0.2	200.0	-43.7	68.2	0.6	16.7	-49.1	79.5
Head CG	Y	G's	1.7	191.2	-7.9	85.9	7.6	63.5	-5.4	95.2
Head CG	Z	G's	18.7	42.1	-2.1	18.1	22.8	81.8	-1.4	17.4
Head CG Resultant	N/A	G's	44.7	68.3			53.5	80.1		

CHEST PRIMARY PEAK ACCELERATIONS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Chest CG	X	G's	2.0	123.8	-37.3	71.1	2.0	147.0	-40.3	80.9
Chest CG	Y	G's	5.1	104.0	-3.4	56.8	4.2	34.0	-10.8	91.7
Chest CG	Z	G's	7.7	42.4	-11.7	88.9	5.4	24.0	-7.9	75.4
Chest CG Resultant	N/A	G's	37.7	71.1			40.6	80.9		

FEMUR PEAK FORCES

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Left Femur	Z	Newtons	446.3	65.0	-1633.1	45.6	370.8	25.3	-3941.8	63.0
Right Femur	Z	Newtons	387.5	32.1	-3346.9	63.4	156.0	26.6	-3352.7	55.0

SEAT BELT SENSOR PEAK VALUES

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Shoulder Belt Pullout	N/A	MM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shoulder Belt Stretch	N/A	MM/CM	0.0	0.0	0.0	0.0	0.00	0.0	0.00	0.0
Lap Belt Force	N/A	Newtons	5400.1	57.6	-4.8	0.6	3562.6	52.4	-14.8	166.9
Shoulder Belt Force	N/A	Newtons	5857.3	72.1	-31.3	196.2	4871.7	40.4	-45.2	198.8

1.) Not installed

2.) Not used with pre-tensioners

PRIMARY HEAD INJURY CRITERIA (HIC36)

Location	Driver				Passenger			
	HIC	T ¹	T ²	Avg G	HIC	T ¹	T ²	Avg G
Head CG Primary	249.0	48.8	83.0	35.0	332.8	62.5	98.5	38.5

PRIMARY CHEST CLIP (3MSEC)

Location	Driver			Passenger		
	CLIP	T ¹	T ²	CLIP	T ¹	T ²
Chest CG Primary	36.4	70.0	73.0	39.8	78.9	81.9

DATA SHEET NO. 8...(CONTINUED)

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

PELVIC PEAK ACCELERATIONS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Pelvis	X	G's	1.9	163.7	-37.9	53.7	3.9	131.7	-46.7	55.4
Pelvis	Y	G's	7.3	95.3	-5.9	50.4	4.2	23.3	-10.3	84.1
Pelvis	Z	G's	2.4	200.0	-27.1	76.6	2.3	139.2	-22.0	76.4
Pelvis Resultant	N/A	G's	43.4	51.4			47.7	55.3		

UPPER NECK PEAK FORCES AND MOMENTS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Neck Force	X	Newtons	364.2	61.4	-435.2	43.5	91.0	89.8	-279.7	35.8
Neck Force	Y	Newtons	130.4	70.2	-136.0	97.8	62.7	90.2	-134.7	144.1
Neck Force	Z	Newtons	895.4	55.8	-116.3	17.8	937.7	63.0	-67.5	17.3
Neck Force Resultant	N/A	Newtons	919.9	42.6			975.5	63.0		
Neck Moment	X	N•m	7.1	87.0	-18.0	106.5	16.8	96.8	-9.1	152.2
Neck Moment	Y	N•m	49.9	60.3	-24.2	94.5	17.9	138.5	-16.3	102.6
Neck Moment	Z	N•m	13.4	83.7	-8.4	143.1	5.3	123.6	-5.6	76.7
Neck Moment Resultant	N/A	N•m	51.8	60.3			19.1	134.5		

FOOT PEAK ACCELERATIONS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Left Foot Aft	X	G's	17.4	79.6	-45.0	62.0	14.8	61.3	-85.4	43.5
Left Foot Aft	Z	G's	2.3	51.1	-29.2	64.3	12.1	74.1	-67.4	41.2
Left Foot Fore	Z	G's	17.3	51.1	-52.7	64.2	17.7	69.2	-90.6	41.4
Right Foot Aft	X	G's	16.0	35.6	-73.1	43.5	8.1	83.2	-69.5	53.3
Right Foot Aft	Z	G's	39.0	44.0	-95.7	38.1	27.5	71.9	-49.0	44.0
Right Foot Fore	Z	G's	39.5	32.3	-177.0	37.9	54.0	72.4	-62.3	39.1

UPPER AND LOWER TIBIA PEAK FORCES AND MOMENTS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Left Upper Moment	X	N•m	31.9	38.8	-17.5	49.5	7.4	77.4	-36.8	42.7
Left Upper Moment	Y	N•m	15.6	188.6	-73.5	62.0	137.5	55.1	-2.8	16.0
Right Upper Moment	X	N•m	23.7	50.8	-15.9	42.1	29.8	59.4	-17.4	45.1
Right Upper Moment	Y	N•m	0.0	0.0	0.0	0.0	197.3	53.8	-33.2	71.5
Left Lower Moment	X	N•m	14.2	37.4	-43.8	49.0	38.8	60.3	-18.8	41.4
Left Lower Moment	Y	N•m	20.8	80.5	-36.8	61.2	100.3	62.1	-6.7	27.7
Left Lower Force	Z	Newtons	75.9	197.8	-1266.7	38.1	0.0	0.0	0.0	0.0
Right Lower Moment	X	N•m	6.8	48.0	-17.8	104.2	10.9	59.4	-6.8	199.5
Right Lower Moment	Y	N•m	19.7	64.0	-27.5	44.4	70.2	54.8	-5.0	18.8
Right Lower Force	Z	Newtons	85.3	137.7	-3857.6	40.0	109.7	162.0	-2515.9	44.4

1.) Driver and Passenger channels failed, no data

DATA SHEET NO. 8...(CONTINUED)

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

CHEST PEAK DEFLECTIONS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Chest	X	MM	0.0	5.6	-24.7	64.7	0.0	6.4	-16.5	76.6

HEAD REDUNDANT PEAK ACCELERATIONS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Head CG	X	G's	0.4	200.0	-43.7	66.4	1.2	15.9	-49.3	78.6
Head CG	Y	G's	1.8	190.1	-7.7	80.3	7.6	63.5	-5.5	94.8
Head CG	Z	G's	18.7	42.0	-2.4	89.4	22.8	81.8	-1.4	17.5
Head CG Resultant	N/A	G's	44.6	66.4			53.8	80.1		

CHEST REDUNDANT PEAK ACCELERATIONS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Chest CG	X	G's	2.0	123.5	-37.4	70.9	2.1	147.5	-40.5	80.9
Chest CG	Y	G's	4.8	103.4	-3.0	55.3	4.1	34.0	-10.7	91.8
Chest CG	Z	G's	7.5	24.3	-11.5	89.0	5.3	24.0	-7.9	75.5
Chest CG Resultant	N/A	G's	37.8	70.9			40.8	80.9		

REDUNDANT HEAD INJURY CRITERIA (HIC36)

Location	Driver				Passenger			
	HIC	T ¹	T ²	Avg G	HIC	T ¹	T ²	Avg G
Head CG Redundant	249.2	48.8	82.9	35.1	335.5	62.5	98.5	38.7

REDUNDANT CHEST CLIP (3MSEC)

Location	Driver			Passenger		
	CLIP	T ¹	T ²	CLIP	T ¹	T ²
Chest CG Redundant	36.4	69.8	72.8	39.9	78.9	81.9

DATA SHEET NO. 9
SEAT BELT ASSESSMENT TEST DATA

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

SEAT BELT POSITIONING MEASUREMENTS

Measurement Description	Units	Driver	Passenger
Retractor Reel to "D" ring	mm	800	800
Shoulder Belt length as measured on ATD	mm	910	880
Lap Belt length as measured on ATD	mm	940	810
Remainder of belt on reel	mm	690	710
Total belt length for continuous webbing systems	mm	3340	3200

SHOULDER BELT SPOOL-OFF DATA

Measurement Description	Units	Driver	Passenger
As determined mechanically	mm	65	170
As determined electronically	mm	*	*

* Sensor Not Installed

BELT STRETCH DATA

Measurement Description	Units	Driver	Passenger
Electronically between belt load cell and "D" ring	mm/cm	*	*
Mechanically	mm/cm		

* Not used with shoulder belt pre-tensioner systems

DATA SHEET NO. 10
SUMMARY OF FMVSS 212 DATA

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

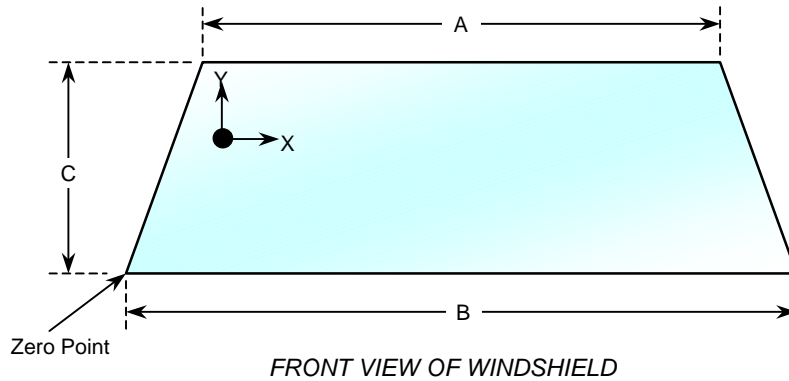
Windshield Mounting Details: Windshield glass is secured to the vehicle frame with a rubber type adhesive. No molding covers the windshield periphery at any point.

The standard requires that the post-test retention measurement be a minimum of 75 percent of the pre-test total periphery measurement for vehicles not equipped with occupant passive restraints and 50 percent for each side of the windshield for vehicles that are equipped with occupant passive restraints.

Temperature of windshield molding during test: 22.0 °C

WINDSHIELD PERIPHERY MEASUREMENTS

Measurement	Pre-Test(mm)	Post-Test(mm)	% of Retention
Left Side	2364	2364	100
Right Side	2364	2364	100
Total	4727	4727	100



WINDSHIELD DIMENSIONS

Item	Units	Segment Length	Molding Width
A	mm	1302	15
B	mm	1625	10
C-Left	mm	900	30
C-Right	mm	900	30

DATA SHEET NO. 11
WINDSHIELD ZONE INTRUSION FMVSS 219 DATA (PARTIAL)

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

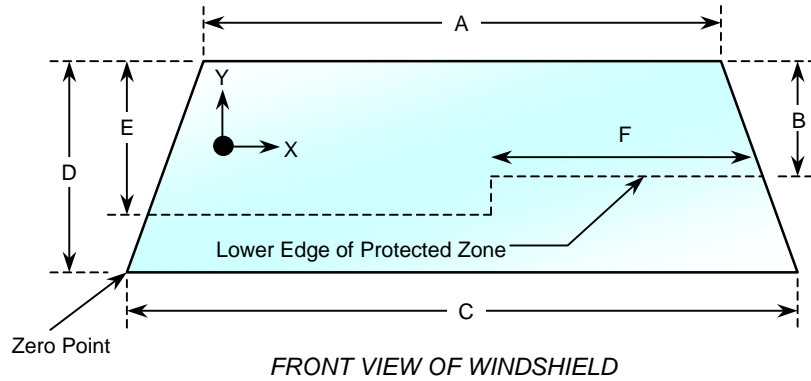
NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

**WINDSHIELD AND
PROTECTED ZONE**

Item	Units	Value
A	mm	1302
B	mm	625
C	mm	1625
D	mm	900
E	mm	535
F	mm	530



AREA OF PROTECTED ZONE FAILURES

A. Provide coordinates of the area that the protected zone was penetrated more than 0.25 in. by a vehicle component other than one that is normally in contact with the windshield.

X	Y

B. Provide coordinates of the area beneath the protected zone that the inner surface of the windshield was penetrated by a vehicle component.

X	Y

DATA SHEET NO. 12
FMVSS 301 FUEL SYSTEM INTEGRITY POST IMPACT DATA

Test Vehicle: 2005 Honda Odyssey 5-Door MPV NHTSA No.: M55302
Test Program: 2005 NHTSA 35mph NCAP Test Date: 12/16/04
Test Time: 2:25 PM Temperature: 14.4 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 Location Details: No leakage occurred

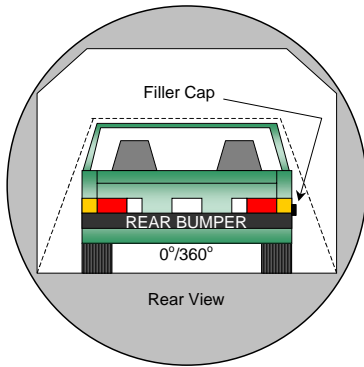
DATA SHEET NO. 13
FMVSS 301 STATIC ROLLOVER DATA

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

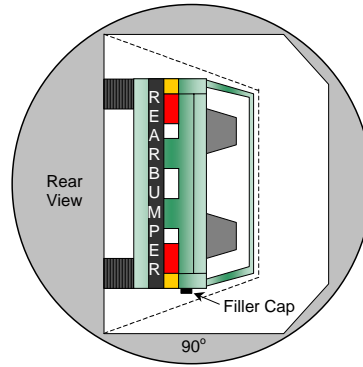
NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

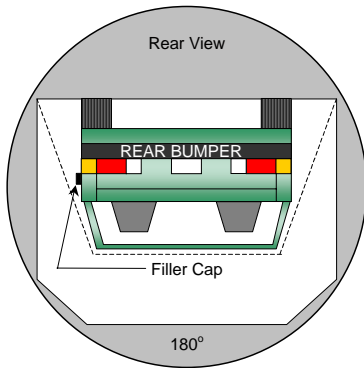
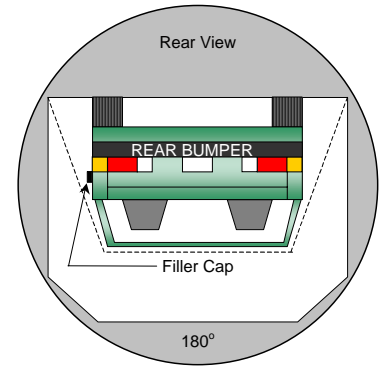
Test Date: 12/16/04



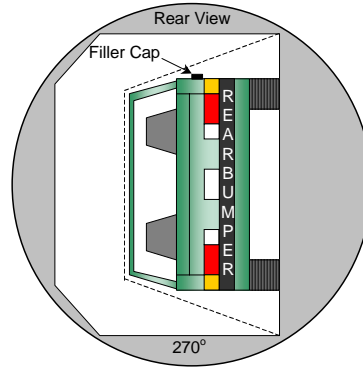
0° to 90°



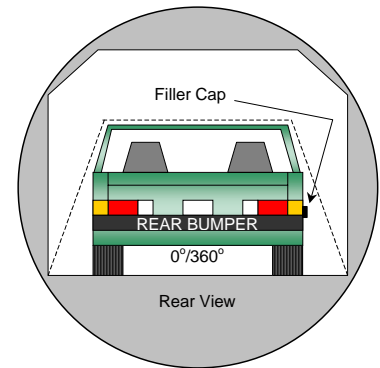
90° to 180°



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. No solvent leakage occurred during rollover.

**DATA SHEET NO. 13...(CONTINUED)
FMVSS 301 STATIC ROLLOVER DATA**

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

SOLVENT COLLECTION TIME TABLE IN SECONDS

Test Phase	Rotation Time	Hold Time	Total Time
0° to 90°	81	300	381
90° to 180°	77	300	377
180° to 270°	83	300	383
270° to 360°	78	300	378

FMVSS 301 SPILLAGE TABLE REQUIREMENT (oz.)

First 5 Minutes	5
Sixth Minute	1
Seventh Minute	1
Eighth Minute	1

ACTUAL TEST VEHICLE SOLVENT SPILLAGE TABLE (oz.)

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

DATA SHEET NO. 14
VEHICLE MEASUREMENTS

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

VEHICLE MEASUREMENT TABLE

No.	Measurement Description	Units	Pre-Test	Post-Test	Diff.
1	Total length of vehicle at centerline	mm	5103	4648	-455
2	RSOV to front of engine	mm	4698	4293	-405
3	RSOV to firewall centerline	mm	4245	4218	-27
4	RSOV to leading edge of right door	mm	3705	3702	-3
5	RSOV to leading edge of left door	mm	3700	3698	-2
6	RSOV to lower leading edge of right door	mm	3675	3684	9
7	RSOV to lower leading edge of left door	mm	3672	3681	9
8	RSOV to upper trailing edge of right door	mm	2630	2626	-4
9	RSOV to upper trailing edge of left door	mm	2620	2623	3
10	RSOV to lower trailing edge of right door	mm	2625	2624	-1
11	RSOV to lower trailing edge of left door	mm	2621	2630	9
12	RSOV to bottom of right 'A' pillar	mm	3646	3650	4
13	RSOV to bottom of left 'A' pillar	mm	3641	3648	7
14	RSOV to firewall on right side	mm	4233	4198	-35
15	RSOV to firewall on left side	mm	4238	4223	-15
16	RSOV to steering column	mm	3306	3260	-46
17	Center of steering column to left 'A' pillar	mm	420	380	-40
18	Center of steering column to headlining	mm	460	460	0
19	RSOV to right side of front bumper	mm	4876	4546	-330
20	RSOV to left side of front bumper	mm	4873	4578	-295
21	Length of engine block	mm	620	620	0
RD	RSOV to right side of dash panel	mm	3476	3481	5
CD	RSOV to center of dash panel	mm	3525	3525	0
LD	RSOV to left side of dash panel	mm	3481	3480	-1

All measurements are in millimeters

DATA SHEET NO. 14...(CONTINUED)
VEHICLE STRUCTURAL MEASUREMENTS

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

VEHICLE STRUCTURAL MEASUREMENT TABLE

No.	Measurement Description	Units	Pre-Test	Post-Test	Diff.
1	Total length	mm	5103	4648	-455
2	Total width	mm	1956	1960	4
3	Bumper top height	mm	672	710	38
4	Bumper bottom height	mm	205	130	-75
5	Longitudinal member top height	mm	564	605	41
6	Longitudinal member bottom height	mm	470	510	40
7	Distance between longitudinal members	mm	980	1010	30
8	Longitudinal member width	mm	105	91	-14
9	Engine top height	mm	837	830	-7
10	Engine bottom height	mm	183	163	-20
11	Engine and gear box width	mm	900	900	0
12	Front bumper to engine distance	mm	460	360	-100
13	Front shock absorber fixing width	mm	1025	1025	0
14	Bonnet leading edge height	mm	850	900	50
15	Front shock absorber fixing width	mm	1270	1275	5
16	Front bumper to front axle distance	mm	925	465	-460
17	Front axle to 'A' pillar distance	mm	460	390	-70
18	'A' pillar to 'B' pillar distance	mm	1077	1075	-2
19	'B' pillar to rear axle distance	mm	1456	1455	-1
20	'B' pillar to 'C' pillar distance	mm	1040	1035	0
21	Roof sill bottom height	mm	1502	1550	48
22	Roof sill top height	mm	1680	1720	40
23	Floor sill bottom height	mm	210	180	-30
24	Floor sill top height	mm	402	380	-22

All measurements are in millimeters

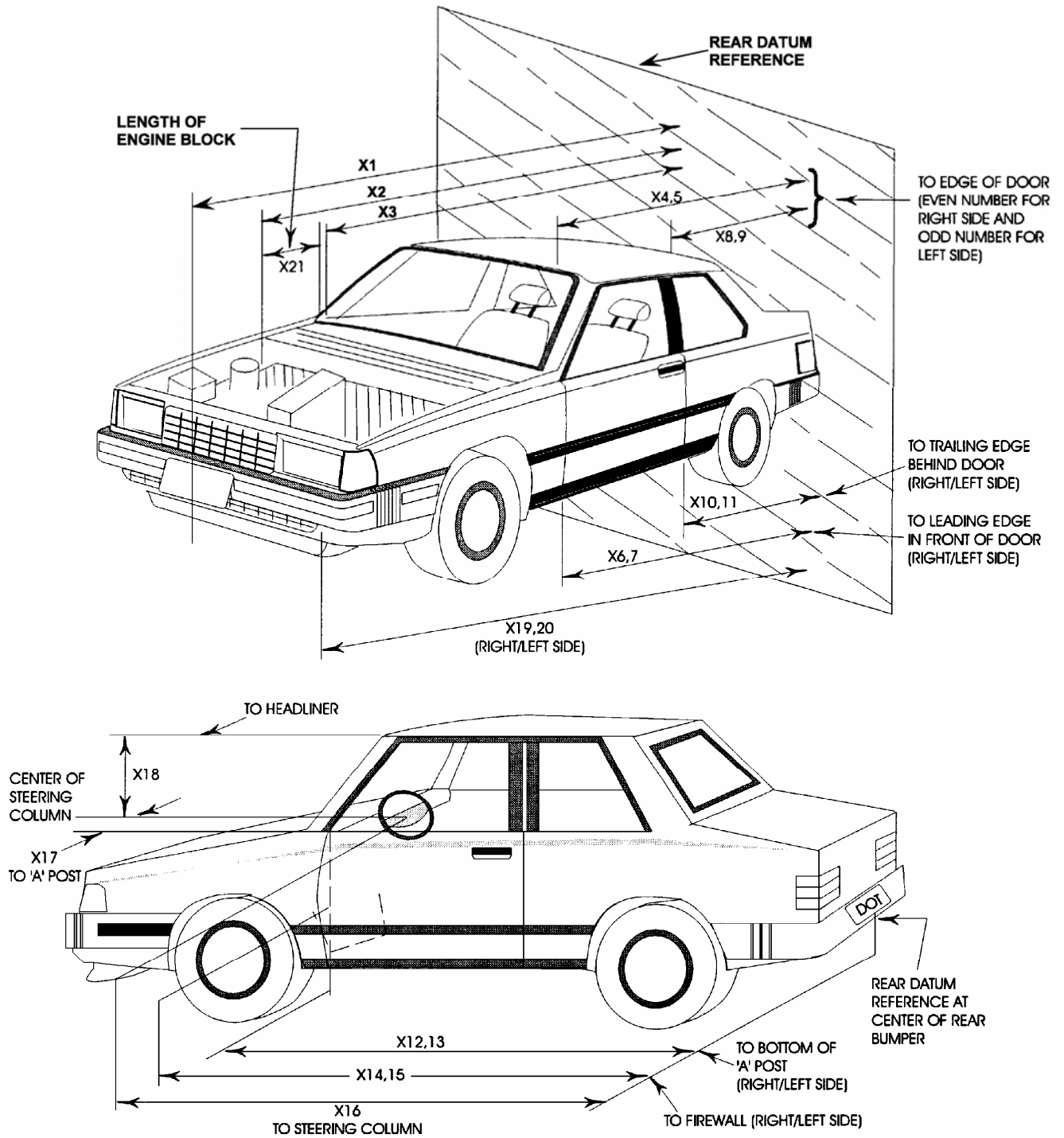
DATA SHEET NO. 14...(CONTINUED)
VEHICLE MEASUREMENTS

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04



**DATA SHEET NO. 15
CAMERA LOCATIONS**

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

VEHICLE CAMERA MEASUREMENT TABLE

No.	Camera View	Location (mm)			Angle (deg.)	Film Plane to Head	Lens (mm)	Speed (fps)
		X	Y	Z				
1	Real-Time Camera (Panning)	-12192	-6096	-1651	-10		Zoom	30
2	Overall Left Side	-2489	-8280	-1143	-4	7705	13	1020
3	Left Side View	-2134	-8230	-1449	-4	7646	35	1065
4	Driver and Interior View	-5257	-10897	-4648	-13	11516	75	910
5	Steering Column (Bottom)	-2134	-8230	-2997	-16	7804	19	1000
6	Steering Column (Top)	-2134	-8230	-3404	-20	7896	19	1020
7	Overall Right Side	-2083	8230	-1270	-6	7649	13	1035
8	Right Side View	-1677	10871	-1575	-4	10303	80	935
9	Passenger and Interior View	-6781	9144	-2997	-9	9817	50	1020
10	Right Side View	-2083	8230	-1575	-4	7648	28	1015
11	Windshield	-610	0	-5944	-90		13	1025
12	Driver Front View	610	-432	-2667	-40		13	720
13	Passenger Front View	610	432	-2667	-40		13	1010
14	Pit View of Engine	-914	0	1499	90		9	900
15	Pit View of Fuel Tank	-2438	0	1499	90		6	780

ADDITIONAL CAMERAS

1	Real-Time Camera (Still)	-1219	-8585	-1372	0	8065	Zoom	30
2	Real-Time Camera (Still)	-1067	7976	-991	0	7496	Zoom	30
3	Overall Left Side	-1883	-7671	-1143	-2	7096	10	1000

X = Barrier Face Y = Monorail Centerline Z = Ground DNR = Did Not Run NTM = No Timing Marks

DATA SHEET NO. 16
PHOTOGRAPHIC REFERENCE TARGET LOCATIONS

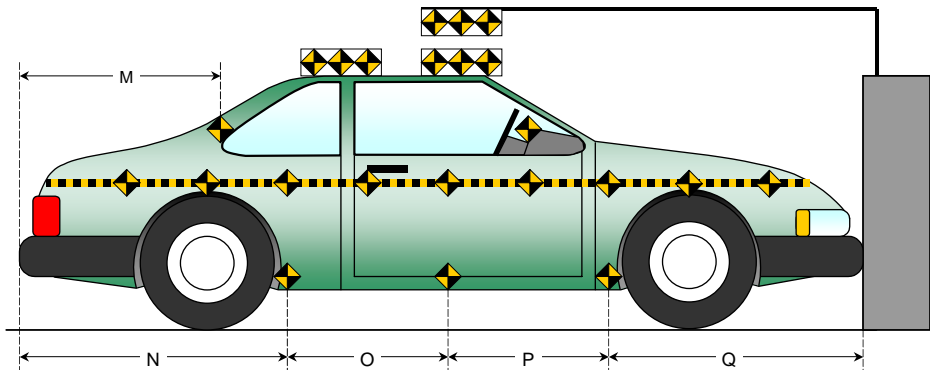
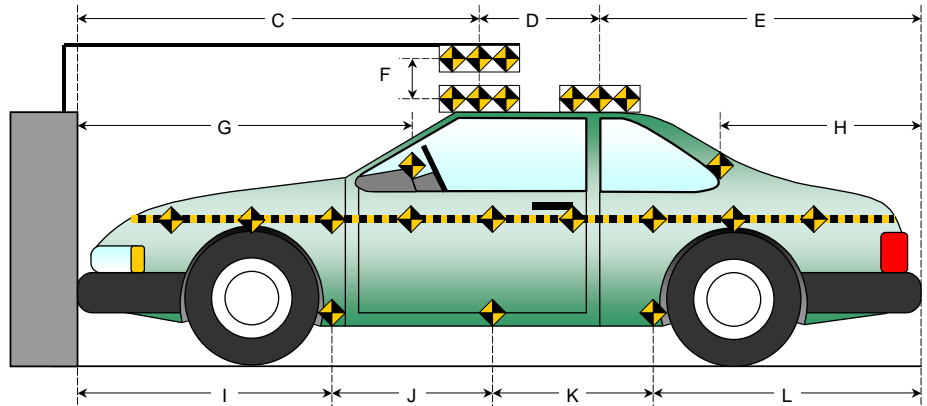
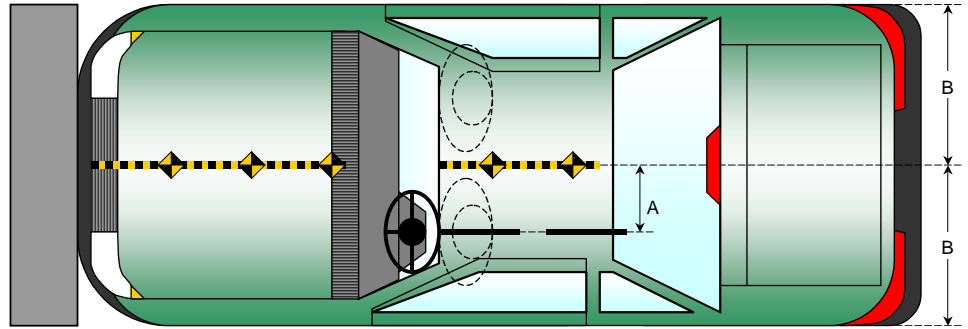
Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

All Dimensions in (mm)	
Item	Value
A	430
B	978
C	2030
D	610
E	2445
F	150
G	1580
H	1495
I	1435
J	1023
K	1023
L	1645
M	1495
N	1645
O	1023
P	1023
Q	1435



DATA SHEET NO. 17
VEHICLE INTRUSION MEASUREMENTS

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

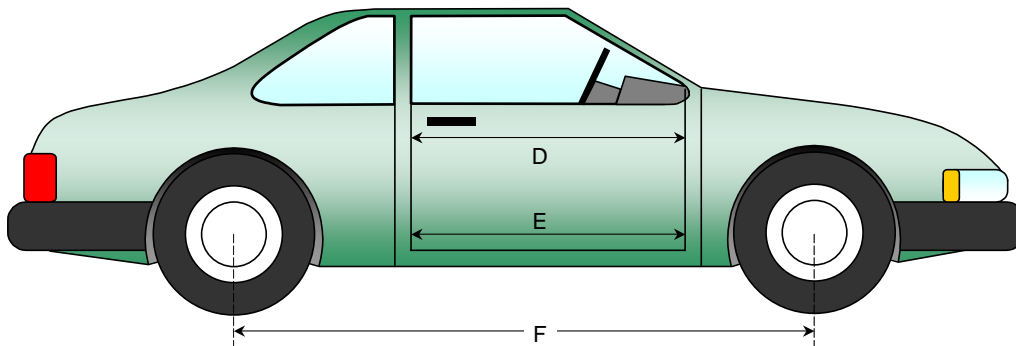
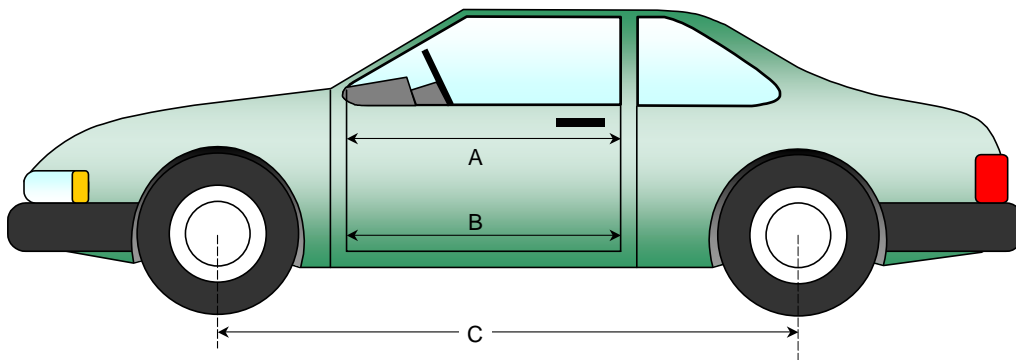
Test Date: 12/16/04

DOOR OPENING WIDTH TABLE

Item	Description	Units	Pre-Test	Post-Test	Diff.
A	Left Side Upper	mm	991	988	-3
B	Left Side Lower	mm	911	913	2
D	Right Side Upper	mm	991	988	-3
E	Right Side Lower	mm	936	935	-1

WHEELBASE MEASUREMENT TABLE

Item	Description	Units	Pre-Test	Post-Test	Diff.
C	Left Side Wheel Base	mm	3010	2885	-125
F	Right Side Wheel Base	mm	3010	2860	-150



DATA SHEET NO. 17...(CONTINUED)
VEHICLE INTRUSION MEASUREMENTS

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

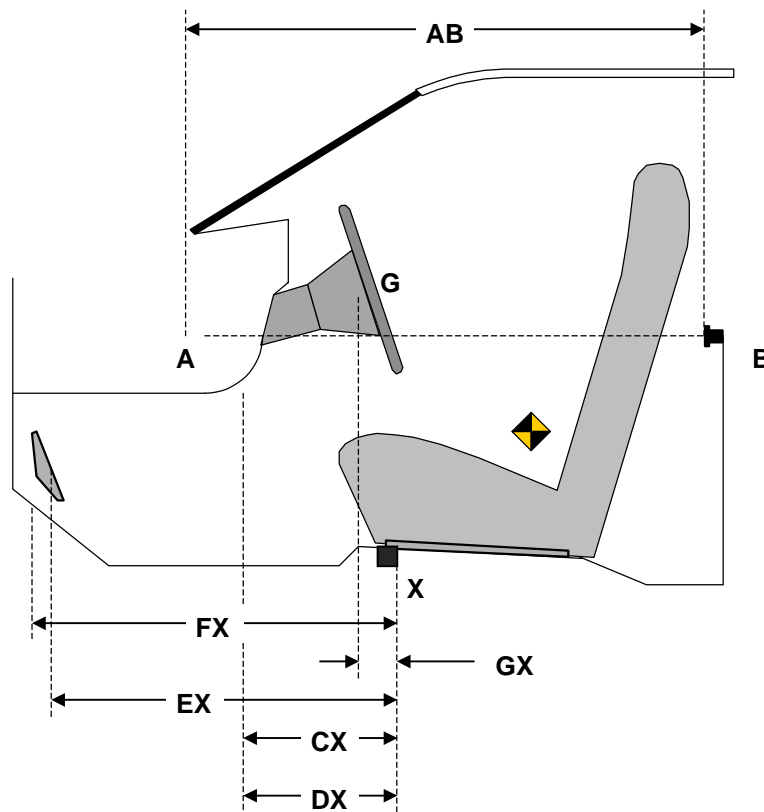
Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

DRIVER COMPARTMENT INTRUSION TABLE

Item	Description	Units	Pre-Test	Post-Test	Diff.
AB	Door Opening (Inside window jam)	mm	991	988	-3
CX	Left Knee Bolster to X	mm	300	240	-60
DX	Right Knee Bolster to X	mm	275	310	35
EX	Brake Pedal to X	mm	551	400	-151
FX	Foot Rest to X	mm	529	435	-94
GX	Center of Steering Wheel Hub to X	mm	70	60	-10

X = Left Front Seat Outboard Anchor Bolt Head



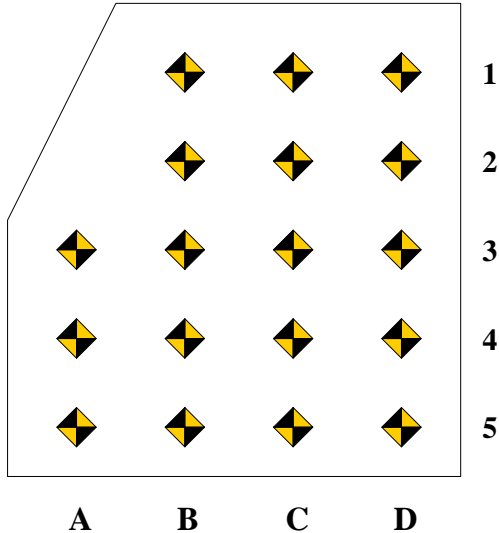
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VEHICLE INTRUSION MEASUREMENTS

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04



Measurement reference point for X and Z-axis is the forward outboard seat mounting bolt.

Columns A through D are evenly spaced.

Rows 1 and 2 are on the toe kick portion of the floor pan. Rows 3, 4 and 5 are located on the most level portion of the floor pan.

Row 3 will be at the intersection of the toe kick and the level sections of the floor pan.

DRIVER FLOOR PAN X-AXIS

	Pre-Test				Post-Test				Difference			
	A	B	C	D	A	B	C	D	A	B	C	D
1		651	649	643		620	612	598		-31	-37	-46
2		566	561	558		542	530	520		-23	-30	-38
3	464	463	462	458	461	457	450	430	-3	-6	-12	-28
4	356	358	360	361	353	354	350	341	-3	-4	-10	-21
5	260	258	259	257	261	254	247	239	1	-4	-13	-17

DRIVER FLOOR PAN Z-AXIS

	Pre-Test				Post-Test				Difference			
	A	B	C	D	A	B	C	D	A	B	C	D
1		-40	-38	-35		-69	-66	-92		-29	-28	-57
2		4	7	-5		-10	-6	-12		-15	-12	-6
3	23	25	23	25	9	12	19	-2	-15	-13	-4	-27
4	20	22	25	25	4	10	16	31	-16	-12	-9	6
5	20	22	25	20	9	15	25	36	-10	-7	0	16

**DATA SHEET NO. 17...(CONTINUED)
VEHICLE INTRUSION MEASUREMENTS**

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

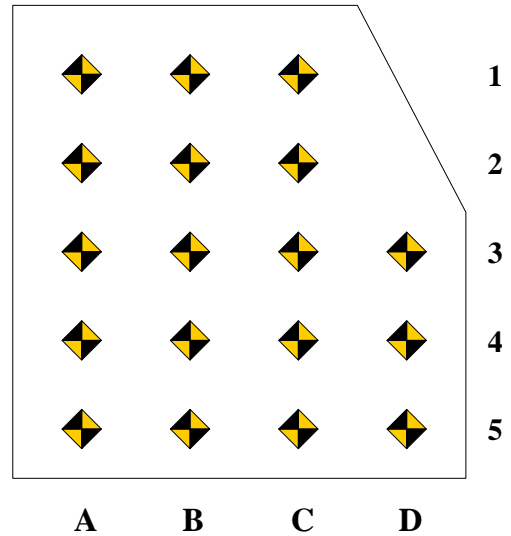
Test Date: 12/16/04

Measurement reference point for X and Z axis is the forward outboard seat mounting bolt.

Columns A through D are evenly spaced.

Rows 1 and 2 are on the toe kick portion of the floor pan. Rows 3, 4 and 5 are located on the most level portion of the floor pan.

Row 3 will be at the intersection of the toe kick and the level sections of the floor pan.



PASSENGER FLOOR PAN X-AXIS

	Pre-Test				Post-Test				Difference			
	A	B	C	D	A	B	C	D	A	B	C	D
1	622	633	645		581	588	593		-41	-44	-52	
2	537	541	557		504	505	515		-32	-36	-41	
3	428	445	455	474	401	413	423	441	-27	-33	-32	-34
4	336	344	355	365	308	312	319	334	-28	-32	-36	-31
5	236	245	252	261	242	225	240	253	5	-19	-11	-8

PASSENGER FLOOR PAN Z-AXIS

	Pre-Test				Post-Test				Difference			
	A	B	C	D	A	B	C	D	A	B	C	D
1	-32	-38	-44		-105	-114	-122		-73	-76	-79	
2	14	8	4		-42	-53	-58		-57	-60	-61	
3	20	13	20	28	-21	-30	-24	-18	-41	-44	-44	-45
4	22	13	19	28	-12	-17	-16	-21	-34	-30	-34	-48
5	34	15	18	25	3	-44	-43	-22	-31	-59	-61	-47

DATA SHEET NO. 18
FIXED BARRIER LOAD CELL LOCATIONS

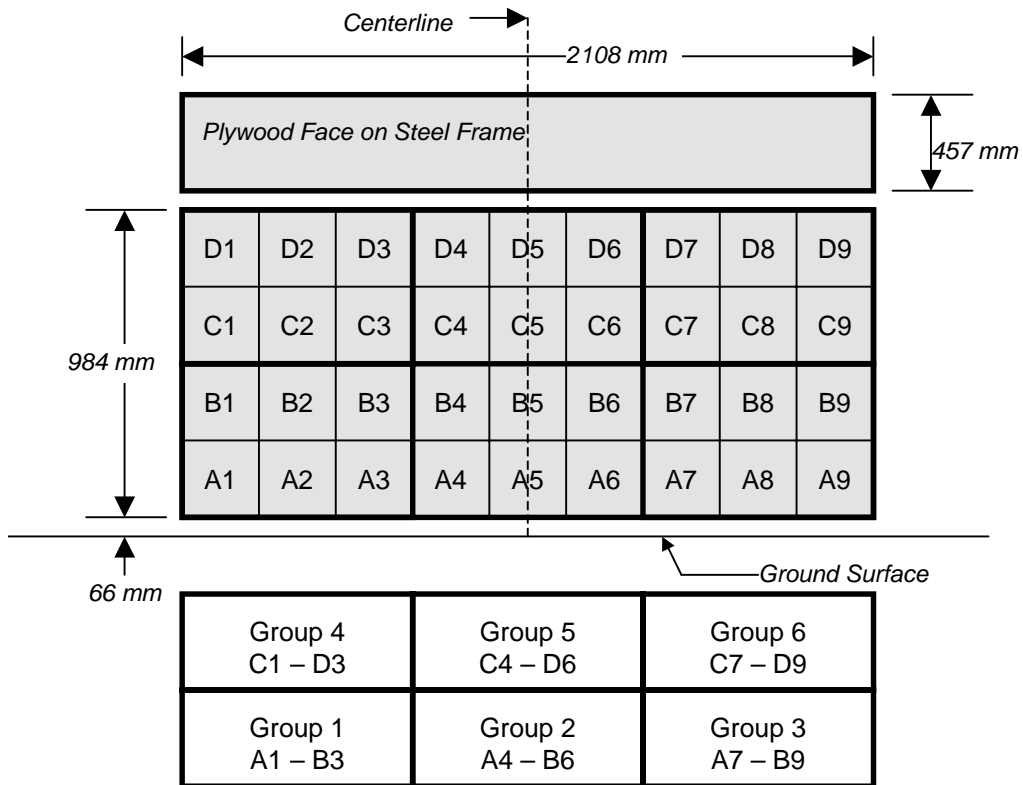
Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

36 Load Cell Rigid Barrier (NHTSA Standard)
Load Cell Locations on Fixed Barrier



6 Groups of 6 Load Cells Each

The Data is presented in Appendix C with the following requirements:

- 1.) Data from 36 individual load cells
- 2.) Sum data from 6 groupings shown above (6 cells/group)
- 3.) Total or sum of all 36 individual load cells
- 4.) Sum of all 36 individual load cells vs. vehicle dynamic crush

**DATA SHEET NO. 19
POST-TEST AIRBAG DATA**

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

POST-TEST AIRBAG DATA

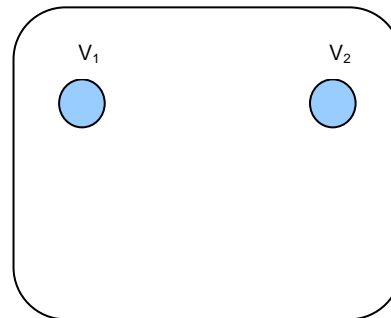
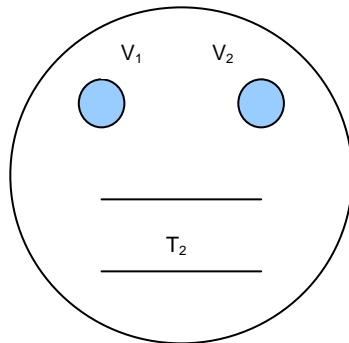
	DRIVER	PASSENGER
No. of vent holes	2	2
Size of vent holes (mm ²)	1963	6539
Total vent area (mm ²)	3925	12717

Deflated Airbag Length and Width Dimensions or, If Round, Diameter (mm)		
Length		730
Width		640
Depth or Diameter	550	400

Tethering Information		
Is the airbag tethered?	Yes	No
Record length of tether (mm)	210	

Airbag Manufacturing Information		
Manufacturer	Daicel Safety Systems	Daicel Safety Systems
Part No.	SZQS7F823	TAQS7M738
Gas Generator	Z50E4078535	SHJ4819

Sketch the airbag showing the location of the vent holes, how the bag is tethered, and where the bag is tethered. Also describe how the tethers are attached to the bag and the steering wheel:



DATA SHEET NO. 20
ACCIDENT INVESTIGATION DIVISION DATA

Test Vehicle: 2005 Honda Odyssey 5-Door MPV NHTSA No.: M55302
 Test Program: 2005 NHTSA 35mph NCAP Test Date: 12/16/04

VEHICLE INFORMATION

VIN: 5FNRL38295B024876 Wheel base (mm): 3010
 Vehicle Size Category: 5-Door MPV Test Weight (kg): 2263

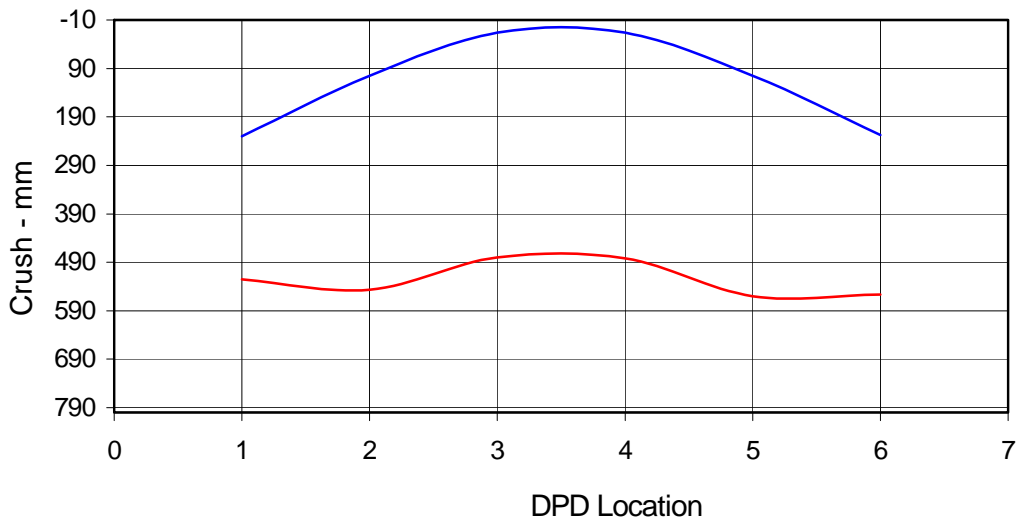
ACCELEROMETER DATA

Accelerometer Location: Left rear sill
 Cal. Procedure/Interval: 6 months / drop test
 Integration Algorithm: NHTSA Standard Linearity: Good
 Impact Velocity (km/h): 56.28
 Velocity Change (km/h): 63.03 Time of Separation (msec): 79.5

CRUSH PROFILE

Collision Deformation Classification: 12FDEW6 Midpoint of Damage: Vehicle Centerline
 Damage Region Length (mm): 1672 Impact Mode: Full Frontal

No.	Measurement Description	Units	Pre-Test	Post-Test	Difference
C1	Crush zone 1 at left side	mm	230	525	-295
C2	Crush zone 2 on left side	mm	105	547	-442
C3	Crush zone 3 on left side	mm	16	480	-464
C4	Crush zone 4 on right side	mm	16	482	-466
C5	Crush zone 5 on right side	mm	105	560	-455
C6	Crush zone 6 at right side	mm	227	557	-330



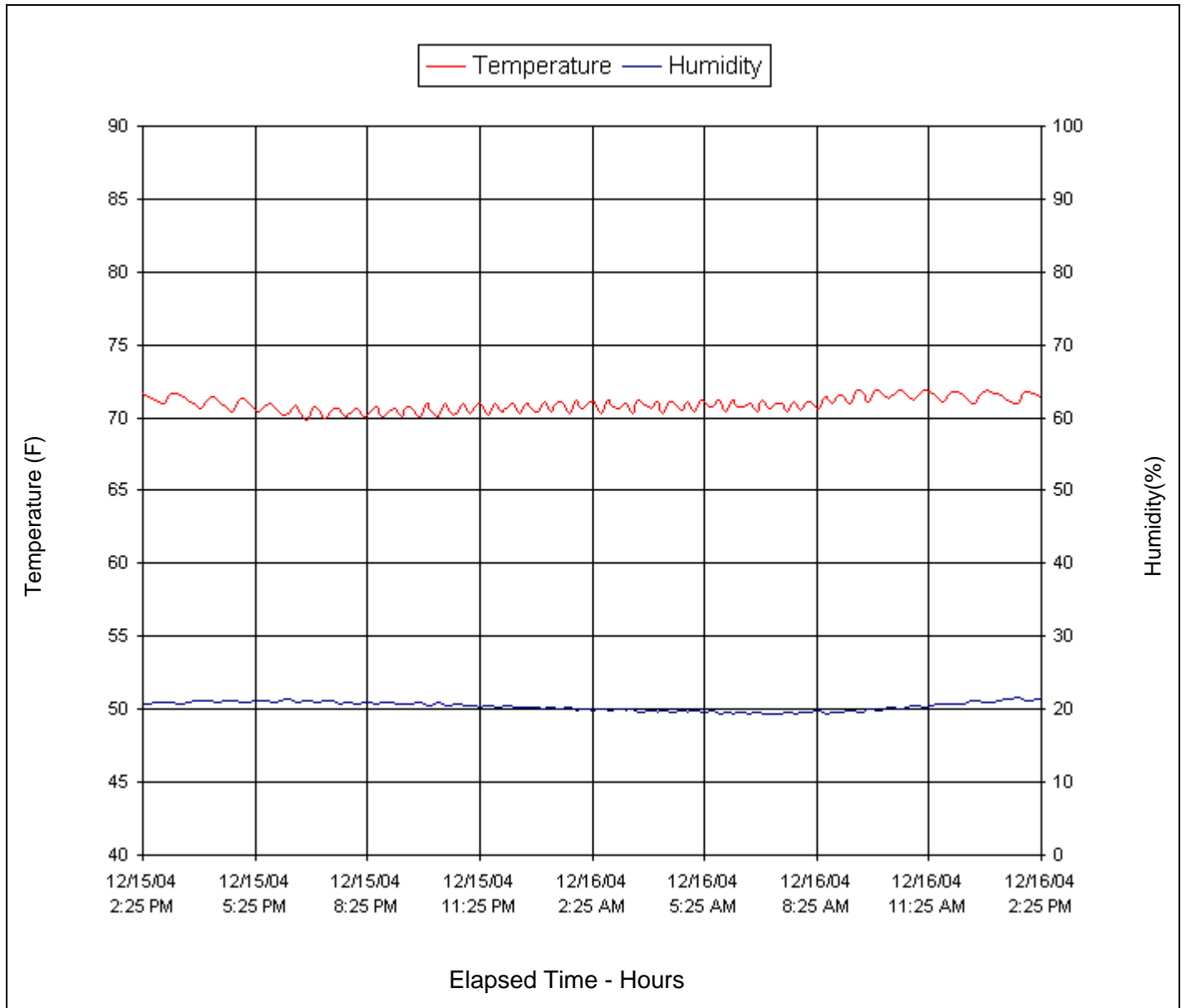
DATA SHEET NO. 21
DUMMY/VEHICLE TEMPERATURE STABILIZATION

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04



APPENDIX A
PHOTOGRAPHS

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61	Vehicle on Rollover Device (270°)	A-61
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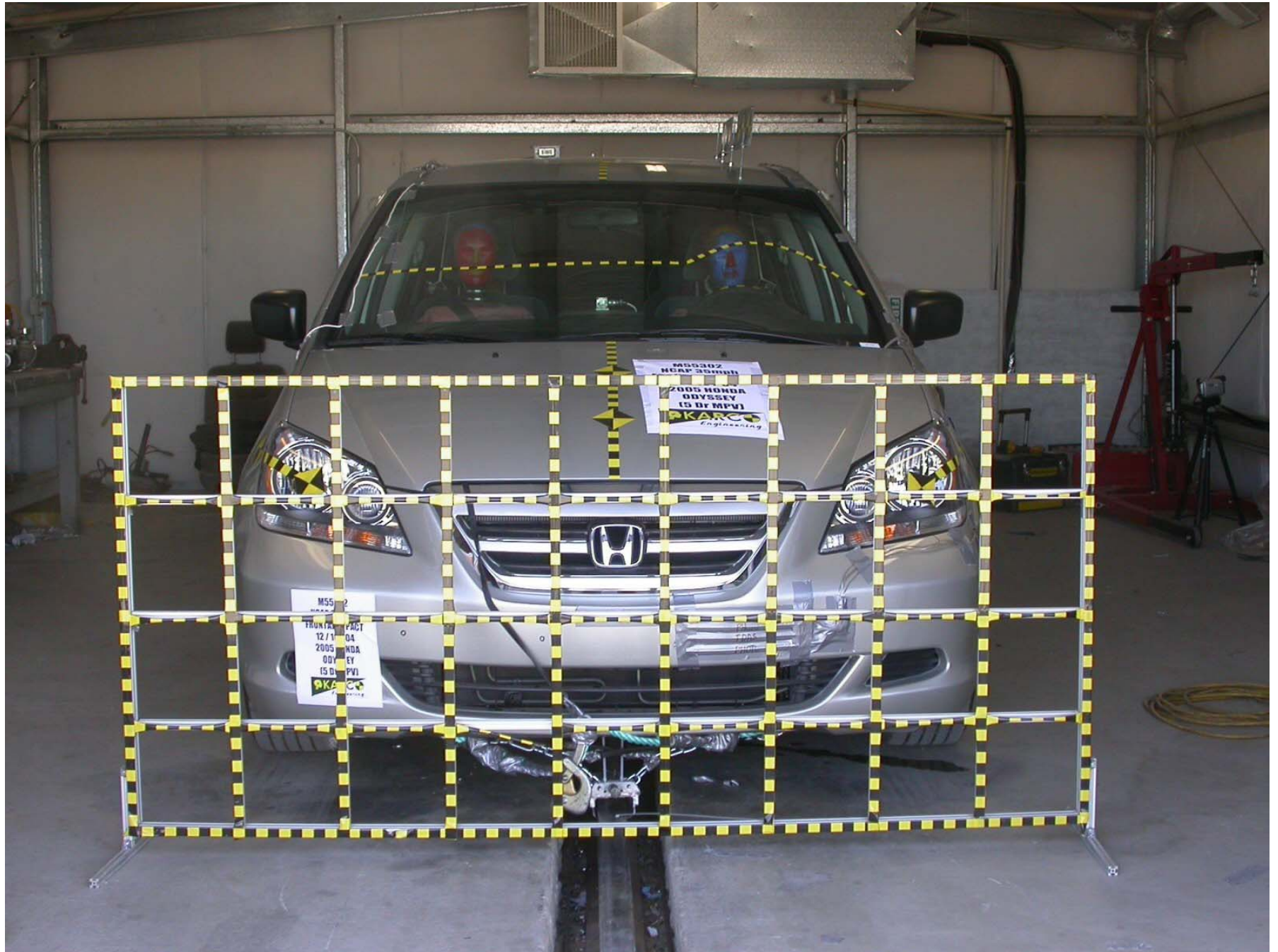


Figure A-1: Load Cell Location

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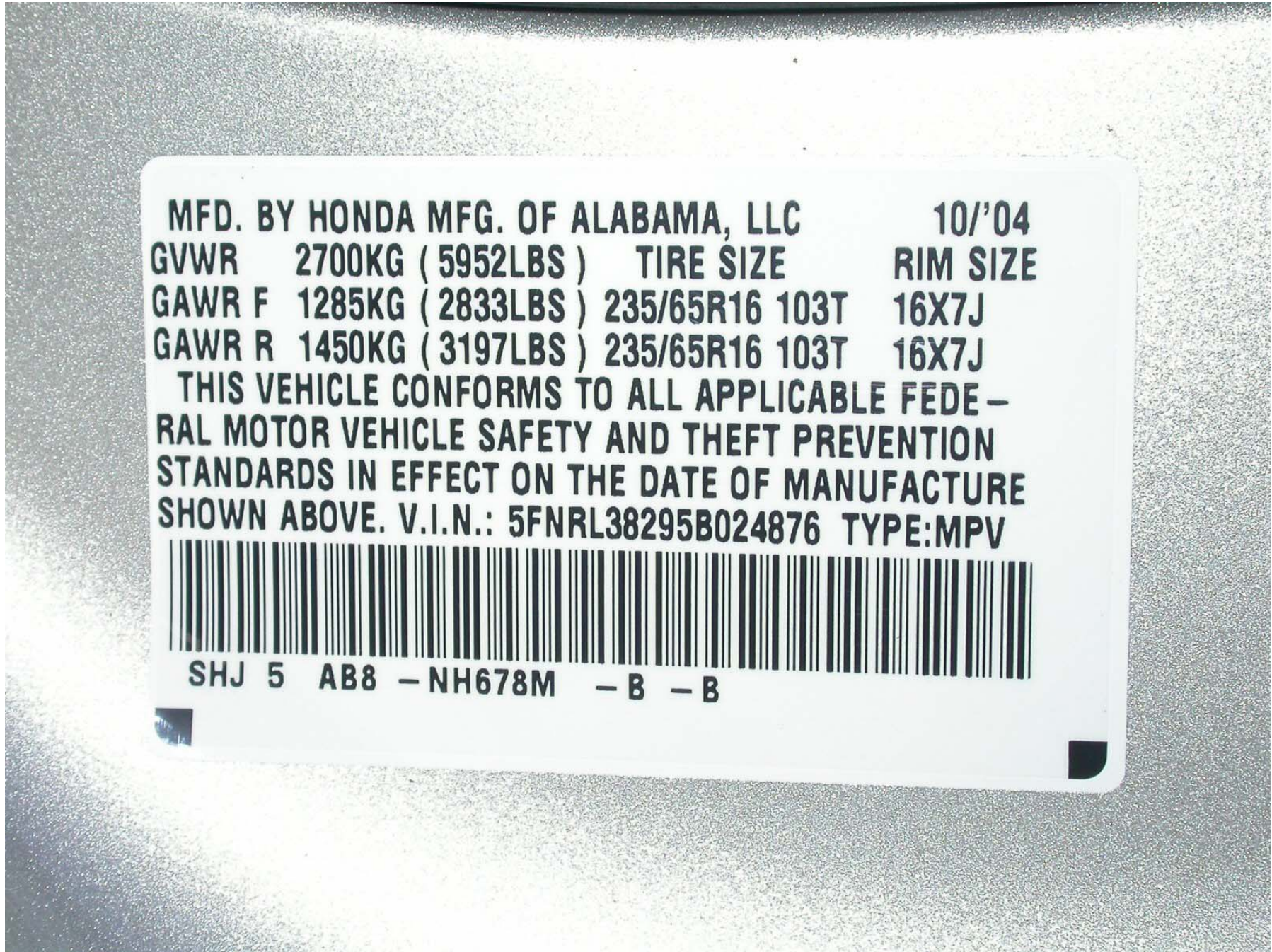


Figure A-2: Manufacturer's Label

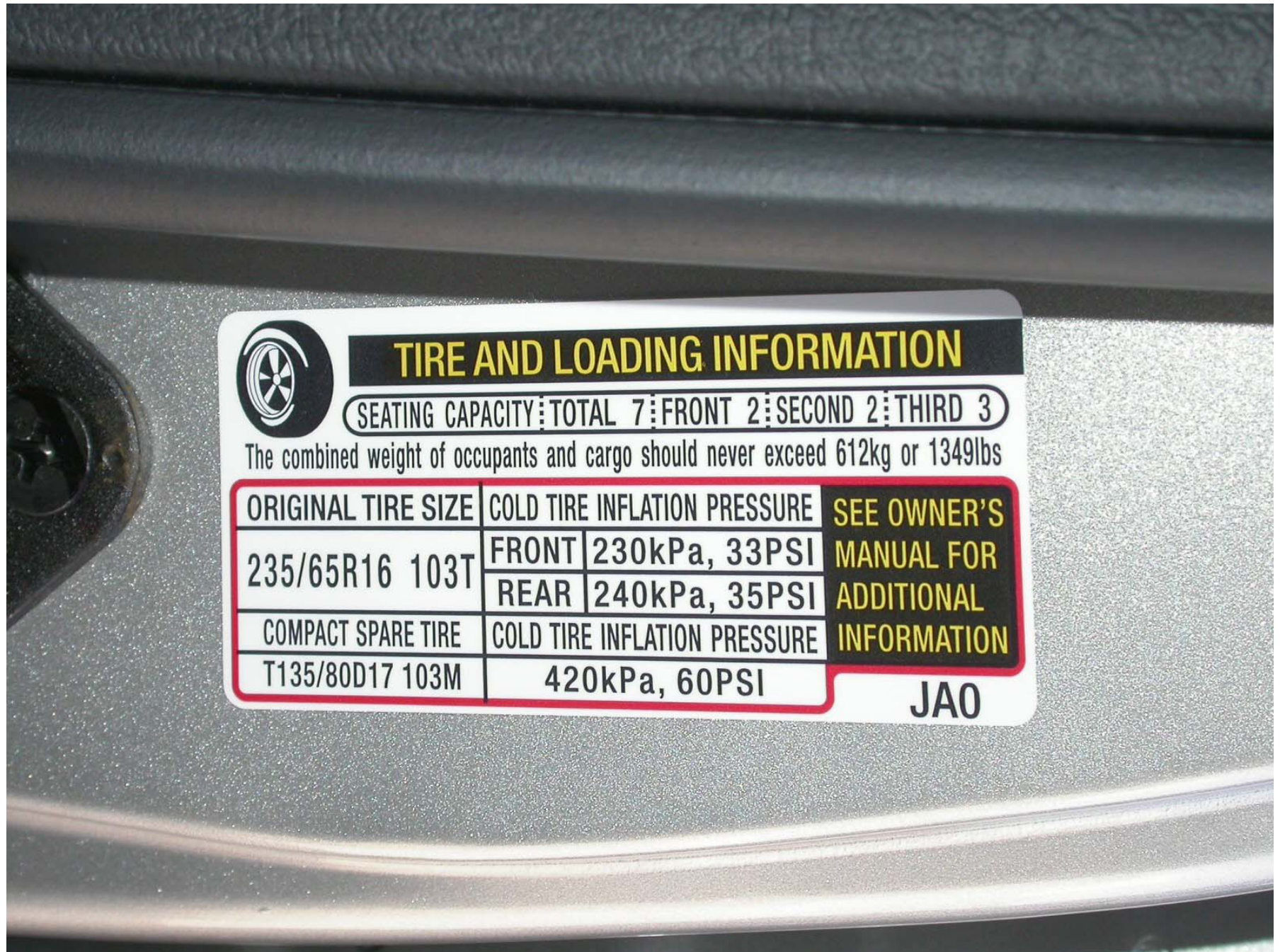


Figure A-3: Tire Placard



Figure A-4: Right Front $\frac{3}{4}$ View, As Received



A-5

TR-P25001-08-NC

Figure A-5: Left Rear $\frac{3}{4}$ View, as Received



Figure A-6: Pre-Test Front View

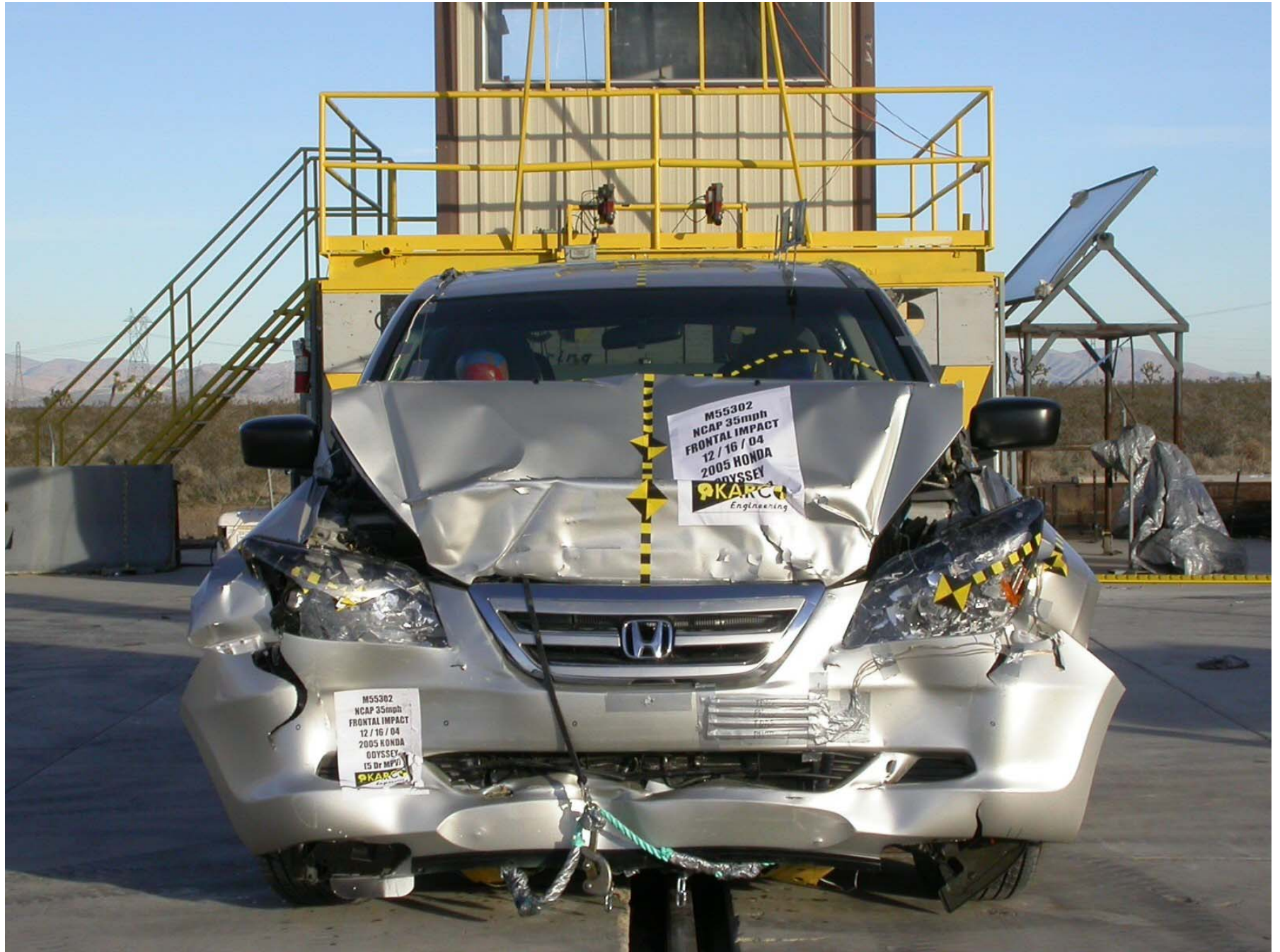


Figure A-7: Post-Test Front View (Vehicle Moved)



Figure A-8: Pre-Test Left Side View



Figure A-9: Post-Test Left Side View



Figure A-10: Pre-Test Right Side View



Figure A-11: Post-Test Right Side View



Figure A-12: Pre-Test Right Front ¾ View



Figure A-13: Post-Test Right Front ¾ View (Vehicle Moved)



Figure A-14: Pre-Test Left Rear $\frac{3}{4}$ View



Figure A-15: Post-Test Left Rear ¾ View

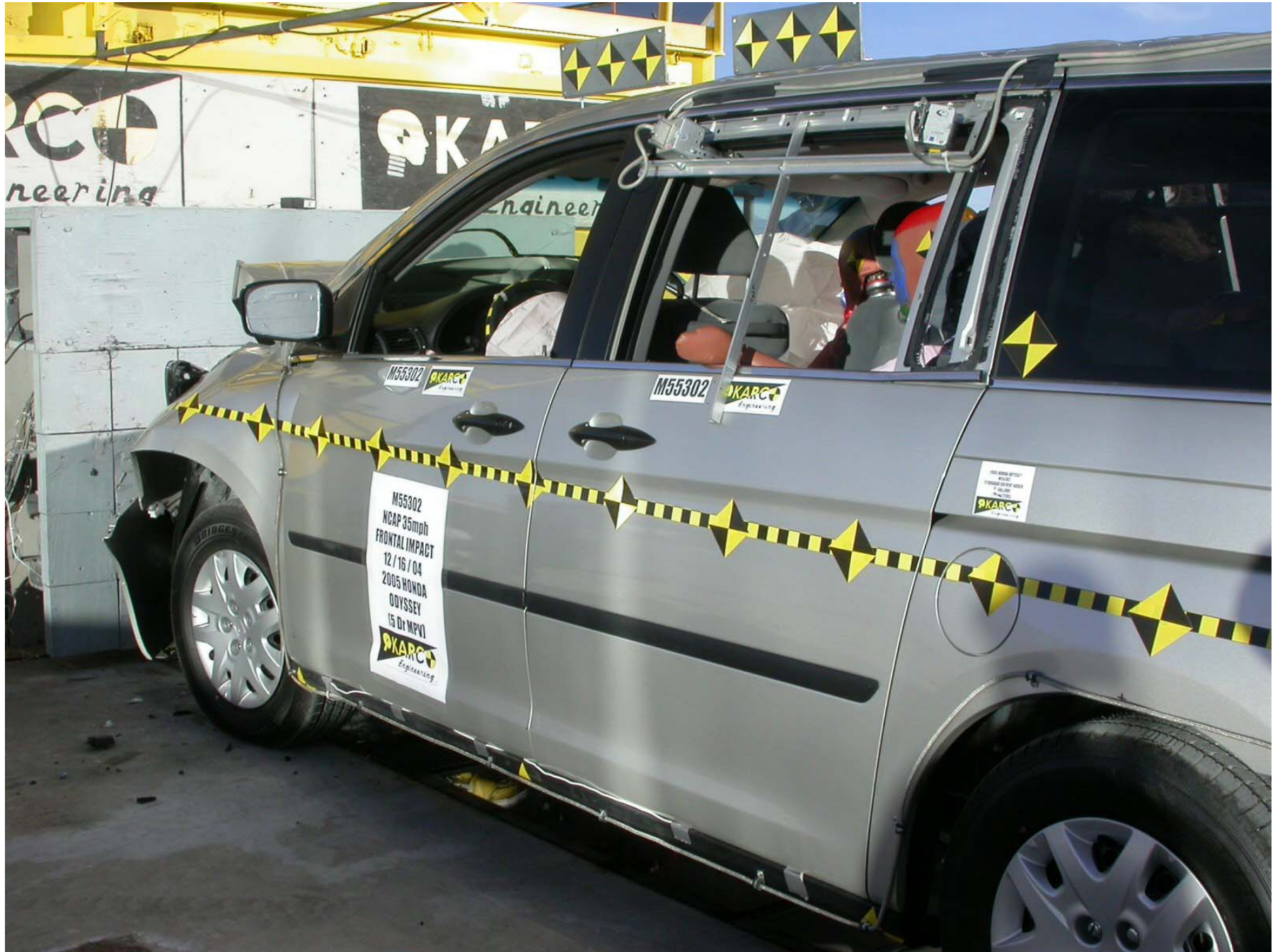


Figure A-16: Post-Test Left Side 3/4 View of Doors After Impact



Figure A-17: Post-Test Right Side $\frac{3}{4}$ View of Doors After Impact

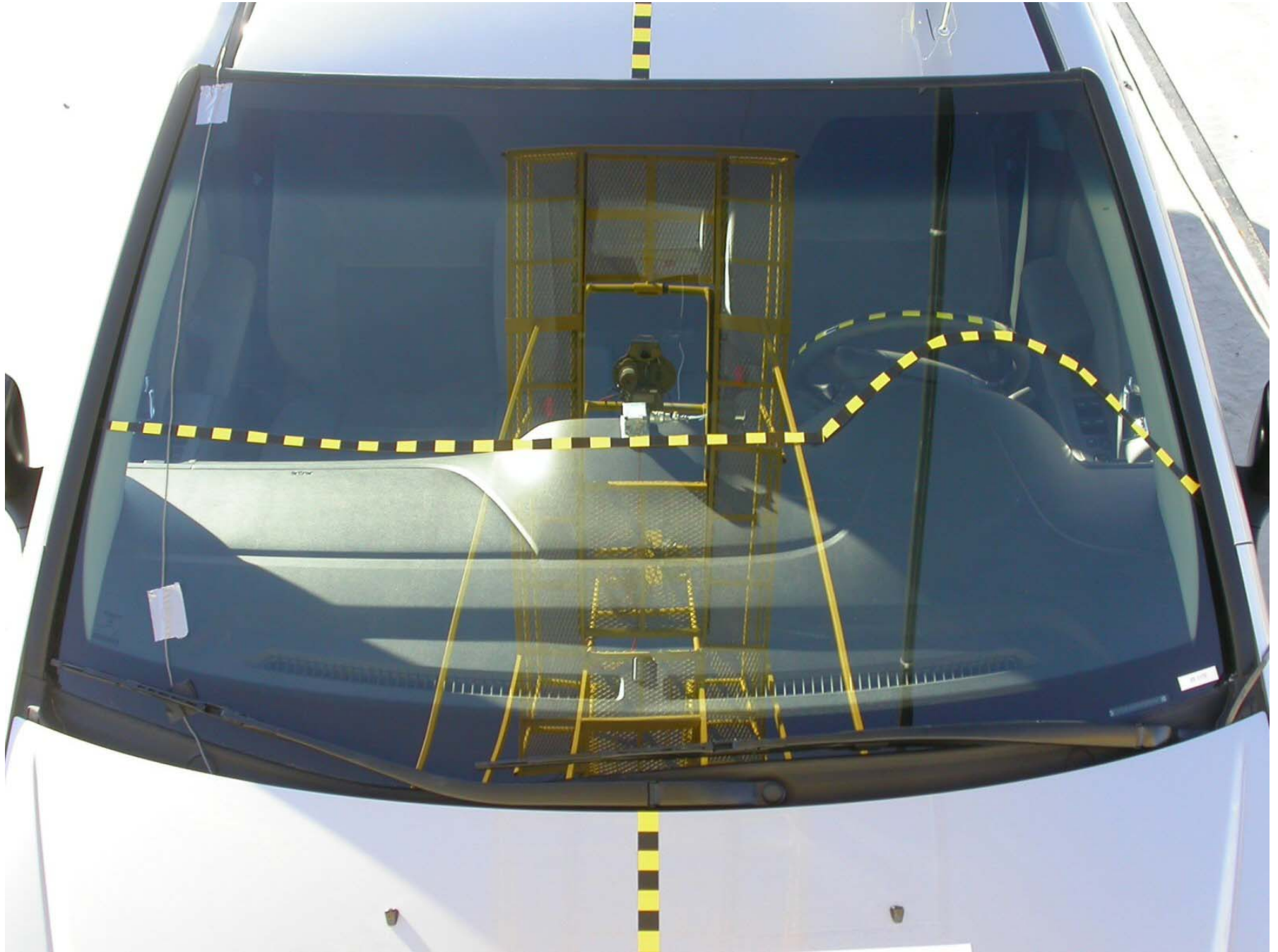


Figure A-18: Pre-Test Windshield



Figure A-19: Post-Test Windshield



Figure A-20: Pre-Test Engine Compartment



Figure A-21: Post-Test Engine Compartment (Vehicle Moved)



Figure A-22: Pre-Test Fuel Cap



Figure A-23: Post-Test Fuel Cap

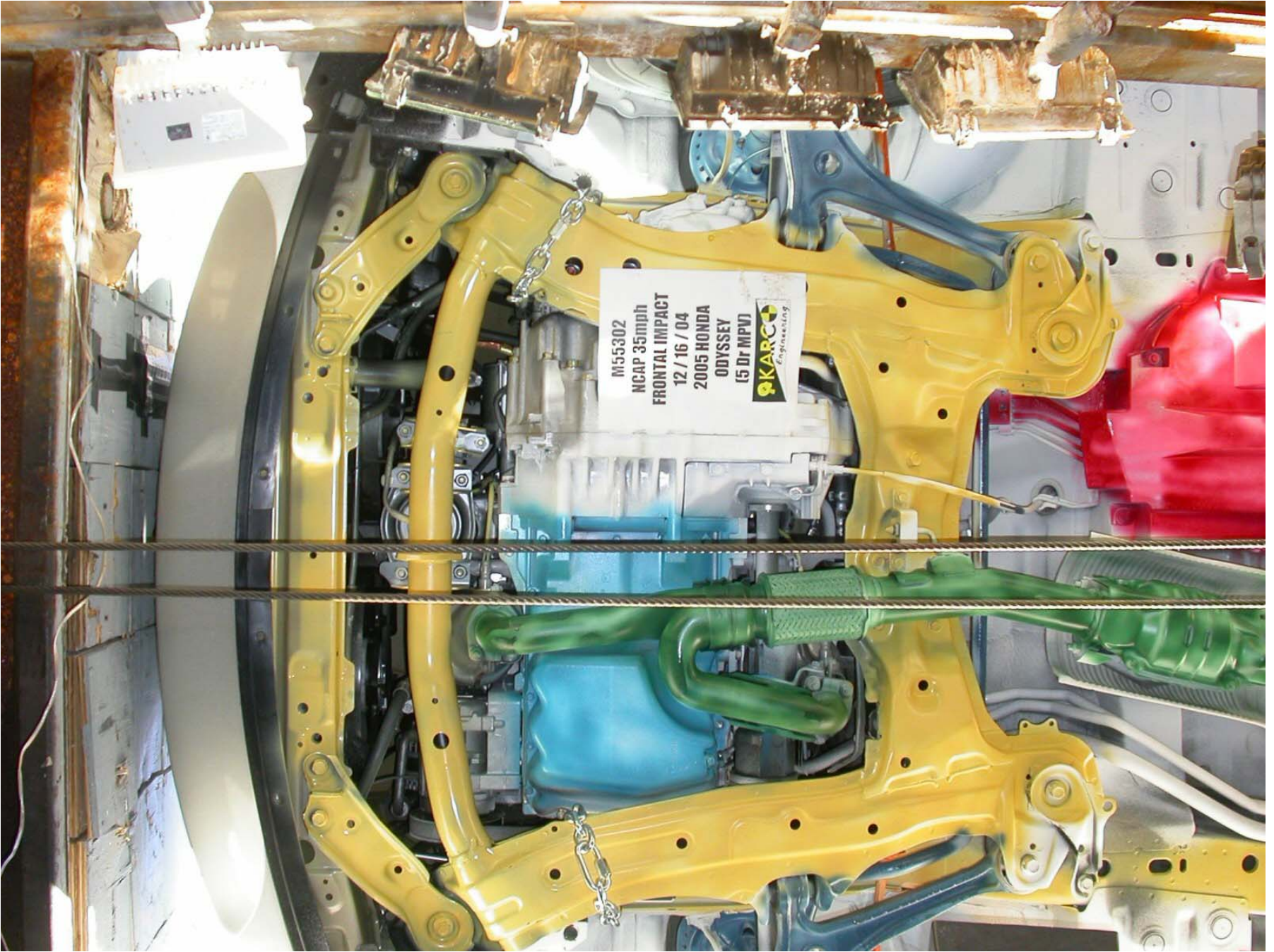


Figure A-24: Pre-Test Front Underbody

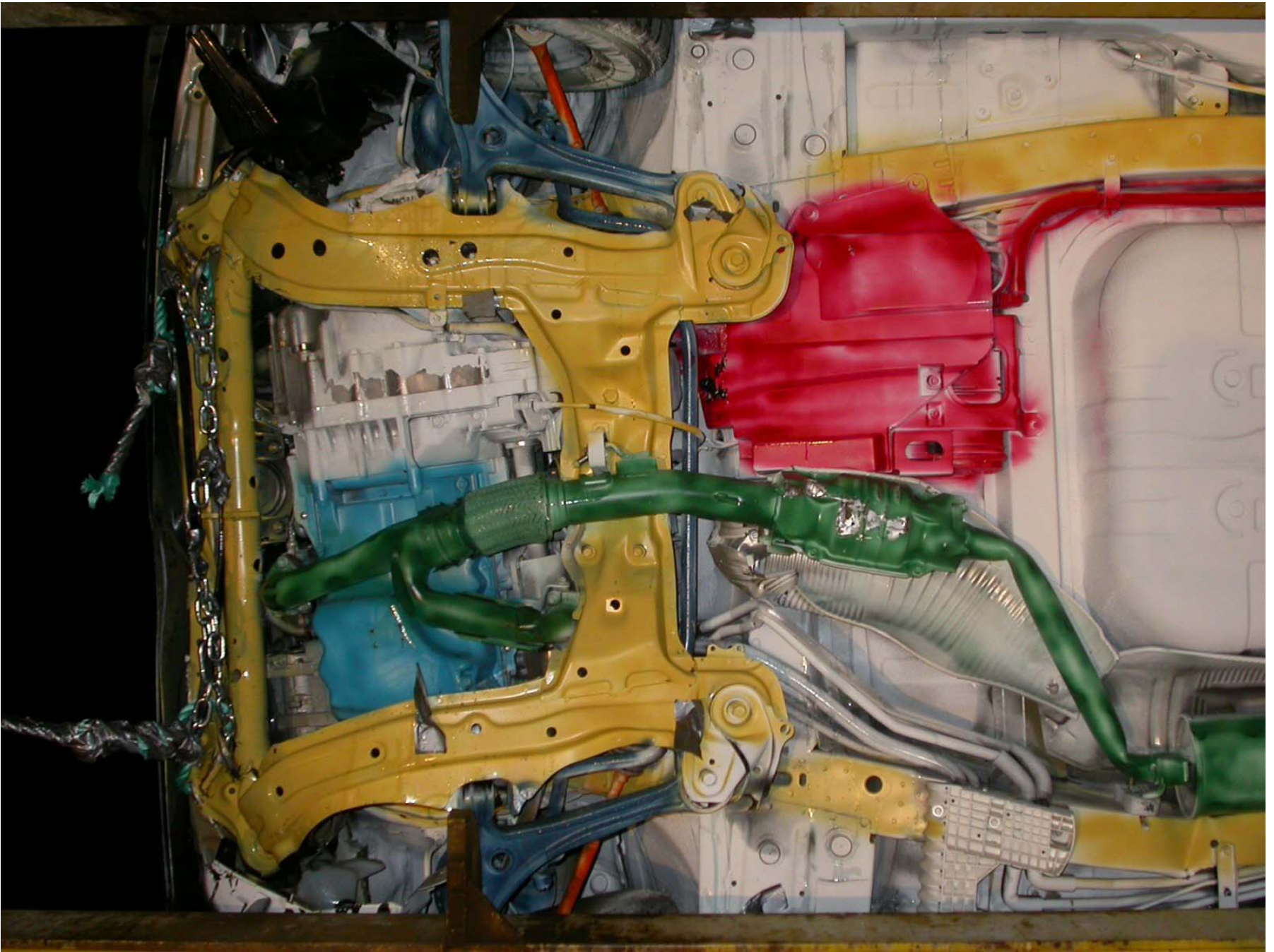


Figure A-2: Post-Test Front Underbody

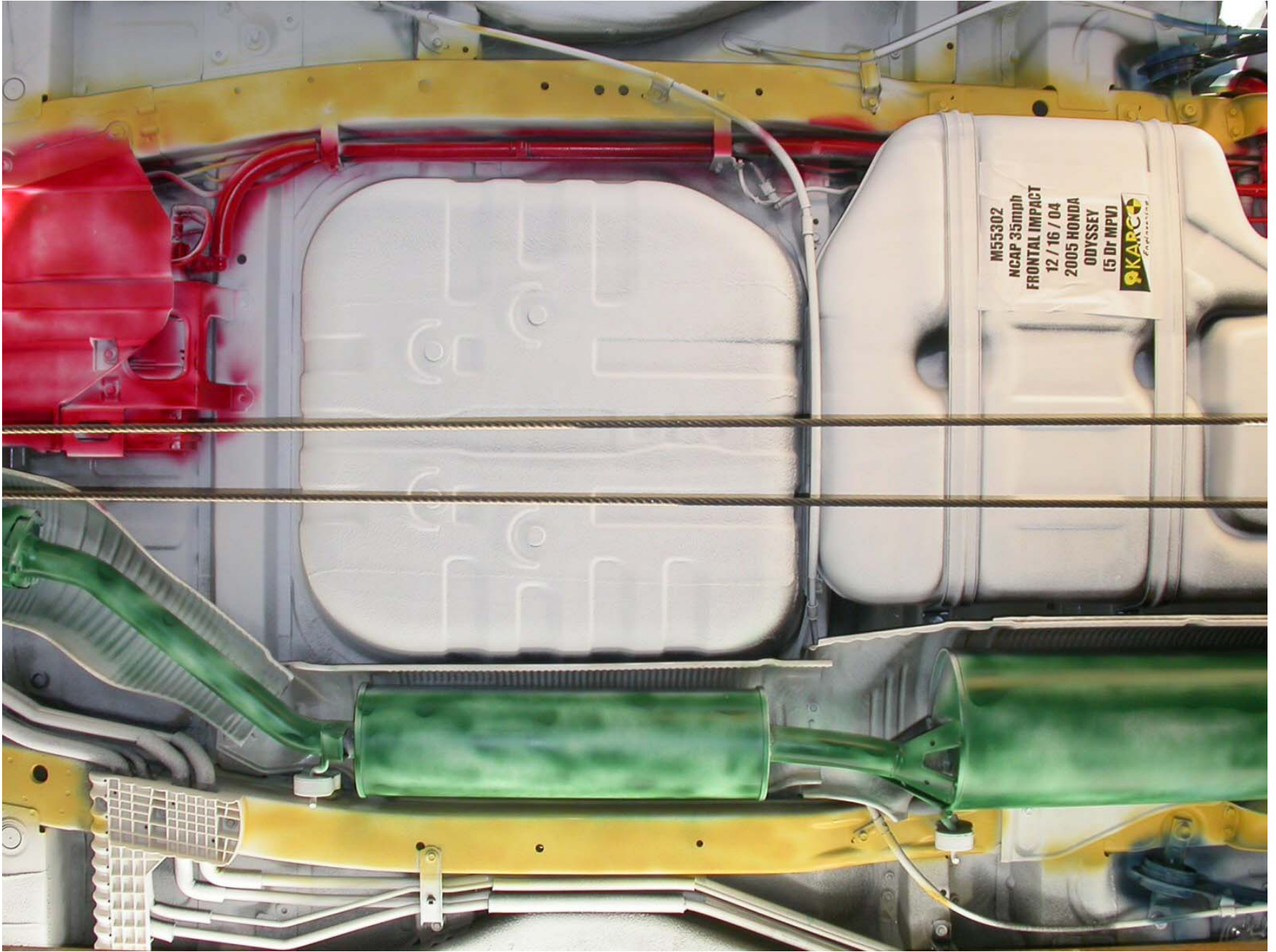


Figure A-26: Pre-Test Mid Underbody

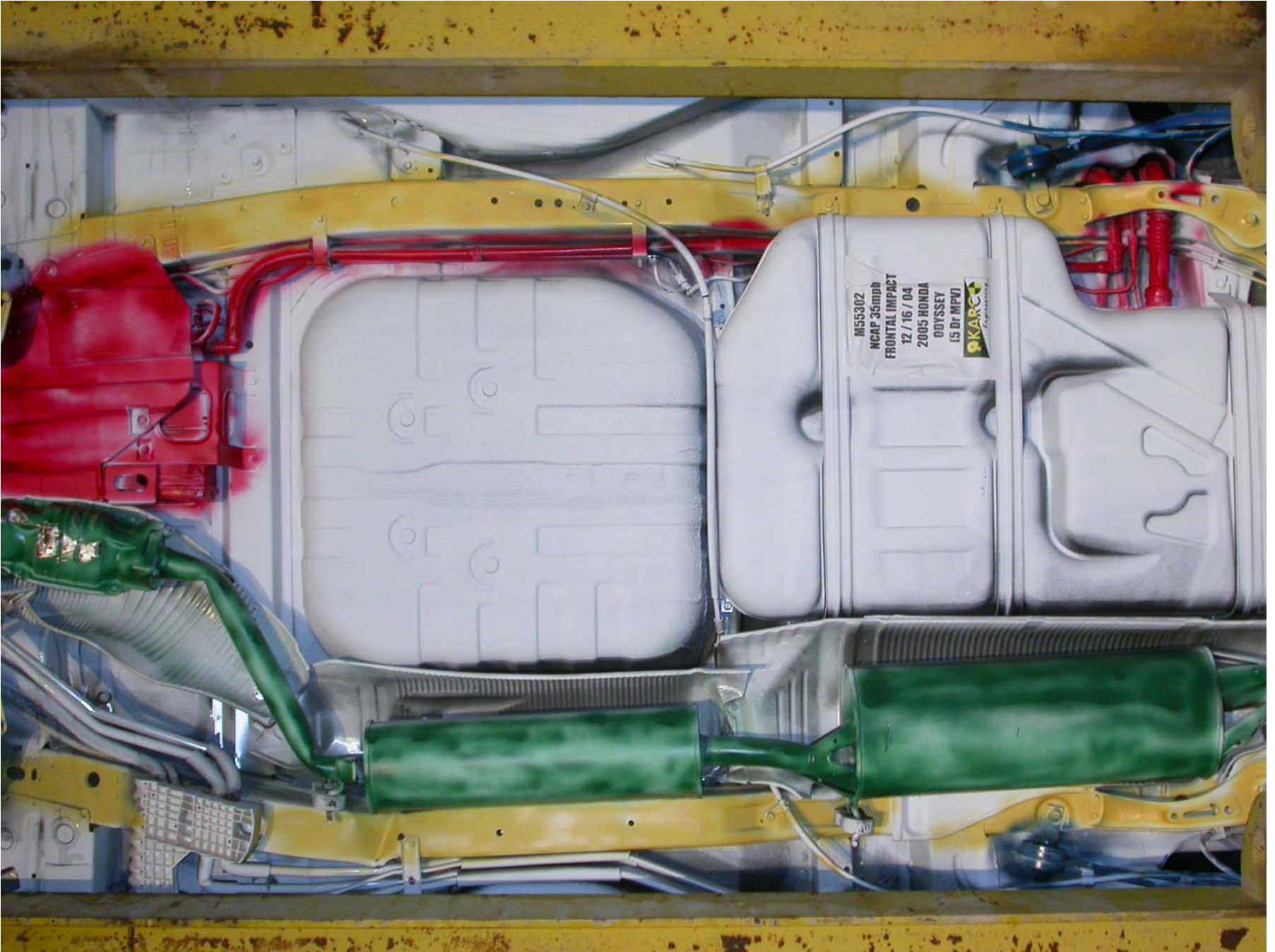


Figure A-27: Post-Test Mid Underbody

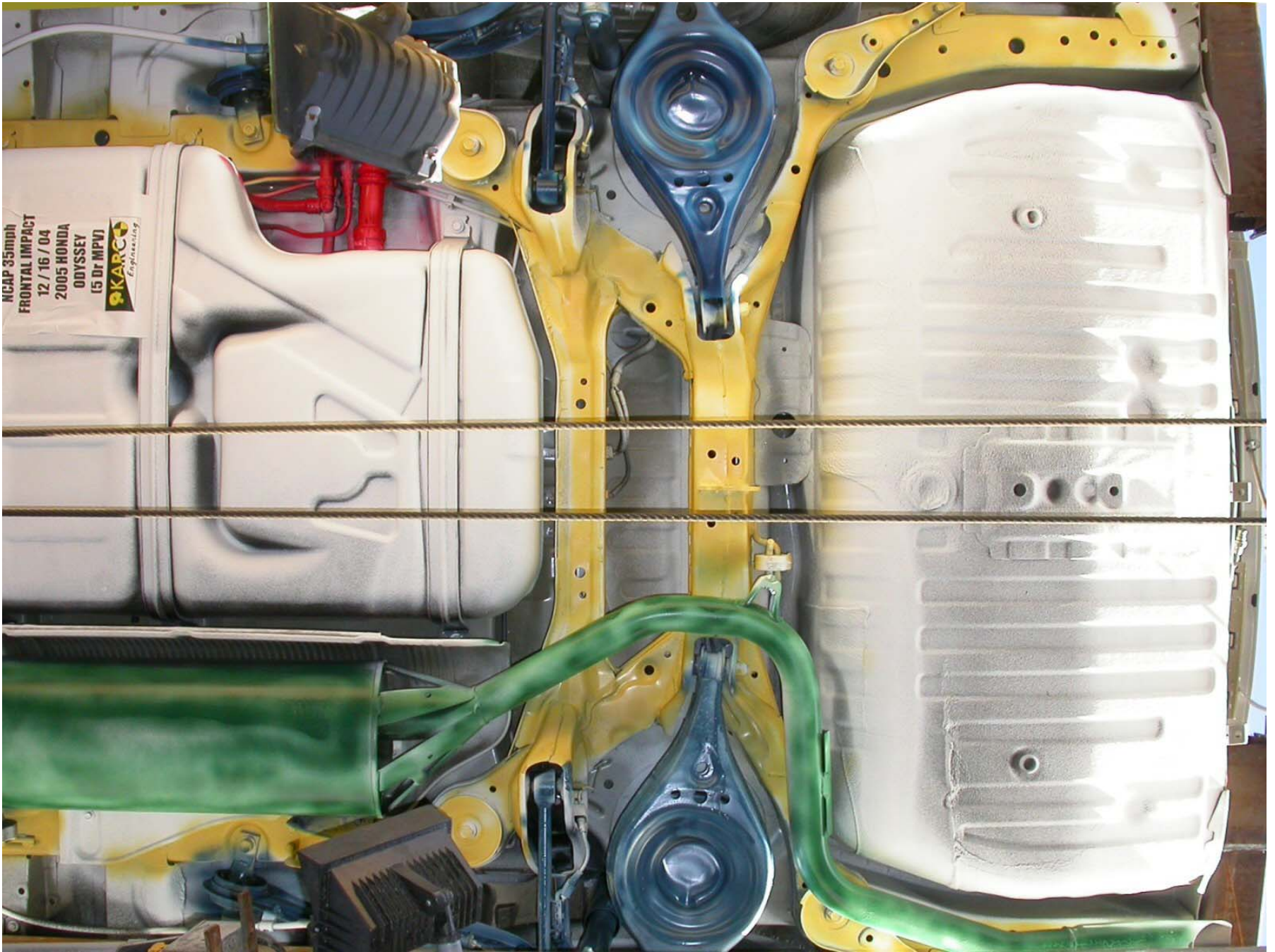


Figure A-28: Pre-Test Rear Underbody

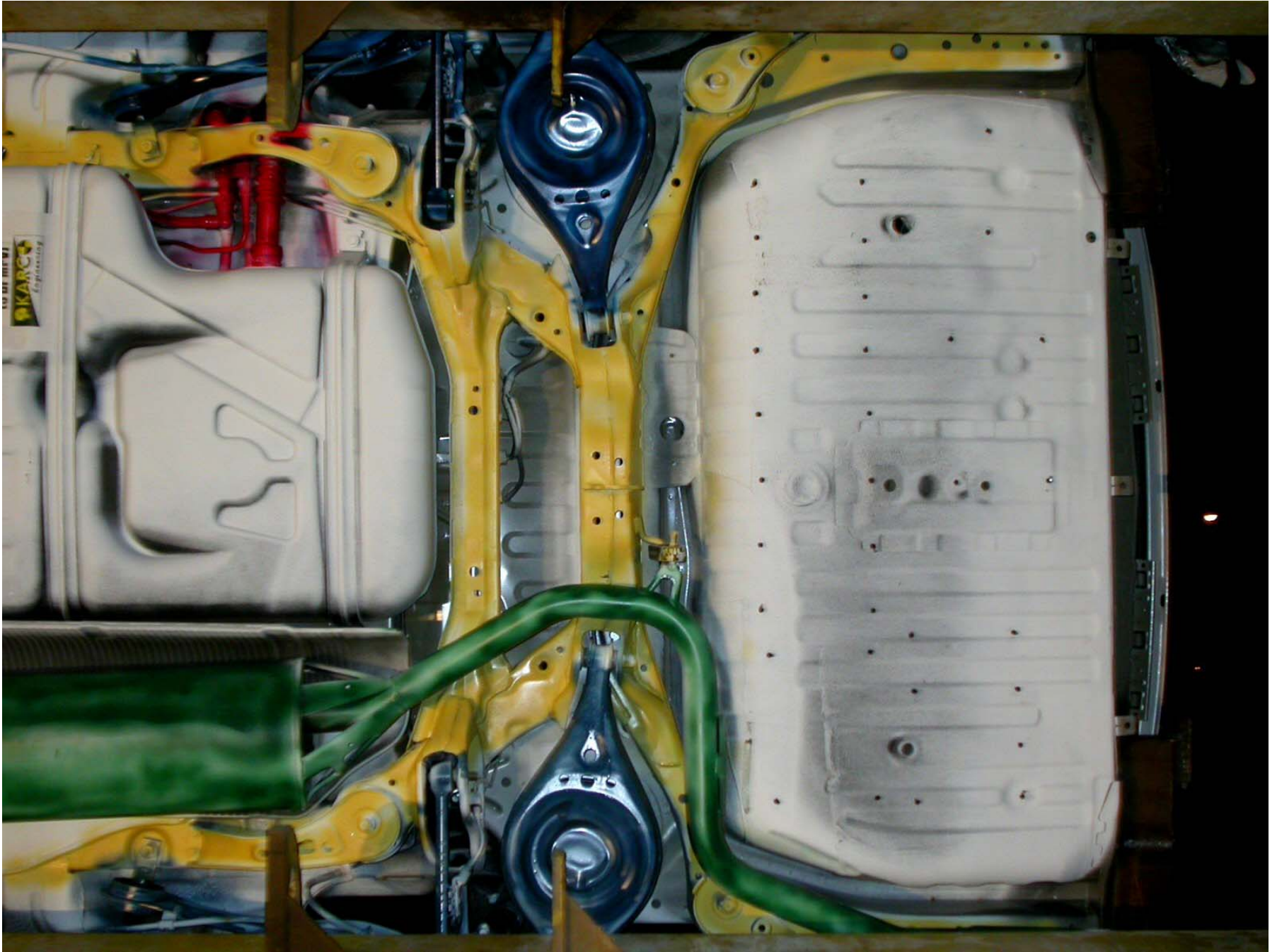


Figure A-29: Post-Test Rear Underbody



Figure A-30: Pre-Test Driver Dummy Front View (Head Position)



Figure A-31: Post-Test Driver Dummy Front View (Head Position)



Figure A-32: Pre-Test Driver Dummy (Through Window)



Figure A-33: Post-Test Driver Dummy (Through Window)



Figure A-34: Pre-Test Driver Dummy (Door Open)



Figure A-35: Post-Test Driver Dummy (Door Open)

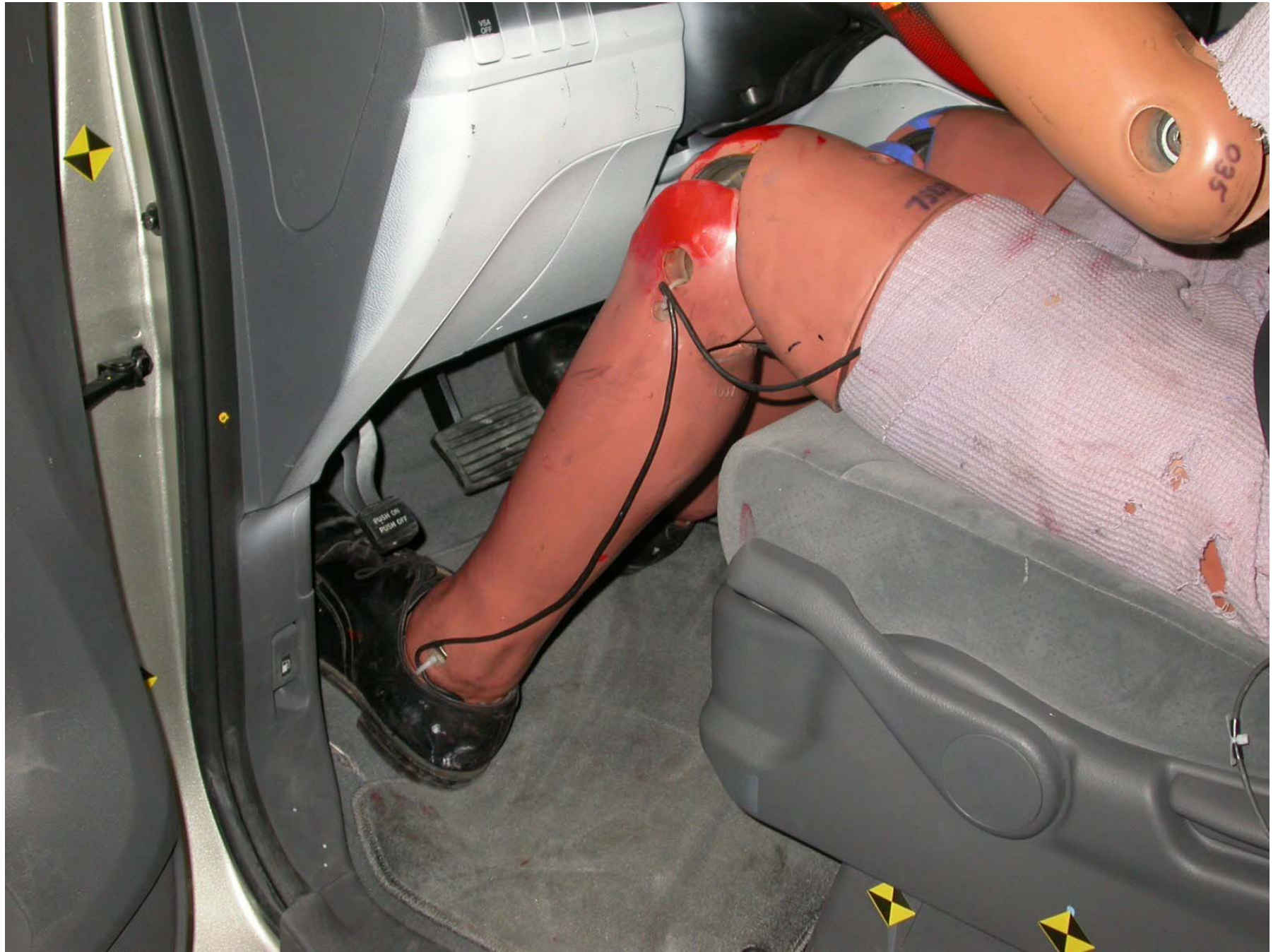


Figure A-36: Pre-Test Driver Dummy Feet



Figure A-37: Post-Test Driver Dummy Feet



Figure A-38: Pre-Test Driver Side Knee Bolster



Figure A-39: Post-Test Driver Side Knee Bolster



Figure A-40: Pre-Test Driver Side Floor Pan



Figure A-41: Post-Test Driver Side Floor Pan



Figure A-42: Post-Test Driver Dummy Head



Figure A-43: Post-Test Driver Dummy Airbag Contact



Figure A-44: Pre-Test Passenger Dummy Front View (Head Position)



Figure A-45: Post-Test Passenger Dummy Front View (Head Position)



Figure A-46: Pre-Test Passenger Dummy (Through Window)



Figure A-47: Post-Test Passenger Dummy (Through Window)



Figure A-48: Pre-Test Passenger Dummy (Door Open)



Figure A-49: Post-Test Passenger Dummy (Door Open)



Figure A-50: Pre-Test Passenger Dummy Feet



Figure A-51: Post-Test Passenger Dummy Feet



Figure A-52: Pre-Test Passenger Side Glove Box



Figure A-53: Post-Test Passenger Side Glove Box



Figure A-54: Pre-Test Passenger Side Floor Pan



Figure A-55: Post-Test Passenger Side Floor Pan



Figure A-56: Post-Test Passenger Dummy Head



Figure A-57: Post-Test Passenger Dummy Airbag Contact



Figure A-58: Vehicle on Rollover Device (0°)

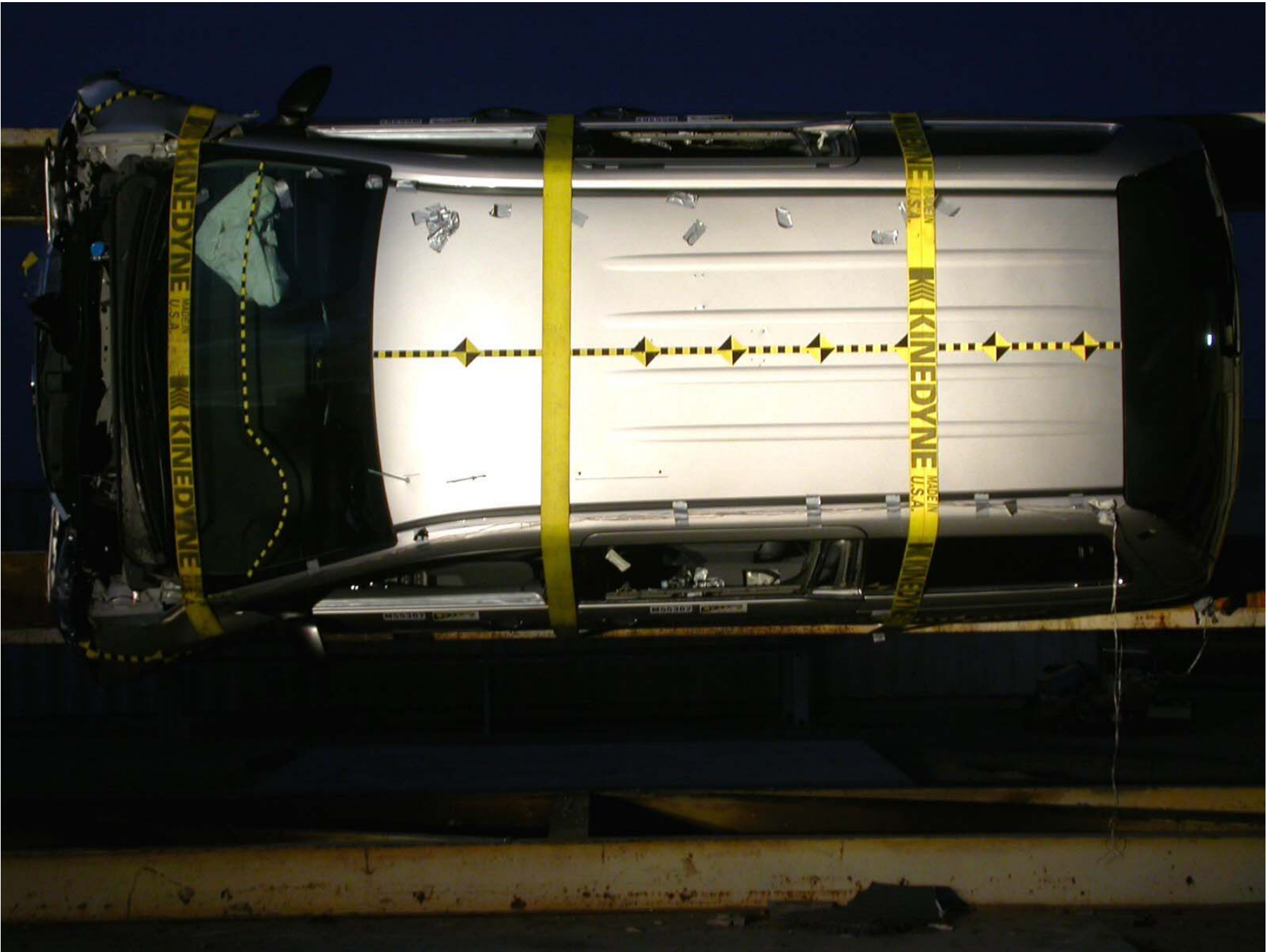


Figure A-59: Vehicle on Rollover Device (90°)

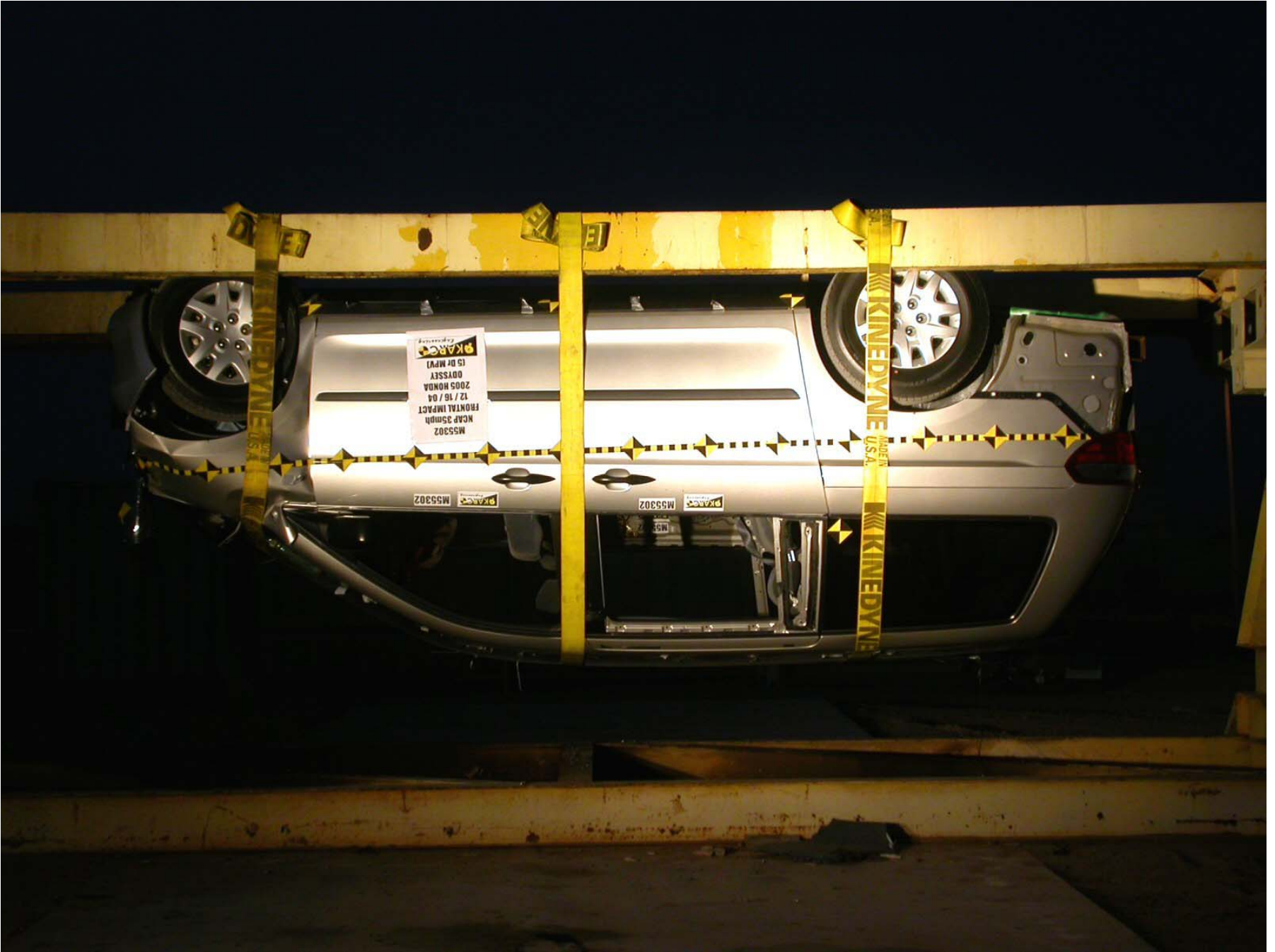


Figure A-60: Vehicle on Rollover Device (180°)



Figure A-61: Vehicle on Rollover Device (270°)



Figure A-62: Vehicle Impact

APPENDIX B

DATA PLOTS

LIST OF DATA PLOTS

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	Driver Right Upper Tibia Moment Y	B-15
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	Driver Left Lower Tibia Moment Y	B-16
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17	Driver Right Lower Tibia Moment X	B-17
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LIST OF DATA PLOTS...(CONTINUED)

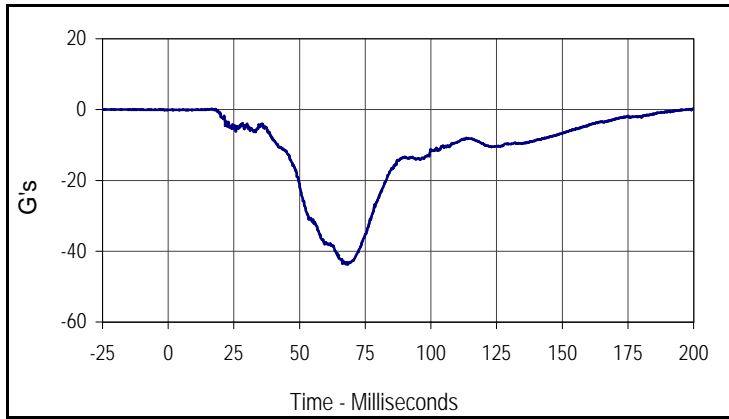
Data Plot	Page	
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	Passenger Left Upper Tibia Moment Y	B-35
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LIST OF DATA PLOTS...(CONTINUED)

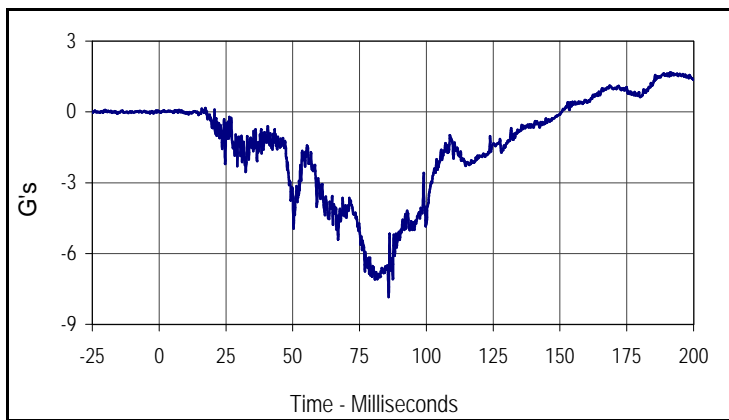
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45	Vehicle Left Brake Caliper X	B-45
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	Vehicle Left Rear Z Displacement	B-48
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	Vehicle Right Rear Z Displacement	B-49

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

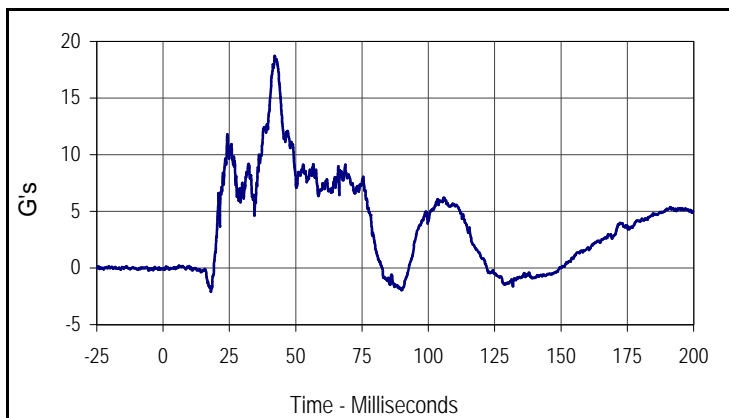
Test Date: 12/16/04
 NHTSA No.: M55302



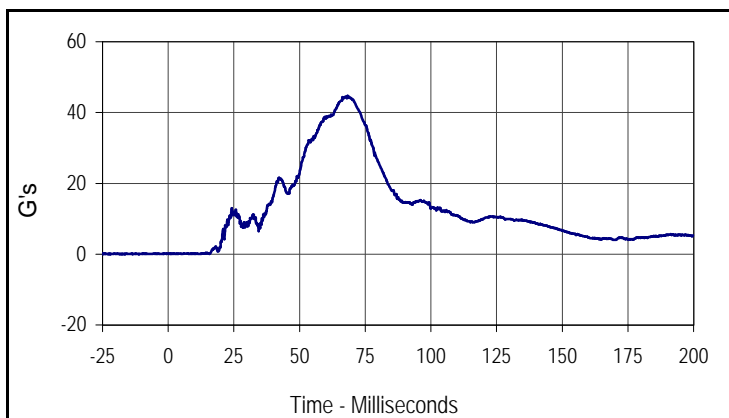
Curve Description			
Driver Head Primary X			
CURNO	Type	SAE Class	Units
001	FIL	1000	G's
Max	Time	Min	Time
0.2	200.0	-43.7	68.2



Curve Description			
Driver Head Primary Y			
CURNO	Type	SAE Class	Units
002	FIL	1000	G's
Max	Time	Min	Time
1.7	191.2	-7.9	85.9



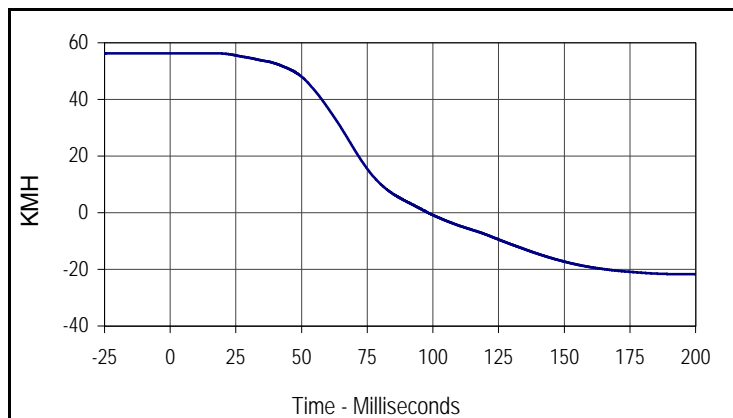
Curve Description			
Driver Head Primary Z			
CURNO	Type	SAE Class	Units
003	FIL	1000	G's
Max	Time	Min	Time
18.7	42.1	-2.1	18.1



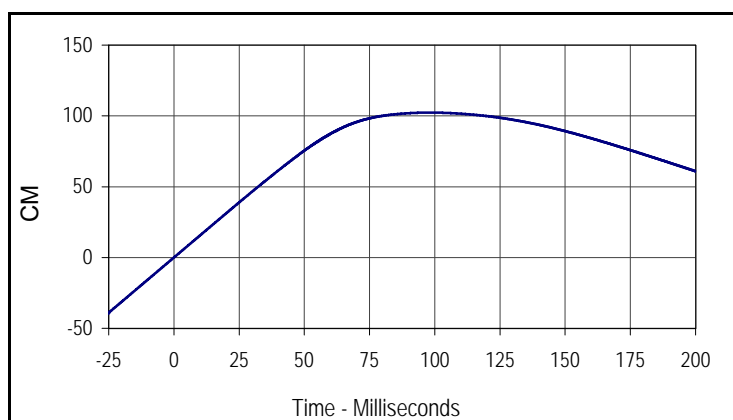
Curve Description			
Driver Head Resultant Primary			
CURNO	Type	SAE Class	Units
001	RES	1000	G's
Max	Time	Min	Time
44.7	68.3	0.0	1.5

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04
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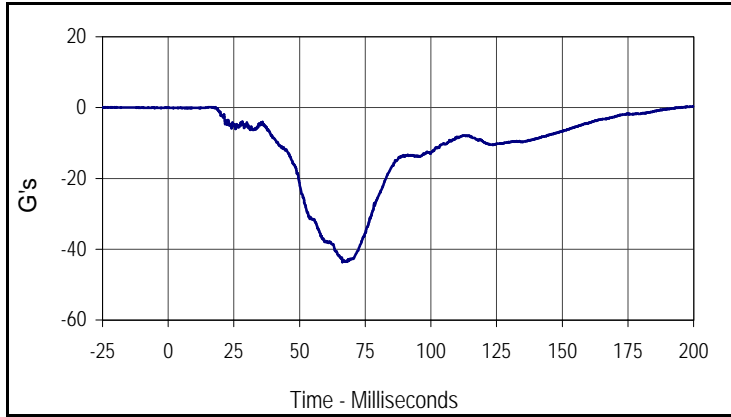
Curve Description			
Driver Head Primary X Velocity			
CURNO	Type	SAE Class	Units
001	IN1	180	KMH
Max	Time	Min	Time
56.3	0.0	-21.7	197.4



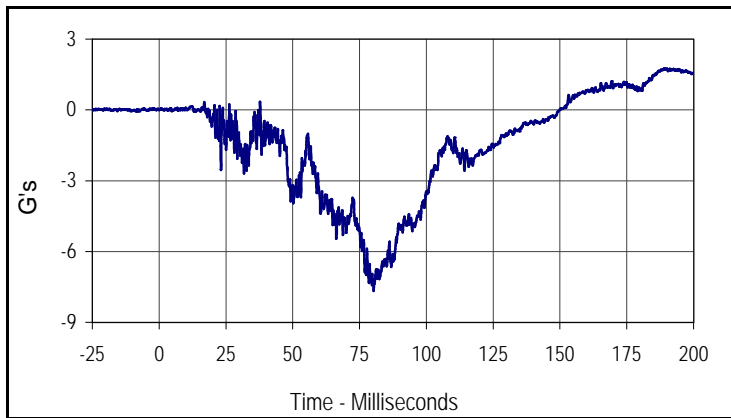
Curve Description			
Driver Head Primary X Displacement			
CURNO	Type	SAE Class	Units
001	IN2	180	CM
Max	Time	Min	Time
102.3	98.1	0.0	0.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

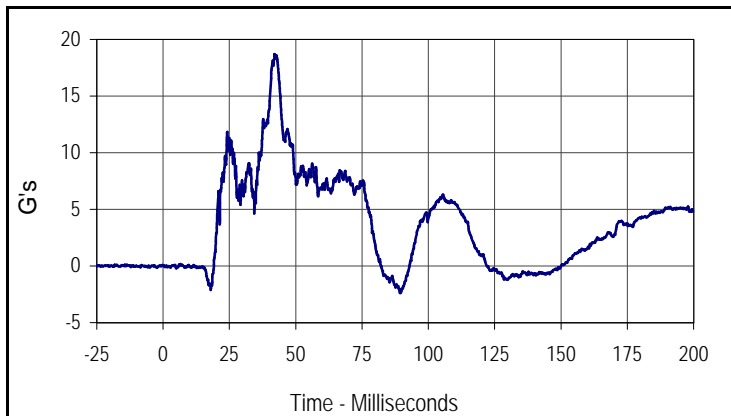
Test Date: 12/16/04
 NHTSA No.: M55302



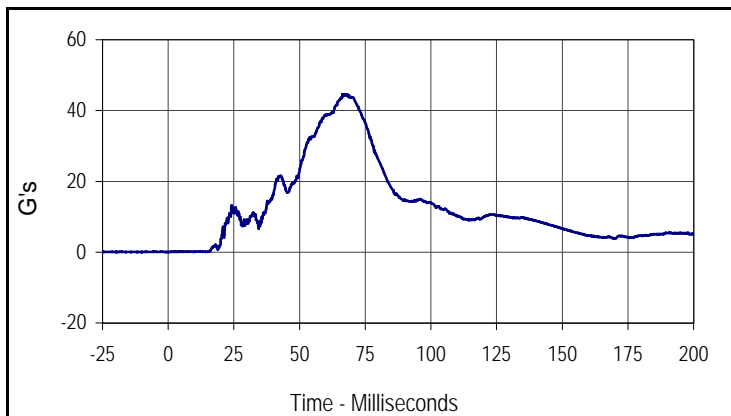
Curve Description			
Driver Head Redundant X			
CURNO	Type	SAE Class	Units
004	FIL	1000	G's
Max	Time	Min	Time
0.4	200.0	-43.7	66.4



Curve Description			
Driver Head Redundant Y			
CURNO	Type	SAE Class	Units
005	FIL	1000	G's
Max	Time	Min	Time
1.8	190.1	-7.7	80.3



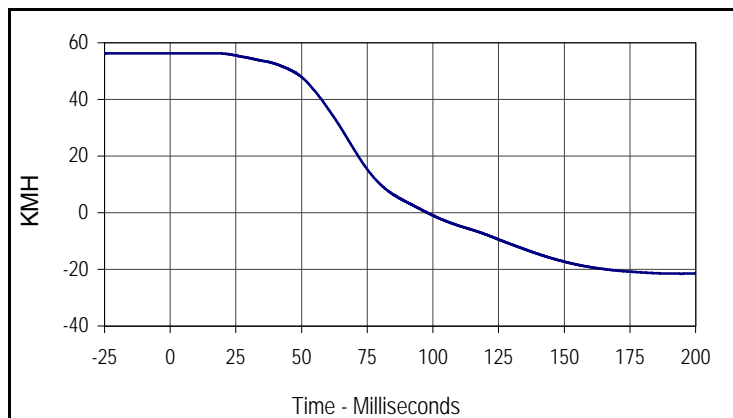
Curve Description			
Driver Head Redundant Z			
CURNO	Type	SAE Class	Units
006	FIL	1000	G's
Max	Time	Min	Time
18.7	42.0	-2.4	89.4



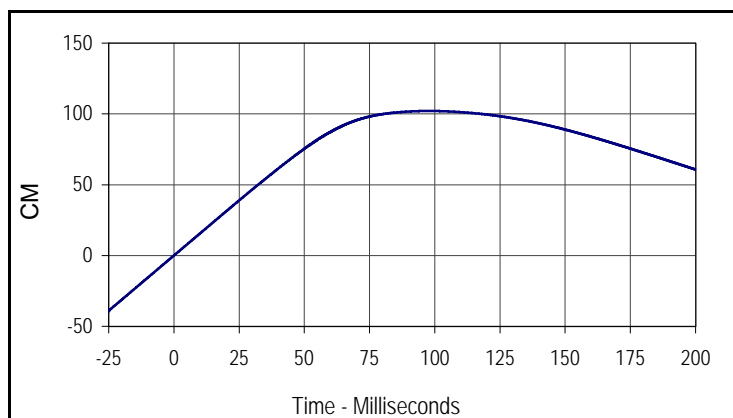
Curve Description			
Driver Head Resultant Redundant			
CURNO	Type	SAE Class	Units
004	RES	1000	G's
Max	Time	Min	Time
44.6	66.4	0.0	0.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04
 NHTSA No.: M55302



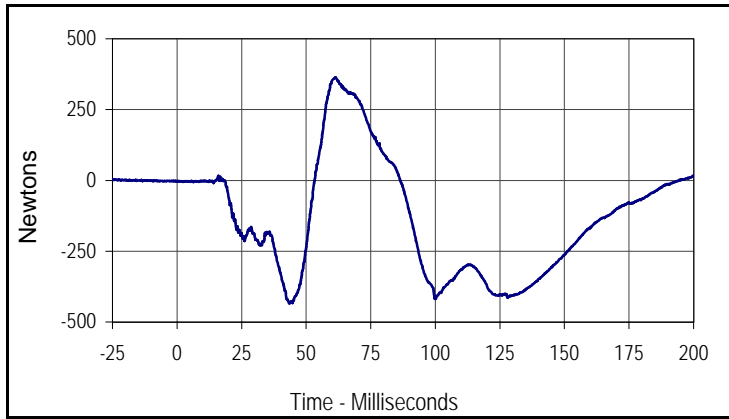
Curve Description			
Driver Head Redundant X Velocity			
CURNO	Type	SAE Class	Units
004	IN1	180	KMH
Max	Time	Min	Time
56.3	0.0	-21.5	194.7



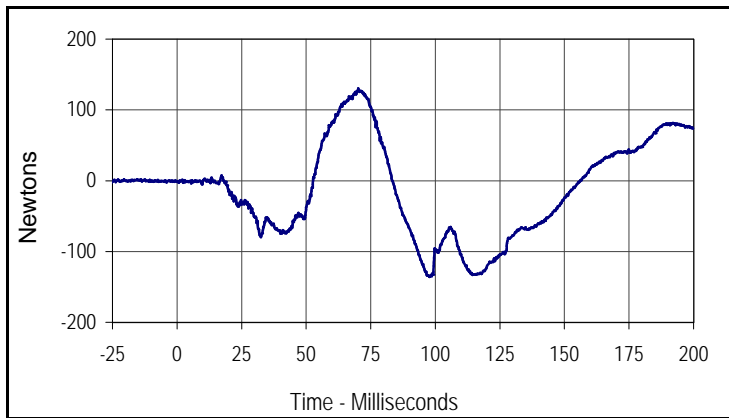
Curve Description			
Driver Head Redundant X Displacement			
CURNO	Type	SAE Class	Units
004	IN2	180	CM
Max	Time	Min	Time
102.1	97.8	0.0	0.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

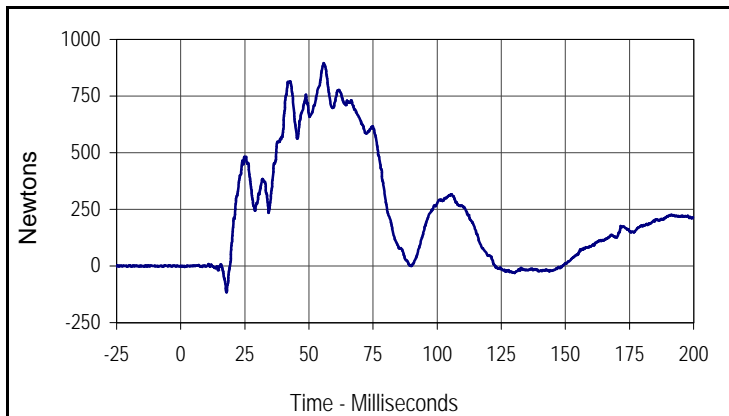
Test Date: 12/16/04
 NHTSA No.: M55302



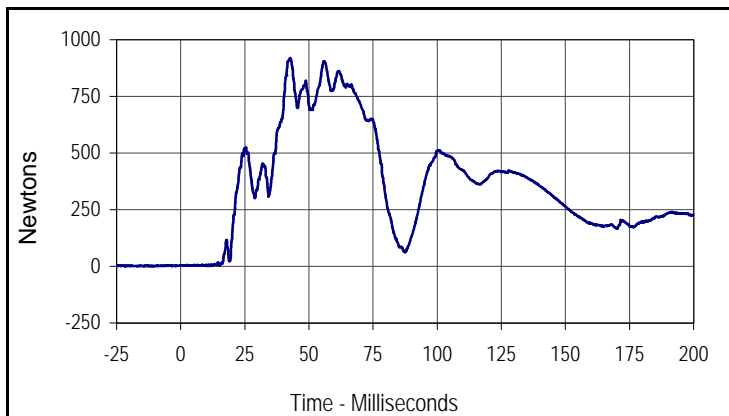
Curve Description			
Driver Upper Neck Force X			
CURNO	Type	SAE Class	Units
007	FIL	1000	Newtons
Max	Time	Min	Time
364.2	61.4	-435.2	43.5



Curve Description			
Driver Upper Neck Force Y			
CURNO	Type	SAE Class	Units
008	FIL	1000	Newtons
Max	Time	Min	Time
130.4	70.2	-136.0	97.8



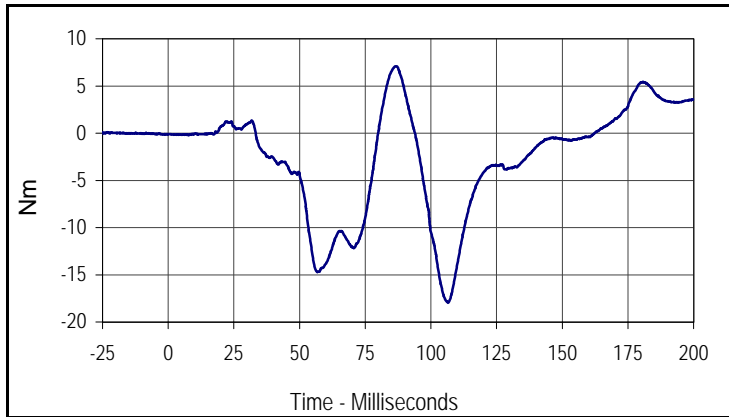
Curve Description			
Driver Upper Neck Force Z			
CURNO	Type	SAE Class	Units
009	FIL	1000	Newtons
Max	Time	Min	Time
895.4	55.8	-116.3	17.8



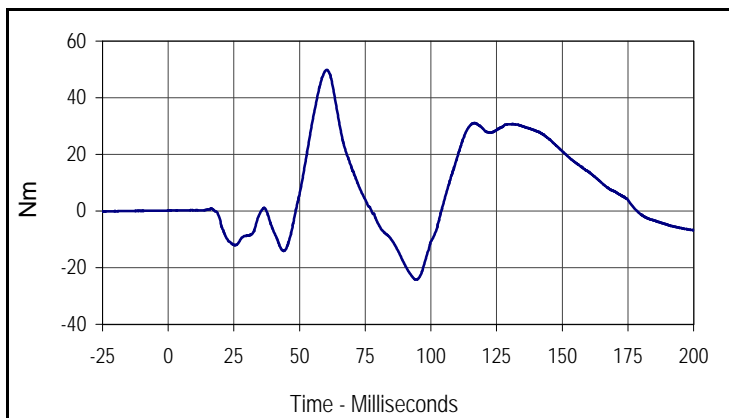
Curve Description			
Driver Upper Neck Force Res.			
CURNO	Type	SAE Class	Units
007	RES	1000	Newtons
Max	Time	Min	Time
919.9	42.6	2.0	10.3

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

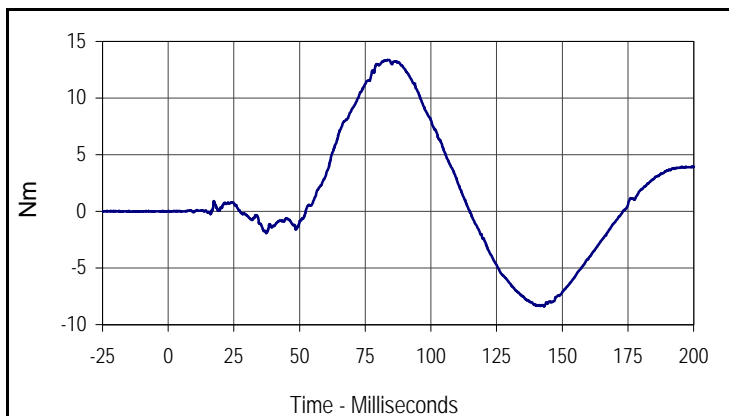
Test Date: 12/16/04
 NHTSA No.: M55302



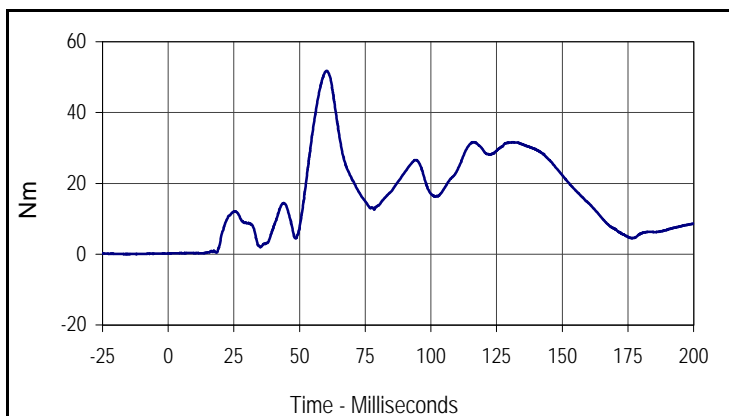
Curve Description			
Driver Upper Neck Moment X			
CURNO	Type	SAE Class	Units
010	FIL	600	Nm
Max	Time	Min	Time
7.1	87.0	-18.0	106.5



Curve Description			
Driver Upper Neck Moment Y			
CURNO	Type	SAE Class	Units
011	FIL	600	Nm
Max	Time	Min	Time
49.9	60.3	-24.2	94.5



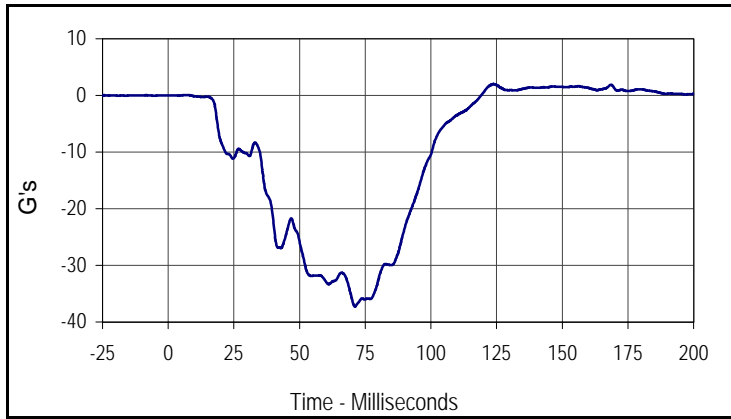
Curve Description			
Driver Upper Neck Moment Z			
CURNO	Type	SAE Class	Units
012	FIL	600	Nm
Max	Time	Min	Time
13.4	83.7	-8.4	143.1



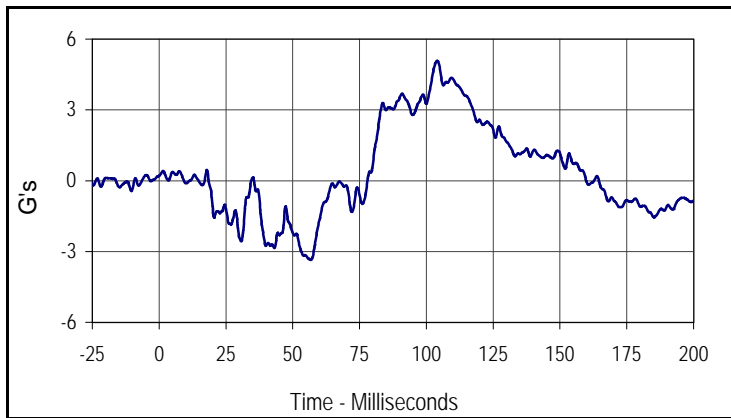
Curve Description			
Driver Upper Neck Moment Res.			
CURNO	Type	SAE Class	Units
010	RES	600	Nm
Max	Time	Min	Time
51.8	60.3	0.2	0.9

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

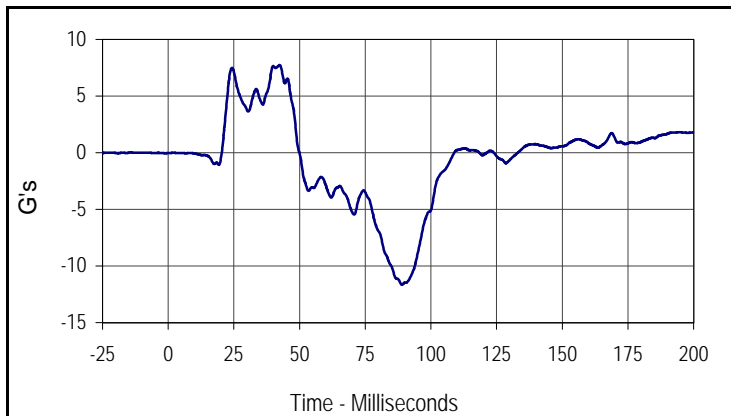
Test Date: 12/16/04
 NHTSA No.: M55302



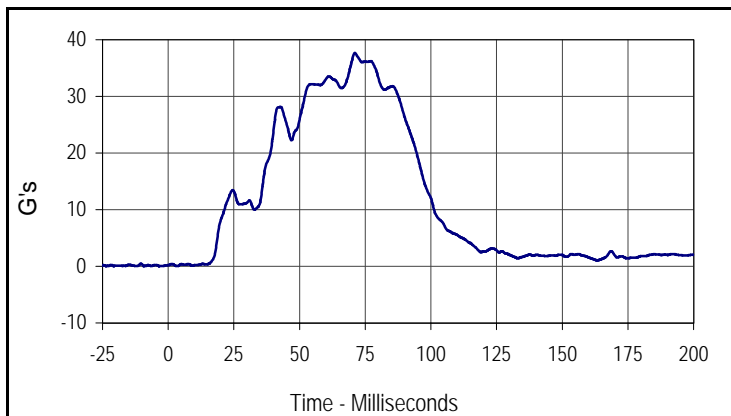
Curve Description			
Driver Chest Primary X			
CURNO	Type	SAE Class	Units
013	FIL	180	G's
Max	Time	Min	Time
2.0	123.8	-37.3	71.1



Curve Description			
Driver Chest Primary Y			
CURNO	Type	SAE Class	Units
014	FIL	180	G's
Max	Time	Min	Time
5.1	104.0	-3.4	56.8



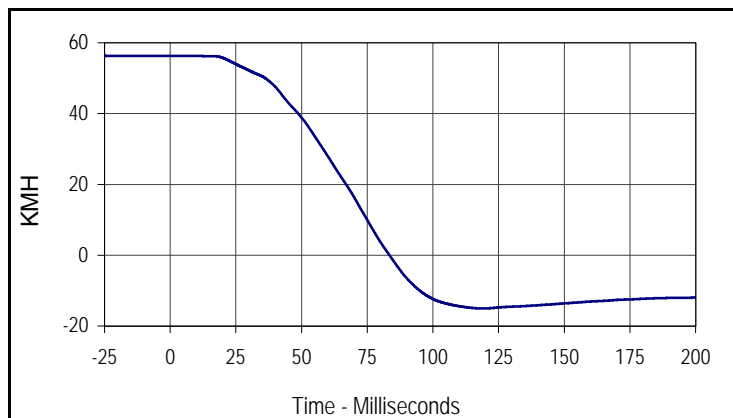
Curve Description			
Driver Chest Primary Z			
CURNO	Type	SAE Class	Units
015	FIL	180	G's
Max	Time	Min	Time
7.7	42.4	-11.7	88.9



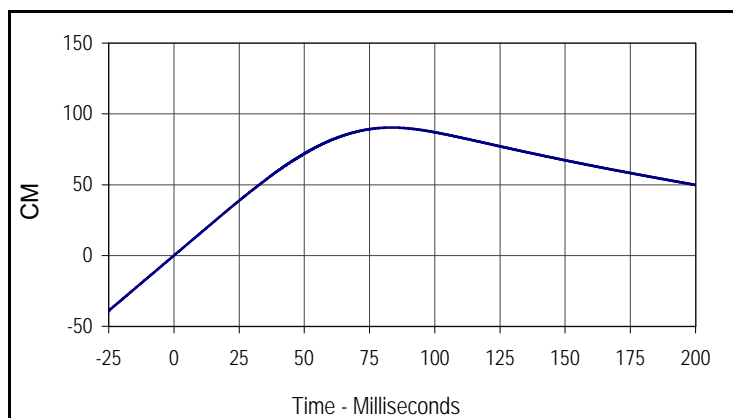
Curve Description			
Driver Chest Resultant Primary			
CURNO	Type	SAE Class	Units
013	RES	180	G's
Max	Time	Min	Time
37.7	71.1	0.0	3.4

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04
 NHTSA No.: M55302



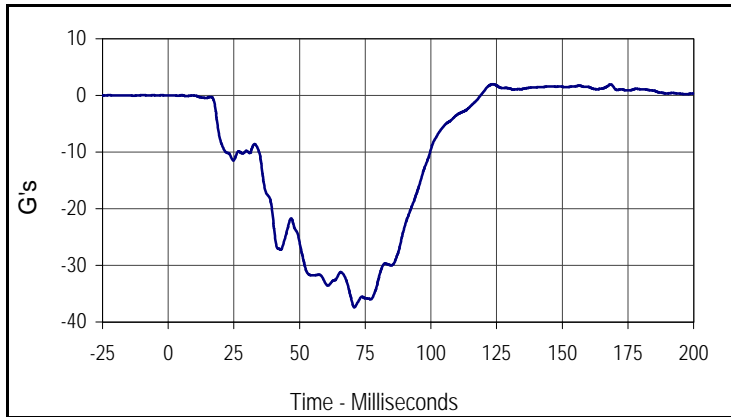
Curve Description			
Driver Chest Primary X Velocity			
CURNO	Type	SAE Class	Units
013	IN1	180	KMH
Max	Time	Min	Time
56.3	8.5	-15.1	119.1



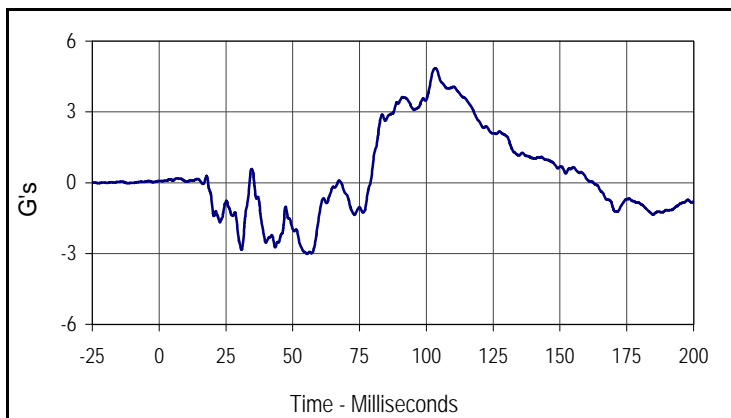
Curve Description			
Driver Chest Primary X Displacement			
CURNO	Type	SAE Class	Units
013	IN2	180	CM
Max	Time	Min	Time
90.4	83.5	0.0	0.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

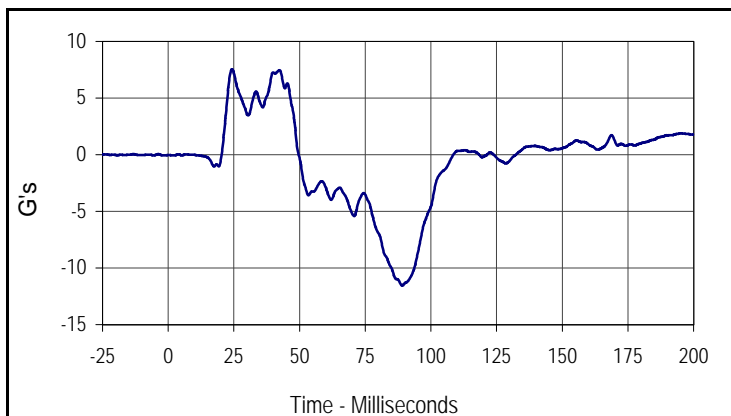
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 NHTSA No.: M55302



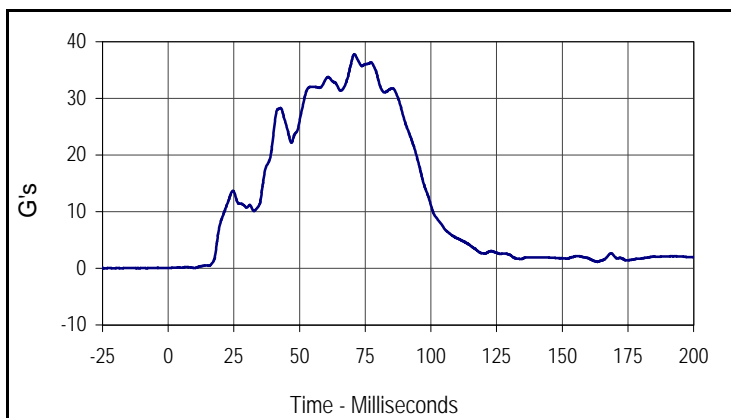
Curve Description			
Driver Chest Redundant X			
CURNO	Type	SAE Class	Units
016	FIL	180	G's
Max	Time	Min	Time
2.0	123.5	-37.4	70.9



Curve Description			
Driver Chest Redundant Y			
CURNO	Type	SAE Class	Units
017	FIL	180	G's
Max	Time	Min	Time
4.8	103.4	-3.0	55.3



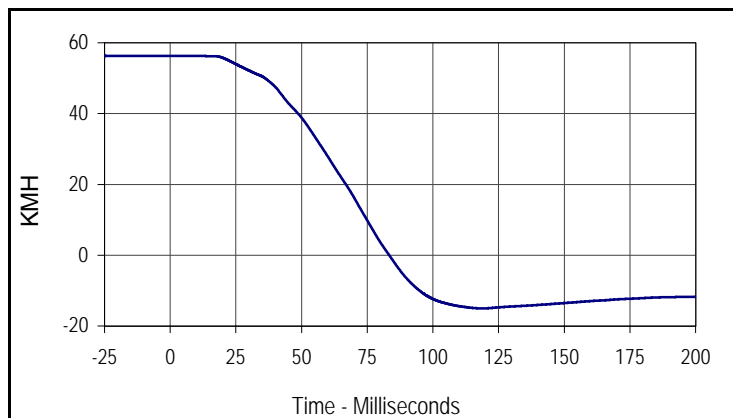
Curve Description			
Driver Chest Redundant Z			
CURNO	Type	SAE Class	Units
018	FIL	180	G's
Max	Time	Min	Time
7.5	24.3	-11.5	89.0



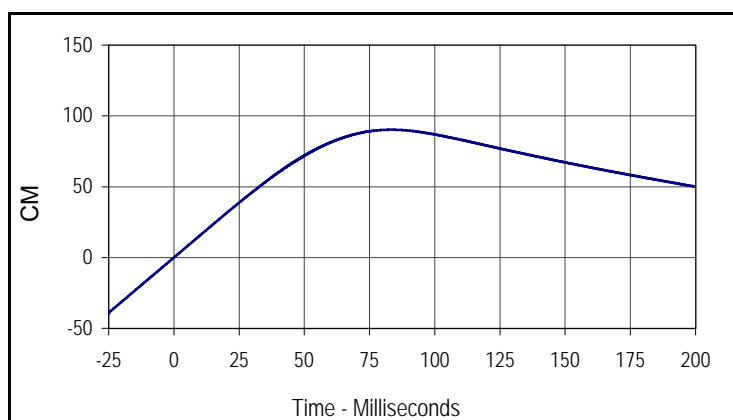
Curve Description			
Driver Chest Resultant Redundant			
CURNO	Type	SAE Class	Units
016	RES	180	G's
Max	Time	Min	Time
37.8	70.9	0.1	10.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04
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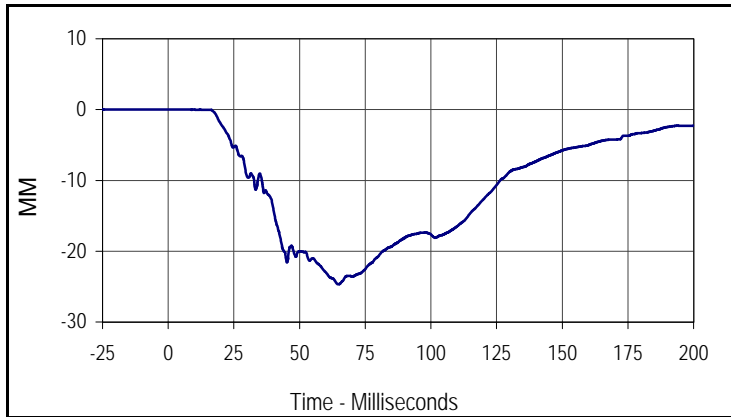
Curve Description			
Driver Chest Redundant X Velocity			
CURNO	Type	SAE Class	Units
016	IN1	180	KMH
Max	Time	Min	Time
56.3	0.0	-15.0	118.9



Curve Description			
Driver Chest Redundant X Displacement			
CURNO	Type	SAE Class	Units
016	IN2	180	CM
Max	Time	Min	Time
90.3	83.4	0.0	0.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

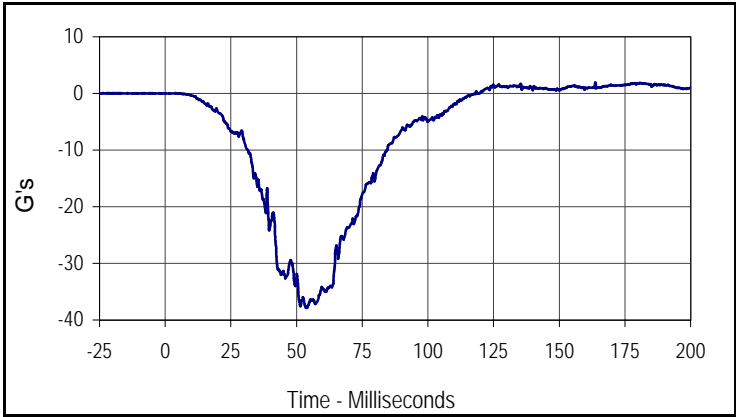
Test Date: 12/16/04
 NHTSA No.: M55302



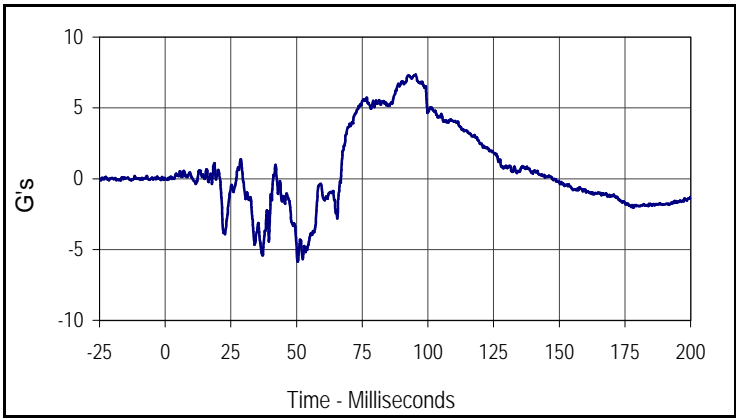
Curve Description			
Driver Chest Deflection			
CURNO	Type	SAE Class	Units
019	FIL	600	MM
Max	Time	Min	Time
0.0	5.6	-24.7	64.7

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

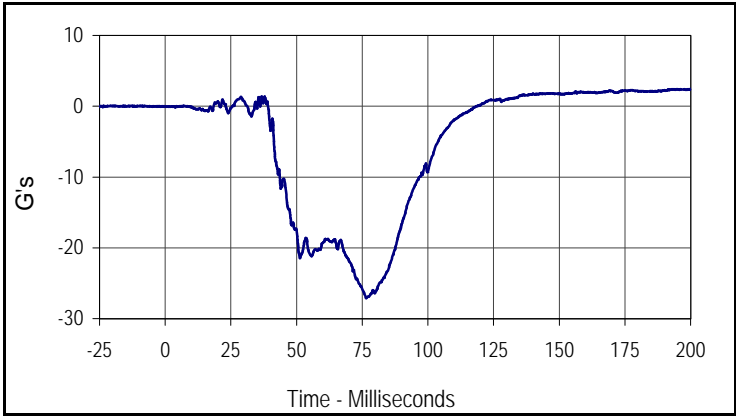
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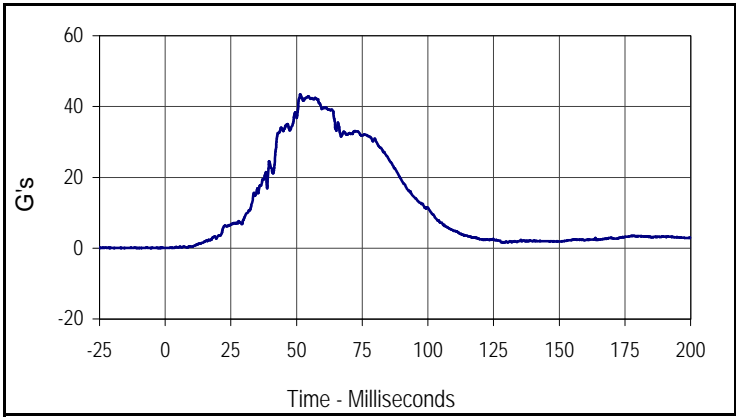
Curve Description			
Driver Pelvis X			
CURNO	Type	SAE Class	Units
020	FIL	1000	G's
Max	Time	Min	Time
1.9	163.7	-37.9	53.7



Curve Description			
Driver Pelvis Y			
CURNO	Type	SAE Class	Units
021	FIL	1000	G's
Max	Time	Min	Time
7.3	95.3	-5.9	50.4



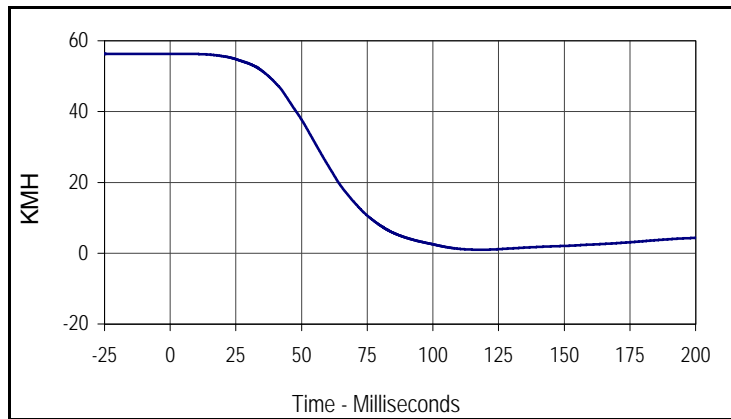
Curve Description			
Driver Pelvis Z			
CURNO	Type	SAE Class	Units
022	FIL	1000	G's
Max	Time	Min	Time
2.4	200.0	-27.1	76.6



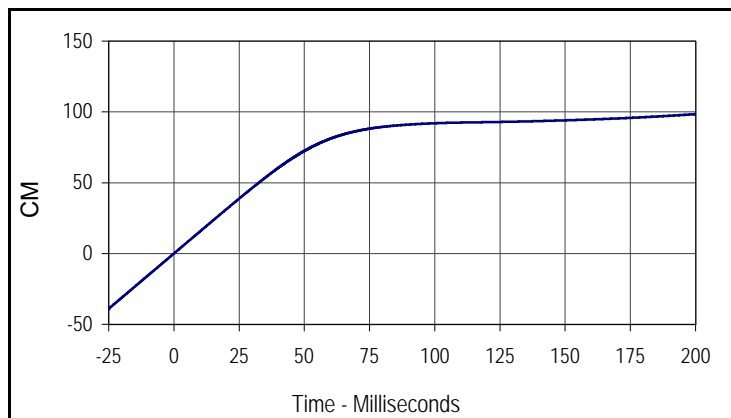
Curve Description			
Driver Pelvis Resultant			
CURNO	Type	SAE Class	Units
020	RES	1000	G's
Max	Time	Min	Time
43.4	51.4	0.0	3.5

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

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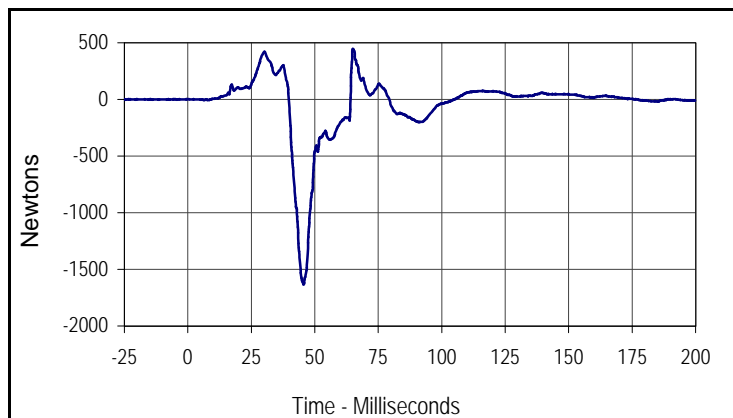
Curve Description			
Driver Pelvis X Velocity			
CURNO	Type	SAE Class	Units
020	IN1	180	KMH
Max	Time	Min	Time
56.3	0.0	1.0	118.0



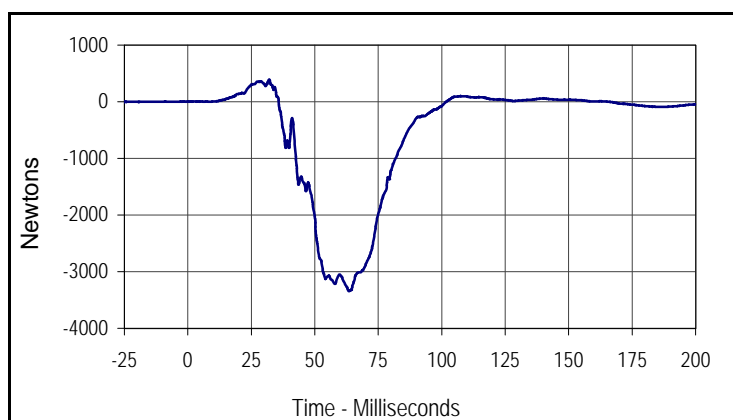
Curve Description			
Driver Pelvis X Displacement			
CURNO	Type	SAE Class	Units
020	IN2	180	CM
Max	Time	Min	Time
98.4	200.0	0.0	0.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04
 NHTSA No.: M55302



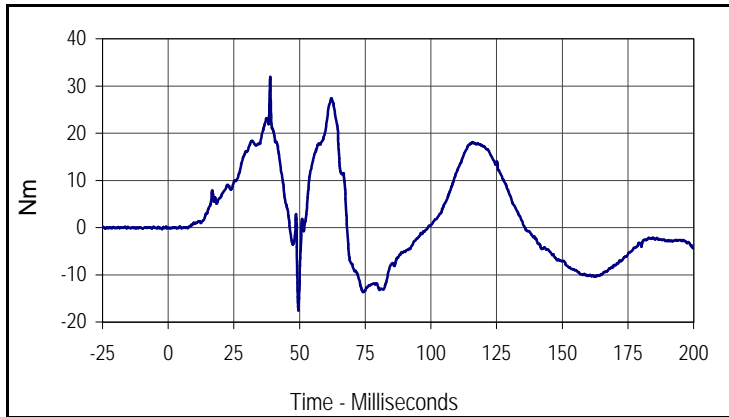
Curve Description			
Driver Left Femur Force			
CURNO	Type	SAE Class	Units
023	FIL	600	Newtons
Max	Time	Min	Time
446.3	65.0	-1633.1	45.6



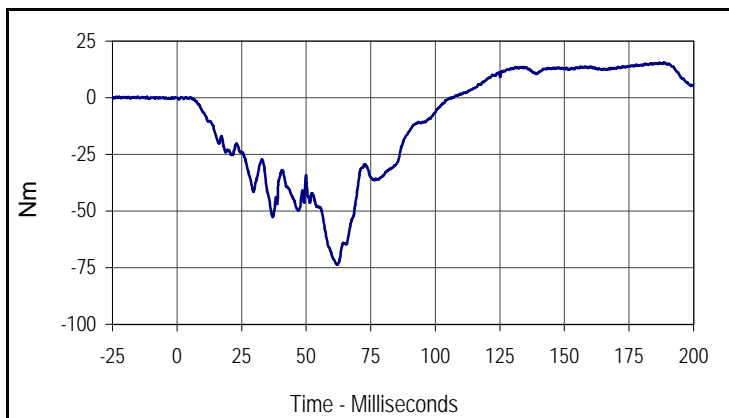
Curve Description			
Driver Right Femur Force			
CURNO	Type	SAE Class	Units
024	FIL	600	Newtons
Max	Time	Min	Time
387.5	32.1	-3346.9	63.4

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

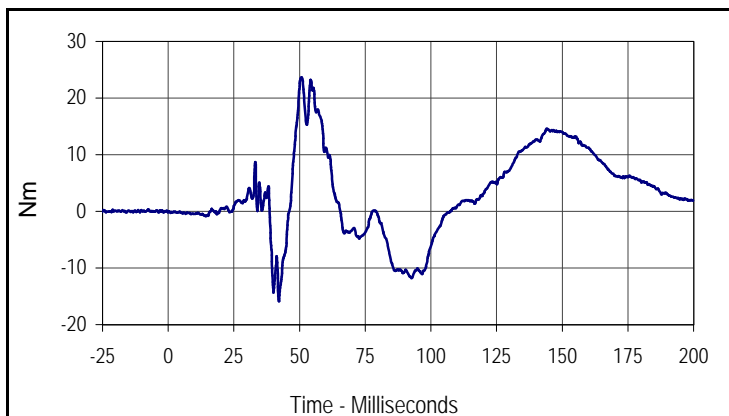
Test Date: 12/16/04
 NHTSA No.: M55302



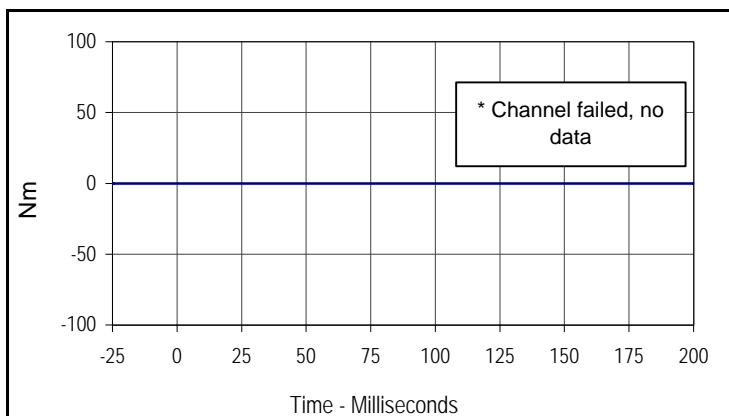
Curve Description			
Driver Left Upper Tibia Moment X			
CURNO	Type	SAE Class	Units
025	FIL	600	Nm
Max	Time	Min	Time
31.9	38.8	-17.5	49.5



Curve Description			
Driver Left Upper Tibia Moment Y			
CURNO	Type	SAE Class	Units
026	FIL	600	Nm
Max	Time	Min	Time
15.6	188.6	-73.5	62.0



Curve Description			
Driver Right Upper Tibia Moment X			
CURNO	Type	SAE Class	Units
027	FIL	600	Nm
Max	Time	Min	Time
23.7	50.8	-15.9	42.1

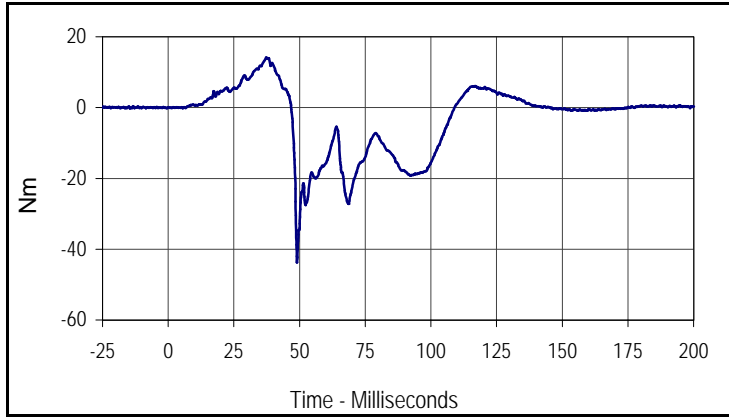


Curve Description			
Driver Right Upper Tibia Moment Y			
CURNO	Type	SAE Class	Units
028	FIL	600	Nm
Max	Time	Min	Time
0.0	0.0	0.0	0.0

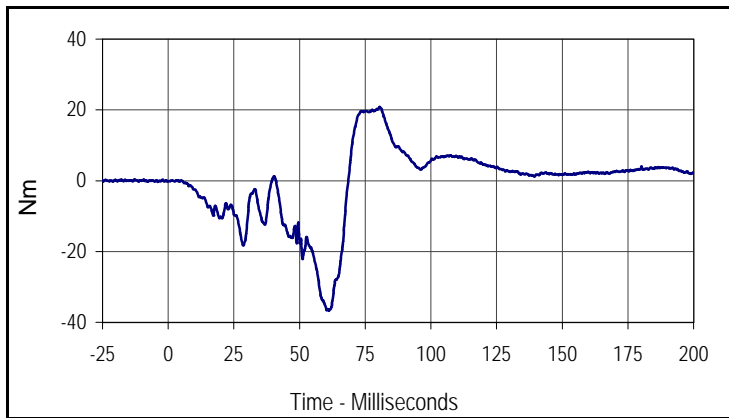
* Channel failed, no data

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

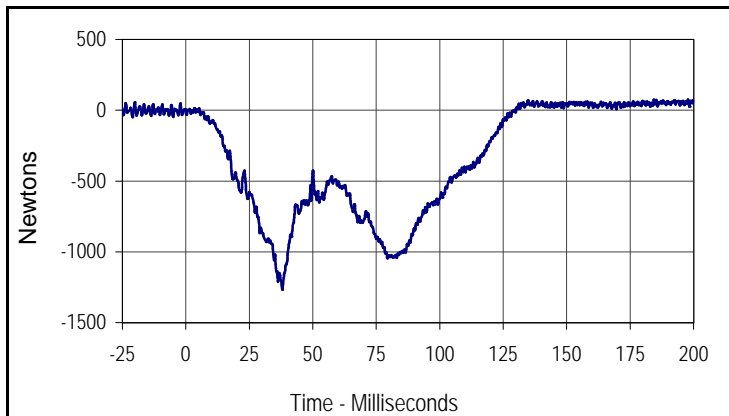
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Driver Left Lower Tibia Moment X			
CURNO	Type	SAE Class	Units
029	FIL	600	Nm
Max	Time	Min	Time
14.2	37.4	-43.8	49.0



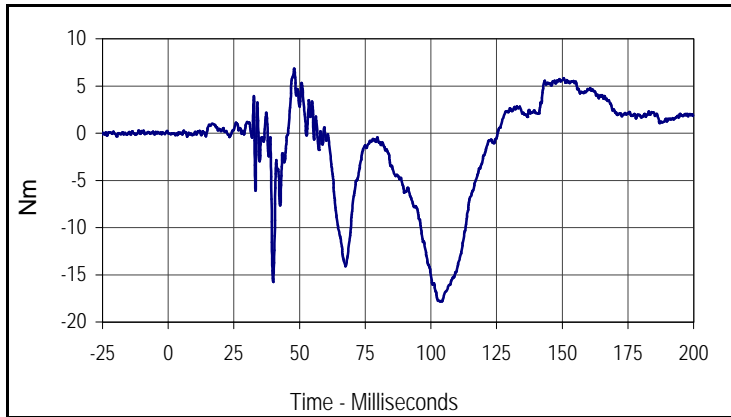
Curve Description			
Driver Left Lower Tibia Moment Y			
CURNO	Type	SAE Class	Units
030	FIL	600	Nm
Max	Time	Min	Time
20.8	80.5	-36.8	61.2



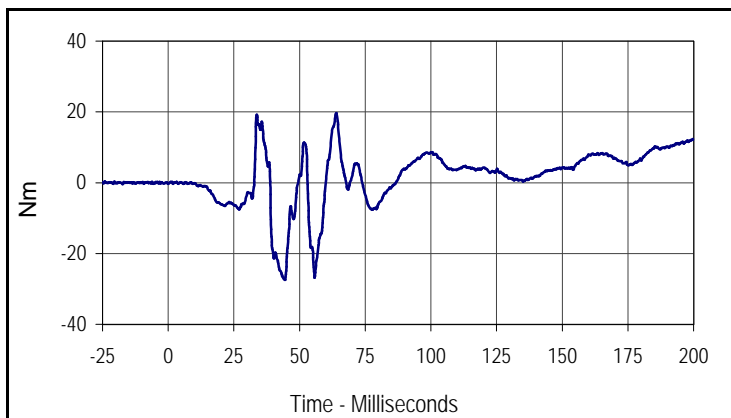
Curve Description			
Driver Left Lower Tibia Force Z			
CURNO	Type	SAE Class	Units
031	FIL	600	Newtons
Max	Time	Min	Time
75.9	197.8	-1266.7	38.1

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

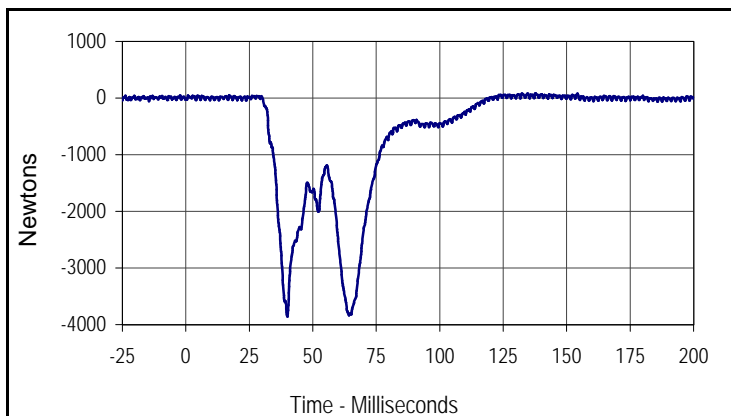
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Driver Right Lower Tibia Moment X			
CURNO	Type	SAE Class	Units
032	FIL	600	Nm
Max	Time	Min	Time
6.8	48.0	-17.8	104.2



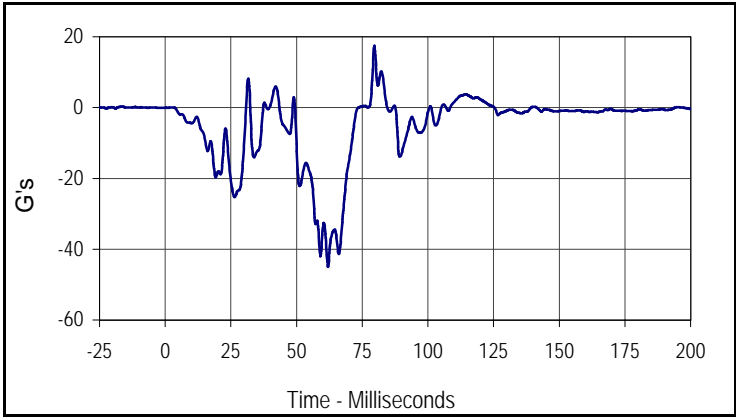
Curve Description			
Driver Right Lower Tibia Moment Y			
CURNO	Type	SAE Class	Units
033	FIL	600	Nm
Max	Time	Min	Time
19.7	64.0	-27.5	44.4



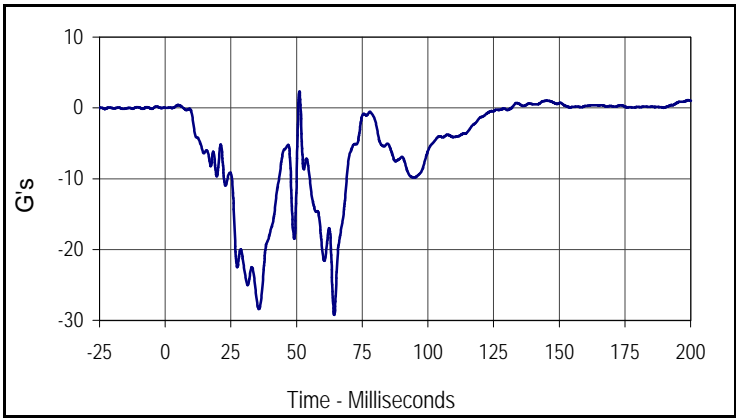
Curve Description			
Driver Right Lower Tibia Force Z			
CURNO	Type	SAE Class	Units
034	FIL	600	Newtons
Max	Time	Min	Time
85.3	137.7	-3857.6	40.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

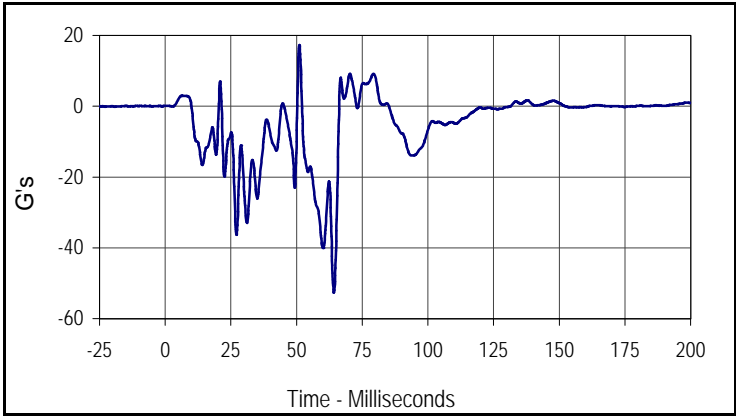
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Driver Left Foot Aft X			
CURNO	Type	SAE Class	Units
035	FIL	180	G's
Max	Time	Min	Time
17.4	79.6	-45.0	62.0



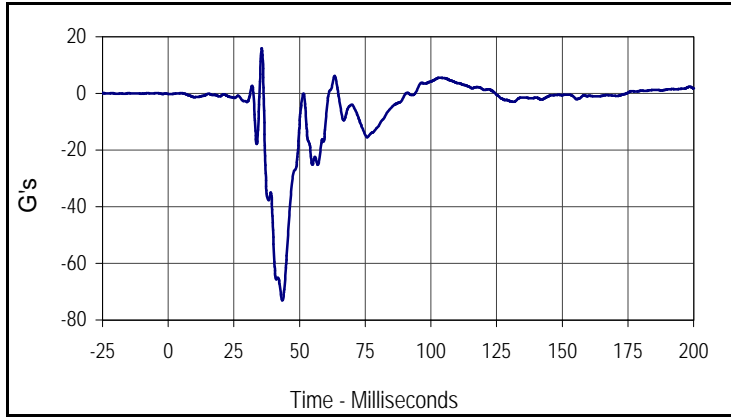
Curve Description			
Driver Left Foot Aft Z			
CURNO	Type	SAE Class	Units
036	FIL	180	G's
Max	Time	Min	Time
2.3	51.1	-29.2	64.3



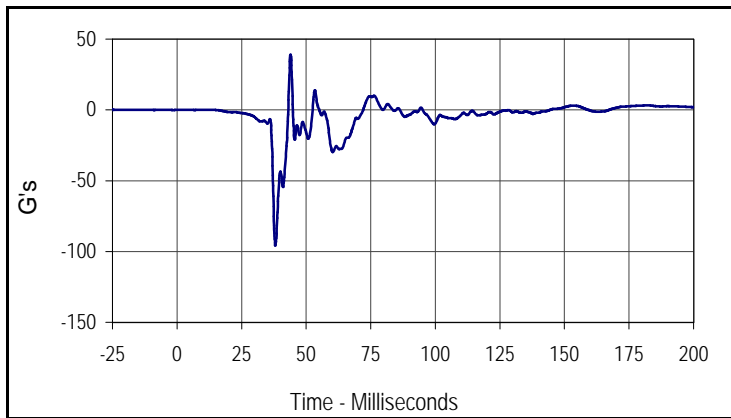
Curve Description			
Driver Left Foot Fore Z			
CURNO	Type	SAE Class	Units
037	FIL	180	G's
Max	Time	Min	Time
17.3	51.1	-52.7	64.2

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

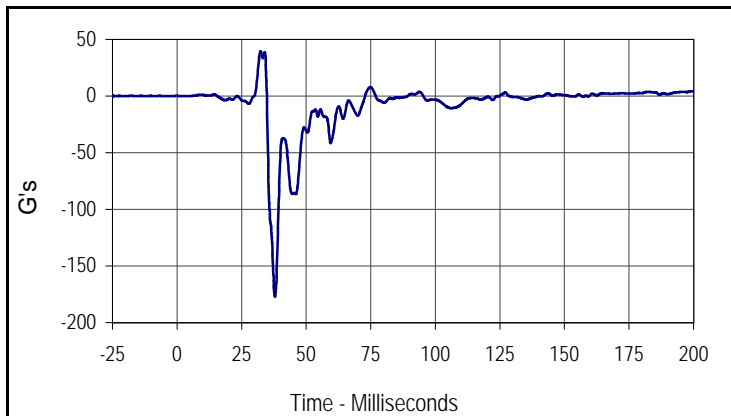
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Driver Right Foot Aft X			
CURNO	Type	SAE Class	Units
038	FIL	180	G's
Max	Time	Min	Time
16.0	35.6	-73.1	43.5



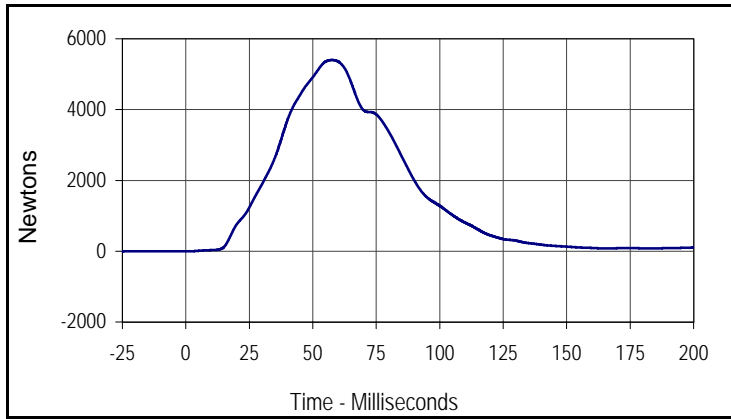
Curve Description			
Driver Right Foot Aft Z			
CURNO	Type	SAE Class	Units
039	FIL	180	G's
Max	Time	Min	Time
39.0	44.0	-95.7	38.1



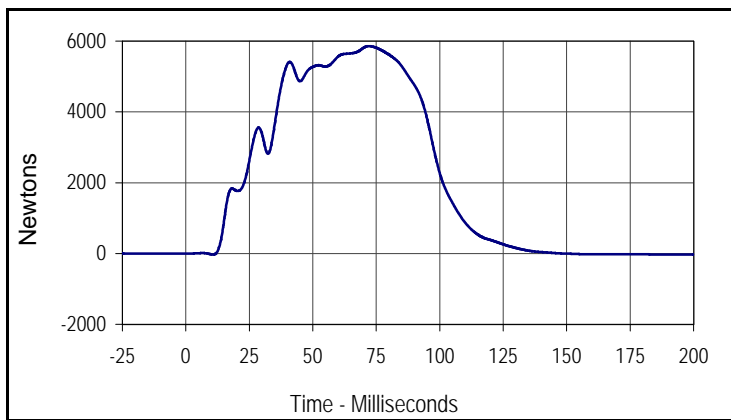
Curve Description			
Driver Right Foot Fore Z			
CURNO	Type	SAE Class	Units
040	FIL	180	G's
Max	Time	Min	Time
39.5	32.3	-177.0	37.9

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

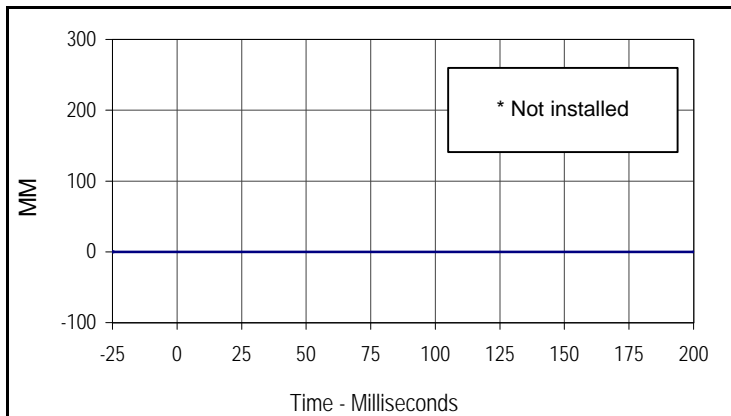
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Driver Lap Belt Force			
CURNO	Type	SAE Class	Units
041	FIL	60	Newtons
Max	Time	Min	Time
5400.1	57.6	-4.8	0.6

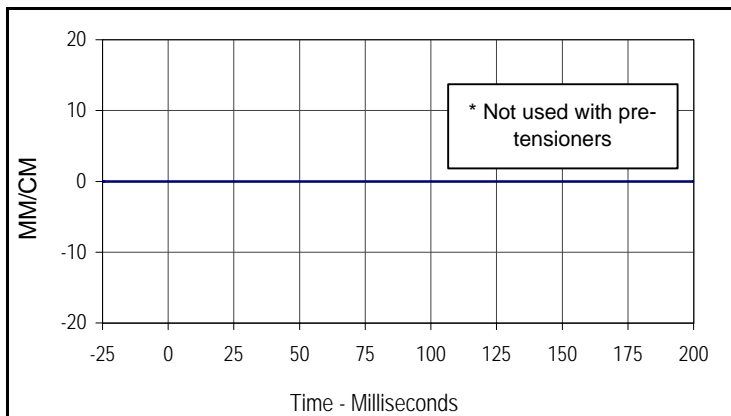


Curve Description			
Driver Shoulder Belt Force			
CURNO	Type	SAE Class	Units
042	FIL	60	Newtons
Max	Time	Min	Time
5857.3	72.1	-31.3	196.2



Curve Description			
Driver Shoulder Belt Pullout			
CURNO	Type	SAE Class	Units
043	FIL	60	MM
Max	Time	Min	Time
0.0	0.0	0.0	0.0

* Not installed

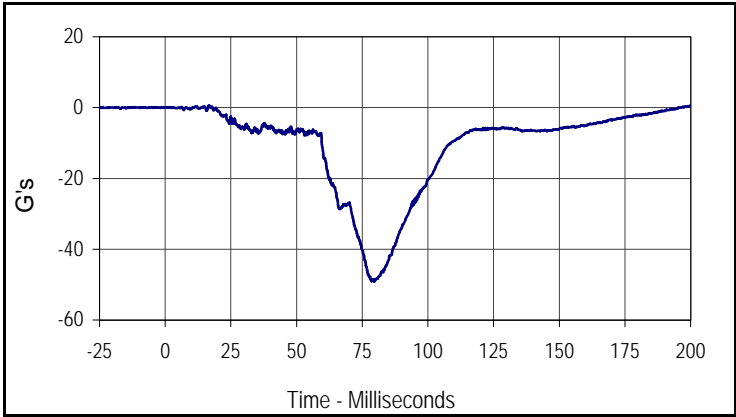


Curve Description			
Driver Shoulder Belt Elongation			
CURNO	Type	SAE Class	Units
044	FIL	60	MM/CM
Max	Time	Min	Time
0.0	0.0	0.0	0.0

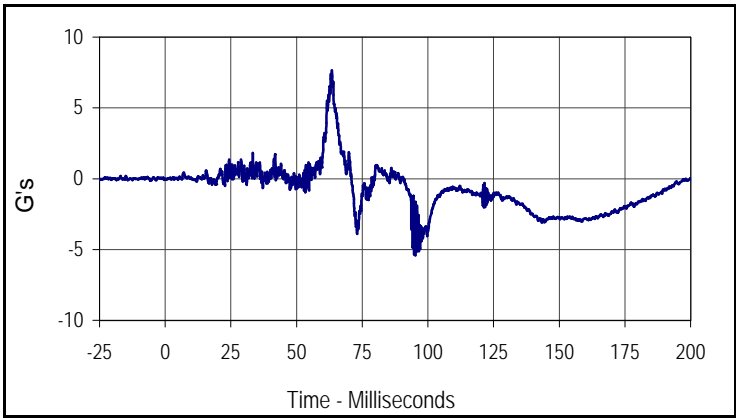
* Not used with pre-tensioners

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

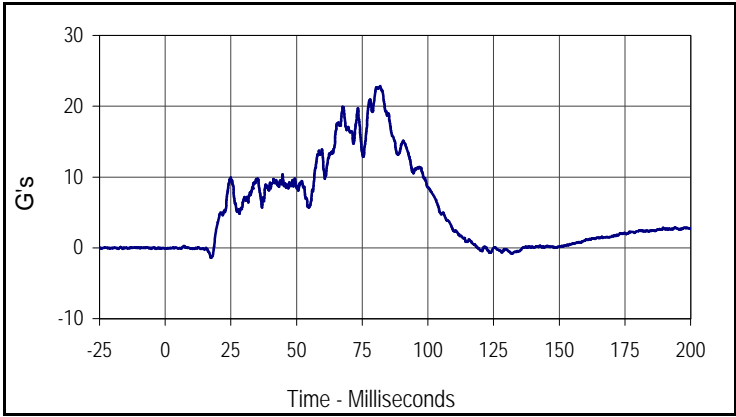
Test Date: 12/16/04
 NHTSA No.: M55302



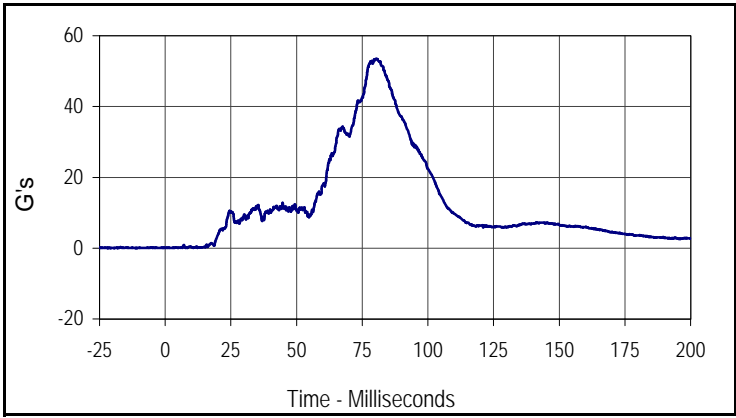
Curve Description			
Passenger Head Primary X			
CURNO	Type	SAE Class	Units
045	FIL	1000	G's
Max	Time	Min	Time
0.6	16.7	-49.1	79.5



Curve Description			
Passenger Head Primary Y			
CURNO	Type	SAE Class	Units
046	FIL	1000	G's
Max	Time	Min	Time
7.6	63.5	-5.4	95.2



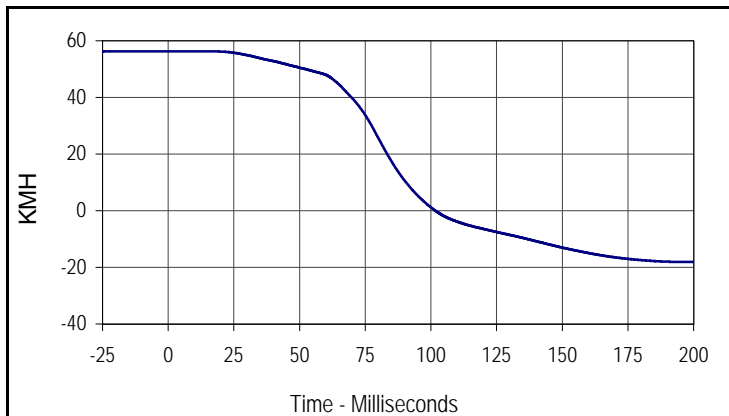
Curve Description			
Passenger Head Primary Z			
CURNO	Type	SAE Class	Units
047	FIL	1000	G's
Max	Time	Min	Time
22.8	81.8	-1.4	17.4



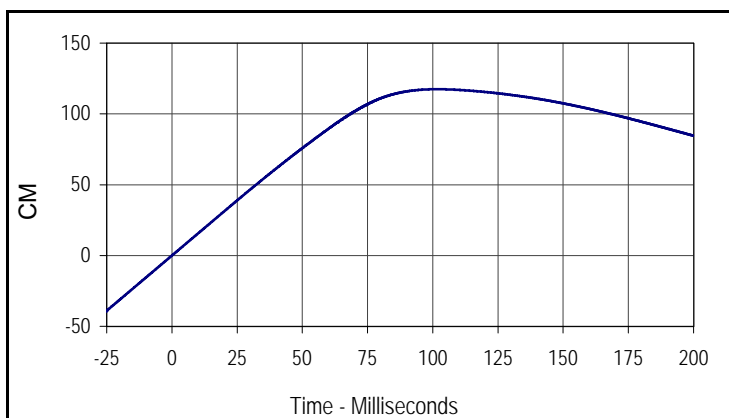
Curve Description			
Passenger Head Resultant Primary			
CURNO	Type	SAE Class	Units
045	RES	1000	G's
Max	Time	Min	Time
53.5	80.1	0.0	2.7

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04
 NHTSA No.: M55302



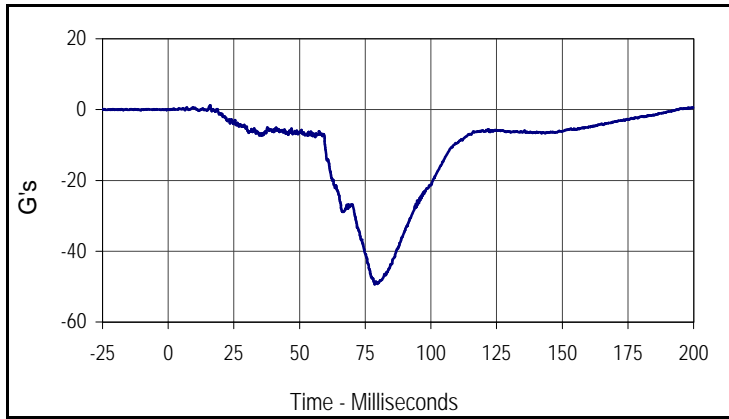
Curve Description			
Passenger Head Primary X Velocity			
CURNO	Type	SAE Class	Units
045	IN1	180	KMH
Max	Time	Min	Time
56.3	1.8	-18.1	195.9



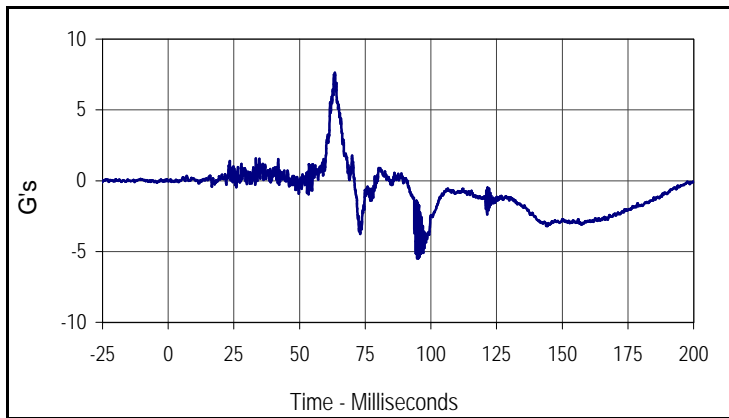
Curve Description			
Passenger Head Primary X Displacement			
CURNO	Type	SAE Class	Units
045	IN2	180	CM
Max	Time	Min	Time
117.4	101.7	0.0	0.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

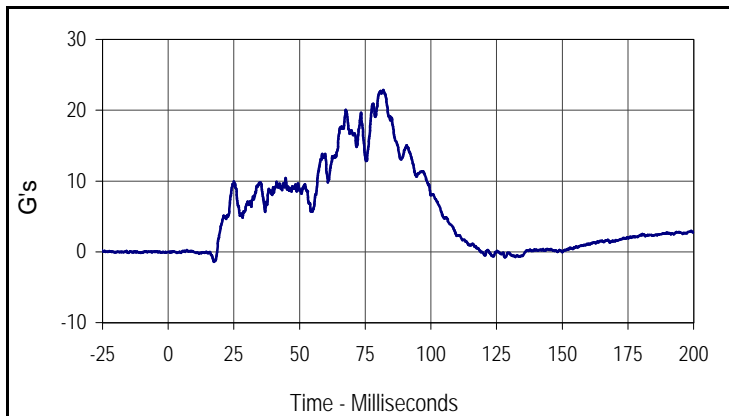
Test Date: 12/16/04
 NHTSA No.: M55302



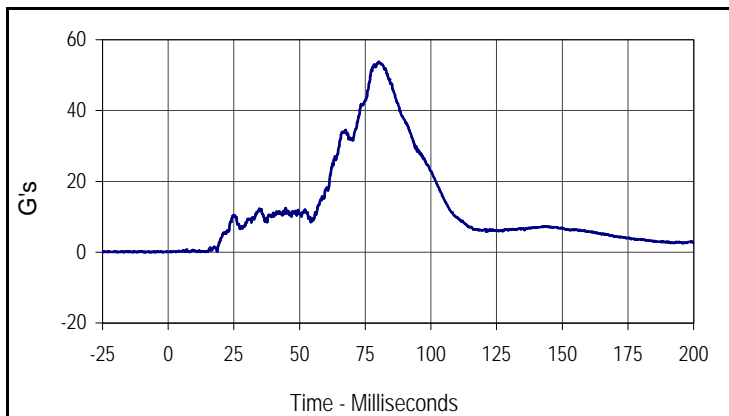
Curve Description			
Passenger Head Redundant X			
CURNO	Type	SAE Class	Units
048	FIL	1000	G's
Max	Time	Min	Time
1.2	15.9	-49.3	78.6



Curve Description			
Passenger Head Redundant Y			
CURNO	Type	SAE Class	Units
049	FIL	1000	G's
Max	Time	Min	Time
7.6	63.5	-5.5	94.8



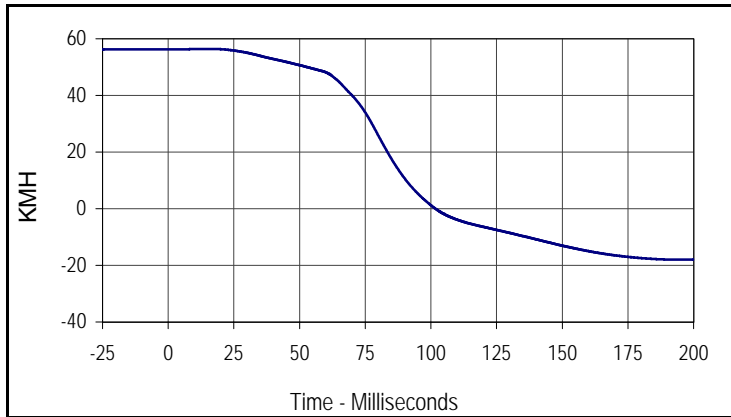
Curve Description			
Passenger Head Redundant Z			
CURNO	Type	SAE Class	Units
050	FIL	1000	G's
Max	Time	Min	Time
22.8	81.8	-1.4	17.5



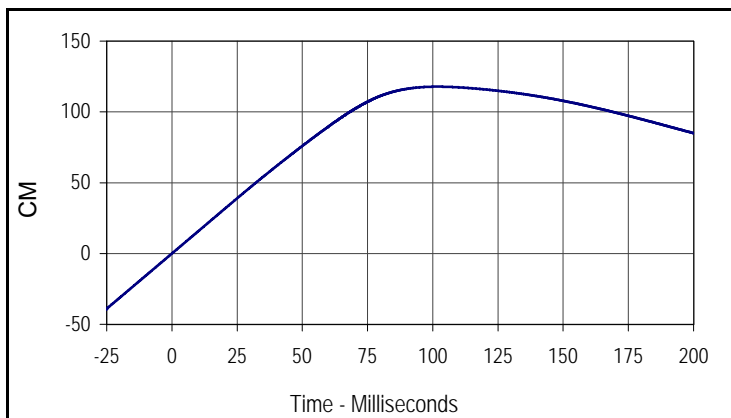
Curve Description			
Passenger Head Resultant Redundant			
CURNO	Type	SAE Class	Units
048	RES	1000	G's
Max	Time	Min	Time
53.8	80.1	0.0	0.3

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04
 NHTSA No.: M55302



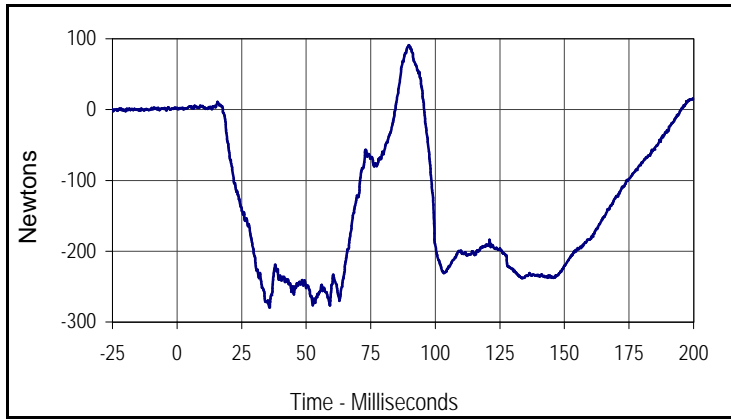
Curve Description			
Passenger Head Redundant X Velocity			
CURNO	Type	SAE Class	Units
048	IN1	180	KMH
Max	Time	Min	Time
56.4	16.8	-18.0	193.8



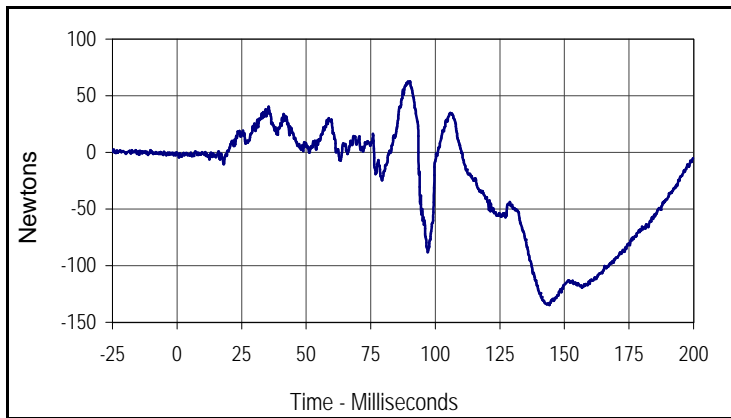
Curve Description			
Passenger Head Redundant X Displacement			
CURNO	Type	SAE Class	Units
048	IN2	180	CM
Max	Time	Min	Time
117.8	101.7	0.0	0.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

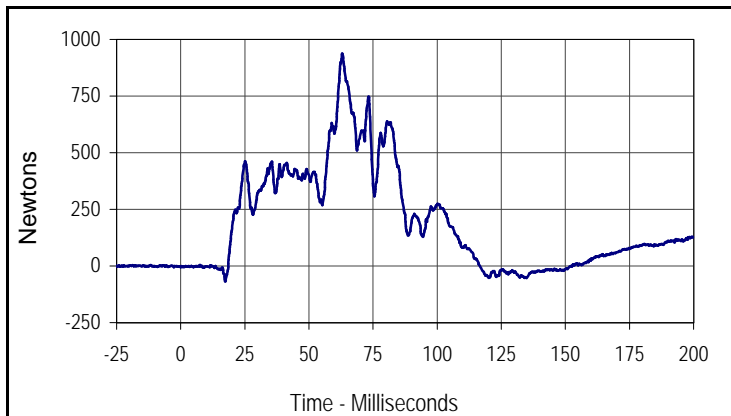
Test Date: 12/16/04
 NHTSA No.: M55302



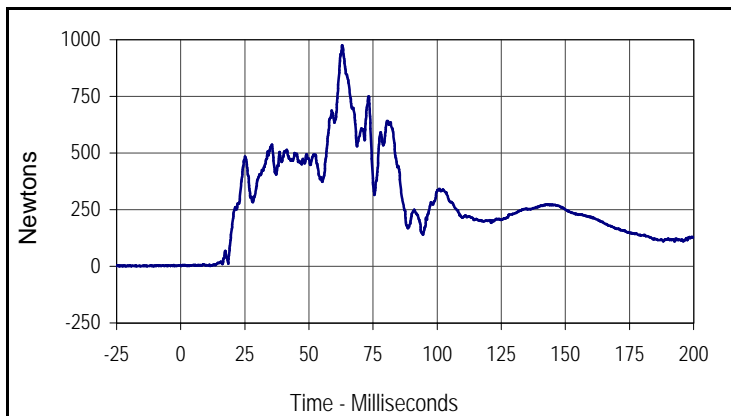
Curve Description			
Passenger Upper Neck Force X			
CURNO	Type	SAE Class	Units
051	FIL	1000	Newtons
Max	Time	Min	Time
91.0	89.8	-279.7	35.8



Curve Description			
Passenger Upper Neck Force Y			
CURNO	Type	SAE Class	Units
052	FIL	1000	Newtons
Max	Time	Min	Time
62.7	90.2	-134.7	144.1



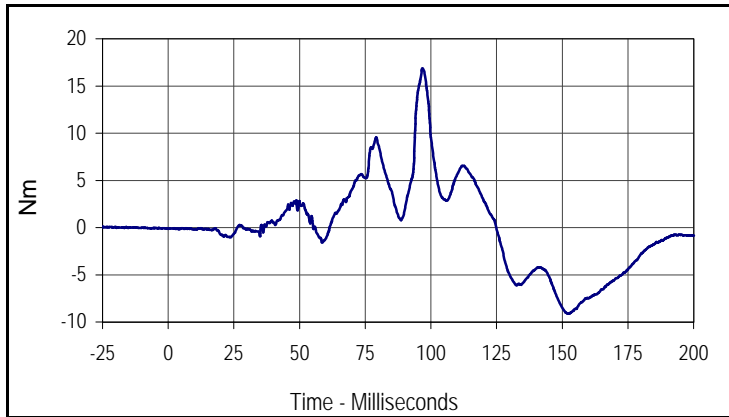
Curve Description			
Passenger Upper Neck Force Z			
CURNO	Type	SAE Class	Units
053	FIL	1000	Newtons
Max	Time	Min	Time
937.7	63.0	-67.5	17.3



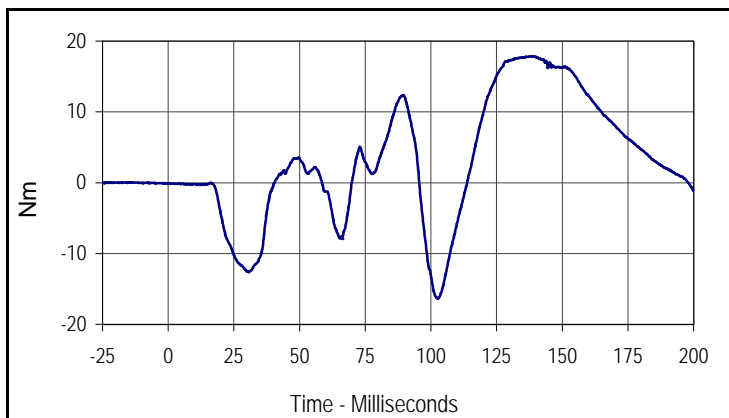
Curve Description			
Passenger Upper Neck Force Res.			
CURNO	Type	SAE Class	Units
051	RES	1000	Newtons
Max	Time	Min	Time
975.5	63.0	1.5	2.6

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

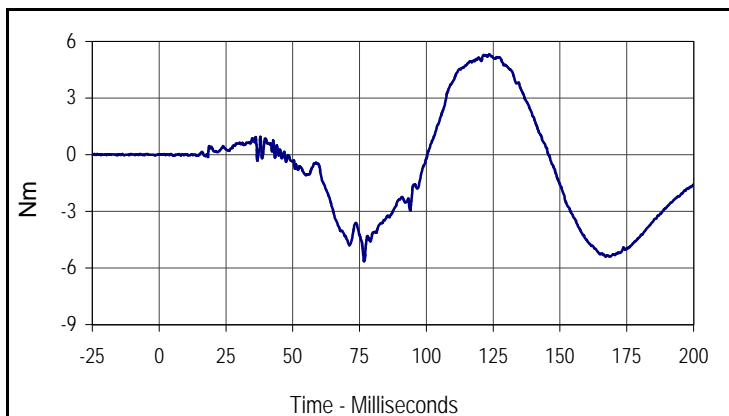
Test Date: 12/16/04
 NHTSA No.: M55302



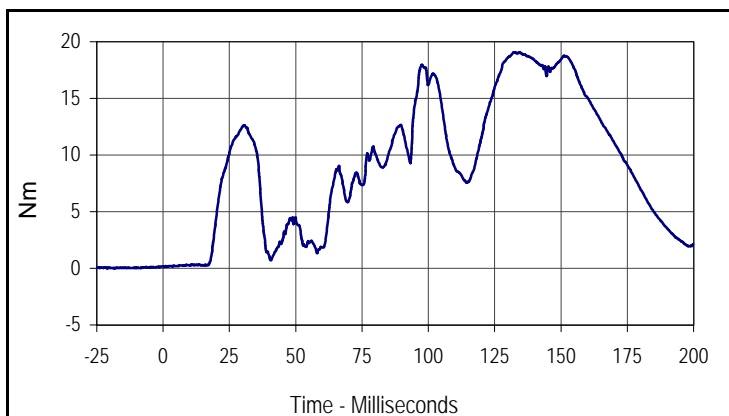
Curve Description			
Passenger Upper Neck Moment X			
CURNO	Type	SAE Class	Units
054	FIL	600	Nm
Max	Time	Min	Time
16.8	96.8	-9.1	152.2



Curve Description			
Passenger Upper Neck Moment Y			
CURNO	Type	SAE Class	Units
055	FIL	600	Nm
Max	Time	Min	Time
17.9	138.5	-16.3	102.6



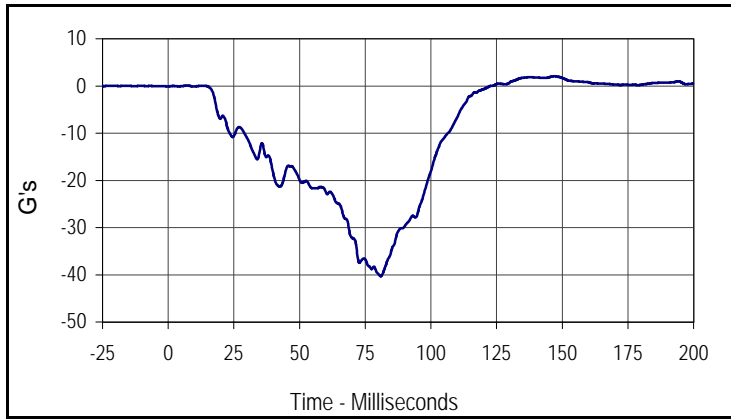
Curve Description			
Passenger Upper Neck Moment Z			
CURNO	Type	SAE Class	Units
056	FIL	600	Nm
Max	Time	Min	Time
5.3	123.6	-5.6	76.7



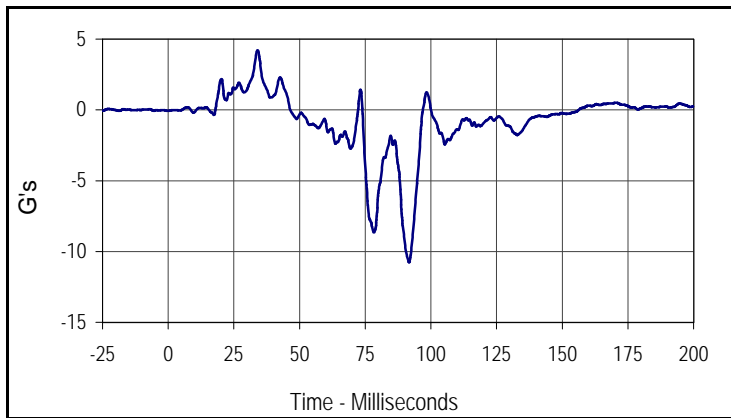
Curve Description			
Passenger Upper Neck Moment Res.			
CURNO	Type	SAE Class	Units
054	RES	600	Nm
Max	Time	Min	Time
19.1	134.5	0.1	0.5

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

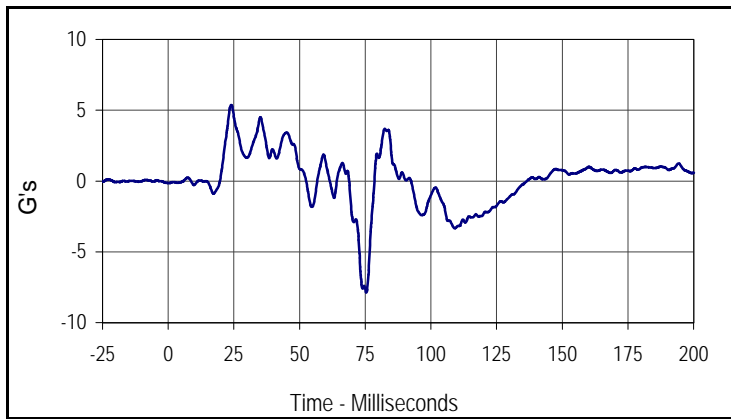
Test Date: 12/16/04
 NHTSA No.: M55302



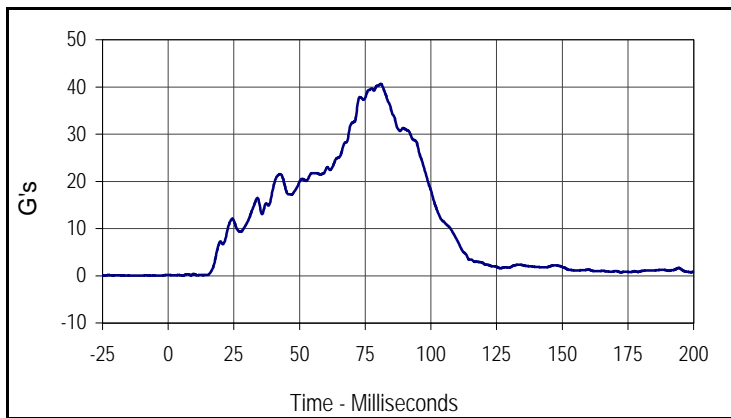
Curve Description			
Passenger Chest Primary X			
CURNO	Type	SAE Class	Units
057	FIL	180	G's
Max	Time	Min	Time
2.0	147.0	-40.3	80.9



Curve Description			
Passenger Chest Primary Y			
CURNO	Type	SAE Class	Units
058	FIL	180	G's
Max	Time	Min	Time
4.2	34.0	-10.8	91.7



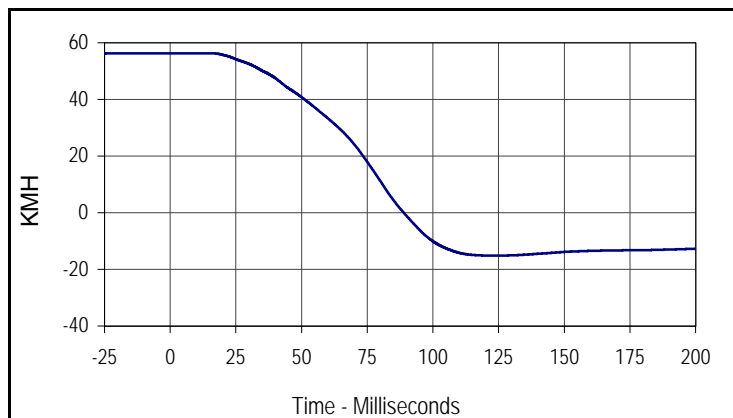
Curve Description			
Passenger Chest Primary Z			
CURNO	Type	SAE Class	Units
059	FIL	180	G's
Max	Time	Min	Time
5.4	24.0	-7.9	75.4



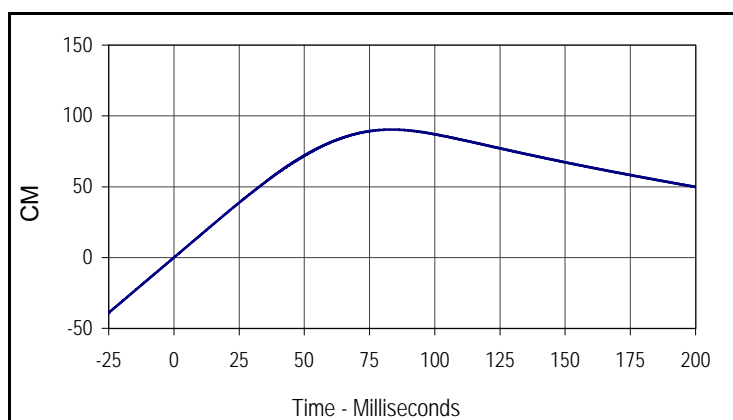
Curve Description			
Passenger Chest Resultant Primary			
CURNO	Type	SAE Class	Units
057	RES	180	G's
Max	Time	Min	Time
40.6	80.9	0.0	8.6

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04
 NHTSA No.: M55302



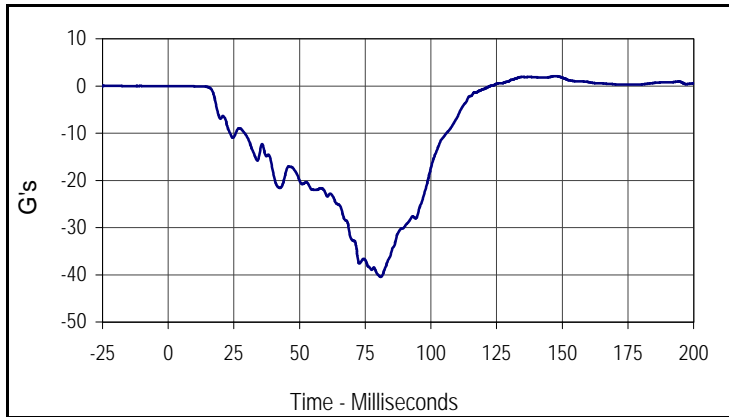
Curve Description			
Passenger Chest Primary X Velocity			
CURNO	Type	SAE Class	Units
057	IN1	180	KMH
Max	Time	Min	Time
56.3	0.0	-15.2	122.5



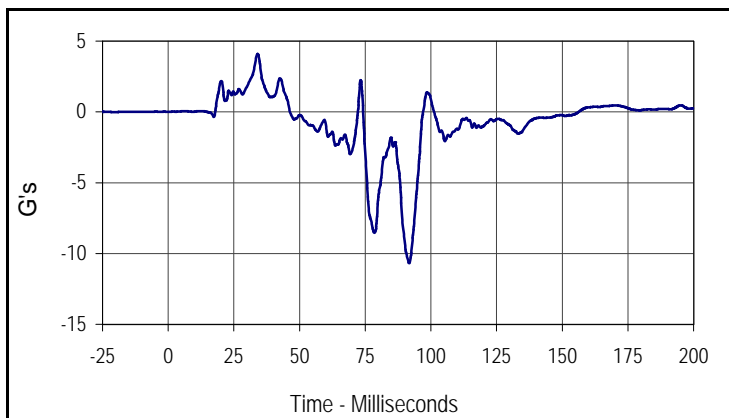
Curve Description			
Passenger Chest Primary X Displacement			
CURNO	Type	SAE Class	Units
057	IN2	180	CM
Max	Time	Min	Time
90.4	83.5	0.0	0.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

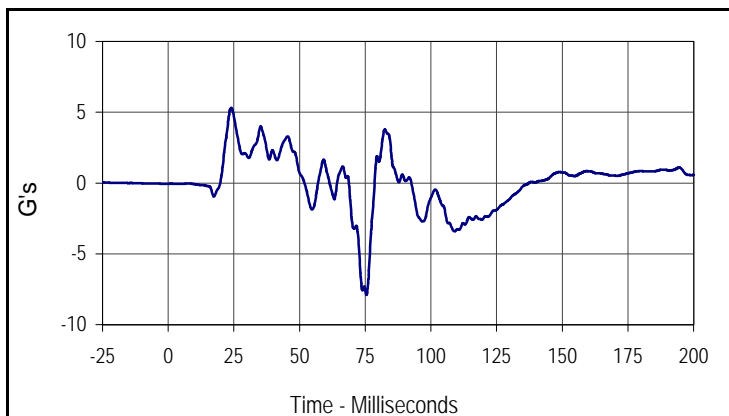
Test Date: 12/16/04
 NHTSA No.: M55302



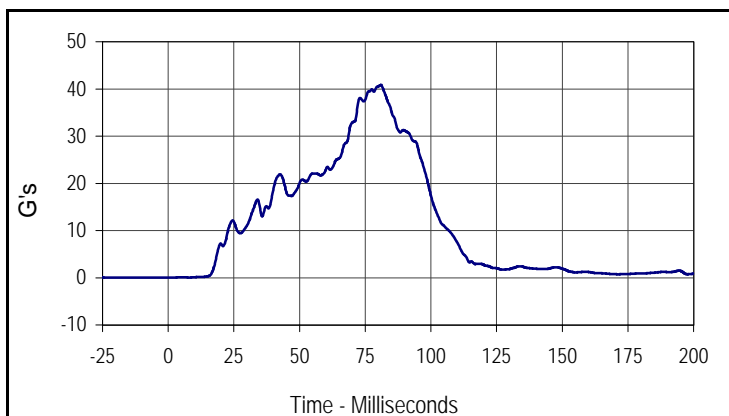
Curve Description			
Passenger Chest Redundant X			
CURNO	Type	SAE Class	Units
060	FIL	180	G's
Max	Time	Min	Time
2.1	147.5	-40.5	80.9



Curve Description			
Passenger Chest Redundant Y			
CURNO	Type	SAE Class	Units
061	FIL	180	G's
Max	Time	Min	Time
4.1	34.0	-10.7	91.8



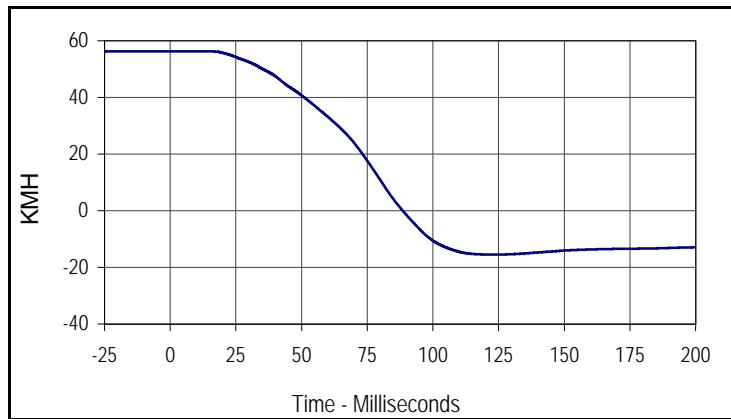
Curve Description			
Passenger Chest Redundant Z			
CURNO	Type	SAE Class	Units
062	FIL	180	G's
Max	Time	Min	Time
5.3	24.0	-7.9	75.5



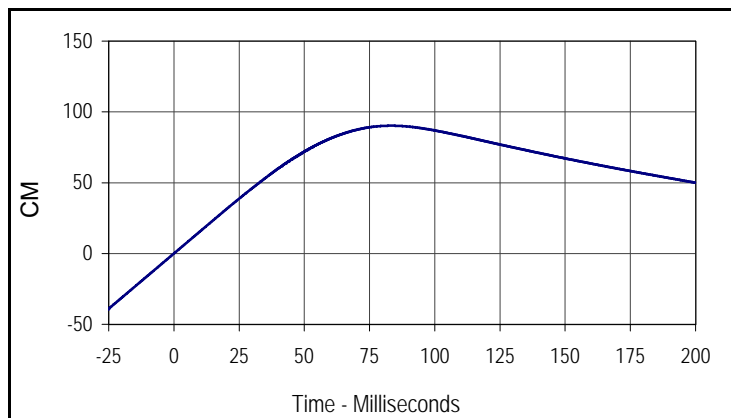
Curve Description			
Passenger Chest Resultant Redundant			
CURNO	Type	SAE Class	Units
060	RES	180	G's
Max	Time	Min	Time
40.8	80.9	0.1	0.6

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04
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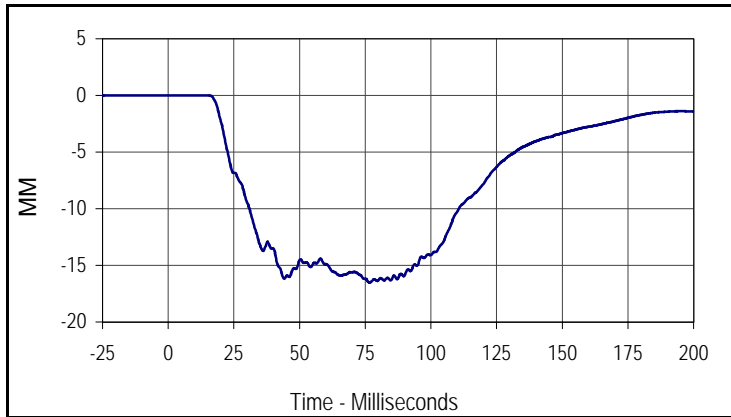
Curve Description			
Passenger Chest Redundant X Velocity			
CURNO	Type	SAE Class	Units
060	IN1	180	KMH
Max	Time	Min	Time
56.3	0.0	-15.5	122.5



Curve Description			
Passenger Chest Redundant X Displacement			
CURNO	Type	SAE Class	Units
060	IN2	180	CM
Max	Time	Min	Time
90.3	83.4	0.0	0.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

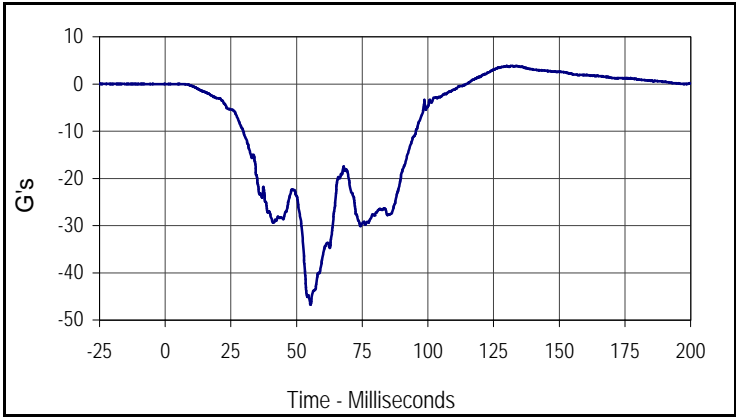
Test Date: 12/16/04
 NHTSA No.: M55302



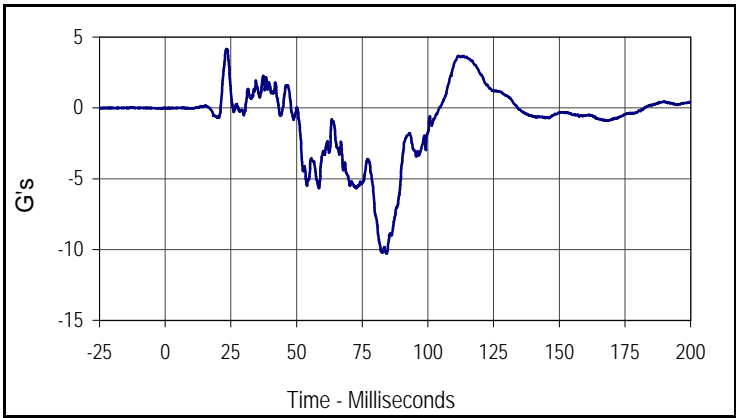
Curve Description			
Passenger Chest Deflection			
CURNO	Type	SAE Class	Units
063	FIL	600	MM
Max	Time	Min	Time
0.0	6.4	-16.5	76.6

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

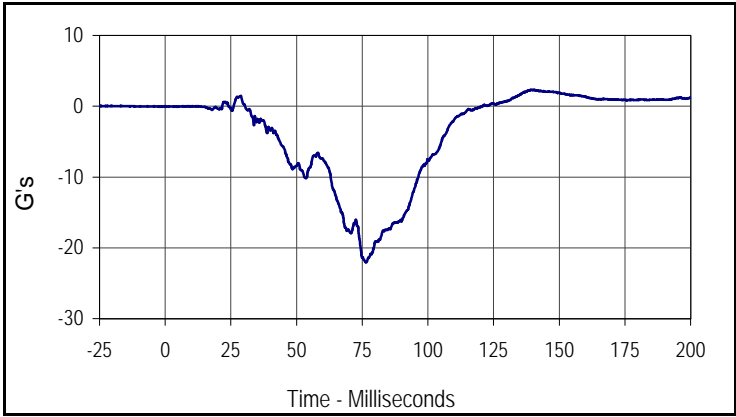
Test Date: 12/16/04
 NHTSA No.: M55302



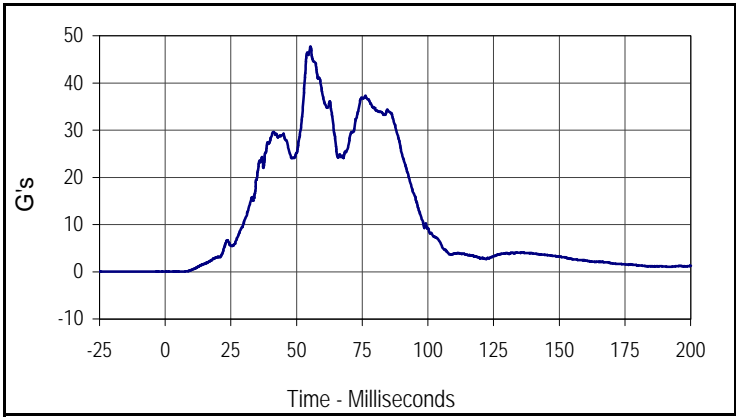
Curve Description			
Passenger Pelvis X			
CURNO	Type	SAE Class	Units
064	FIL	1000	G's
Max	Time	Min	Time
3.9	131.7	-46.7	55.4



Curve Description			
Passenger Pelvis Y			
CURNO	Type	SAE Class	Units
065	FIL	1000	G's
Max	Time	Min	Time
4.2	23.3	-10.3	84.1



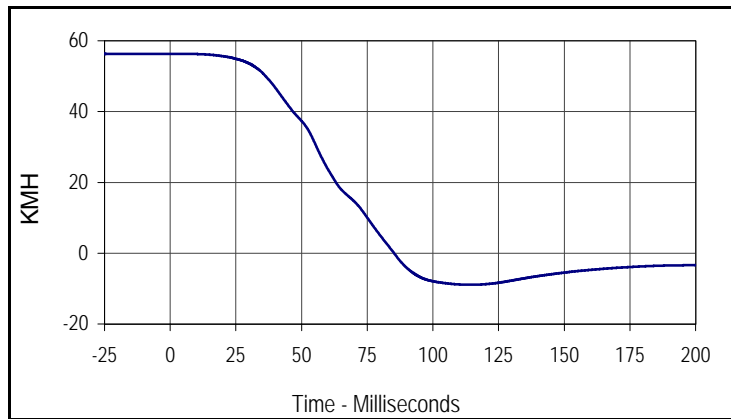
Curve Description			
Passenger Pelvis Z			
CURNO	Type	SAE Class	Units
066	FIL	1000	G's
Max	Time	Min	Time
2.3	139.2	-22.0	76.4



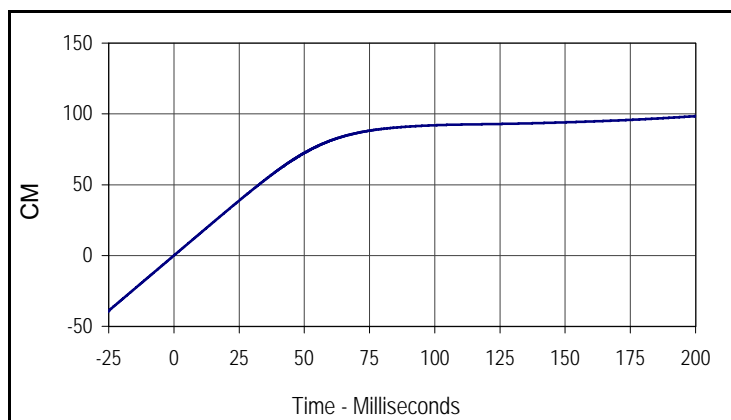
Curve Description			
Passenger Pelvis Resultant			
CURNO	Type	SAE Class	Units
064	RES	1000	G's
Max	Time	Min	Time
47.7	55.3	0.0	5.4

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04
 NHTSA No.: M55302



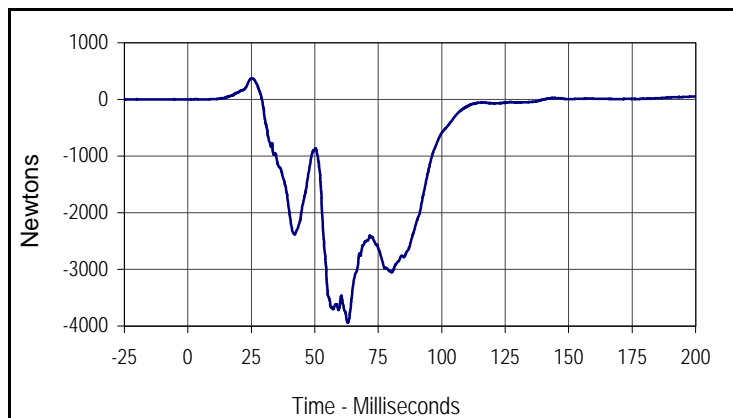
Curve Description			
Passenger Pelvis X Velocity			
CURNO	Type	SAE Class	Units
064	IN1	180	KMH
Max	Time	Min	Time
56.3	0.0	-8.9	114.7



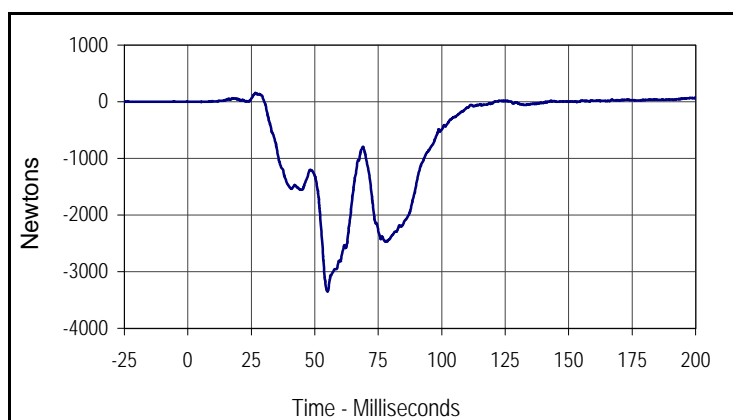
Curve Description			
Passenger Pelvis X Displacement			
CURNO	Type	SAE Class	Units
064	IN2	180	CM
Max	Time	Min	Time
98.4	200.0	0.0	0.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04
 NHTSA No.: M55302



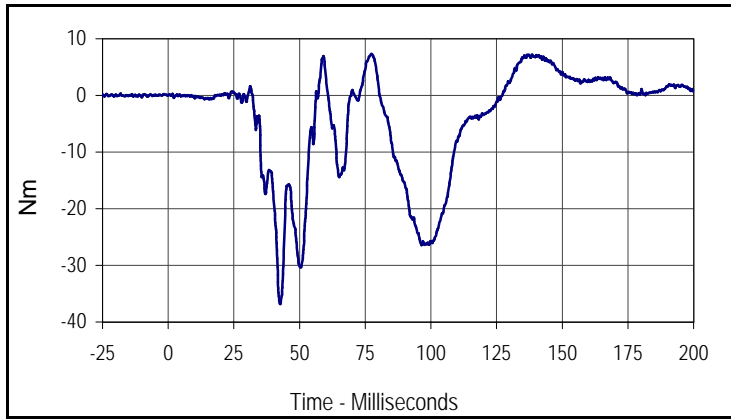
Curve Description			
Passenger Left Femur Force			
CURNO	Type	SAE Class	Units
067	FIL	600	Newtons
Max	Time	Min	Time
370.8	25.3	-3941.8	63.0



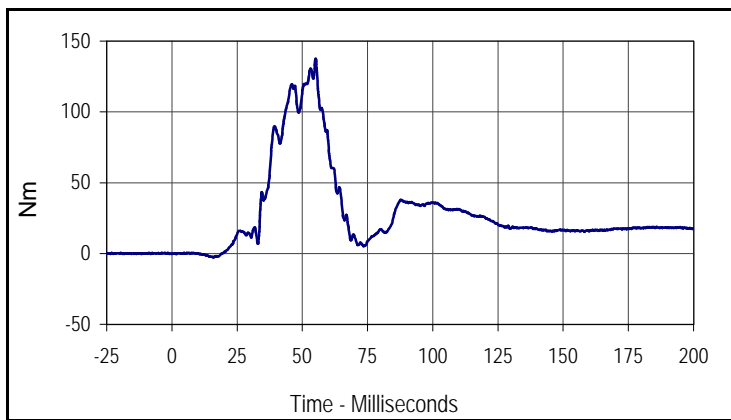
Curve Description			
Passenger Right Femur Force			
CURNO	Type	SAE Class	Units
068	FIL	600	Newtons
Max	Time	Min	Time
156.0	26.6	-3352.7	55.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

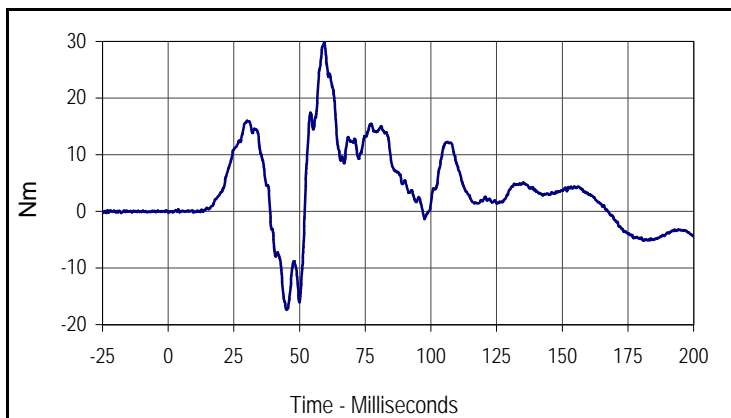
Test Date: 12/16/04
 NHTSA No.: M55302



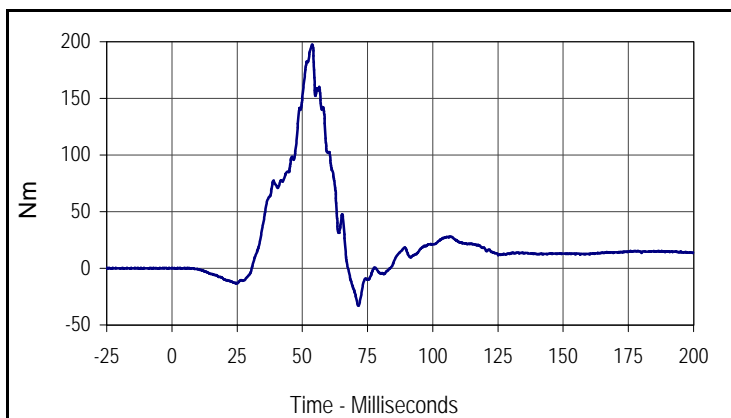
Curve Description			
Passenger Left Upper Tibia Moment X			
CURNO	Type	SAE Class	Units
069	FIL	600	Nm
Max	Time	Min	Time
7.4	77.4	-36.8	42.7



Curve Description			
Passenger Left Upper Tibia Moment Y			
CURNO	Type	SAE Class	Units
070	FIL	600	Nm
Max	Time	Min	Time
137.5	55.1	-2.8	16.0



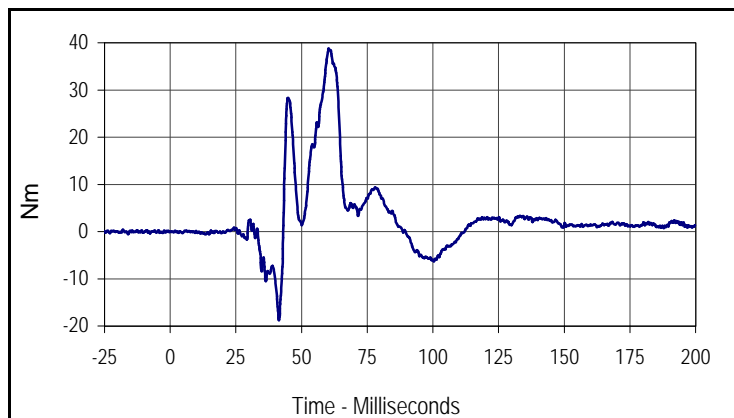
Curve Description			
Passenger Right Upper Tibia Moment X			
CURNO	Type	SAE Class	Units
071	FIL	600	Nm
Max	Time	Min	Time
29.8	59.4	-17.4	45.1



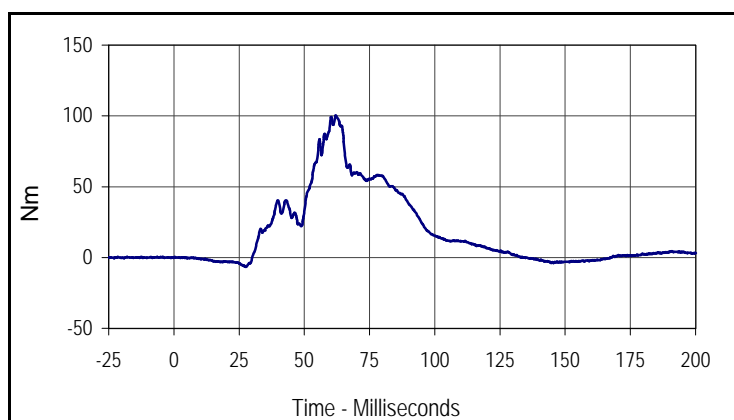
Curve Description			
Passenger Right Upper Tibia Moment Y			
CURNO	Type	SAE Class	Units
072	FIL	600	Nm
Max	Time	Min	Time
197.3	53.8	-33.2	71.5

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

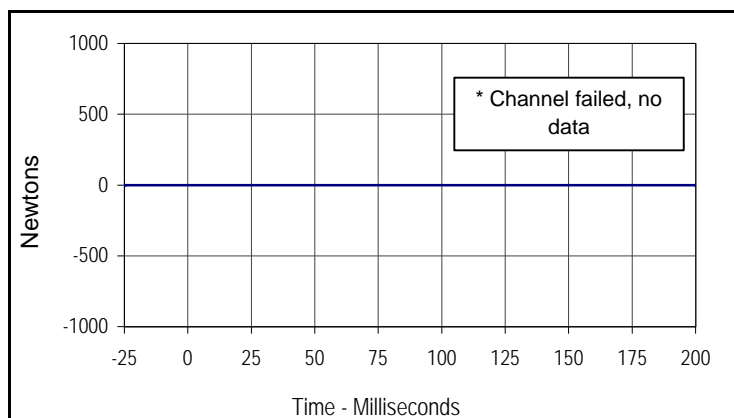
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Passenger Left Lower Tibia Moment X			
CURNO	Type	SAE Class	Units
073	FIL	600	Nm
Max	Time	Min	Time
38.8	60.3	-18.8	41.4



Curve Description			
Passenger Left Lower Tibia Moment Y			
CURNO	Type	SAE Class	Units
074	FIL	600	Nm
Max	Time	Min	Time
100.3	62.1	-6.7	27.7

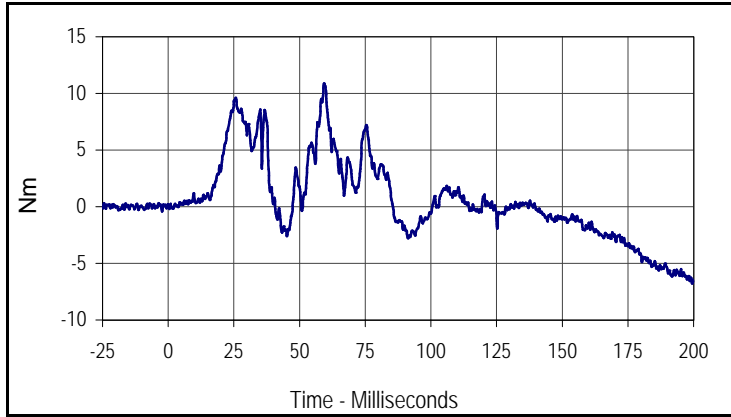


Curve Description			
Passenger Left Lower Tibia Force Z			
CURNO	Type	SAE Class	Units
075	FIL	600	Newtons
Max	Time	Min	Time
0.0	0.0	0.0	0.0

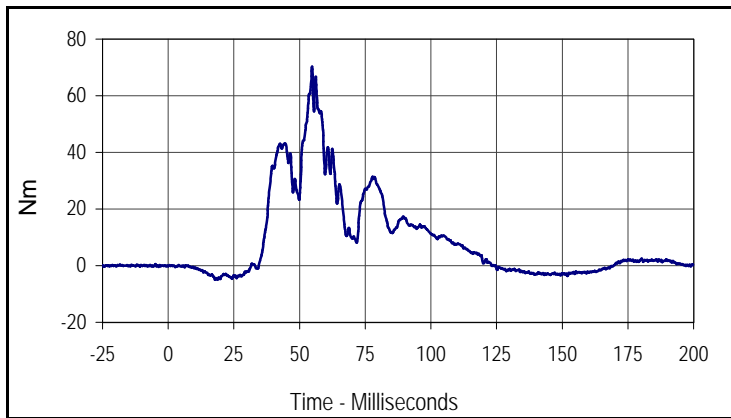
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Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

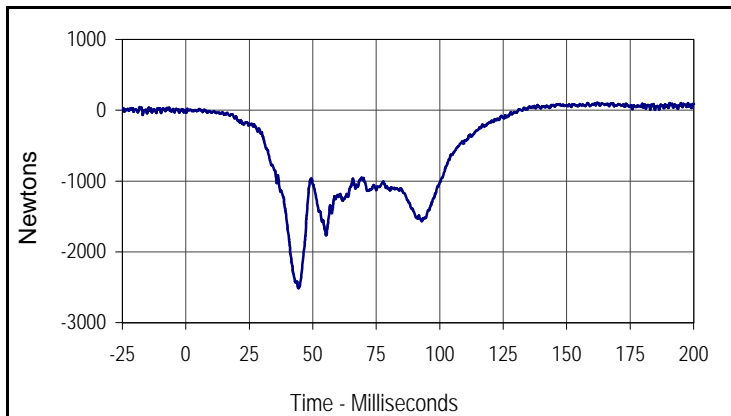
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Passenger Right Lower Tibia Moment X			
CURNO	Type	SAE Class	Units
076	FIL	600	Nm
Max	Time	Min	Time
10.9	59.4	-6.8	199.5



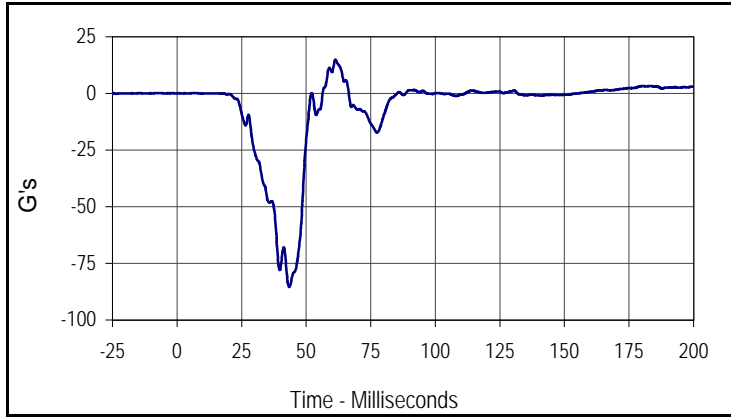
Curve Description			
Passenger Right Lower Tibia Moment Y			
CURNO	Type	SAE Class	Units
077	FIL	600	Nm
Max	Time	Min	Time
70.2	54.8	-5.0	18.8



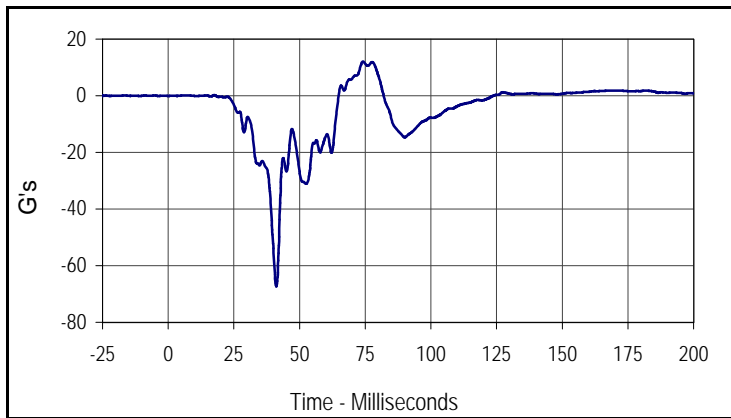
Curve Description			
Passenger Right lower Tibia Force Z			
CURNO	Type	SAE Class	Units
078	FIL	600	Newtons
Max	Time	Min	Time
109.7	162.0	-2515.9	44.4

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

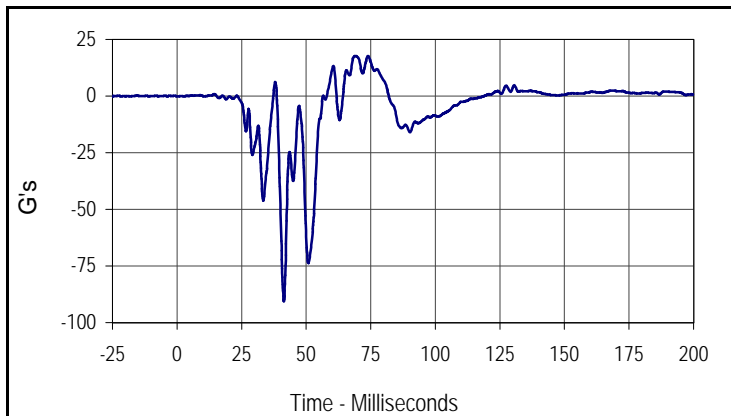
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Passenger Left Foot Aft X			
CURNO	Type	SAE Class	Units
079	FIL	180	G's
Max	Time	Min	Time
14.8	61.3	-85.4	43.5



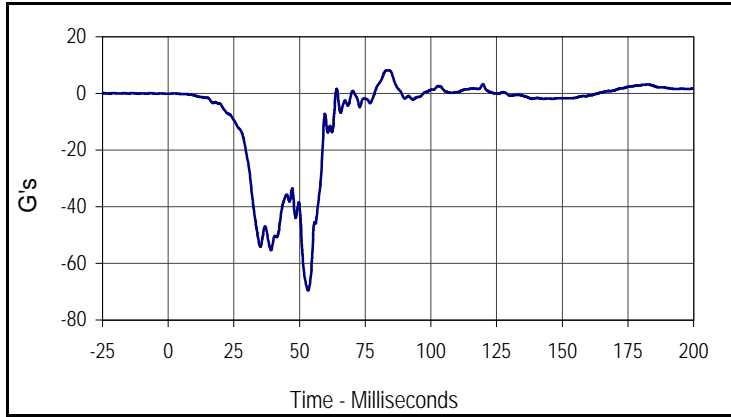
Curve Description			
Passenger Left Foot Aft Z			
CURNO	Type	SAE Class	Units
080	FIL	180	G's
Max	Time	Min	Time
12.1	74.1	-67.4	41.2



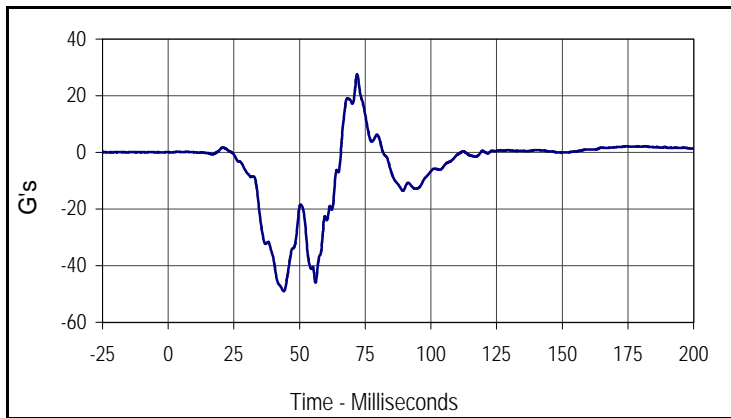
Curve Description			
Passenger Left Foot Fore Z			
CURNO	Type	SAE Class	Units
081	FIL	180	G's
Max	Time	Min	Time
17.7	69.2	-90.6	41.4

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

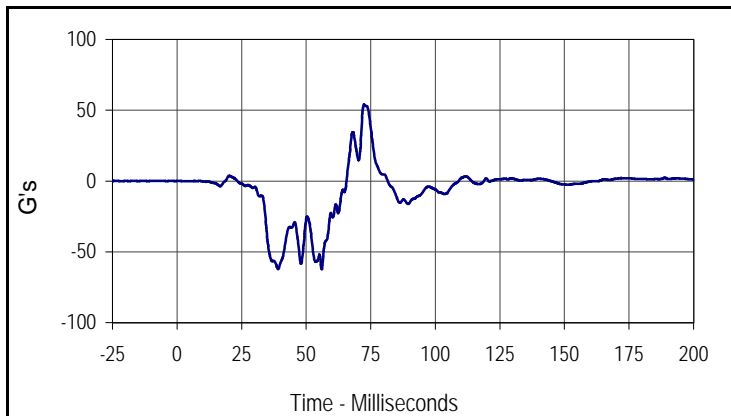
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Passenger Right Foot Aft X			
CURNO	Type	SAE Class	Units
082	FIL	180	G's
Max	Time	Min	Time
8.1	83.2	-69.5	53.3



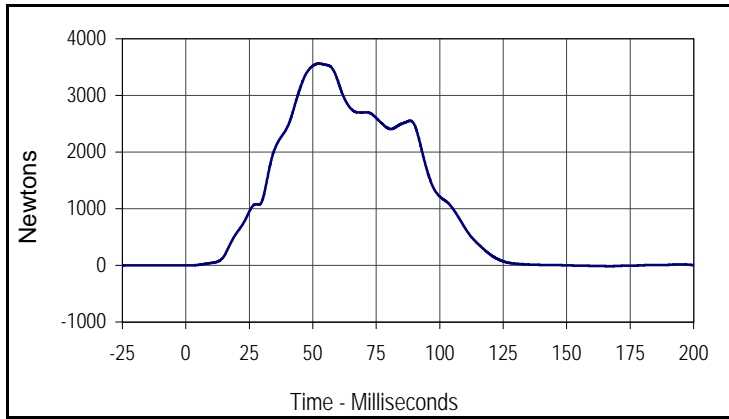
Curve Description			
Passenger Right Foot Aft Z			
CURNO	Type	SAE Class	Units
083	FIL	180	G's
Max	Time	Min	Time
27.5	71.9	-49.0	44.0



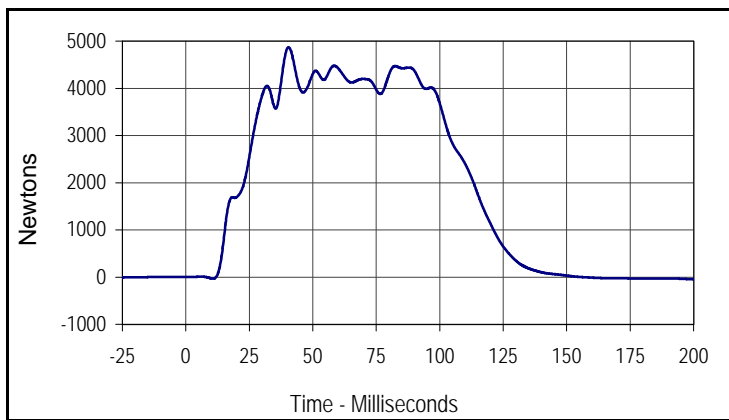
Curve Description			
Passenger Right Foot Fore Z			
CURNO	Type	SAE Class	Units
084	FIL	180	G's
Max	Time	Min	Time
54.0	72.4	-62.3	39.1

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

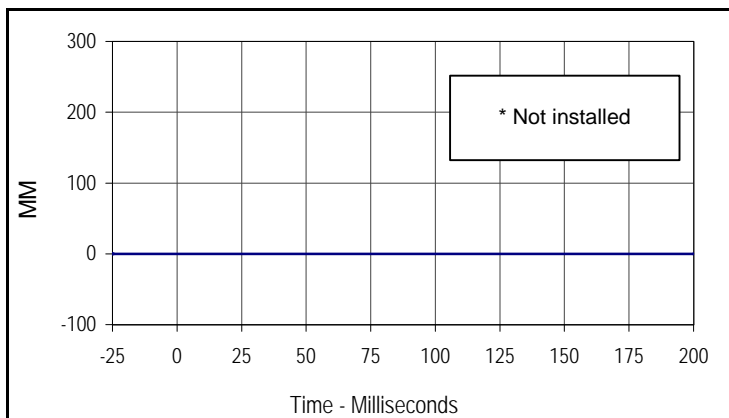
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Passenger Lap Belt Force			
CURNO	Type	SAE Class	Units
085	FIL	60	Newtons
Max	Time	Min	Time
3562.6	52.4	-14.8	166.9

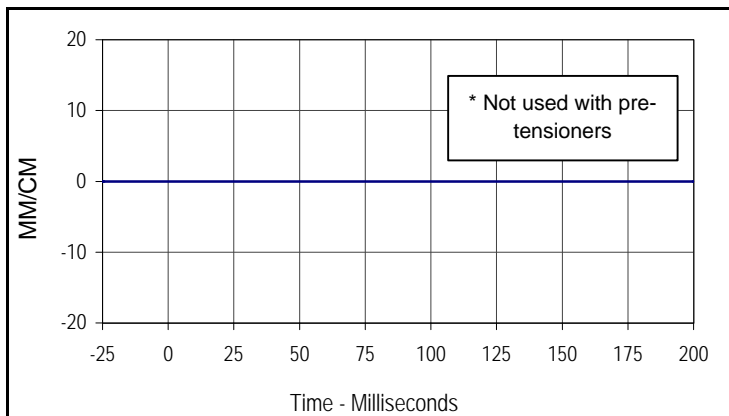


Curve Description			
Passenger Shoulder Belt Force			
CURNO	Type	SAE Class	Units
086	FIL	60	Newtons
Max	Time	Min	Time
4871.7	40.4	-45.2	198.8



Curve Description			
Passenger Shoulder Belt Pullout			
CURNO	Type	SAE Class	Units
087	FIL	60	MM
Max	Time	Min	Time
0.0	0.0	0.0	0.0

* Not installed

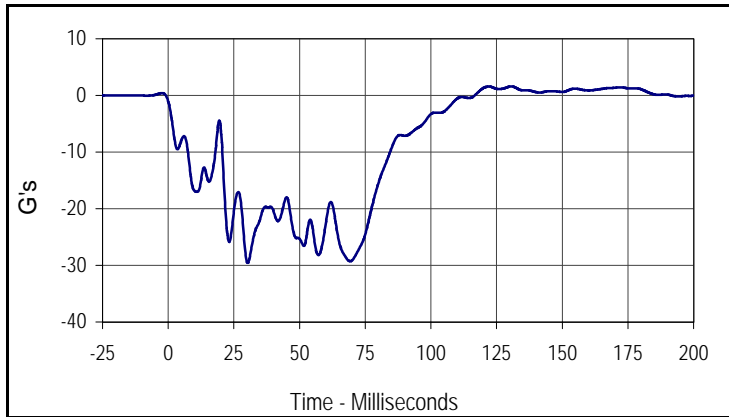


Curve Description			
Passenger Shoulder Belt Elongation			
CURNO	Type	SAE Class	Units
088	FIL	60	MM/CM
Max	Time	Min	Time
0.0	0.0	0.0	0.0

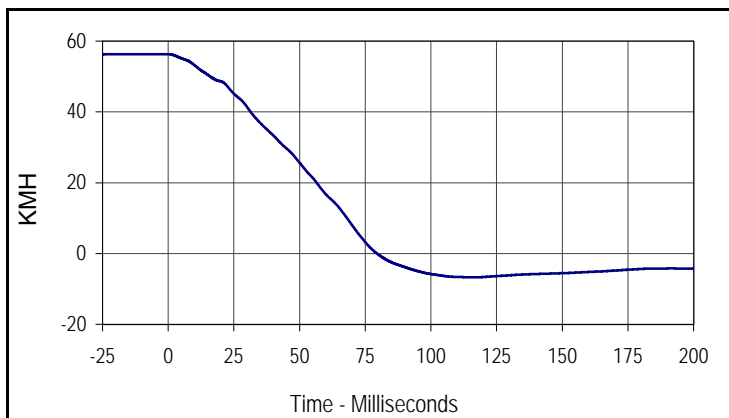
* Not used with pre-tensioners

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

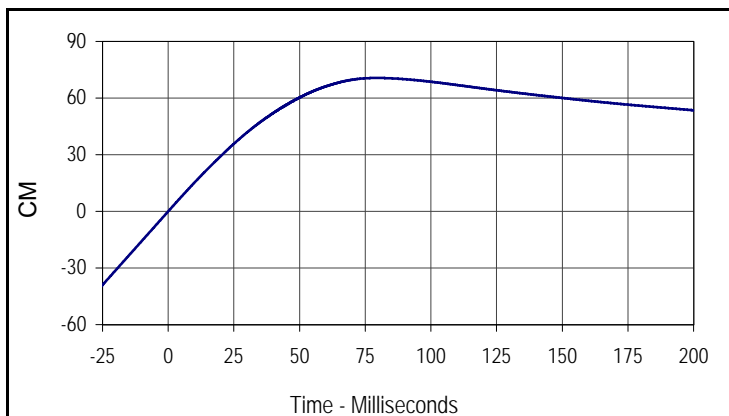
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Vehicle Left Rear X			
CURNO	Type	SAE Class	Units
089	FIL	60	G's
Max	Time	Min	Time
1.6	130.5	-29.6	30.3



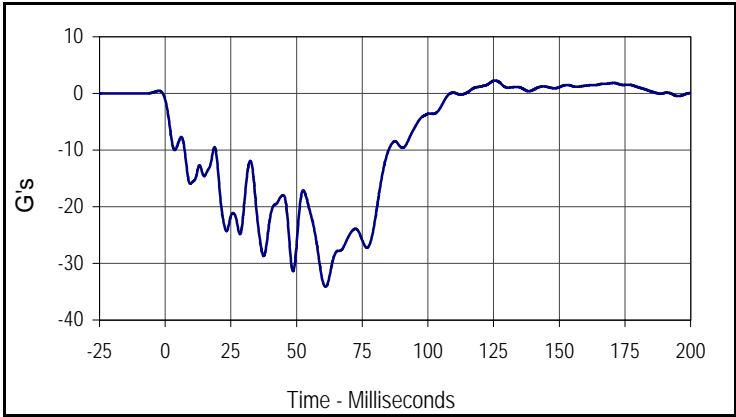
Curve Description			
Vehicle Left Rear X Velocity			
CURNO	Type	SAE Class	Units
089	IN1	180	KMH
Max	Time	Min	Time
56.3	0.0	-6.7	116.7



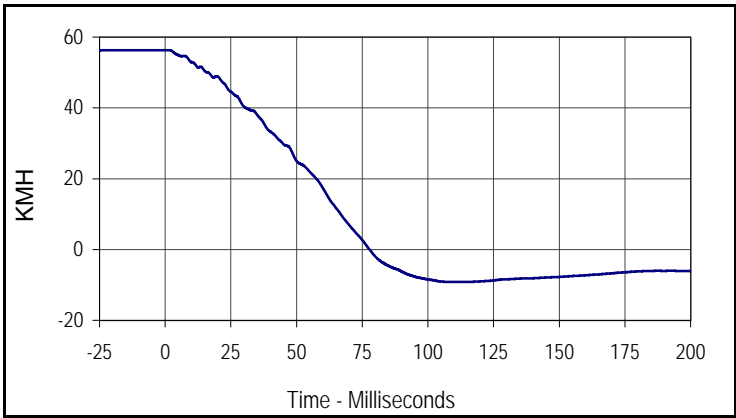
Curve Description			
Vehicle Left Rear X Displacement			
CURNO	Type	SAE Class	Units
089	IN2	180	CM
Max	Time	Min	Time
70.7	79.4	0.0	0.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

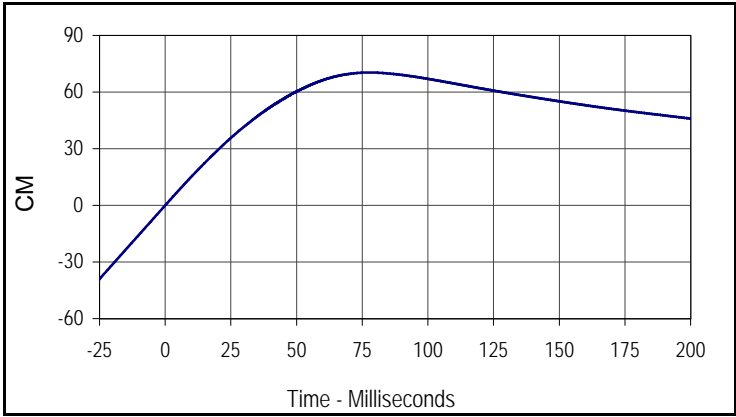
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Vehicle Right Rear X			
CURNO	Type	SAE Class	Units
090	FIL	60	G's
Max	Time	Min	Time
2.3	125.5	-34.1	61.1



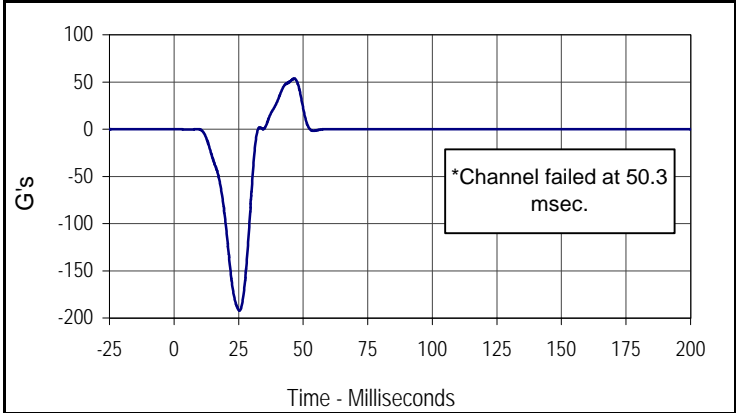
Curve Description			
Vehicle Right Rear X Velocity			
CURNO	Type	SAE Class	Units
090	IN1	180	KMH
Max	Time	Min	Time
56.3	1.5	-9.2	115.8



Curve Description			
Vehicle Right Rear X Displacement			
CURNO	Type	SAE Class	Units
090	IN2	180	CM
Max	Time	Min	Time
70.4	77.8	0.0	0.0

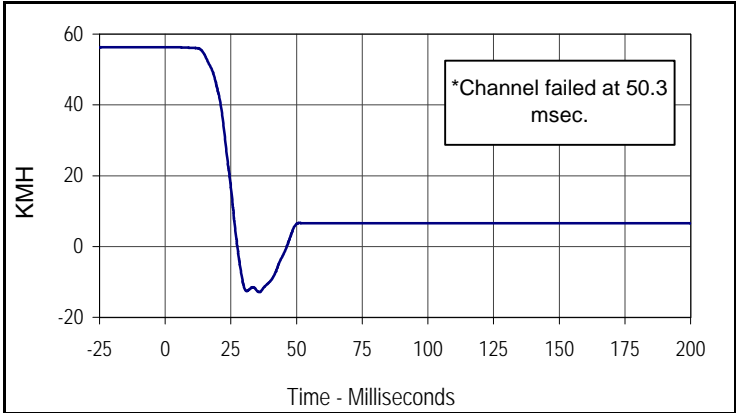
Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04
 NHTSA No.: M55302



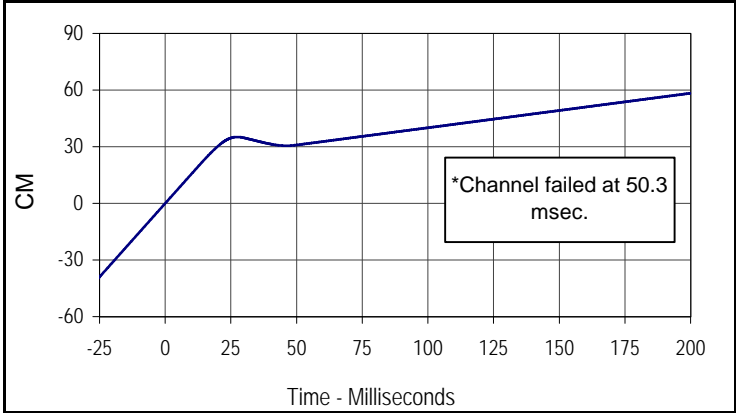
Curve Description			
Vehicle Engine Top X			
CURNO	Type	SAE Class	Units
091	FIL	60	G's
Max	Time	Min	Time
53.5	46.5	-192.1	25.3

* Channel failed at 50.3 msec.



Curve Description			
Vehicle Engine Top X Velocity			
CURNO	Type	SAE Class	Units
091	IN1	180	KMH
Max	Time	Min	Time
56.3	2.9	-12.9	35.8

* Channel failed at 50.3 msec.

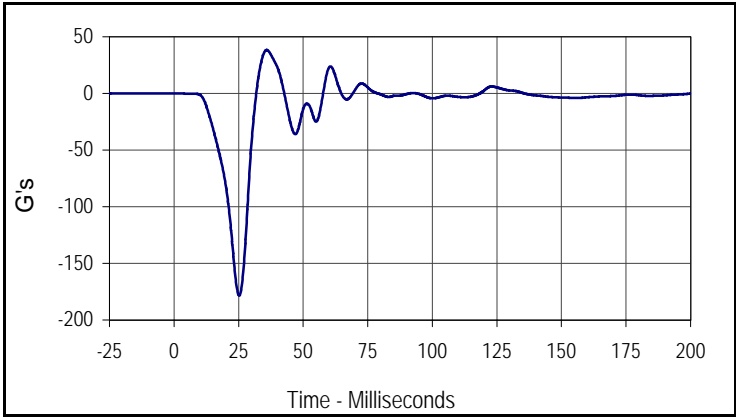


Curve Description			
Vehicle Engine Top X Displacement			
CURNO	Type	SAE Class	Units
091	IN2	180	CM
Max	Time	Min	Time
58.3	200.0	0.0	0.0

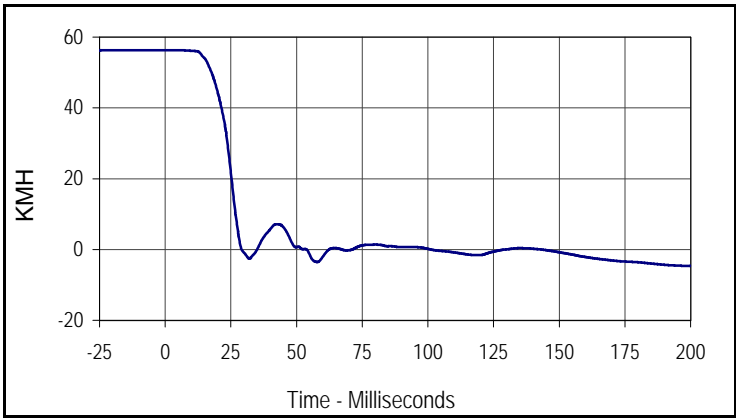
* Channel failed at 50.3 msec.

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

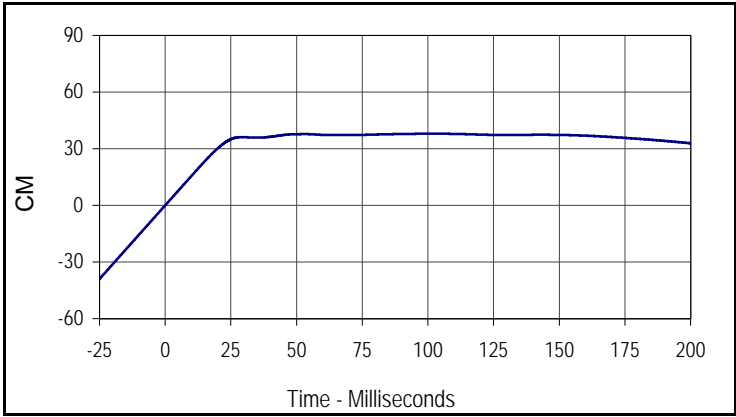
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Vehicle Engine Bottom X			
CURNO	Type	SAE Class	Units
092	FIL	60	G's
Max	Time	Min	Time
38.3	35.9	-178.5	25.2



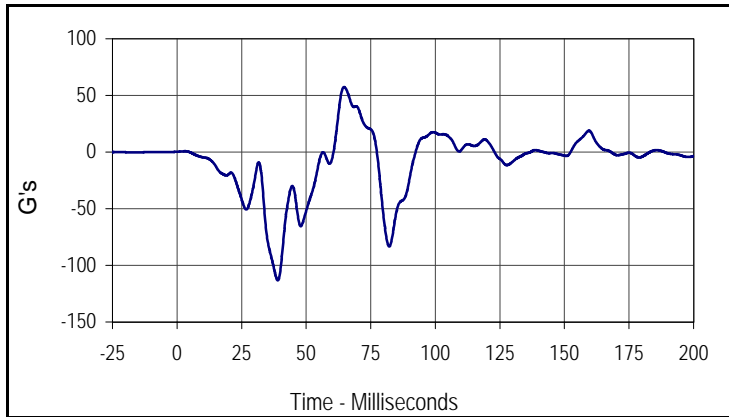
Curve Description			
Vehicle Engine Bottom X Velocity			
CURNO	Type	SAE Class	Units
092	IN1	180	KMH
Max	Time	Min	Time
56.3	2.4	-4.7	200.0



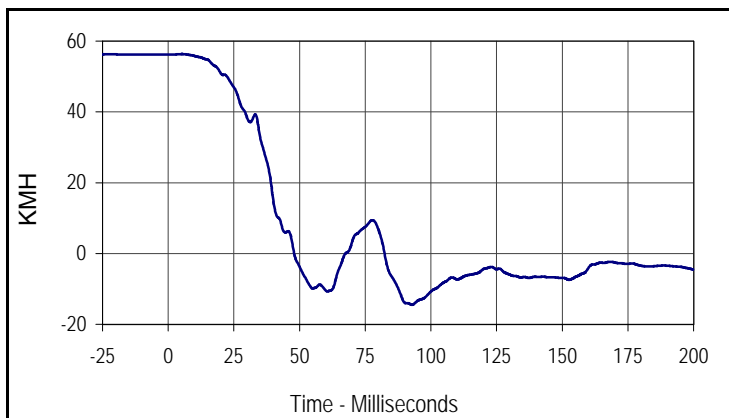
Curve Description			
Vehicle Engine Bottom X Displacement			
CURNO	Type	SAE Class	Units
092	IN2	180	CM
Max	Time	Min	Time
37.9	101.1	0.0	0.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

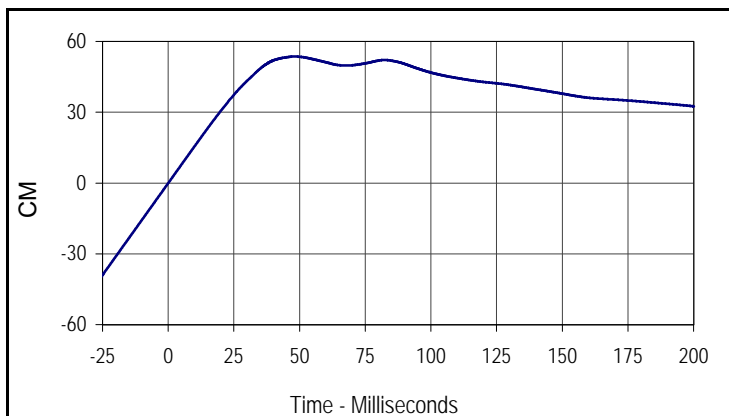
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Vehicle Left Brake Caliper X			
CURNO	Type	SAE Class	Units
093	FIL	60	G's
Max	Time	Min	Time
57.3	64.6	-113.4	39.0



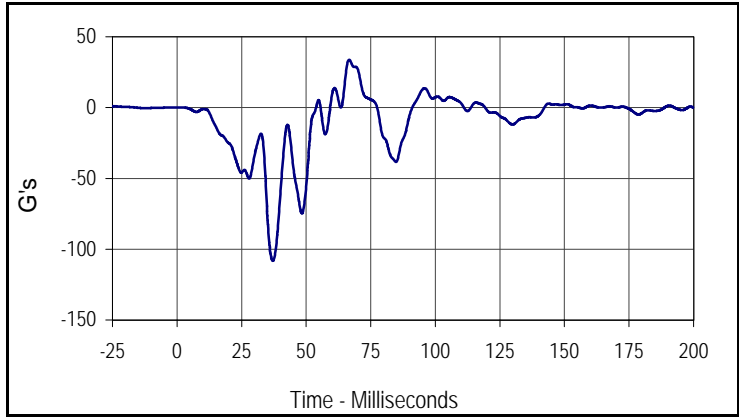
Curve Description			
Vehicle Left Brake Caliper X Velocity			
CURNO	Type	SAE Class	Units
093	IN1	180	KMH
Max	Time	Min	Time
56.3	5.3	-14.5	92.8



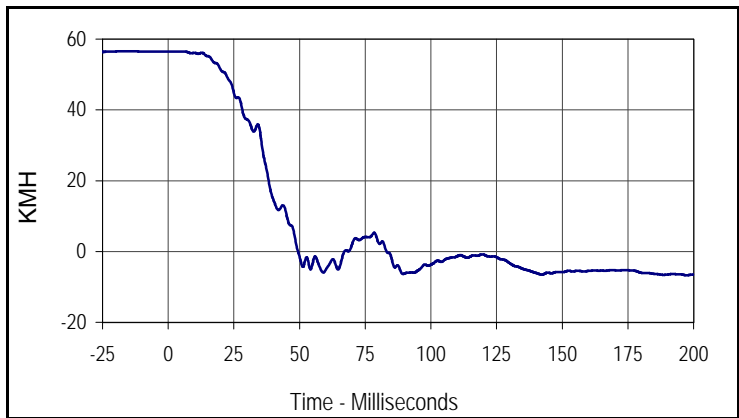
Curve Description			
Vehicle Left Brake Caliper X Displacement			
CURNO	Type	SAE Class	Units
093	IN2	180	CM
Max	Time	Min	Time
53.6	47.9	0.0	0.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

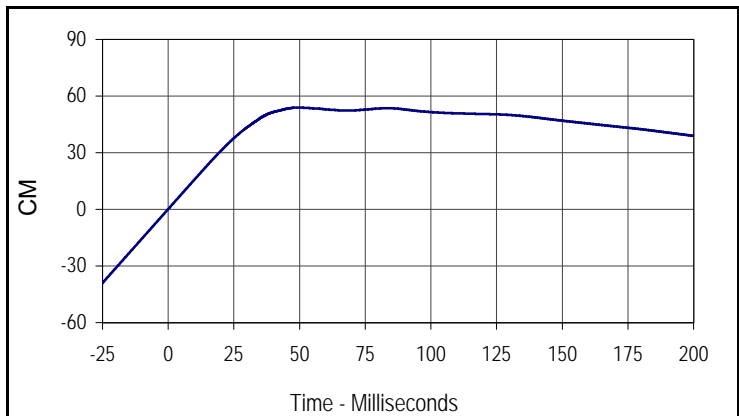
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Vehicle Right Brake Caliper X			
CURNO	Type	SAE Class	Units
094	FIL	60	G's
Max	Time	Min	Time
33.8	66.6	-108.1	37.1



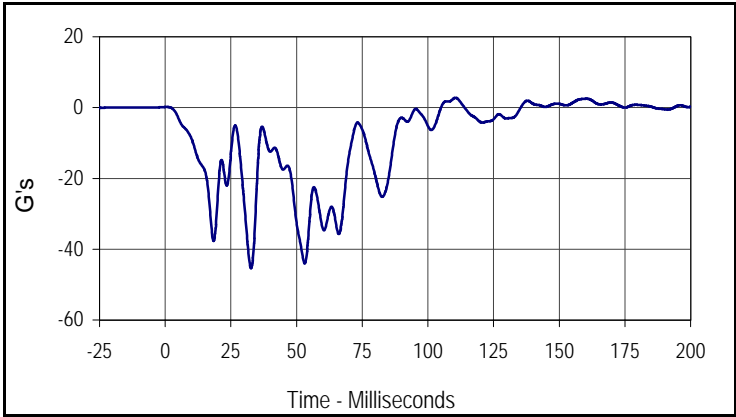
Curve Description			
Vehicle Right Brake Caliper X Velocity			
CURNO	Type	SAE Class	Units
094	IN1	180	KMH
Max	Time	Min	Time
56.5	0.0	-6.7	197.3



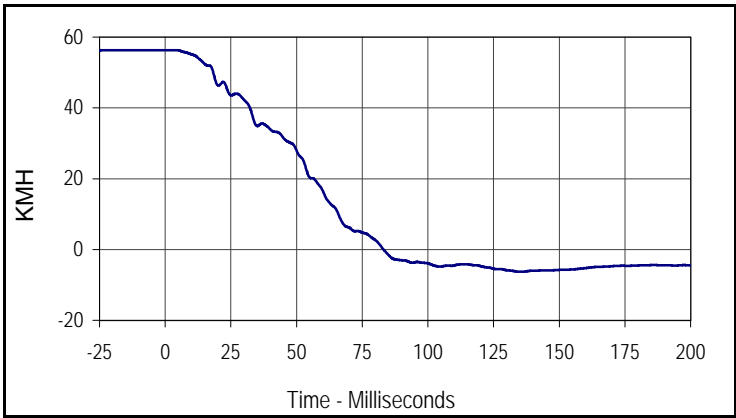
Curve Description			
Vehicle Right Brake Caliper X Displacement			
CURNO	Type	SAE Class	Units
094	IN2	180	CM
Max	Time	Min	Time
54.0	49.4	0.2	0.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

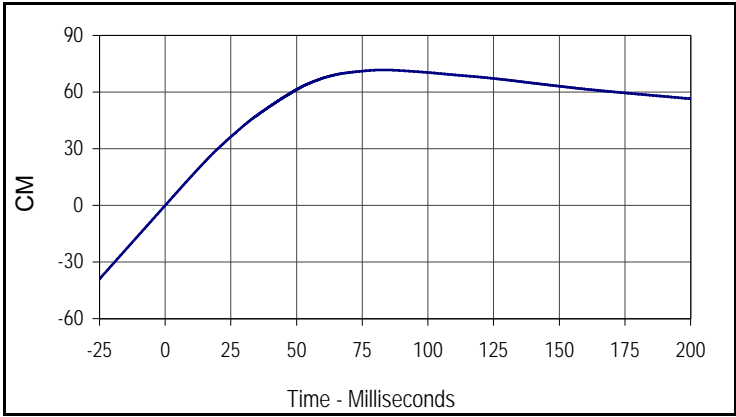
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Vehicle Instrument Panel X			
CURNO	Type	SAE Class	Units
095	FIL	60	G's
Max	Time	Min	Time
2.8	110.5	-45.4	32.7



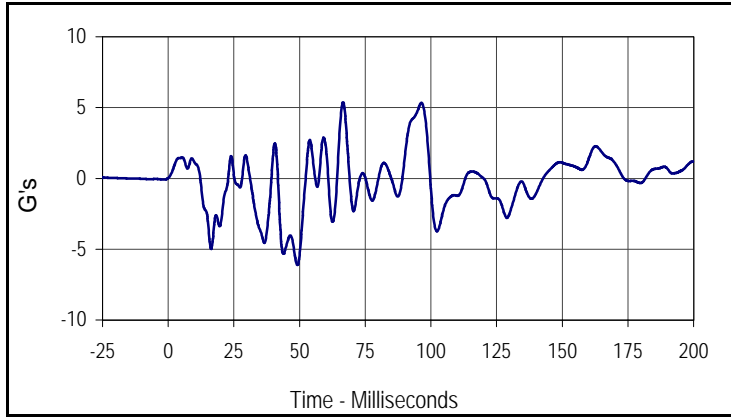
Curve Description			
Vehicle Instrument Panel X Velocity			
CURNO	Type	SAE Class	Units
095	IN1	180	KMH
Max	Time	Min	Time
56.3	4.4	-6.3	134.9



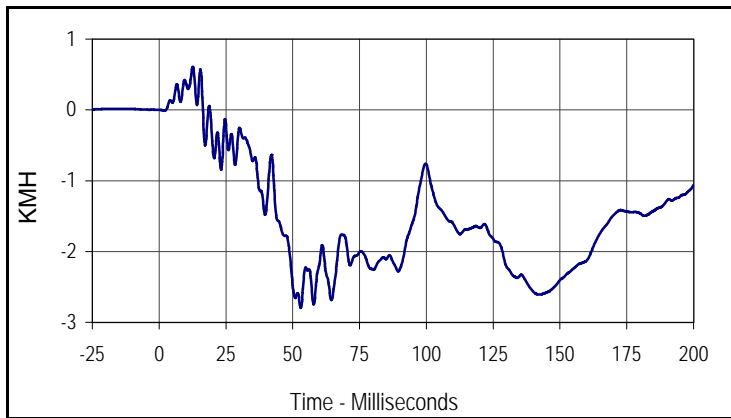
Curve Description			
Vehicle Instrument Panel X Displacement			
CURNO	Type	SAE Class	Units
095	IN2	180	CM
Max	Time	Min	Time
71.8	83.1	0.0	0.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

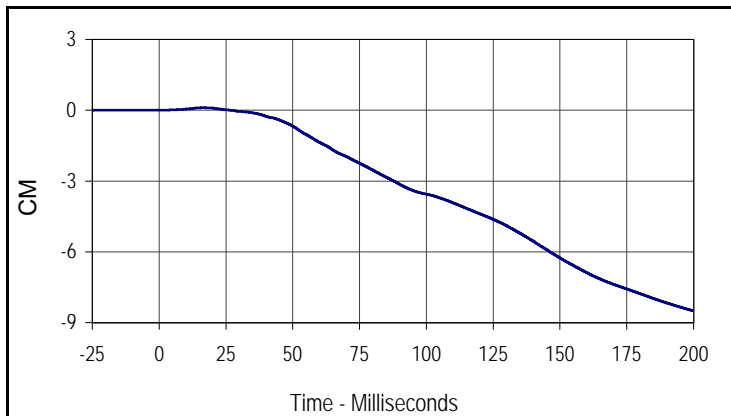
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Vehicle Left Rear Z			
CURNO	Type	SAE Class	Units
096	FIL	60	G's
Max	Time	Min	Time
5.4	66.5	-6.1	49.2



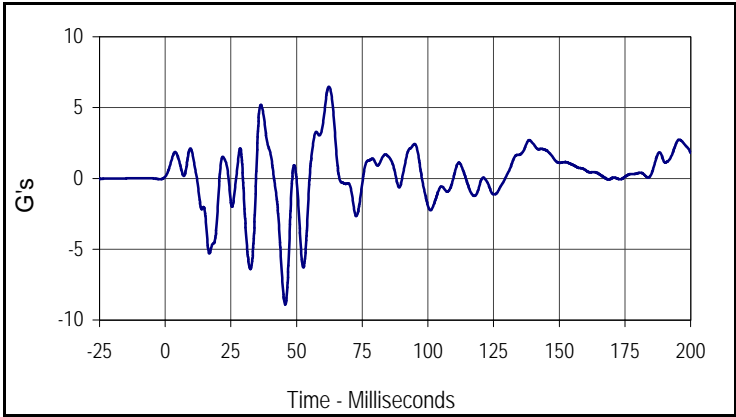
Curve Description			
Vehicle Left Rear Z Velocity			
CURNO	Type	SAE Class	Units
096	IN1	180	KMH
Max	Time	Min	Time
0.6	12.6	-2.8	53.0



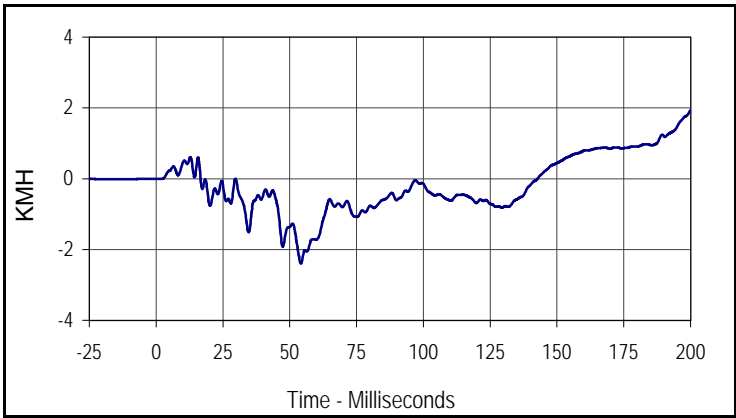
Curve Description			
Vehicle Left Rear Z Displacement			
CURNO	Type	SAE Class	Units
096	IN2	180	CM
Max	Time	Min	Time
0.1	16.4	-8.5	200.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

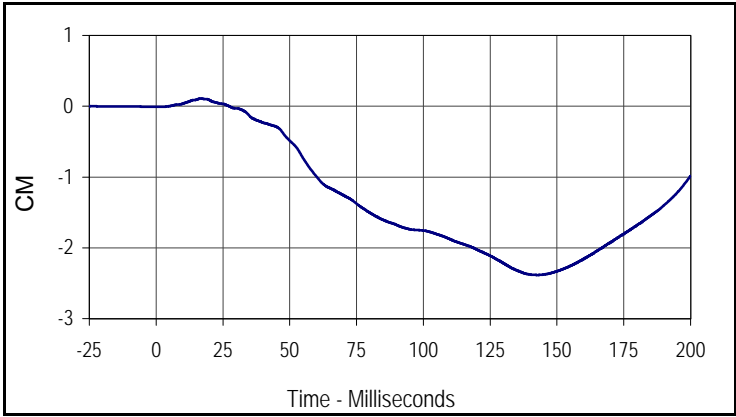
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Vehicle Right Rear Z			
CURNO	Type	SAE Class	Units
097	FIL	60	G's
Max	Time	Min	Time
6.5	62.3	-8.9	45.7



Curve Description			
Vehicle Right Rear Z Velocity			
CURNO	Type	SAE Class	Units
097	IN1	180	KMH
Max	Time	Min	Time
1.9	200.0	-2.4	54.2



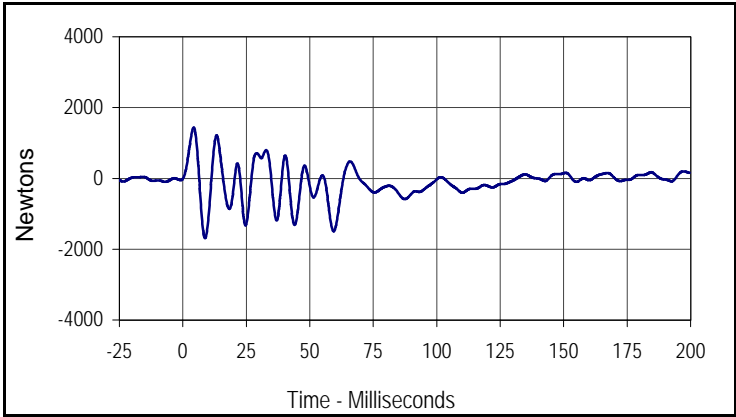
Curve Description			
Vehicle Right Rear Z Displacement			
CURNO	Type	SAE Class	Units
097	IN2	180	CM
Max	Time	Min	Time
0.1	16.7	-2.4	142.8

APPENDIX C

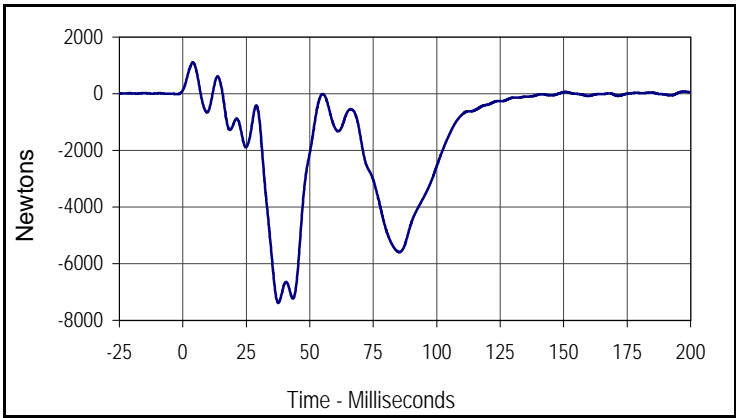
LOAD CELL BARRIER DATA PLOTS

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

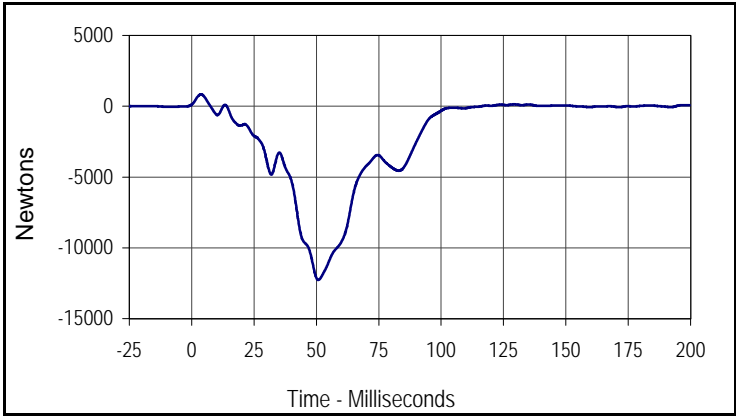
Test Date: 12/16/04
 NHTSA No.: M55302



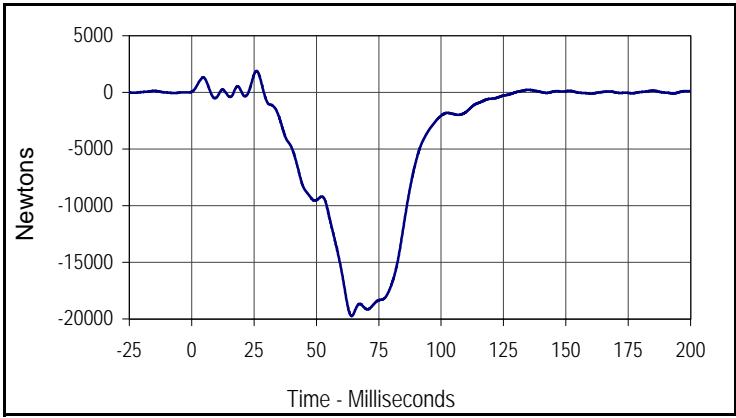
Curve Description			
Barrier Force A1			
CURNO	Type	SAE Class	Units
098	FIL	60	Newtons
Max	Time	Min	Time
1434.8	4.3	-1681.9	8.8



Curve Description			
Barrier Force B1			
CURNO	Type	SAE Class	Units
107	FIL	60	Newtons
Max	Time	Min	Time
1106.9	4.0	-7389.7	37.6



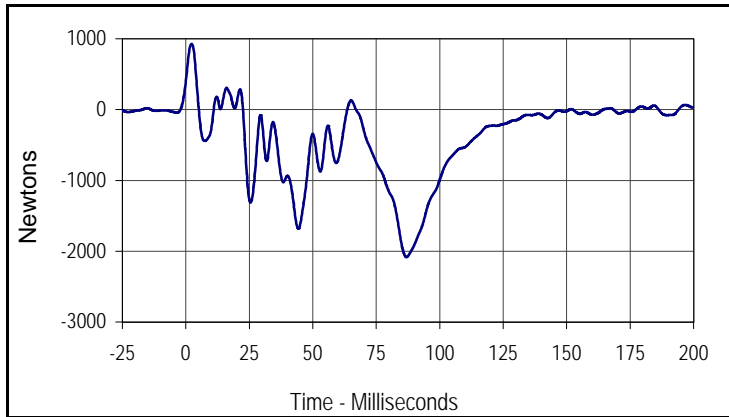
Curve Description			
Barrier Force C1			
CURNO	Type	SAE Class	Units
116	FIL	60	Newtons
Max	Time	Min	Time
840.1	3.7	-12268.0	50.8



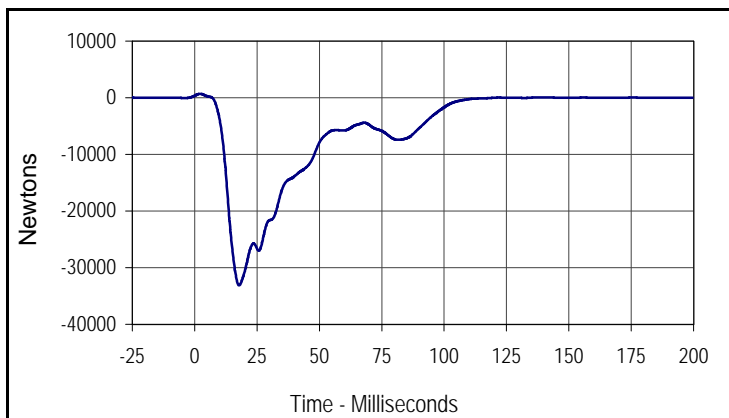
Curve Description			
Barrier Force D1			
CURNO	Type	SAE Class	Units
125	FIL	60	Newtons
Max	Time	Min	Time
1894.7	26.0	-19738.0	64.1

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

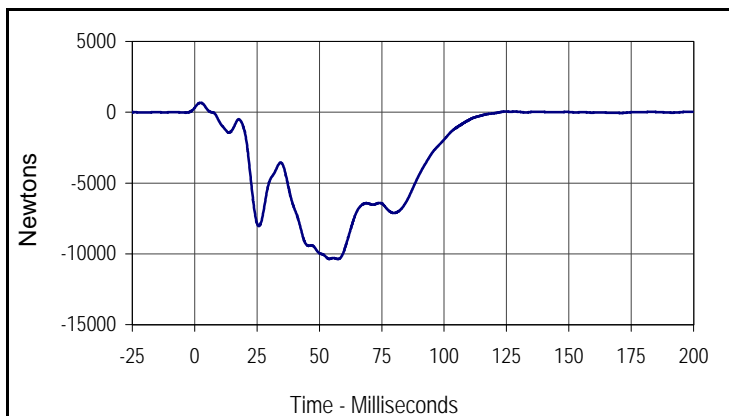
Test Date: 12/16/04
 NHTSA No.: M55302



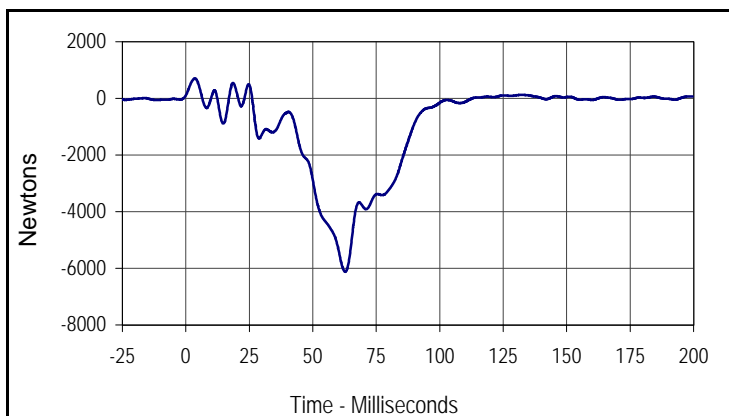
Curve Description			
Barrier Force A2			
CURNO	Type	SAE Class	Units
099	FIL	60	Newtons
Max	Time	Min	Time
925.6	2.2	-2083.9	86.9



Curve Description			
Barrier Force B2			
CURNO	Type	SAE Class	Units
108	FIL	60	Newtons
Max	Time	Min	Time
687.9	2.2	-33134.4	17.8



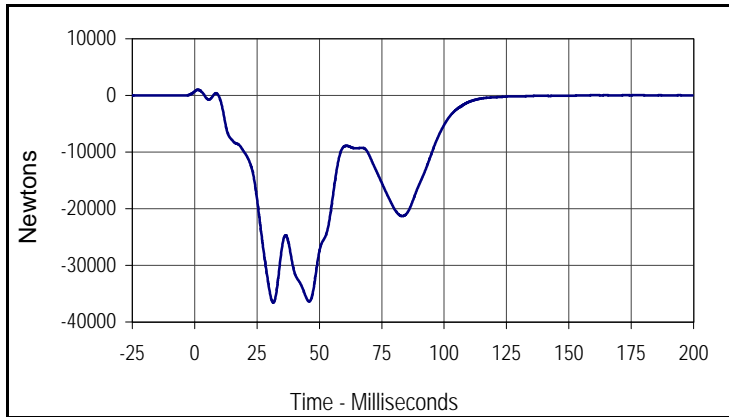
Curve Description			
Barrier Force C2			
CURNO	Type	SAE Class	Units
117	FIL	60	Newtons
Max	Time	Min	Time
662.7	2.5	-10367.6	57.5



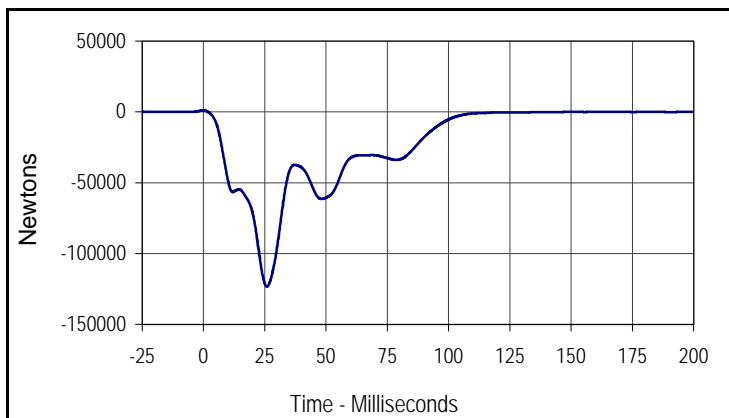
Curve Description			
Barrier Force D2			
CURNO	Type	SAE Class	Units
126	FIL	60	Newtons
Max	Time	Min	Time
704.1	3.6	-6118.7	62.8

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

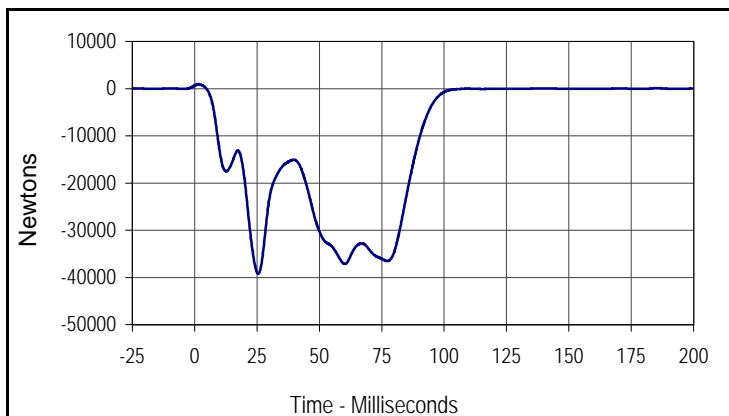
Test Date: 12/16/04
 NHTSA No.: M55302



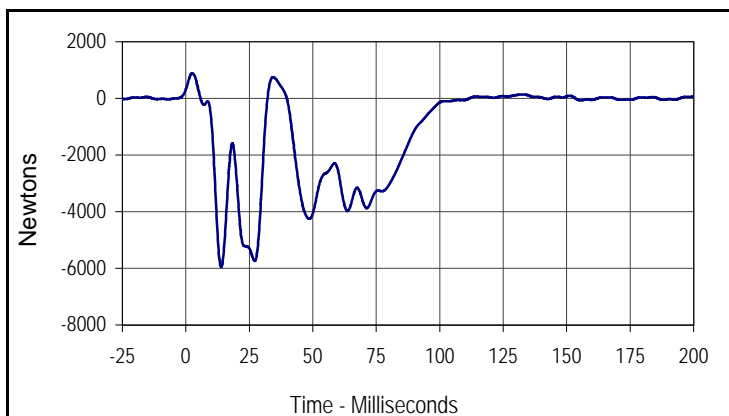
Curve Description			
Barrier Force A3			
CURNO	Type	SAE Class	Units
100	FIL	60	Newtons
Max	Time	Min	Time
995.3	1.2	-36585.6	31.5



Curve Description			
Barrier Force B3			
CURNO	Type	SAE Class	Units
109	FIL	60	Newtons
Max	Time	Min	Time
1105.0	0.0	-123327.9	25.9



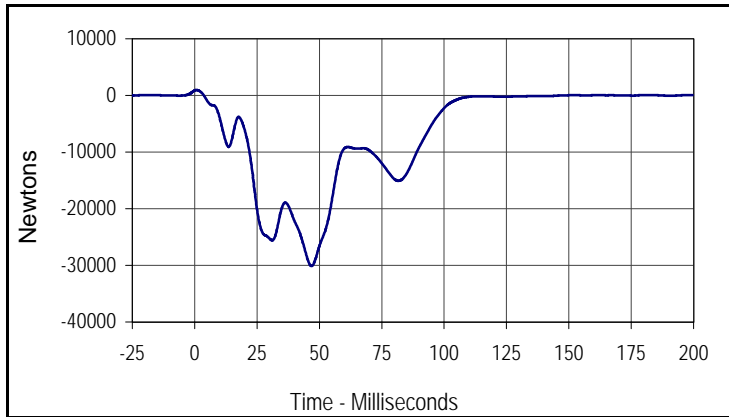
Curve Description			
Barrier Force C3			
CURNO	Type	SAE Class	Units
118	FIL	60	Newtons
Max	Time	Min	Time
904.1	1.3	-39213.0	25.5



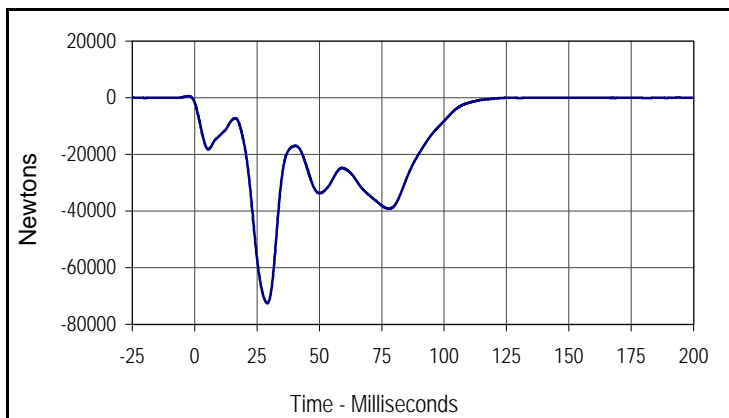
Curve Description			
Barrier Force D3			
CURNO	Type	SAE Class	Units
127	FIL	60	Newtons
Max	Time	Min	Time
876.1	2.4	-5952.8	13.9

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

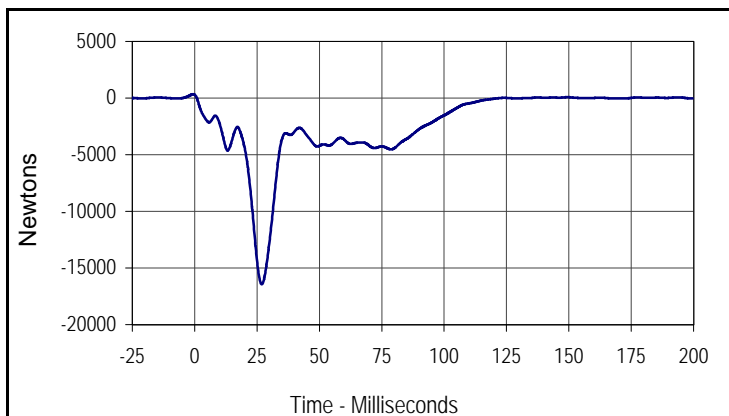
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 NHTSA No.: M55302



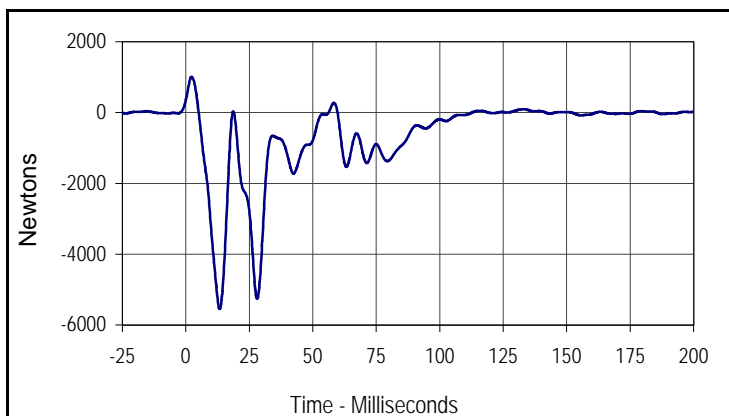
Curve Description			
Barrier Force A4			
CURNO	Type	SAE Class	Units
101	FIL	60	Newtons
Max	Time	Min	Time
949.1	0.7	-30128.6	46.8



Curve Description			
Barrier Force B4			
CURNO	Type	SAE Class	Units
110	FIL	60	Newtons
Max	Time	Min	Time
63.6	193.8	-72531.9	29.1



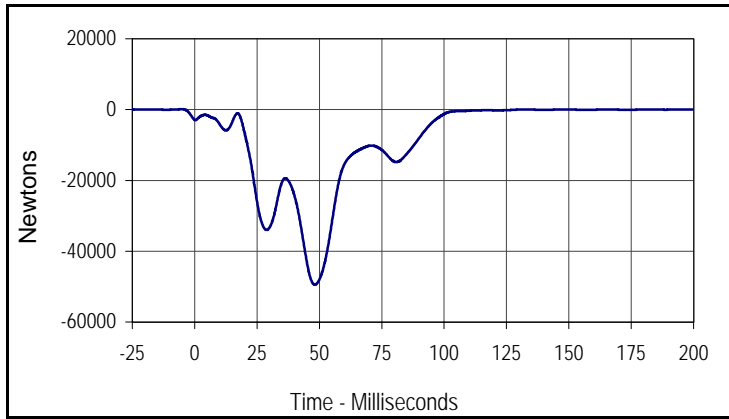
Curve Description			
Barrier Force C4			
CURNO	Type	SAE Class	Units
119	FIL	60	Newtons
Max	Time	Min	Time
291.1	0.0	-16447.0	26.9



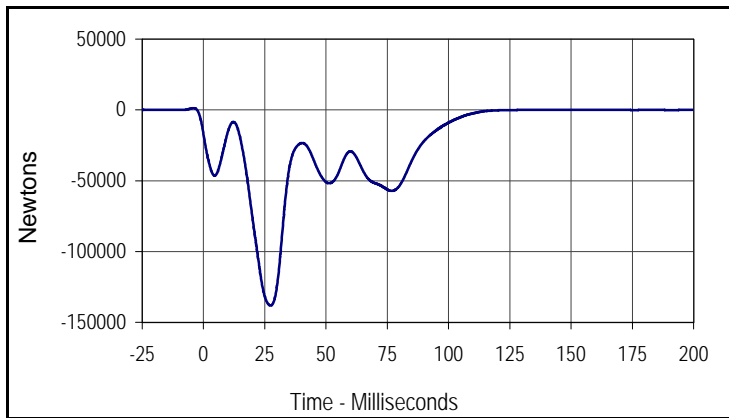
Curve Description			
Barrier Force D4			
CURNO	Type	SAE Class	Units
128	FIL	60	Newtons
Max	Time	Min	Time
1004.1	2.3	-5550.1	13.3

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

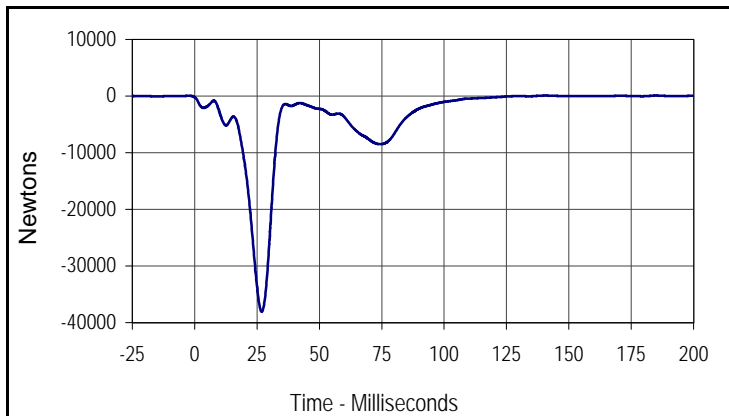
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 NHTSA No.: M55302



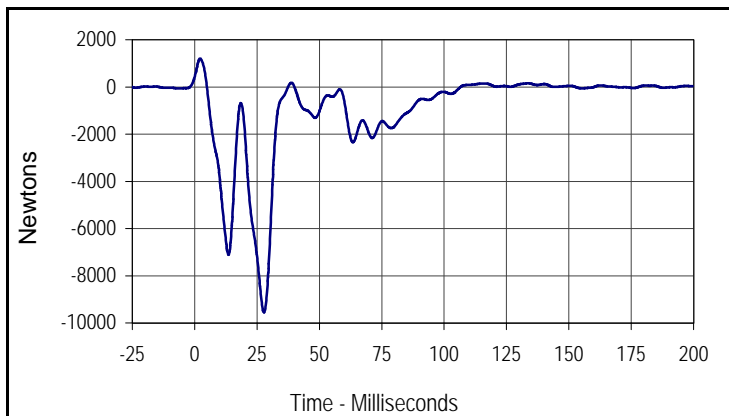
Curve Description			
Barrier Force A5			
CURNO	Type	SAE Class	Units
102	FIL	60	Newtons
Max	Time	Min	Time
63.2	179.5	-49442.2	48.2



Curve Description			
Barrier Force B5			
CURNO	Type	SAE Class	Units
111	FIL	60	Newtons
Max	Time	Min	Time
60.5	184.9	-138112.9	27.4



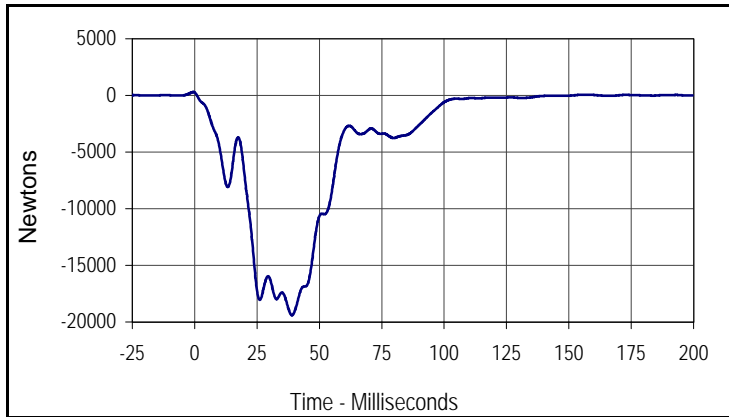
Curve Description			
Barrier Force C5			
CURNO	Type	SAE Class	Units
120	FIL	60	Newtons
Max	Time	Min	Time
91.3	184.9	-38054.1	26.9



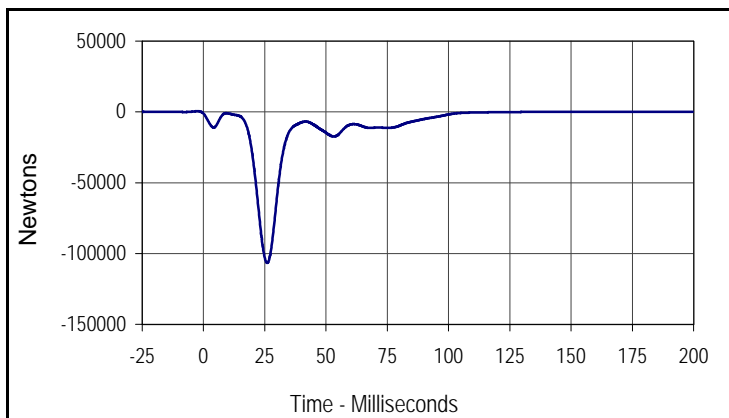
Curve Description			
Barrier Force D5			
CURNO	Type	SAE Class	Units
129	FIL	60	Newtons
Max	Time	Min	Time
1206.6	2.2	-9546.5	27.8

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

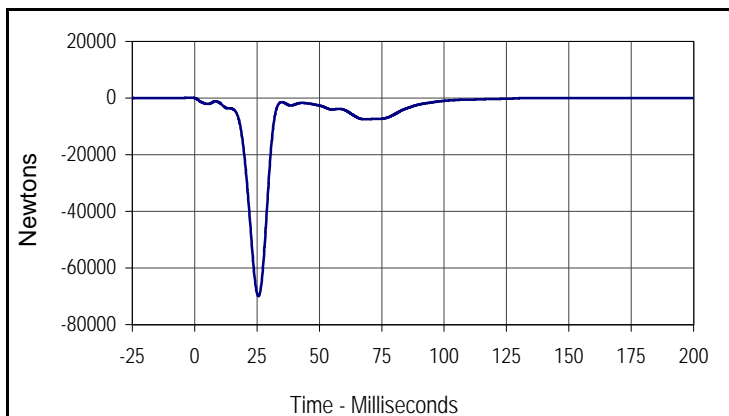
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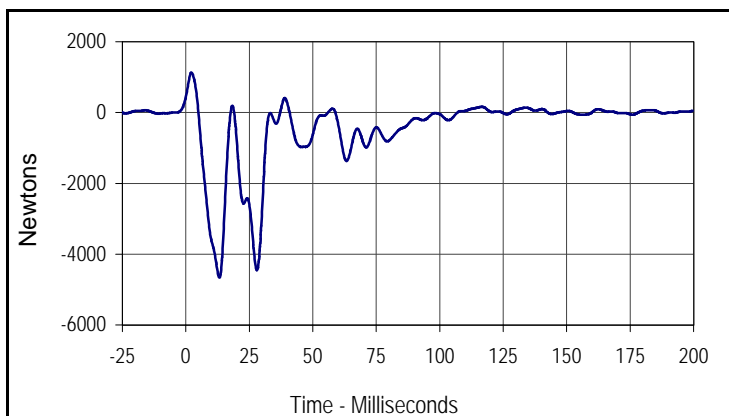
Curve Description			
Barrier Force A6			
CURNO	Type	SAE Class	Units
103	FIL	60	Newtons
Max	Time	Min	Time
265.9	0.0	-19397.8	39.0



Curve Description			
Barrier Force B6			
CURNO	Type	SAE Class	Units
112	FIL	60	Newtons
Max	Time	Min	Time
68.7	162.8	-106665.1	26.0



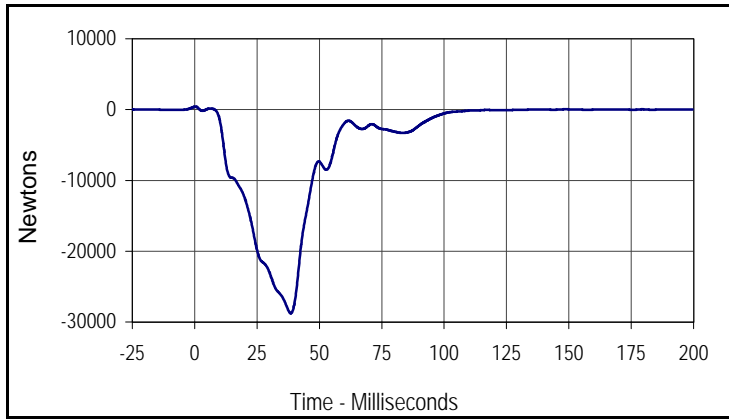
Curve Description			
Barrier Force C6			
CURNO	Type	SAE Class	Units
121	FIL	60	Newtons
Max	Time	Min	Time
50.5	145.6	-69971.3	25.6



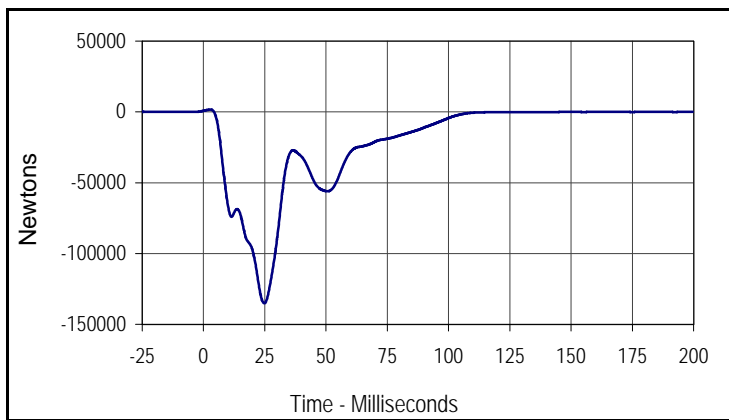
Curve Description			
Barrier Force D6			
CURNO	Type	SAE Class	Units
130	FIL	60	Newtons
Max	Time	Min	Time
1127.1	2.2	-4663.2	13.2

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

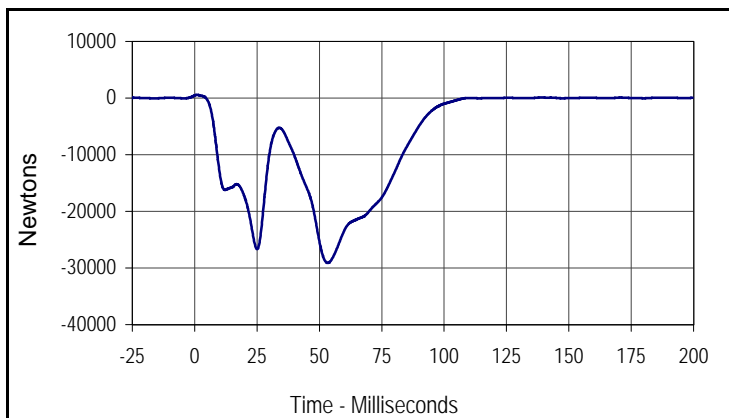
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 NHTSA No.: M55302



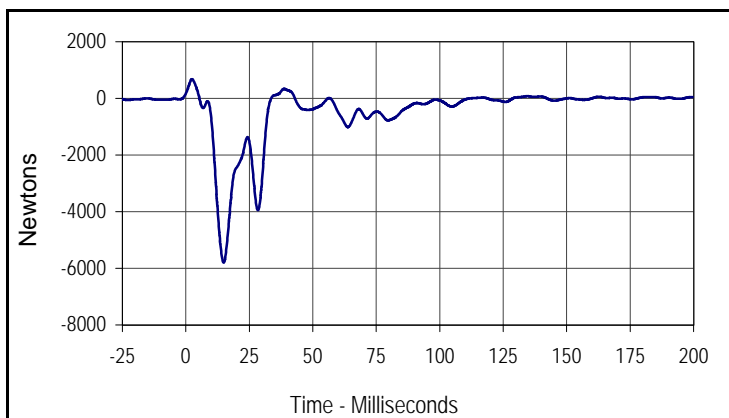
Curve Description			
Barrier Force A7			
CURNO	Type	SAE Class	Units
104	FIL	60	Newtons
Max	Time	Min	Time
417.5	0.3	-28764.8	38.5



Curve Description			
Barrier Force B7			
CURNO	Type	SAE Class	Units
113	FIL	60	Newtons
Max	Time	Min	Time
1691.2	2.8	-135188.4	24.8



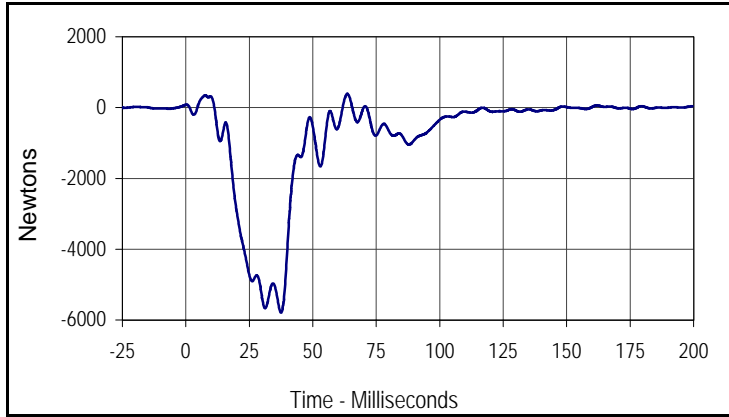
Curve Description			
Barrier Force C7			
CURNO	Type	SAE Class	Units
122	FIL	60	Newtons
Max	Time	Min	Time
574.0	0.9	-29103.6	53.3



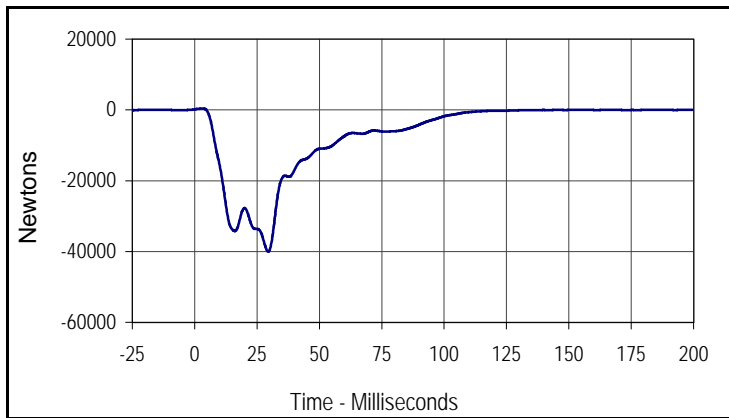
Curve Description			
Barrier Force D7			
CURNO	Type	SAE Class	Units
131	FIL	60	Newtons
Max	Time	Min	Time
677.8	2.4	-5793.6	14.9

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

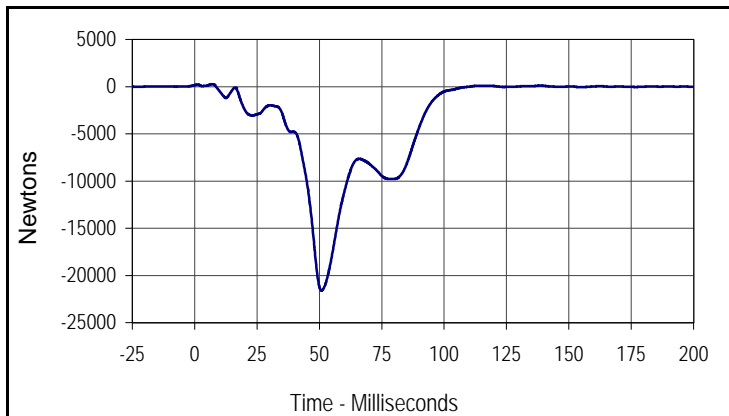
Test Date: 12/16/04
 NHTSA No.: M55302



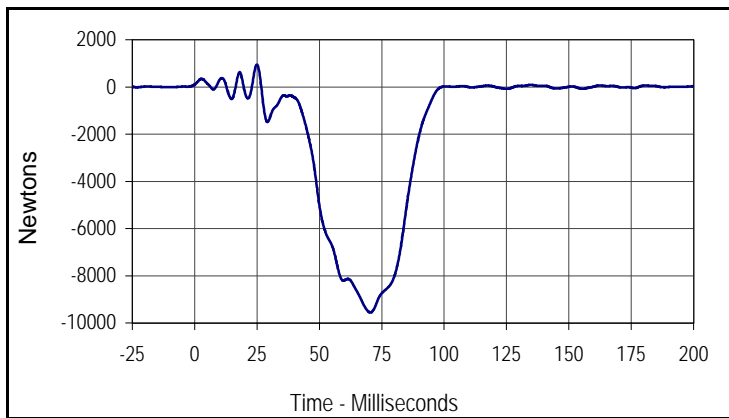
Curve Description			
Barrier Force A8			
CURNO	Type	SAE Class	Units
105	FIL	60	Newtons
Max	Time	Min	Time
386.7	63.6	-5794.5	37.5



Curve Description			
Barrier Force B8			
CURNO	Type	SAE Class	Units
114	FIL	60	Newtons
Max	Time	Min	Time
393.2	3.2	-40051.5	29.5



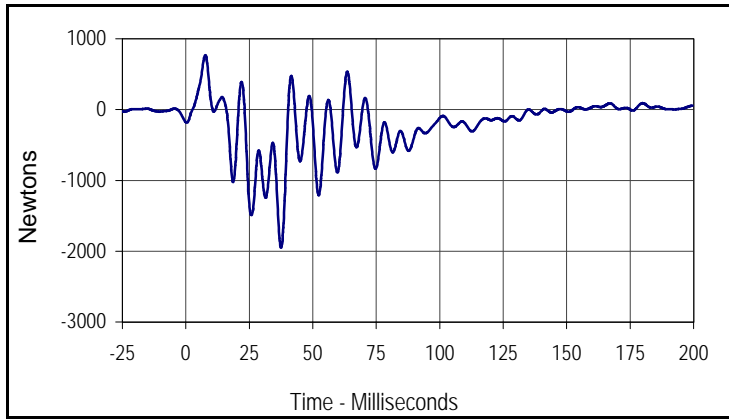
Curve Description			
Barrier Force C8			
CURNO	Type	SAE Class	Units
123	FIL	60	Newtons
Max	Time	Min	Time
263.4	6.9	-21597.4	50.9



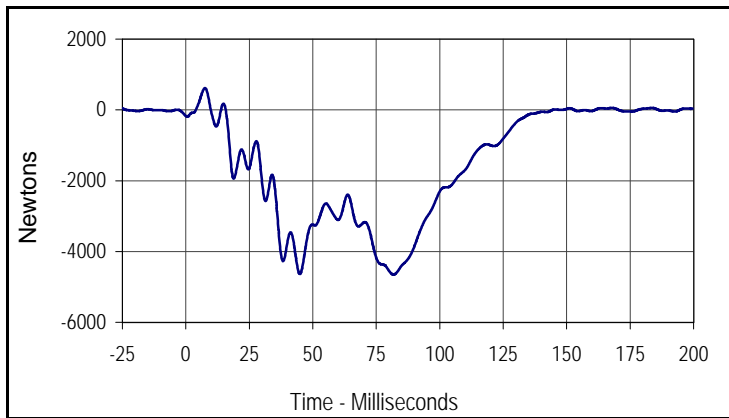
Curve Description			
Barrier Force D8			
CURNO	Type	SAE Class	Units
132	FIL	60	Newtons
Max	Time	Min	Time
947.7	24.9	-9554.8	70.4

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

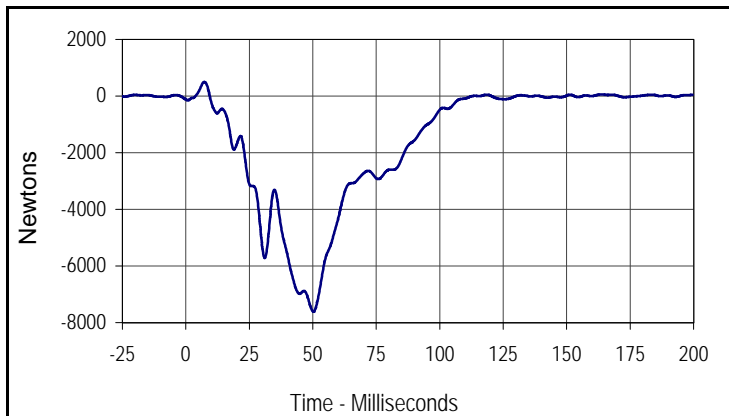
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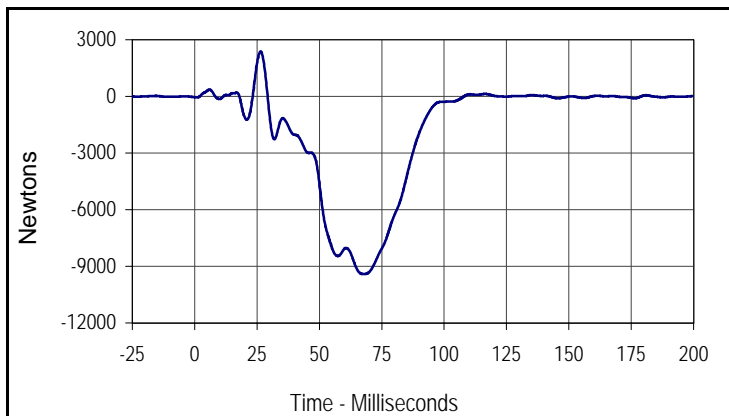
Curve Description			
Barrier Force A9			
CURNO	Type	SAE Class	Units
106	FIL	60	Newtons
Max	Time	Min	Time
768.9	7.7	-1951.1	37.5



Curve Description			
Barrier Force B9			
CURNO	Type	SAE Class	Units
115	FIL	60	Newtons
Max	Time	Min	Time
619.1	7.6	-4650.2	81.8



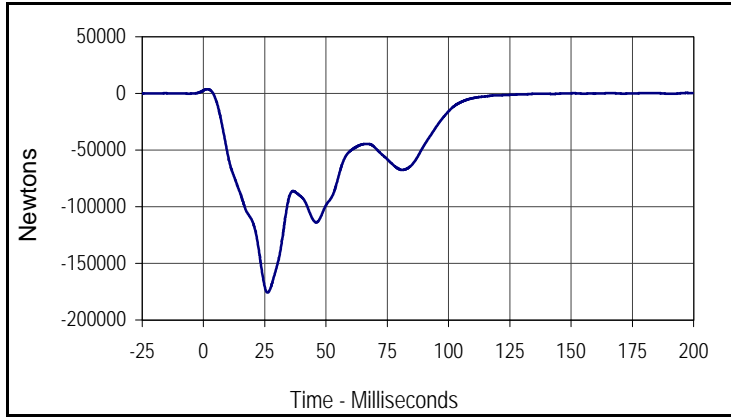
Curve Description			
Barrier Force C9			
CURNO	Type	SAE Class	Units
124	FIL	60	Newtons
Max	Time	Min	Time
494.0	7.2	-7612.1	50.3



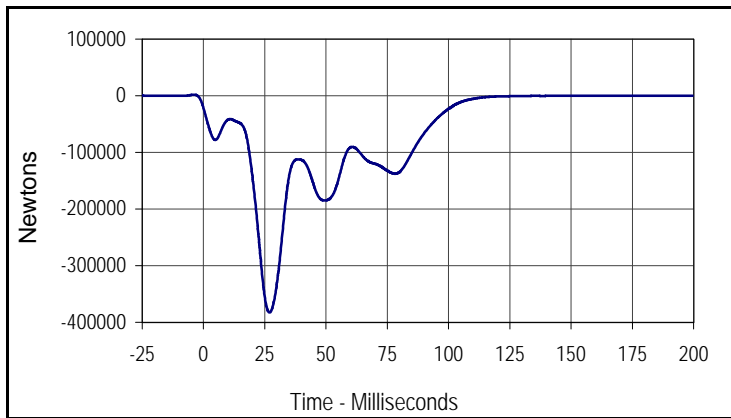
Curve Description			
Barrier Force D9			
CURNO	Type	SAE Class	Units
133	FIL	60	Newtons
Max	Time	Min	Time
2372.6	26.4	-9415.2	67.7

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

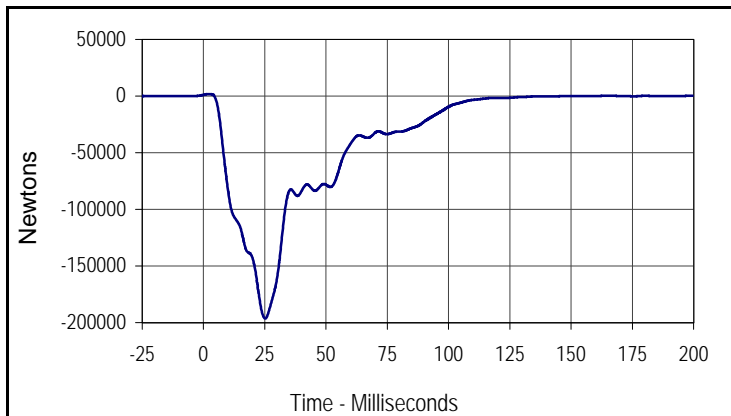
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Barrier Force Sum Group 1			
CURNO	Type	SAE Class	Units
001	SUM	60	Newtons
Max	Time	Min	Time
3642.1	1.5	-175829.6	26.2



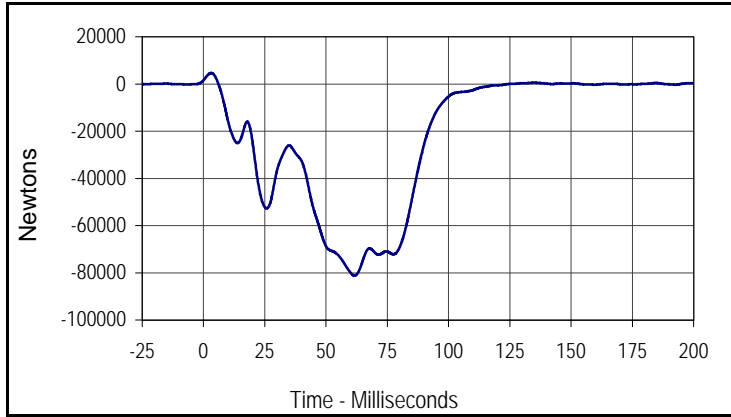
Curve Description			
Barrier Force Sum Group 2			
CURNO	Type	SAE Class	Units
002	SUM	60	Newtons
Max	Time	Min	Time
167.1	185.0	-382734.4	26.9



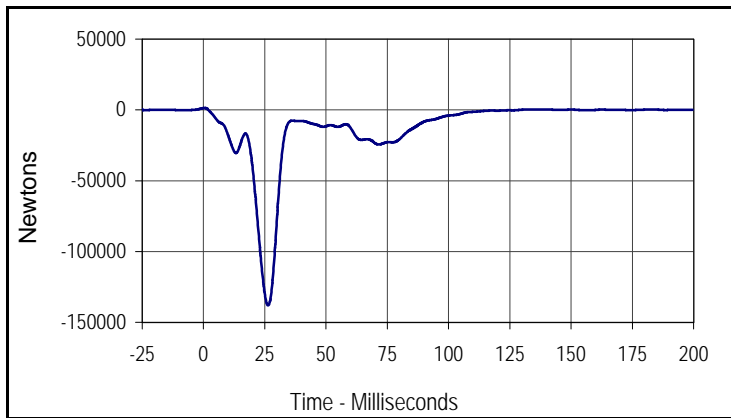
Curve Description			
Barrier Force Sum Group 3			
CURNO	Type	SAE Class	Units
003	SUM	60	Newtons
Max	Time	Min	Time
1673.5	2.7	-196366.6	25.2

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

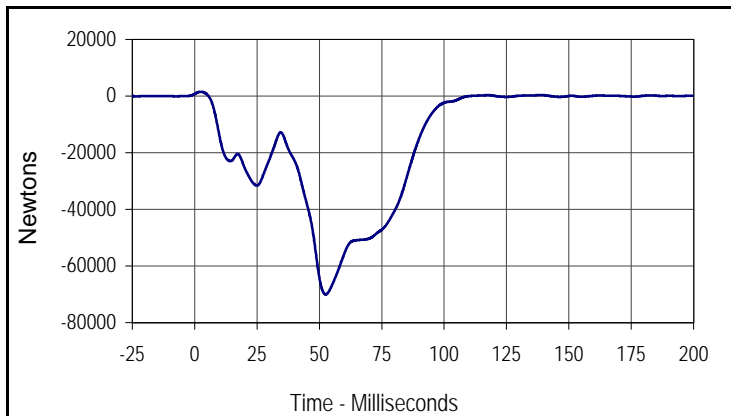
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Barrier Force Sum Group 4			
CURNO	Type	SAE Class	Units
004	SUM	60	Newtons
Max	Time	Min	Time
4634.6	3.2	-81181.4	61.6



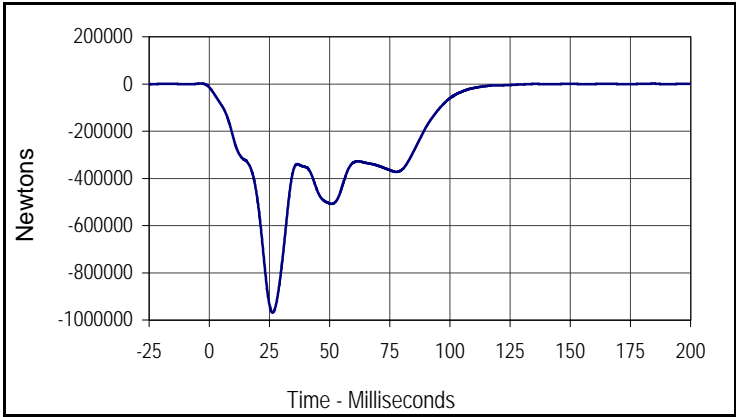
Curve Description			
Barrier Force Sum Group 5			
CURNO	Type	SAE Class	Units
005	SUM	60	Newtons
Max	Time	Min	Time
1407.4	0.5	-138114.9	26.4



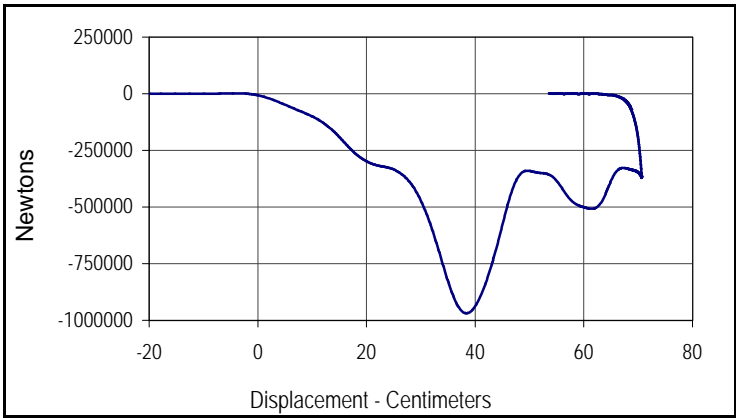
Curve Description			
Barrier Force Sum Group 6			
CURNO	Type	SAE Class	Units
006	SUM	60	Newtons
Max	Time	Min	Time
1505.6	2.4	-70042.2	52.5

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Barrier Force Total Sum			
CURNO	Type	SAE Class	Units
007	SUM	60	Newtons
Max	Time	Min	Time
1555.1	184.6	-968954.2	26.3



Curve Description			
Barrier Force Total Sum vs. Displ.			
CURNO	Type	SAE Class	Units
001	XVY	60	Newtons
Max	CM	Min	CM
1555.1	55.3	-968954.2	37.4

BARRIER LOAD CELL SUMMARY DATA

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

Location	Units	Max	Time	Min	Time
Barrier Force A1	Newtons	1434.8	4.3	-1681.9	8.8
Barrier Force A2	Newtons	925.6	2.2	-2083.9	86.9
Barrier Force A3	Newtons	995.3	1.2	-36585.6	31.5
Barrier Force A4	Newtons	949.1	0.7	-30128.6	46.8
Barrier Force A5	Newtons	63.2	179.5	-49442.2	48.2
Barrier Force A6	Newtons	265.9	0.0	-19397.8	39.0
Barrier Force A7	Newtons	417.5	0.3	-28764.8	38.5
Barrier Force A8	Newtons	386.7	63.6	-5794.5	37.5
Barrier Force A9	Newtons	768.9	7.7	-1951.1	37.5
Barrier Force B1	Newtons	1106.9	4.0	-7389.7	37.6
Barrier Force B2	Newtons	687.9	2.2	-33134.4	17.8
Barrier Force B3	Newtons	1105.0	0.0	-123327.9	25.9
Barrier Force B4	Newtons	63.6	193.8	-72531.9	29.1
Barrier Force B5	Newtons	60.5	184.9	-138112.9	27.4
Barrier Force B6	Newtons	68.7	162.8	-106665.1	26.0
Barrier Force B7	Newtons	1691.2	2.8	-135188.4	24.8
Barrier Force B8	Newtons	393.2	3.2	-40051.5	29.5
Barrier Force B9	Newtons	619.1	7.6	-4650.2	81.8
Barrier Force C1	Newtons	840.1	3.7	-12268.0	50.8
Barrier Force C2	Newtons	662.7	2.5	-10367.6	57.5
Barrier Force C3	Newtons	904.1	1.3	-39213.0	25.5
Barrier Force C4	Newtons	291.1	0.0	-16447.0	26.9
Barrier Force C5	Newtons	91.3	184.9	-38054.1	26.9
Barrier Force C6	Newtons	50.5	145.6	-69971.3	25.6
Barrier Force C7	Newtons	574.0	0.9	-29103.6	53.3
Barrier Force C8	Newtons	263.4	6.9	-21597.4	50.9
Barrier Force C9	Newtons	494.0	7.2	-7612.1	50.3
Barrier Force D1	Newtons	1894.7	26.0	-19738.0	64.1
Barrier Force D2	Newtons	704.1	3.6	-6118.7	62.8
Barrier Force D3	Newtons	876.1	2.4	-5952.8	13.9
Barrier Force D4	Newtons	1004.1	2.3	-5550.1	13.3
Barrier Force D5	Newtons	1206.6	2.2	-9546.5	27.8
Barrier Force D6	Newtons	1127.1	2.2	-4663.2	13.2
Barrier Force D7	Newtons	677.8	2.4	-5793.6	14.9
Barrier Force D8	Newtons	947.7	24.9	-9554.8	70.4
Barrier Force D9	Newtons	2372.6	26.4	-9415.2	67.7
Barrier Force Sum Group 1	Newtons	3642.1	1.5	-175829.6	26.2
Barrier Force Sum Group 2	Newtons	167.1	185.0	-382734.4	26.9
Barrier Force Sum Group 3	Newtons	1673.5	2.7	-196366.6	25.2
Barrier Force Sum Group 4	Newtons	4634.6	3.2	-81181.4	61.6
Barrier Force Sum Group 5	Newtons	1407.4	0.5	-138114.9	26.4
Barrier Force Sum Group 6	Newtons	1505.6	2.4	-70042.2	52.5
Barrier Force Total Sum	Newtons	1555.1	184.6	-968954.2	26.3

APPENDIX D

INSTRUMENTATION DATA CHANNEL ASSIGNMENTS

**2005 NHTSA 35mph NCAP
Instrumentation Data Channel Assignments
Driver A.T.D. Serial Number 35
12/16/04
2005 Honda Odyssey 5-Door MPV**

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
1	HEAD, PRIMARY	X	GPAC027	Accel., 1/2 bridge	Endevco	7264-2000	G
2	HEAD, PRIMARY	Y	GPAC002	Accel., 1/2 bridge	Endevco	7264-2000	G
3	HEAD, PRIMARY	Z	GPAC003	Accel., 1/2 bridge	Endevco	7264-2000	G
4	HEAD, REDUNDANT	X	GPAC032	Accel., 1/2 bridge	Endevco	7264-2000	G
5	HEAD, REDUNDANT	Y	GPAC021	Accel., 1/2 bridge	Endevco	7264-2000	G
6	HEAD, REDUNDANT	Z	GPAC026	Accel., 1/2 bridge	Endevco	7264-2000	G
7	NECK FORCE	X	GPUN01FX	Load cell, six axis neck	R. A. Denton	1716A	N
8	NECK FORCE	Y	GPUN01FY	Load cell, six axis neck	R. A. Denton	1716A	N
9	NECK FORCE	Z	GPUN01FZ	Load cell, six axis neck	R. A. Denton	1716A	N
10	NECK MOMENT	X	GPUN01MX	Load cell, six axis neck	R. A. Denton	1716A	Nm
11	NECK MOMENT	Y	GPUN01MY	Load cell, six axis neck	R. A. Denton	1716A	Nm
12	NECK MOMENT	Z	GPUN01MZ	Load cell, six axis neck	R. A. Denton	1716A	Nm
13	CHEST, PRIMARY	X	GPAC005	Accel., 1/2 bridge	Endevco	7264-2000	G
14	CHEST, PRIMARY	Y	GPAC011	Accel., 1/2 bridge	Endevco	7264-2000	G
15	CHEST, PRIMARY	Z	GPAC010	Accel., 1/2 bridge	Endevco	7264-2000	G
16	CHEST, REDUNDANT	X	GPAC034	Accel., 1/2 bridge	Endevco	7264-2000	G
17	CHEST, REDUNDANT	Y	GPAC023	Accel., 1/2 bridge	Endevco	7264-2000	G
18	CHEST, REDUNDANT	Z	GPAC020	Accel., 1/2 bridge	Endevco	7264-2000	G
19	CHEST DEFLECTION	X	GPCP002	Rotary Pot Chest	Servo	14CBI	MM
20	PELVIS, PRIMARY	X	GPAC025	Accel., 1/2 bridge	Endevco	7264-2000	G
21	PELVIS, PRIMARY	Y	GPAC022	Accel., 1/2 bridge	Endevco	7264-2000	G
22	PELVIS, PRIMARY	Z	GPAC019	Accel., 1/2 bridge	Endevco	7264-2000	G
23	LEFT FEMUR FORCE	Z	KEFF003	Load cell, Femur	R.A. Denton	2121	N
24	RIGHT FEMUR FORCE	Z	KEFF004	Load cell, Femur	R.A. Denton	2121	N

**2005 NHTSA 35mph NCAP
Instrumentation Data Channel Assignments
Driver A.T.D. Serial Number 35
12/16/04
2005 Honda Odyssey 5-Door MPV**

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
25	UP. TIBIA LEFT MOM.	X	GPUT09MX	2 ch., Upper tibia gage	R. A. Denton	1583	Nm
26	UP. TIBIA LEFT MOM.	Y	GPUT09MY	2 ch., Upper tibia gage	R. A. Denton	1583	Nm
27	UP. TIBIA RIGHT MOM.	X	GPUT09MX	2 ch., Upper tibia gage	R. A. Denton	1583	Nm
28	UP. TIBIA RIGHT MOM.	Y	GPUT09MY	2 ch., Upper tibia gage	R. A. Denton	1583	Nm
29	LWR. TIBIA LEFT MOM.	X	GPLT09MX	3 ch., lower tibia gage	R. A. Denton	3093	Nm
30	LWR. TIBIA LEFT MOM.	Y	GPLT09MY	3 ch., lower tibia gage	R. A. Denton	3093	Nm
31	LWR. TIBIA LEFT FORCE	Z	GPLT09FZ	3 ch., lower tibia gage	R. A. Denton	3093	N
32	LWR. TIBIA RIGHT MOM.	X	GPLT09MX	3 ch., lower tibia gage	R. A. Denton	3093	Nm
33	LWR. TIBIA RIGHT MOM.	Y	GPLT09MY	3 ch., lower tibia gage	R. A. Denton	3093	Nm
34	LWR. TIBIA RIGHT FORCE	Z	GPLT09FZ	3 ch., lower tibia gage	R. A. Denton	3093	N
35	FOOT LEFT, AFT	X	KEIC002X	Accel., Foot Triax	I.C. Sensor	3031-500	G
36	FOOT LEFT, AFT	Z	KEIC002Y	Accel., Foot Triax	I.C. Sensor	3031-500	G
37	FOOT LEFT, FORE	Z	KEIC002Z	Accel., Foot Triax	I.C. Sensor	3031-500	G
38	FOOT RIGHT, AFT	X	KEIC001X	Accel., Foot Triax	I.C. Sensor	3031-500	G
39	FOOT RIGHT, AFT	Z	KEIC001Y	Accel., Foot Triax	I.C. Sensor	3031-500	G
40	FOOT RIGHT, FORE	Z	KEIC001Z	Accel., Foot Triax	I.C. Sensor	3031-500	G
41	LAP BELT FORCE	X	BL134	Load cell, Seat belt	FGP	FN4060	N
42	SHOULDER BELT FORCE	X	BL135	Load cell, Seat belt	FGP	FN4060	N
43	SHOULDER BELT SPOOL	X	KEPP001	Pullout pot	Celesco	PTX101-0030	MM
44	SHOULDER BELT ELONG.	X	KEEP001	Linear pot., belt stretch	E.T.I.	LCP8-10 10K	MM/CM

**2005 NHTSA 35mph NCAP
Instrumentation Data Channel Assignments
Passenger A.T.D. Serial Number 34
12/16/04
2005 Honda Odyssey 5-Door MPV**

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
45	HEAD, PRIMARY	X	KEAC039	Accel., 1/2 bridge	Endevco	7264-2000	G
46	HEAD, PRIMARY	Y	KEAC038	Accel., 1/2 bridge	Endevco	7264-2000	G
47	HEAD, PRIMARY	Z	KEAC027	Accel., 1/2 bridge	Endevco	7264-2000	G
48	HEAD, REDUNDANT	X	KEAC031	Accel., 1/2 bridge	Endevco	7264-2000	G
49	HEAD, REDUNDANT	Y	KEAC032	Accel., 1/2 bridge	Endevco	7264-2000	G
50	HEAD, REDUNDANT	Z	KEAC026	Accel., 1/2 bridge	Endevco	7264-2000	G
51	NECK FORCE	X	GPUN02FX	Load cell, six axis neck	R. A. Denton	1716A	N
52	NECK FORCE	Y	GPUN02FY	Load cell, six axis neck	R. A. Denton	1716A	N
53	NECK FORCE	Z	GPUN02FZ	Load cell, six axis neck	R. A. Denton	1716A	N
54	NECK MOMENT	X	GPUN02MX	Load cell, six axis neck	R. A. Denton	1716A	Nm
55	NECK MOMENT	Y	GPUN02MY	Load cell, six axis neck	R. A. Denton	1716A	Nm
56	NECK MOMENT	Z	GPUN02MZ	Load cell, six axis neck	R. A. Denton	1716A	Nm
57	CHEST, PRIMARY	X	GPAC031	Accel., 1/2 bridge	Endevco	7264-2000	G
58	CHEST, PRIMARY	Y	GPAC024	Accel., 1/2 bridge	Endevco	7264-2000	G
59	CHEST, PRIMARY	Z	GPAC029	Accel., 1/2 bridge	Endevco	7264-2000	G
60	CHEST, REDUNDANT	X	KEAC023	Accel., 1/2 bridge	Endevco	7264-200	G
61	CHEST, REDUNDANT	Y	KEAC022	Accel., 1/2 bridge	Endevco	7264-200	G
62	CHEST, REDUNDANT	Z	KEAC024	Accel., 1/2 bridge	Endevco	7264-200	G
63	CHEST DEFLECTION	X	GPCP001	Rotary Pot Chest	Servo	14CBI	MM
64	PELVIS, PRIMARY	X	KEAC019	Accel., 1/2 bridge	Endevco	7264-200	G
65	PELVIS, PRIMARY	Y	KEAC020	Accel., 1/2 bridge	Endevco	7264-200	G
66	PELVIS, PRIMARY	Z	KEAC021	Accel., 1/2 bridge	Endevco	7264-200	G
67	LEFT FEMUR FORCE	Z	KEFF001	Load cell, Femur	R.A. Denton	2121	N
68	RIGHT FEMUR FORCE	Z	KEFF002	Load cell, Femur	R.A. Denton	2121	N

**2005 NHTSA 35mph NCAP
Instrumentation Data Channel Assignments
Passenger A.T.D. Serial Number 34
12/16/04
2005 Honda Odyssey 5-Door MPV**

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
69	UP. TIBIA LEFT MOM.	X	GPUT09MX	2 ch., Upper tibia gage	R. A. Denton	1583	Nm
70	UP. TIBIA LEFT MOM.	Y	GPUT09MY	2 ch., Upper tibia gage	R. A. Denton	1583	Nm
71	UP. TIBIA RIGHT MOM.	X	GPUT09MX	2 ch., Upper tibia gage	R. A. Denton	1583	Nm
72	UP. TIBIA RIGHT MOM.	Y	GPUT09MY	2 ch., Upper tibia gage	R. A. Denton	1583	Nm
73	LWR. TIBIA LEFT MOM.	X	GPLT09MX	3 ch., lower tibia gage	R. A. Denton	3093	Nm
74	LWR. TIBIA LEFT MOM.	Y	GPLT09MY	3 ch., lower tibia gage	R. A. Denton	3093	Nm
75	LWR. TIBIA LEFT FORCE	Z	GPLT09FZ	3 ch., lower tibia gage	R. A. Denton	3093	N
76	LWR. TIBIA RIGHT MOM.	X	GPLT09MX	3 ch., lower tibia gage	R. A. Denton	3093	Nm
77	LWR. TIBIA RIGHT MOM.	Y	GPLT09MY	3 ch., lower tibia gage	R. A. Denton	3093	Nm
78	LWR. TIBIA RIGHT FORCE	Z	GPLT09FZ	3 ch., lower tibia gage	R. A. Denton	3093	N
79	FOOT LEFT, AFT	X	KEIC003X	Accel., Foot Triax	I.C. Sensor	3031-500	G
80	FOOT LEFT, AFT	Z	KEIC003Y	Accel., Foot Triax	I.C. Sensor	3031-500	G
81	FOOT LEFT, FORE	Z	KEIC003Z	Accel., Foot Triax	I.C. Sensor	3031-500	G
82	FOOT RIGHT, AFT	X	KEIC004X	Accel., Foot Triax	I.C. Sensor	3031-500	G
83	FOOT RIGHT, AFT	Z	KEIC004Y	Accel., Foot Triax	I.C. Sensor	3031-500	G
84	FOOT RIGHT, FORE	Z	KEIC004Z	Accel., Foot Triax	I.C. Sensor	3031-500	G
85	LAP BELT FORCE	X	BL168	Load cell, Seat belt	First Tech	IF-964	N
86	SHOULDER BELT FORCE	X	BL169	Load cell, Seat belt	First Tech	IF-964	N
87	SHOULDER BELT SPOOL	X	KEPP001	Pullout pot	Celesco	PTX101-0030	MM
88	SHOULDER BELT ELONG.	X	KEEP001	Linear pot., belt stretch	E.T.I.	LCP8-10 10K	MM/CM

**2005 NHTSA 35mph NCAP
Instrumentation Data Channel Assignments
Vehicle Accelerometers
12/16/04
2005 Honda Odyssey 5-Door MPV**

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
89	LEFT REAR	X	KEVA002	Accel., Pre-Amp	I.C.S/Karco	3031-500	G
90	RIGHT REAR	X	KEVA006	Accel., Vehicle block	I.C. Sensor	3031-200	G
91	ENGINE TOP	X	KEVA009	Accel., Vehicle block	I.C. Sensor	3031-500	G
92	ENGINE BOTTOM	X	KEVA007	Accel., Vehicle block	I.C. Sensor	3031-500	G
93	LEFT BRAKE CALIPER	X	KEVA008	Accel., Vehicle block	I.C. Sensor	3031-500	G
94	RIGHT BRAKE CALIPER	X	KEVA012	Accel., Vehicle block	I.C. Sensor	3031-500	G
95	INSTRUMENT PANEL	X	KEVA011	Accel., Vehicle block	I.C. Sensor	3031-200	G
96	LEFT REAR	Z	KEVA001	Accel., Vehicle block	I.C. Sensor	3031-500	G
97	RIGHT REAR	Z	KEVA010	Accel., Vehicle block	I.C. Sensor	3031-200	G

**2005 NHTSA 35mph NCAP
Instrumentation Data Channel Assignments
Rigid Load Cell Barrier
12/16/04
2005 Honda Odyssey 5-Door MPV**

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
98	BARRIER FORCE A1	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
99	BARRIER FORCE A2	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
100	BARRIER FORCE A3	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
101	BARRIER FORCE A4	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
102	BARRIER FORCE A5	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
103	BARRIER FORCE A6	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
104	BARRIER FORCE A7	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
105	BARRIER FORCE A8	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
106	BARRIER FORCE A9	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
107	BARRIER FORCE B1	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
108	BARRIER FORCE B2	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
109	BARRIER FORCE B3	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
110	BARRIER FORCE B4	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
111	BARRIER FORCE B5	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
112	BARRIER FORCE B6	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
113	BARRIER FORCE B7	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
114	BARRIER FORCE B8	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
115	BARRIER FORCE B9	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N

**2005 NHTSA 35mph NCAP
Instrumentation Data Channel Assignments
Rigid Load Cell Barrier
12/16/04
2005 Honda Odyssey 5-Door MPV**

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
116	BARRIER FORCE C1	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
117	BARRIER FORCE C2	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
118	BARRIER FORCE C3	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
119	BARRIER FORCE C4	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
120	BARRIER FORCE C5	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
121	BARRIER FORCE C6	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
122	BARRIER FORCE C7	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
123	BARRIER FORCE C8	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
124	BARRIER FORCE C9	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
125	BARRIER FORCE D1	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
126	BARRIER FORCE D2	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
127	BARRIER FORCE D3	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
128	BARRIER FORCE D4	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
129	BARRIER FORCE D5	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
130	BARRIER FORCE D6	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
131	BARRIER FORCE D7	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
132	BARRIER FORCE D8	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N
133	BARRIER FORCE D9	X	BARRIER	Load Cell, LCB	Interface	1220-FS	N

**2005 NHTSA 35mph NCAP
Instrumentation Data Channel Assignments
Nine Accelerometer Array Head
12/16/04
2005 Honda Odyssey 5-Door MPV**

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
202	DRIVER X-ARM	Y	GPAC012	Accel., 1/2 bridge	Endevco	7264-2000	G
203	DRIVER X-ARM	Z	GPAC001	Accel., 1/2 bridge	Endevco	7264-2000	G
204	DRIVER Y-ARM	X	GPAC036	Accel., 1/2 bridge	Endevco	7264-2000	G
205	DRIVER Y-ARM	Z	GPAC014	Accel., 1/2 bridge	Endevco	7264-2000	G
206	DRIVER Z-ARM	X	GPAC030	Accel., 1/2 bridge	Endevco	7264-2000	G
207	DRIVER Z-ARM	Y	GPAC037	Accel., 1/2 bridge	Endevco	7264-2000	G
208	PASS. X-ARM	Y	GPAC016	Accel., 1/2 bridge	Endevco	7264-2000	G
209	PASS. X-ARM	Z	GPAC015	Accel., 1/2 bridge	Endevco	7264-2000	G
210	PASS. Y-ARM	X	GPAC004	Accel., 1/2 bridge	Endevco	7264-2000	G
211	PASS. Y-ARM	Z	GPAC018	Accel., 1/2 bridge	Endevco	7264-2000	G
212	PASS. Z-ARM	X	GPAC006	Accel., 1/2 bridge	Endevco	7264-2000	G
213	PASS. Z-ARM	Y	GPAC007	Accel., 1/2 bridge	Endevco	7264-2000	G

APPENDIX E
DUMMY CALIBRATION DATA

Test Program: Hybrid III 50th Percentile Male Head Drop Test

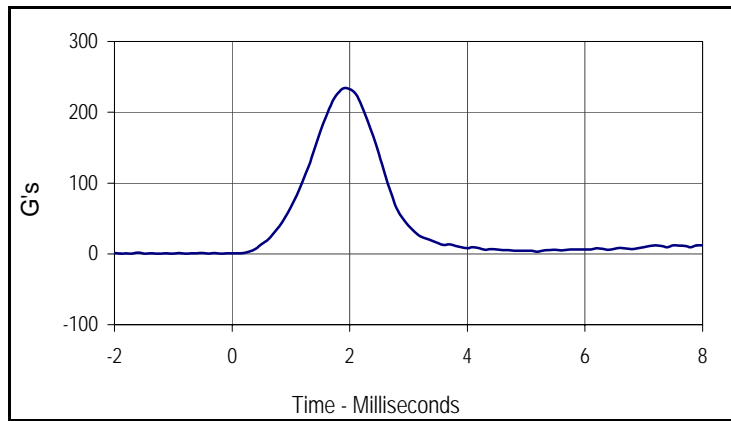
Test Date: 12/10/04

ATD Serial No.: 034

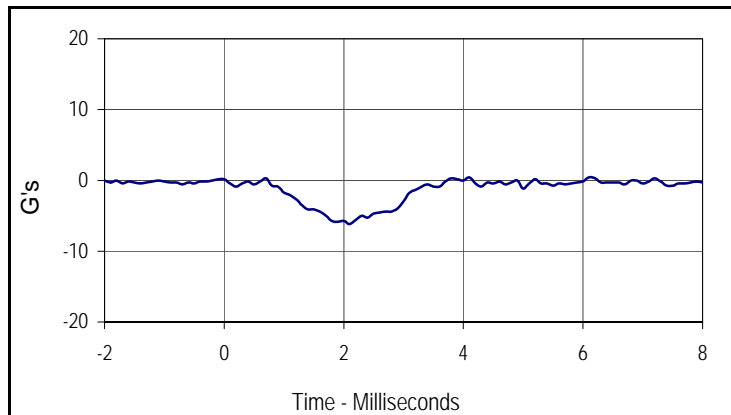
Test I.D.: HD12G



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	225.0 to 275.0	234.0	Pass
Peak Lateral Acceleration	G's	≤15.0	6.2	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results			Pass	



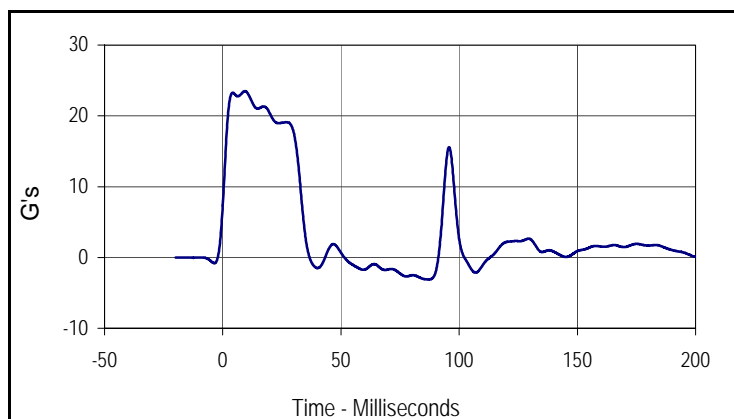
Curve Description			
Head Resultant			
CURNO	Type	SAE Class	Units
001	RES	1000	G's
Max	Time	Min	Time
234.0	1.9	0.3	-1.9



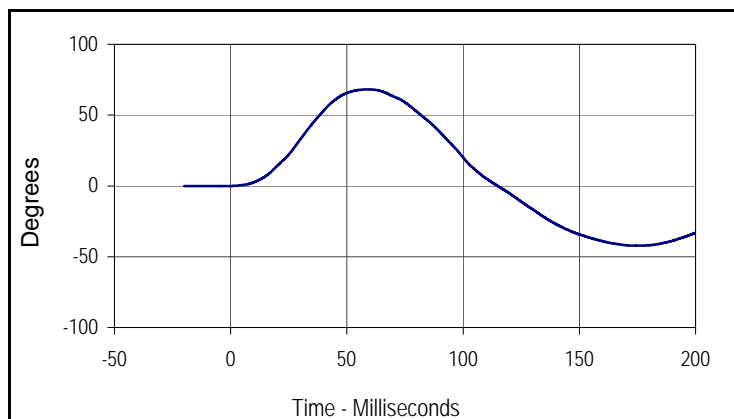
Curve Description			
Head Y			
CURNO	Type	SAE Class	Units
002	FIL	1000	G's
Max	Time	Min	Time
0.4	4.1	-6.2	2.1



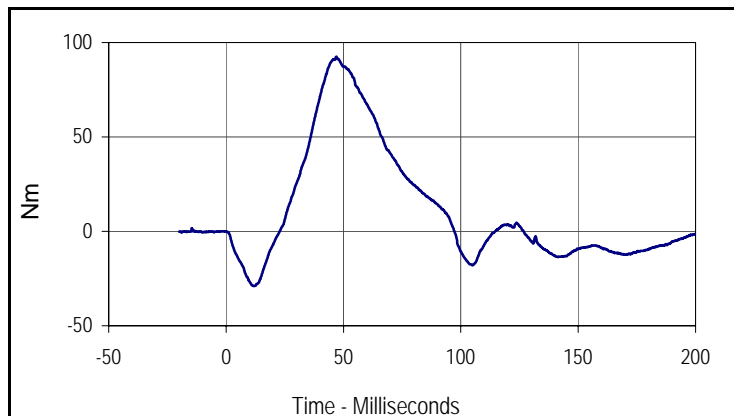
Tested Parameter	Units	Specification	Result	Pass/Fail	
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass	
Laboratory Relative Humidity	%	10 to 70	30	Pass	
Pendulum Velocity	m/s	6.89 to 7.13	6.98	Pass	
Pendulum Deceleration	10 Msec.	G's	22.5 to 27.5	23.4	Pass
	20 Msec.	G's	17.6 to 22.6	20.3	Pass
	30 Msec.	G's	12.5 to 18.5	17.6	Pass
Peak Pendulum Decel. after 30 Msec.	G's	≤ 29.0	17.6	Pass	
Deceleration Decay, Time to Cross 5 G's	Msec.	34.0 to 42.0	34.3	Pass	
Maximum "D" Plane Rotation	Max	Degrees	64.0 to 78.0	68.1	Pass
	Time	Msec.	57.0 to 64.0	59.0	Pass
"D" Plane Rotation Decay, Time To Zero Crossing	Msec.	113.0 to 128.0	114.8	Pass	
Moment About Occ. Condyle	Max	Nm	84.1 to 108.5	92.5	Pass
	Time	Msec.	47.0 to 58.0	47.0	Pass
Positive Moment Decay, Time To Zero Crossing	Msec.	97.0 to 107.0	97.3	Pass	
Overall Test Results				Pass	



Curve Description			
Pendulum Deceleration			
CURNO	Type	SAE Class	Units
001	FIL	60	G's
Max	Time	Min	Time
23.5	9.4	-3.1	87.0



Curve Description			
"D" Plane Rotation			
CURNO	Type	SAE Class	Units
003	FIL	60	Degrees
Max	Time	Min	Time
68.1	59.0	-42.2	173.9



Curve Description			
Moment About Occipital Condyle			
CURNO	Type	SAE Class	Units
004	FIL	600	Nm
Max	Time	Min	Time
92.5	47.0	-29.1	11.8

Test Program: Hybrid III 50th Percentile Male Neck Extension Test

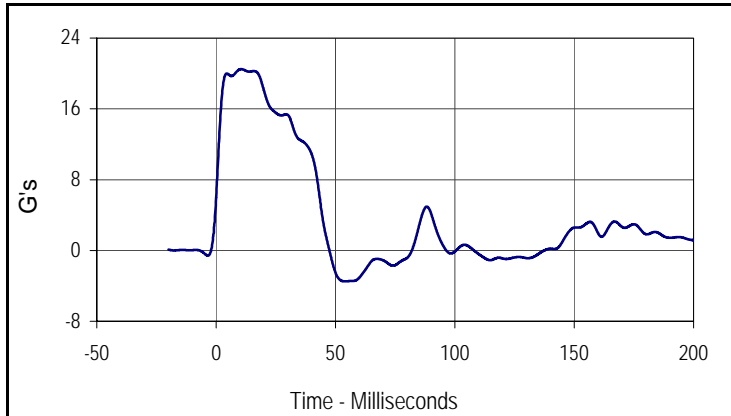
Test Date: 12/10/04

ATD Serial No.: 034

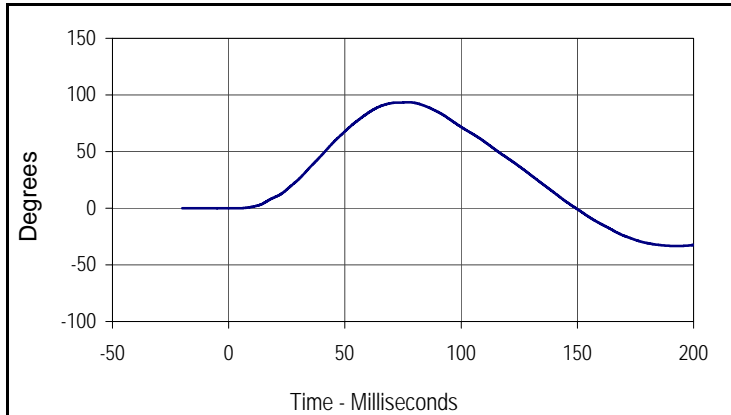
Test I.D.: NE12L



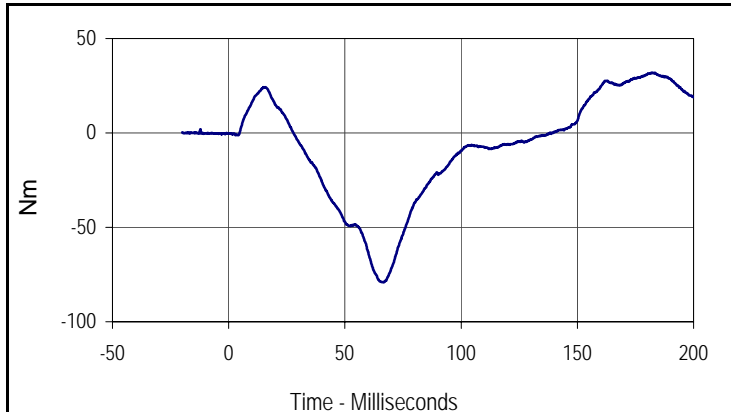
Tested Parameter	Units	Specification	Result	Pass/Fail	
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass	
Laboratory Relative Humidity	%	10 to 70	30	Pass	
Pendulum Velocity	m/s	5.94 to 6.19	6.09	Pass	
Pendulum Deceleration	10 Msec.	G's	17.2 to 21.2	20.5	Pass
	20 Msec.	G's	14.0 to 19.0	18.1	Pass
	30 Msec.	G's	11.0 to 16.0	15.3	Pass
Peak Pendulum Decel. after 30 Msec.	G's	≤ 22.0	15.3	Pass	
Deceleration Decay, Time to Cross 5 G's	Msec.	38.0 to 46.0	43.9	Pass	
Maximum "D" Plane Rotation	Max	Degrees	81.0 to 106.0	93.5	Pass
	Time	Msec.	72.0 to 82.0	77.7	Pass
"D" Plane Rotation Decay, Time To Zero Crossing	Msec.	147.0 to 174.0	149.4	Pass	
Moment About Occ. Condyle	Max	Nm	-52.9 to- 79.9	-79.1	Pass
	Time	Msec.	65.0 to 79.0	66.8	Pass
Positive Moment Decay, Time To Zero Crossing	Msec.	120.0 to 148.0	139.2	Pass	
Overall Test Results				Pass	



Curve Description			
Pendulum Deceleration			
CURNO	Type	SAE Class	Units
001	FIL	60	G's
Max	Time	Min	Time
20.5	10.6	-3.5	53.9



Curve Description			
"D" Plane Rotation			
CURNO	Type	SAE Class	Units
003	FIL	60	Degrees
Max	Time	Min	Time
93.5	77.7	-33.3	193.1



Curve Description			
Moment About Occipital Condyle			
CURNO	Type	SAE Class	Units
004	FIL	600	Nm
Max	Time	Min	Time
31.9	181.8	-79.1	66.8

Test Program: Hybrid III 50th Percentile Male Thorax Impact Test

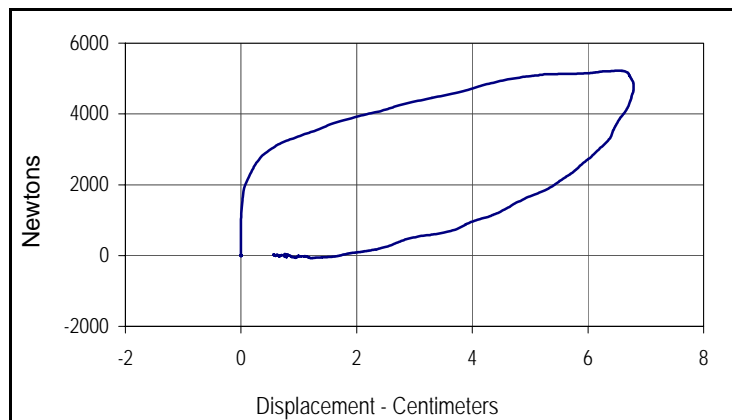
Test Date: 12/13/05

ATD Serial No.: 034

Test I.D.: CH12J



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
Probe Velocity	m/s	6.58 to 6.82	6.61	Pass
Peak Probe Force	Newtons	5159 to 5893	5225	Pass
Peak Sternum Deflection	CM	6.35 to 7.26	6.79	Pass
Internal Hysteresis	%	69 to 85	75.7	Pass
Overall Test Results				Pass



Curve Description			
Probe Force vs. Chest Deflection			
CURNO	Type	SAE Class	Hysteresis
001	FIL	600	75.7
Peak Probe Force		Peak Chest Deflection	
5225		6.79	

Test Program: Hybrid III 50th Percentile Male Knee Impact Test

Test Date: 12/13/04

ATD Serial No.: 034

Test I.D.: LK12Y , RK10T

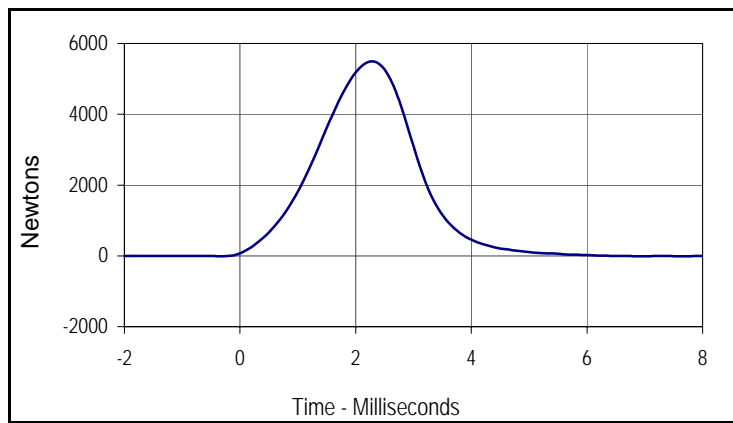


Left Knee

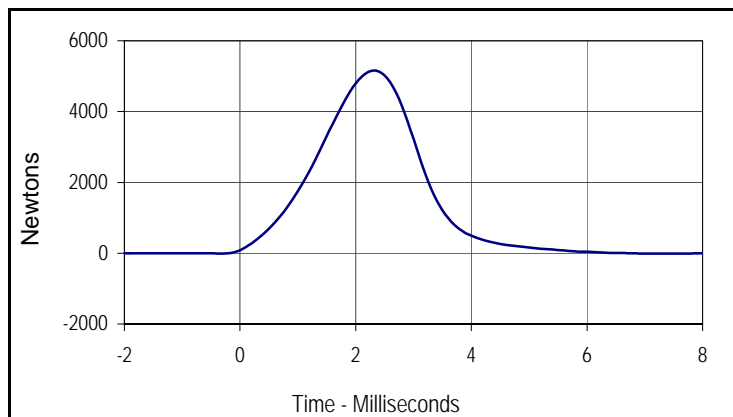
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Pendulum Velocity at T=0	m/sec	2.07 to 2.13	2.10	Pass
Peak Probe Force	Newtons	4715 to 5782	5493	Pass
Overall Test Results				Pass

Right Knee

Pendulum Velocity at T=0	m/sec	2.07 to 2.13	2.12	Pass
Peak Probe Force	Newtons	4715 to 5782	5160	Pass
Overall Test Results				Pass



Curve Description			
Left Knee Probe Force			
CURNO	Type	SAE Class	Units
001	FIL	600	Newtons
Max	Time	Min	Time
5492.5	2.3	-18.2	9.6



Curve Description			
Right Knee Probe Force			
CURNO	Type	SAE Class	Units
002	FIL	600	Newtons
Max	Time	Min	Time
5160.3	2.3	-12.0	-0.3

Test Program: Hybrid III 50th Percentile Male External Measurements Test Date: 12/15/04
 ATD Serial No.: 034 Test I.D.: N/A



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
A - Total sitting height	mm	879 to 889	885	Pass
B - Shoulder pivot height	mm	505 to 521	510	Pass
C - "H" point height	mm	84 to 89	85	Pass
D - "H" point from seat back	mm	135 to 140	137	Pass
E - Shoulder pivot from back	mm	84 to 94	91	Pass
F - Thigh clearance	mm	140 to 155	145	Pass
G - Elbow back to wrist pivot	mm	290 to 305	295	Pass
H - Skull cap to back line	mm	41 to 46	44	Pass
I - Shoulder to elbow length	mm	330 to 345	335	Pass
J - Elbow rest height	mm	190 to 211	205	Pass
K - Buttock to knee length	mm	579 to 604	580	Pass
L - Popliteal length	mm	429 to 455	450	Pass
M - Knee pivot height	mm	485 to 500	490	Pass
N - Buttock popliteal length	mm	452 to 477	470	Pass
O - Chest depth	mm	213 to 229	225	Pass
P - Foot length	mm	251 to 267	260	Pass
V - Shoulder breadth	mm	422 to 437	425	Pass
W - Foot breadth	mm	91 to 107	100	Pass
Y - Chest circumference	mm	970 to 1001	985	Pass
Z - Waist circumference	mm	836 to 866	850	Pass
AA - Location for chest circumference	mm	429 to 434	430	Pass
BB - Location for waist circumference	mm	226 to 231	230	Pass
Overall Test Results				Pass

Test Program: Hybrid III 50th Percentile Male Head Drop Test

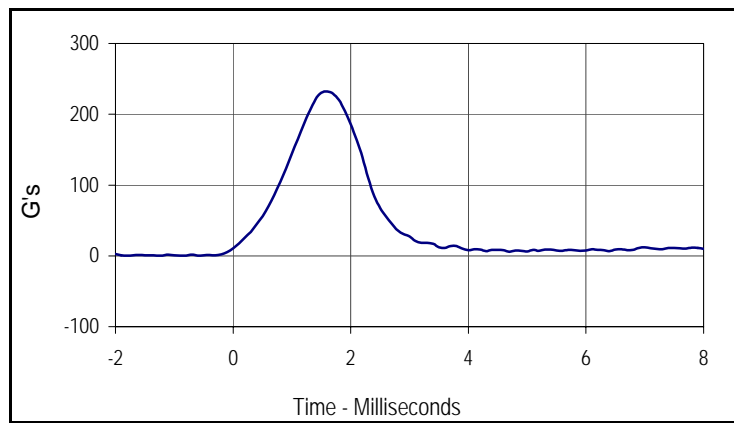
Test Date: 12/10/04

ATD Serial No.: 035

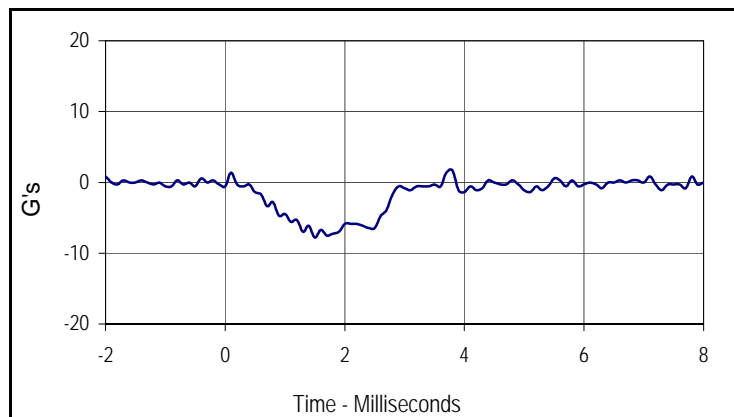
Test I.D.: HD12H



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	225.0 to 275.0	232.4	Pass
Peak Lateral Acceleration	G's	≤15.0	7.8	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results				Pass



Curve Description			
Head Resultant			
CURNO	Type	SAE Class	Units
001	RES	1000	G's
Max	Time	Min	Time
232.4	1.6	0.5	-1.3



Curve Description			
Head Y			
CURNO	Type	SAE Class	Units
002	FIL	1000	G's
Max	Time	Min	Time
1.7	3.8	-7.8	1.5

Test Program: Hybrid III 50th Percentile Male Neck Flexion Test

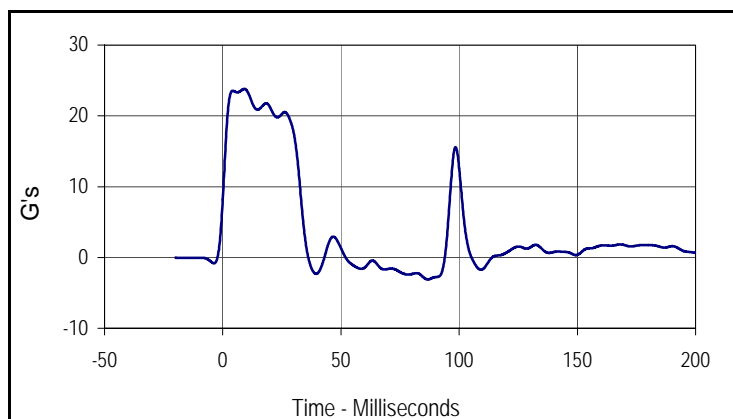
Test Date: 12/10/04

ATD Serial No.: 035

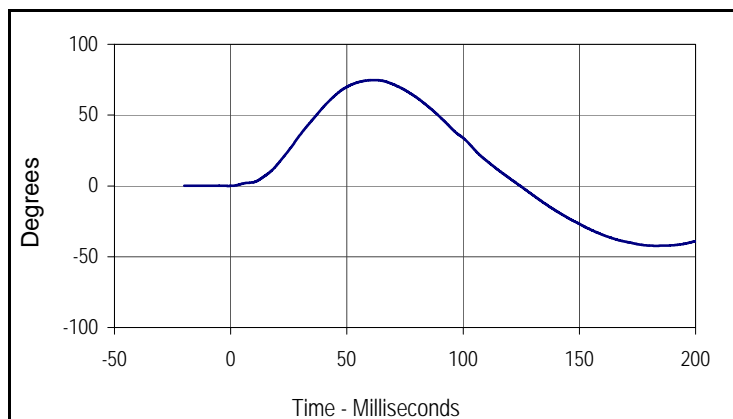
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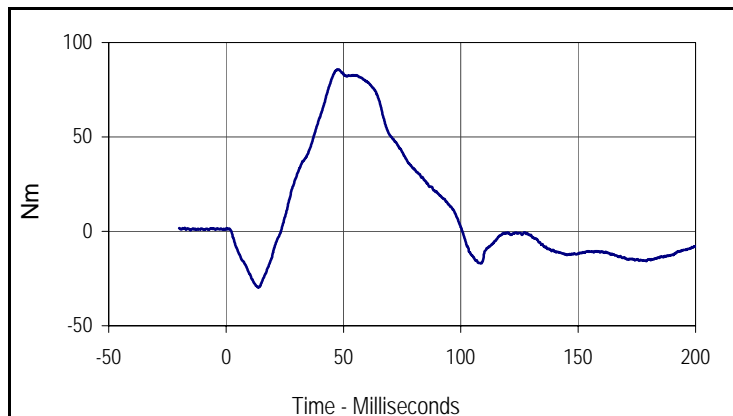
Tested Parameter	Units	Specification	Result	Pass/Fail	
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass	
Laboratory Relative Humidity	%	10 to 70	30	Pass	
Pendulum Velocity	m/s	6.89 to 7.13	7.11	Pass	
Pendulum Deceleration	10 Msec.	G's	22.5 to 27.5	23.6	Pass
	20 Msec.	G's	17.6 to 22.6	21.2	Pass
	30 Msec.	G's	12.5 to 18.5	17.6	Pass
Peak Pendulum Decel. after 30 Msec.	G's	≤ 29.0	17.6	Pass	
Deceleration Decay, Time to Cross 5 G's	Msec.	34.0 to 42.0	34.1	Pass	
Maximum "D" Plane Rotation	Max	Degrees	64.0 to 78.0	74.8	Pass
	Time	Msec.	57.0 to 64.0	61.2	Pass
"D" Plane Rotation Decay, Time To Zero Crossing	Msec.	113.0 to 128.0	124.6	Pass	
Moment About Occ. Condyle	Max	Nm	84.1 to 108.5	85.8	Pass
	Time	Msec.	47.0 to 58.0	47.9	Pass
Positive Moment Decay, Time To Zero Crossing	Msec.	97.0 to 107.0	100.7	Pass	
Overall Test Results				Pass	



Curve Description			
Pendulum Deceleration			
CURNO	Type	SAE Class	Units
001	FIL	60	G's
Max	Time	Min	Time
23.8	9.1	-3.1	86.8



Curve Description			
"D" Plane Rotation			
CURNO	Type	SAE Class	Units
003	FIL	60	Degrees
Max	Time	Min	Time
74.8	61.2	-42.3	182.9



Curve Description			
Moment About Occipital Condyle			
CURNO	Type	SAE Class	Units
004	FIL	600	Nm
Max	Time	Min	Time
85.8	47.9	-29.8	13.7

Test Program: Hybrid III 50th Percentile Male Neck Extension Test

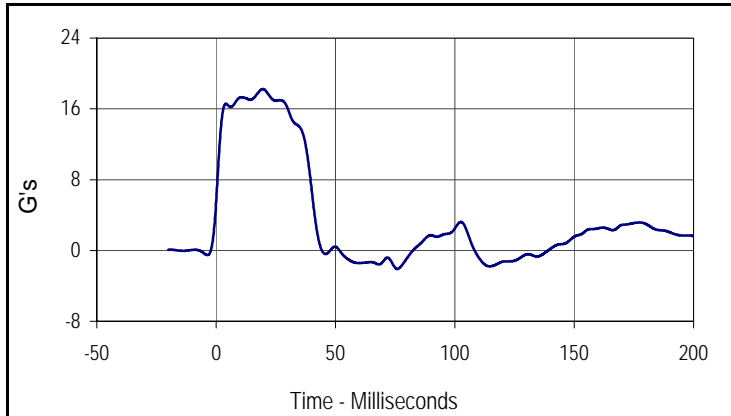
Test Date: 12/10/04

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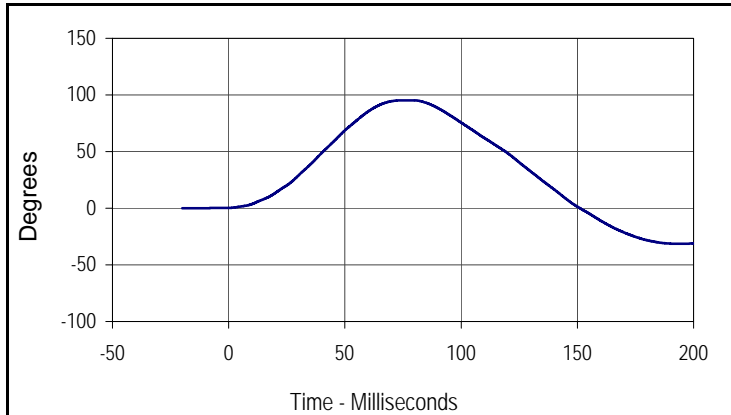
Test I.D.: NE12K



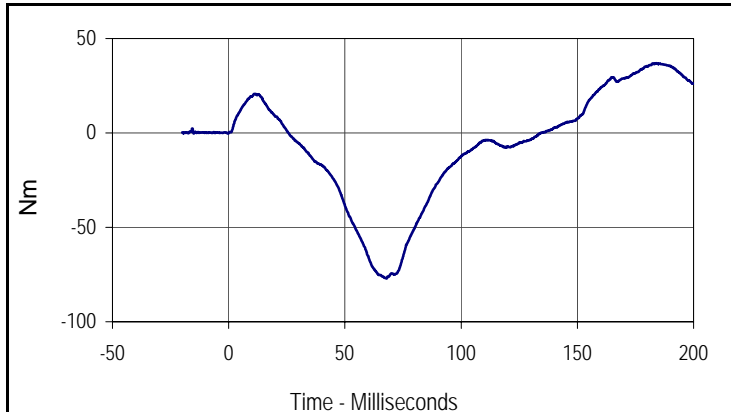
Tested Parameter	Units	Specification	Result	Pass/Fail	
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass	
Laboratory Relative Humidity	%	10 to 70	30	Pass	
Pendulum Velocity	m/s	5.94 to 6.19	6.00	Pass	
Pendulum Deceleration	10 Msec.	G's	17.2 to 21.2	17.3	Pass
	20 Msec.	G's	14.0 to 19.0	18.2	Pass
	30 Msec.	G's	11.0 to 16.0	16.0	Pass
Peak Pendulum Decel. after 30 Msec.	G's	≤ 22.0	16.0	Pass	
Deceleration Decay, Time to Cross 5 G's	Msec.	38.0 to 46.0	40.8	Pass	
Maximum "D" Plane Rotation	Max	Degrees	81.0 to 106.0	95.3	Pass
	Time	Msec.	72.0 to 82.0	79.3	Pass
"D" Plane Rotation Decay, Time To Zero Crossing	Msec.	147.0 to 174.0	151.2	Pass	
Moment About Occ. Condyle	Max	Nm	-52.9 to- 79.9	-77.1	Pass
	Time	Msec.	65.0 to 79.0	67.9	Pass
Positive Moment Decay, Time To Zero Crossing	Msec.	120.0 to 148.0	134.6	Pass	
Overall Test Results				Pass	



Curve Description			
Pendulum Deceleration			
CURNO	Type	SAE Class	Units
001	FIL	60	G's
Max	Time	Min	Time
18.2	19.6	-2.1	75.9



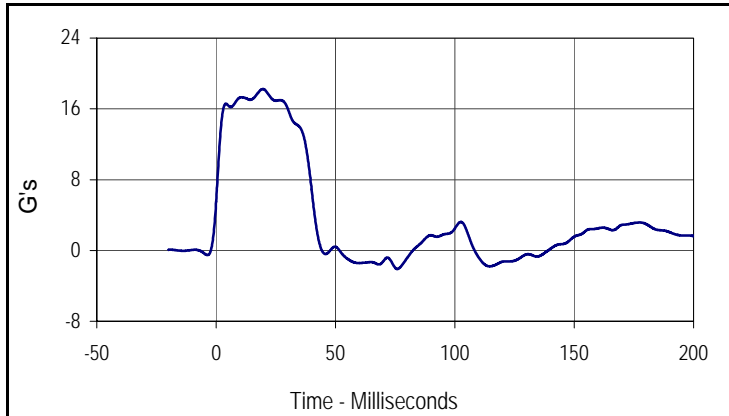
Curve Description			
"D" Plane Rotation			
CURNO	Type	SAE Class	Units
003	FIL	60	Degrees
Max	Time	Min	Time
95.3	79.3	-31.4	194.2



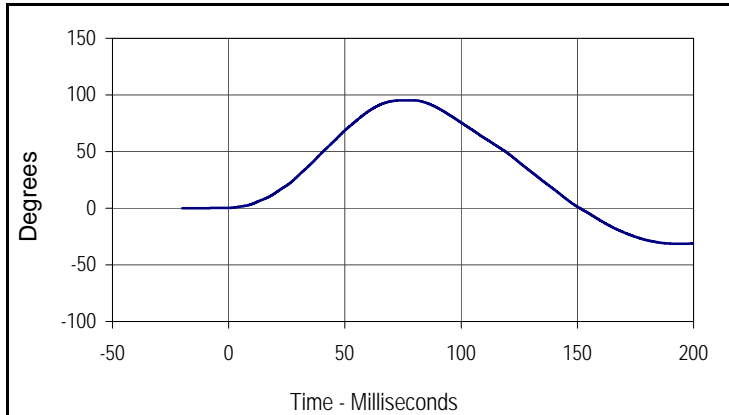
Curve Description			
Moment About Occipital Condyle			
CURNO	Type	SAE Class	Units
004	FIL	600	Nm
Max	Time	Min	Time
37.0	183.9	-77.1	67.9



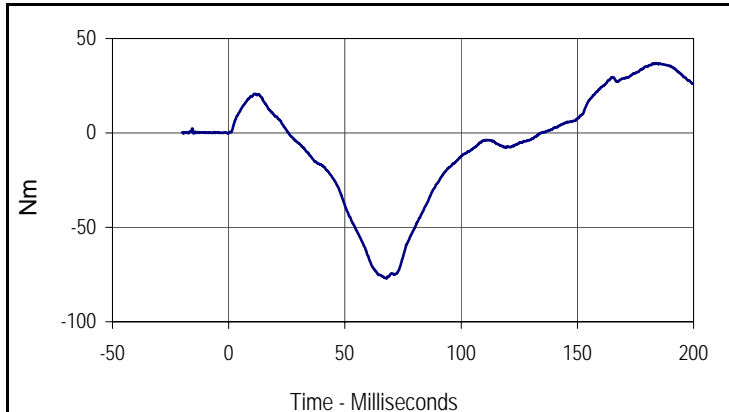
Tested Parameter	Units	Specification	Result	Pass/Fail	
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass	
Laboratory Relative Humidity	%	10 to 70	30	Pass	
Pendulum Velocity	m/s	5.94 to 6.19	6.00	Pass	
Pendulum Deceleration	10 Msec.	G's	17.2 to 21.2	17.3	Pass
	20 Msec.	G's	14.0 to 19.0	18.2	Pass
	30 Msec.	G's	11.0 to 16.0	16.0	Pass
Peak Pendulum Decel. after 30 Msec.	G's	≤ 22.0	16.0	Pass	
Deceleration Decay, Time to Cross 5 G's	Msec.	38.0 to 46.0	40.8	Pass	
Maximum "D" Plane Rotation	Max	Degrees	81.0 to 106.0	95.3	Pass
	Time	Msec.	72.0 to 82.0	79.3	Pass
"D" Plane Rotation Decay, Time To Zero Crossing	Msec.	147.0 to 174.0	151.2	Pass	
Moment About Occ. Condyle	Max	Nm	-52.9 to- 79.9	-77.1	Pass
	Time	Msec.	65.0 to 79.0	67.9	Pass
Positive Moment Decay, Time To Zero Crossing	Msec.	120.0 to 148.0	134.6	Pass	
Overall Test Results				Pass	



Curve Description			
Pendulum Deceleration			
CURNO	Type	SAE Class	Units
001	FIL	60	G's
Max	Time	Min	Time
18.2	19.6	-2.1	75.9



Curve Description			
"D" Plane Rotation			
CURNO	Type	SAE Class	Units
003	FIL	60	Degrees
Max	Time	Min	Time
95.3	79.3	-31.4	194.2



Curve Description			
Moment About Occipital Condyle			
CURNO	Type	SAE Class	Units
004	FIL	600	Nm
Max	Time	Min	Time
37.0	183.9	-77.1	67.9

Test Program: Hybrid III 50th Percentile Male Thorax Impact Test

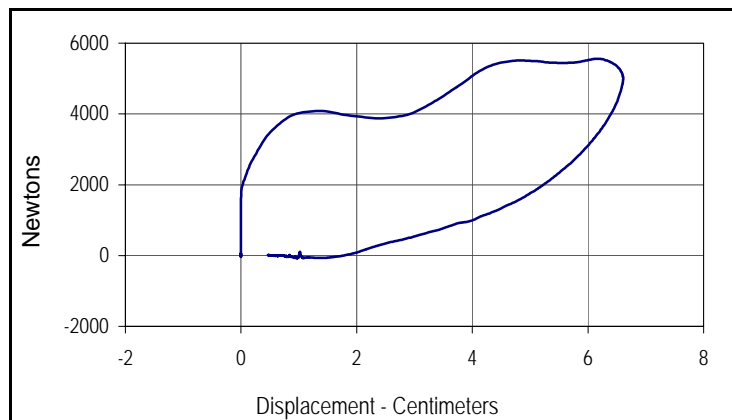
Test Date: 12/13/05

ATD Serial No.: 035

Test I.D.: CH12K



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
Probe Velocity	m/s	6.58 to 6.82	6.74	Pass
Peak Probe Force	Newtons	5159 to 5893	5555	Pass
Peak Sternum Deflection	CM	6.35 to 7.26	6.61	Pass
Internal Hysteresis	%	69 to 85	76.1	Pass
Overall Test Results				Pass



Curve Description			
Probe Force vs. Chest Deflection			
CURNO	Type	SAE Class	Hysteresis
001	FIL	180	76.1
Peak Probe Force		Peak Chest Deflection	
5555		6.61	

Test Program: Hybrid III 50th Percentile Male Knee Impact Test

Test Date: 12/13/04

ATD Serial No.: 035

Test I.D.: LK12Z , RK10U



Left Knee

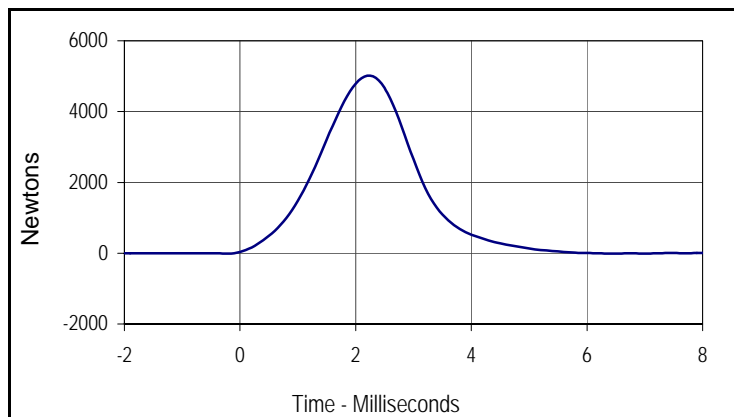
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Pendulum Velocity at T=0	m/sec	2.07 to 2.13	2.13	Pass
Peak Probe Force	Newtons	4715 to 5782	5503	Pass
Overall Test Results				Pass

Right Knee

Pendulum Velocity at T=0	m/sec	2.07 to 2.13	2.09	Pass
Peak Probe Force	Newtons	4715 to 5782	5014	Pass
Overall Test Results				Pass



Curve Description			
Left Knee Probe Force			
CURNO	Type	SAE Class	Units
001	FIL	600	Newtons
Max	Time	Min	Time
5502.8	2.5	-11.8	9.8



Curve Description			
Right Knee Probe Force			
CURNO	Type	SAE Class	Units
002	FIL	600	Newtons
Max	Time	Min	Time
5014.2	2.2	-10.5	6.4

Test Program: Hybrid III 50th Percentile Male External Measurements Test Date: 12/15/04
 ATD Serial No.: 035 Test I.D.: N/A



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
A - Total sitting height	mm	879 to 889	884	Pass
B - Shoulder pivot height	mm	505 to 521	520	Pass
C - "H" point height	mm	84 to 89	86	Pass
D - "H" point from seat back	mm	135 to 140	138	Pass
E - Shoulder pivot from back	mm	84 to 94	90	Pass
F - Thigh clearance	mm	140 to 155	142	Pass
G - Elbow back to wrist pivot	mm	290 to 305	300	Pass
H - Skull cap to back line	mm	41 to 46	45	Pass
I - Shoulder to elbow length	mm	330 to 345	340	Pass
J - Elbow rest height	mm	190 to 211	210	Pass
K - Buttock to knee length	mm	579 to 604	600	Pass
L - Popliteal length	mm	429 to 455	450	Pass
M - Knee pivot height	mm	485 to 500	495	Pass
N - Buttock popliteal length	mm	452 to 477	465	Pass
O - Chest depth	mm	213 to 229	215	Pass
P - Foot length	mm	251 to 267	260	Pass
V - Shoulder breadth	mm	422 to 437	430	Pass
W - Foot breadth	mm	91 to 107	105	Pass
Y - Chest circumference	mm	970 to 1001	985	Pass
Z - Waist circumference	mm	836 to 866	860	Pass
AA - Location for chest circumference	mm	429 to 434	431	Pass
BB - Location for waist circumference	mm	226 to 231	228	Pass
Overall Test Results				Pass

APPENDIX F
CHILD RESTRAINT SYSTEMS

REPORT NUMBER TR-P25001-08-NC

**NEW CAR ASSESSMENT PROGRAM
FRONTAL BARRIER IMPACT TEST**

**HONDA MOTORS CORPORATION
2005 HONDA ODYSSEY 5-DOOR MPV**

NHTSA NUMBER: M55302

**PREPARED BY:
KARCO ENGINEERING, LLC
9270 HOLLY ROAD
ADELANTO, CALIFORNIA 92301**



DECEMBER 16, 2004

FINAL REPORT

**PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
RULEMAKING
OFFICE OF CRASHWORTHINESS STANDARDS
MAIL CODE: NVS-111
400 SEVENTH STREET, SW, ROOM 5311
WASHINGTON, D.C. 20590**

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Prepared by: _____
Mr. Yednesh Parnaik, Project Engineer
KARCO Engineering, LLC

Date: December 30, 2004

Reviewed by: _____
Mr. Michael L. Dunlap, Quality Assurance Manager
KARCO Engineering, LLC

Date: December 30, 2004

Approved by: _____
Mr. Frank D. Richardson, Program Manager
KARCO Engineering, LLC

Date: December 30, 2004

FINAL REPORT ACCEPTED BY:

Manager, New Car Assessment Program

Date of Acceptance

COTR, NCAP Frontal Impact Program

Date of Acceptance

Technical Report Documentation Page

1. Report No. TR-P25001-08-NC		2. Government Accession No.		3. Recipients Catalog No.	
4. Title and Subtitle Final Report of a Graco Hi-Back Turbo Booster and Evenflo Titan 5 Convertible CRS NHTSA NO. M55302			5. Report Date December 16, 2004		
			6. Performing Organization Code KAR		
7. Authors Mr. Yednesh Parnaik, Project Engineer, Karco Mr. Frank Richardson, Program Manager, Karco			8. Performing Organization Report No. TR-P25001-08-NC		
9. Performing Organization Name and Address Karco Engineering, LLC 9270 Holly Rd. Adelanto, CA, 92301			10. Work Unit No.		
			11. Contract or Grant No. DTNH22-01-D-02005		
12. Sponsoring Agency Name and Address U. S. Department of Transportation National Highway Traffic Safety Administration Rulemaking Office of Crashworthiness Standards Mail Code NPS-111 400 Seventh Street, SW, Room 5311 Washington, D.C 20590			13. Type of Report and Period Covered Final Test Report Option Year 3		
			14. Sponsoring Agency Code DOT/NHTSA/NRM/OCS		
15. Supplementary Notes					
16. Abstract A frontal barrier impact test was conducted on the subject Graco Hi-Back Turbo Booster CRS (Position 4) and Evenflo Titan 5 Convertible CRS (Position 3) in conjunction with frontal NCAP testing on a 2005 Honda Odyssey 5-Door MPV and in accordance with the specifications of the Office of Crashworthiness Standards Test Procedure for the determination of CRS crashworthiness. This test was conducted at Karco Engineering, LLC on December 16, 2004					
Measurement Description		Units	Left Rear (10-Yr)	Right Rear (3-Yr)	
Head Injury Criteria (HIC) 36		N/A	678.8	730.4	
Head Injury Criteria (HIC) 15		N/A	350.9	568.7	
3 msec. Chest Clip		G's	52.9	47.0	
Peak Chest Deflection		mm	-17.6	-19.8	
17. Key Words 56.3 km/h NCAP Frontal Barrier Impact Test New Car Assessment Program (NCAP) Final Report of a Graco Hi-Back Turbo Booster CRS (P4) and Evenflo Titan 5 convertible CRS (P3) NHTSA NO. M55302			18. Distribution of Statement Copies of this report available from: NHTSA Technical Reference Division National Highway Traffic Safety Admin. 400 Seventh St., SW, Room 5108 Washington, D.C. 20590		
19. Security Classification (this report) Unclassified		20. Security Classification (this page) Unclassified		21. No. of Pages 72	22. Price

Form DOT F1700.7 (8-72)

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SECTION F-1

PURPOSE AND SUMMARY OF TEST M55302

The purpose of this test is to obtain CRS performance data during an NCAP (35mph) frontal impact test.

The 35 mph (56.3 km/h) NCAP frontal impact test was conducted in accordance with the Office of Crashworthiness Standards (OCS) NCAP Laboratory Test Procedure.

SUMMARY

One (1) three year old child Hybrid III dummy was instrumented with head, chest, and pelvic tri-axial accelerometers, a chest displacement potentiometer and six-axis upper and lower neck cells. In addition a tri-axial accelerometer was installed on the CRS and a seat belt load cell was placed on the upper tether.

One (1) ten year old child Hybrid III dummy was instrumented with head, chest, and pelvic tri-axial accelerometers, a chest displacement potentiometer, six-axis upper neck, lumbar, clavicle, ASIS and femur load cells. In addition a tri-axial accelerometer was installed on the CRS and the CRS seat back. Seat belt load cells were placed on the shoulder and lap belts to measure belt loads.

The 10-year old (Serial No. 011) was calibrated prior to this test and 3-year old child dummy (Serial No. 082) was calibrated one test prior this test. Child dummy certification information is found in Section F-5.

CHILD DUMMY VALUES

Location	HIC 36 Values	HIC 15 Values	3 Msec. Chest Clip (g)	Peak Chest Defl. (mm)
10-year Child (P4)	678.8	350.9	52.9	-17.6
3-year Child (P3)	730.4	568.7	47.0	-19.8

DATA SHEET NO.1 CRASH TEST SUMMARY

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

CHILD RESTRAINT SYSTEM INFORMATION

Description	Position #4 CRS	Position #3 CRS
Manufacturer	Graco	Evenflo
Model Name	Turbo Booster	Titan 5
Serial No.	JJ1006042008674	3671439P1
Type	Hi-Back Booster	Convertible
Forward/Rearward	Forward	Forward

VISIBLE DUMMY CONTACT POINTS

Description	Position #4 CRS	Position #3 CRS
Head Contact	Chin to Chest	Chin to Retainer Clip
Chest Contact	N/C	N/C
Abdomen Contact	N/C	N/C
Left Knee Contact	N/C	N/C
Right Knee Contact	N/C	N/C
Left Toe Contact	Left Front Seat Back	Right Front Seat Back
Right Toe Contact	Left Front Seat Back	Right Front Seat Back

POST-TEST DOOR OPENINGS

Description	Position #4 CRS	Position #3 CRS
Front Door	Remained closed/latched, opened w/o tools	Remained closed/latched, opened w/o tools
Rear Door	Remained closed/latched, opened w/o tools	Remained closed/latched, opened w/o tools
Hatch/Other Door	Remained closed/latched, opened w/o tools	

POST-TEST SEAT DATA

Location	Seat Movement (mm)	Seat Back Failure
Left Front	None	None
Right Front	None	None
Left Rear	None	None
Right Rear	None	None

MOVIE COVERAGE

Cameras	Standard	Additional
High Speed	2	2
Real Time	0	0
Total	2	2

DATA CHANNELS

Child Sensors	54
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DATA SHEET NO.2 CRS PARAMETER DATA

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

RETAINING CLIP INFORMATION

Description	Position #4 CRS	Position #3 CRS
Ret. Clip Movement		55 mm

CHILD HARNESS STRETCH

Description	Position #4 CRS	Position #3 CRS
Harness Stretch		0 mm

TEST VEHICLE WEIGHTS

	Units	As Delivered Weights (UVW)			As Tested Weights (ATW)		
		Front Axle	Rear Axle	Total	Front Axle	Rear Axle	Total
Left	kg	567	448		603	542	
Right	kg	540	427		586	532	
Ratio	%	55.9	44.1		52.5	47.5	
Totals	kg	1107	875	1982	1189	1074	2263

TARGET TEST WEIGHT CALCULATION

Measured Parameter	Units	Value
Total Delivered Weight (UVW)	kg	1982
Weight of 2 P572 ATD's	kg	152
Rated Cargo/Luggage Wt. (RCLW)	kg	136
Calculated Vehicle Target Wt. (TVTW)	kg	2270

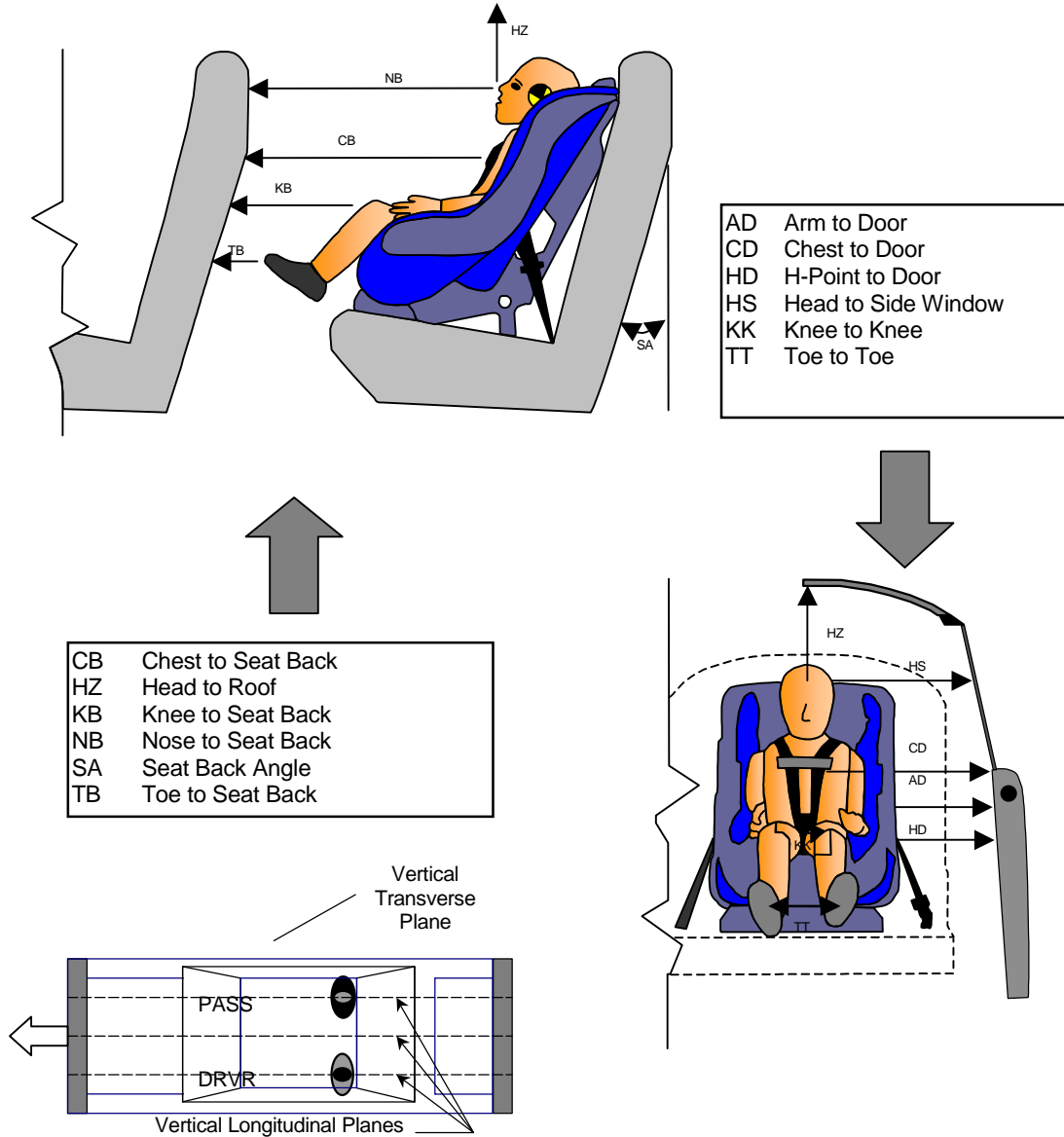
DATA SHEET NO.3 CHILD DUMMY POSITIONING IN VEHICLE

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program 2005 NHTSA 35mph NCAP

Test Date: 12/16/04



DUMMY MEASUREMENTS FOR REAR SEAT OCCUPANTS

DATA SHEET NO.3 CHILD DUMMY POSITIONING IN VEHICLE...(CONTINUED)

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

CHILD DUMMY POSITION MEASUREMENTS

Code	Measurement	Units	P4 CRS Serial No. 011			P3 CRS Serial No. 082		
			Pre-Test	Post-Test	Diff.	Pre-Test	Post-Test	Diff.
SA	Seat Back Angle	deg.	17.0	17.3	0.3	17.0	26.7	9.7
HZ	Head to Roof (Z)	mm	310	320	10	430	430	0
CD	Chest to Dash	mm	415	400	-15	430	420	-10
KK	Knee to Knee (Y)	mm	210	180	-30	140	170	30
HS	Head to Side Window	mm	325	290	-35	400	380	-20
HD	H-Point to Door (Y)	mm	250	210	-40	330	340	10
AD	Arm to Door	mm	200	85	-115	280	275	-5
NB	Nose to Seat Back	mm	500	540	40	560	750	190
CB	Chest to Seat Back	mm	540	600	60	540	760	220
FF	Foot to Foot	mm	200	220	20	120	150	30
KB-Left	Knee to Seat Back	mm	325	450	125	360	500	140
KB-Right	Knee to Seat Back	mm	335	340	5	380	510	130
TB-Left	Toe to Seat Back	mm	160	340	180	120	205	85
TB-Right	Toe to Seat Back	mm	140	250	110	115	180	65

DATA SHEET NO.4 CHILD DUMMY INJURY CRITERIA VALUES

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

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SECTION F-1

DATA SHEET NO.4 CHILD DUMMY INJURY CRITERIA VALUES...(continued)

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

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SECTION F-1

DATA SHEET NO.4 CHILD DUMMY INJURY CRITERIA VALUES...(continued)

Test Vehicle: 2005 Honda Odyssey 5-Door MPV NHTSA No.: M55302

Test Program 2005 NHTSA 35mph NCAP Test Date: 12/16/04

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SECTION F-1

DATA SHEET NO.4 CHILD DUMMY INJURY CRITERIA VALUES...(continued)

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

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DATA SHEET NO.5 CRS PERFORMANCE DATA

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

CRS PERFORMANCE DATA

Location	P4 CRS		P3 CRS	
	Damage	Post-Test	Damage	Post-Test
Upper Tether Strap	No	None	No	None
Upper Tether Buckle	No	None	No	None
Upper Tether Hook	No	None	No	None
Veh. Upper Tether Anchor	No	None	No	None
Lower Anchor Strap	No	None	No	None
Lower Anchor Buckle	No	None	No	None
Lower Anchor Hooks	No	None	No	None
Veh. Lower CRS Anchors	No	None	No	None
5-Point Harness Connections	No	None	No	None
Cracks on CRS	No	None	No	None
Fabric Tears on CRS	No	None	No	None
Vehicle Seat Structure	No	None	No	None
Vehicle Seat Fabric Tears	No	None	No	None

DATA SHEET NO.6 CRS CAMERA DATA

Test Vehicle: 2005 Honda Odyssey 5-Door MPV

NHTSA No.: M55302

Test Program 2005 NHTSA 35mph NCAP

Test Date: 12/16/04

CAMERA LOCATIONS

No.	Camera View	Location(mm)			Film Plane to Head	Angle (Deg.)	Lens (mm)	Speed (fps)
		X	Y	Z				
1	Right Rear Dummy Onboard	-2743	900	-1555	1441	-17	13	1000
2	Left Rear Dummy Onboard	-2743	-900	-1555	1453	-15	13	1000

ADDITIONAL CAMERAS

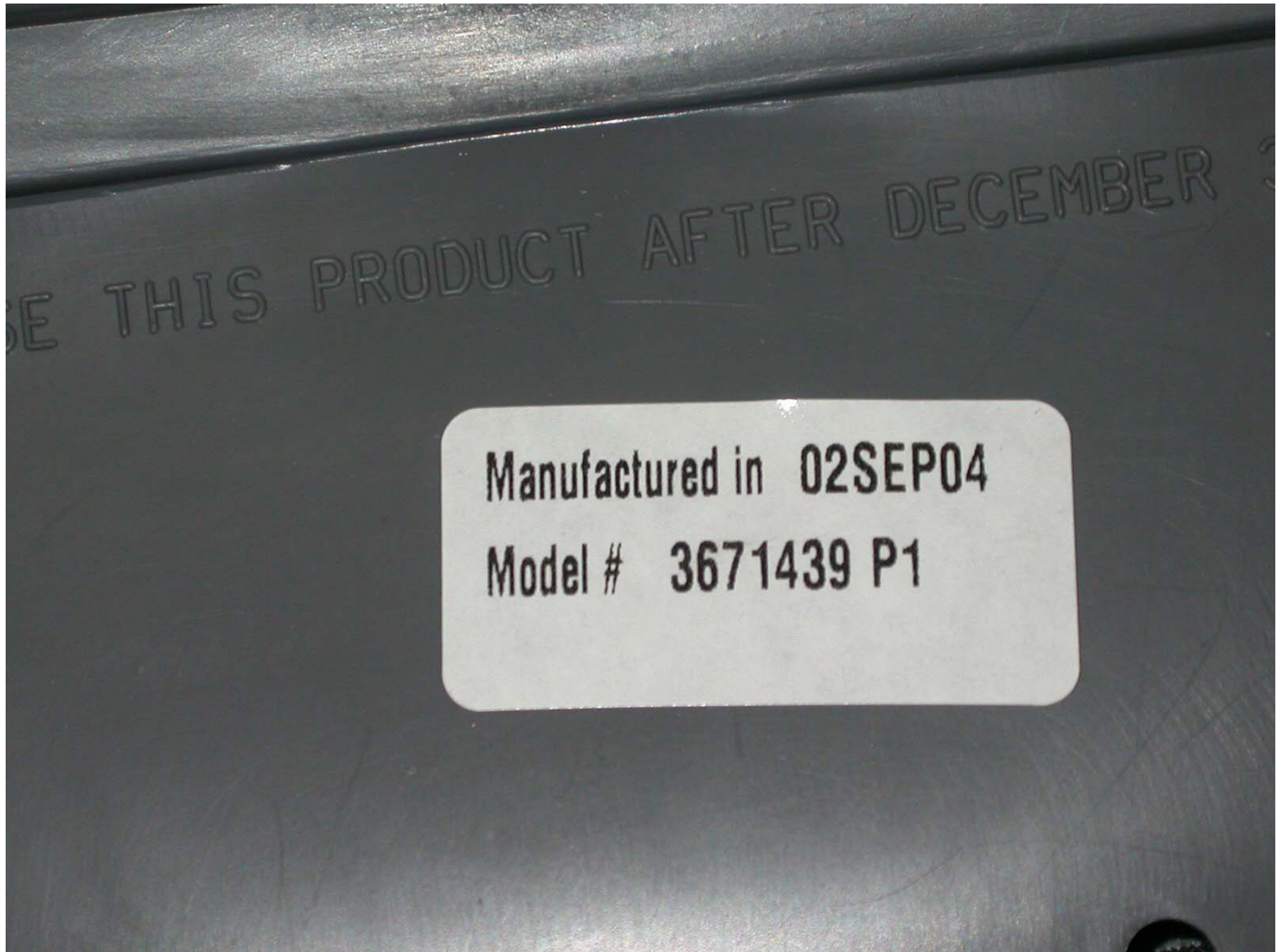
1	Left Rear Dummy Onboard	-3353	900	-1555	1409	-15	12	1000
2	Rear Dummies Onboard	-3353	-900	-1555	1421	0	4	1000

X = Barrier Face Y = Monorail Centerline Z = Ground DNR = Did Not Run NTM = No Time Marks

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PHOTOGRAPHS

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5	Post-Test Rear View of Position 3 CRS	F-5
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7	Post-Test Left Side View of Position 3 CRS	F-7
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10	Pre-Test Position 3 Front View (Head Position)	F-10
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12	Pre-Test Position 3 Front View (Seat Belt Position)	F-12
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35	Post-Test Position 4 Right Side View	F-35
36	Post-Test Position 4 Dummy Leg	F-36



F2-1

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Figure F2-1: Close-up, Position 3 CRS Label

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Figure F2-2: Pre-Test Frontal View of Position 3 CRS



Figure F2-3: Post-Test Frontal View of Position 3 CRS



Figure F2-4: Pre-Test Rear View of Position 3 CRS



Figure F2-5: Post-Test Rear View of Position 3 CRS



Figure F2-6: Pre-Test Left Side View of Position 3 CRS



Figure F2-8: Pre-Test Right Side View of Position 3 CRS



Figure F2-9: Post-Test Right Side View of Position 3 CRS



Figure F2-10: Pre-Test Position 3 Front View (Head Position)



Figure F2-11: Post-Test Position 3 Front View (Head Position)



Figure F2-12: Pre-Test Position 3 Front View (Seat Belt Position)



Figure F2-13: Post-Test Position 3 Front View (Seat Belt Position)



Figure F2-14: Pre-Test Position 3 Right Side View (Through Window)



Figure F2-15: Post-Test Position 3 Right Side View (Through Window)



Figure F2-16: Pre-Test Position 3 Left Side View



Figure F2-17: Post-Test Position 3 Left Side View



Figure F2-18: Post-Test Position 3 Dummy Leg Contacts

seguridad automotriz del gobierno de EE.UU. al 1-800-424-9393
(202-366-0123 en el Distrito de Columbia).

LAPB0095B

MODEL 8495STO NAME: TurboBooster
SERIAL JJ 1006042008674
Manufactured in 100604
GRACO CHILDREN'S PRODUCTS, INC.
EXTON, PA 19341 1-888-224-6549
Made in China

LAPZ0004B

F2-19

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Figure F2-19: Close-up, Position 4 CRS Label



Figure F2-20: Pre-Test Frontal View of Position 4 CRS



Figure F2-21: Post-Test Frontal View of Position 4 CRS



Figure F2-22: Pre-Test Rear View of Position 4 CRS



Figure F2-23: Post-Test Rear View of Position 4 CRS



Figure F2-24: Pre-Test Left Side View of Position 4 CRS



Figure F2-25: Post-Test Left Side View of Position 4 CRS



Figure F2-26: Pre-Test Right Side View of Position 4 CRS



Figure F2-27: Post-Test Right Side View of Position 4 CRS



Figure F2-28: Pre-Test Position 4 Front View (Head Position)



Figure F2-29: Post-Test Position 4 Front View (Head Position)



Figure F2-30: Pre-Test Position 4 Front View (Seat Belt Position)



Figure F2-31: Post-Test Position 4 Front View (Seat Belt Position)



Figure F2-32: Pre-Test Position 4 Left Side View (Through Window)



Figure F2-33: Post-Test Position 4 Left Side View (Through Window)



Figure F2-34: Pre-Test Position 4 Right Side View



Figure F2-35: Post-Test Position 4 Right Side View



Figure F2-36: Post-Test Position 4 Dummy Leg

SECTION F-3

CHILD DUMMY RESPONSE AND CRS DATA TRACES

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	Left Rear (10 Yr.) Upper Neck Moment Y	F3-3
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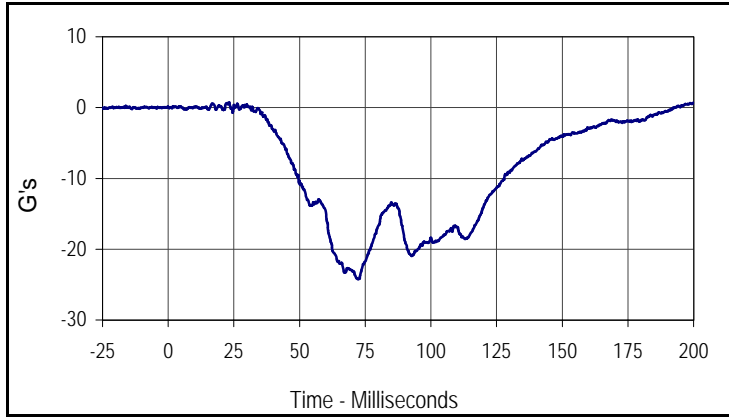
<u>Data Plot</u>		<u>Page</u>
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LIST OF DATA PLOTS... (CONTINUED)

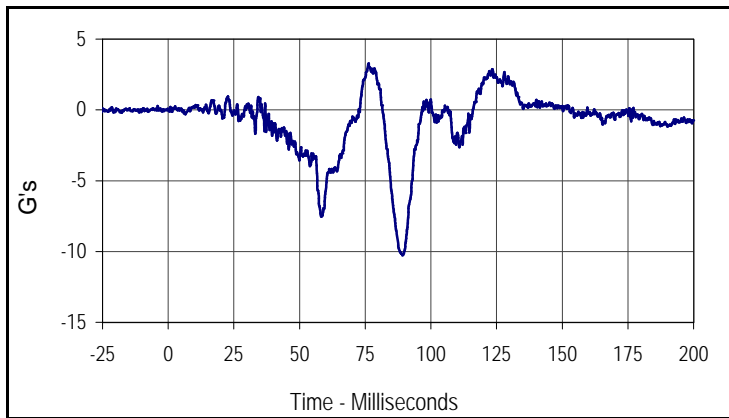
<u>Data Plot</u>		<u>Page</u>
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	Right Rear (3 Yr.) Lower Neck Moment Y	F3-19
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Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

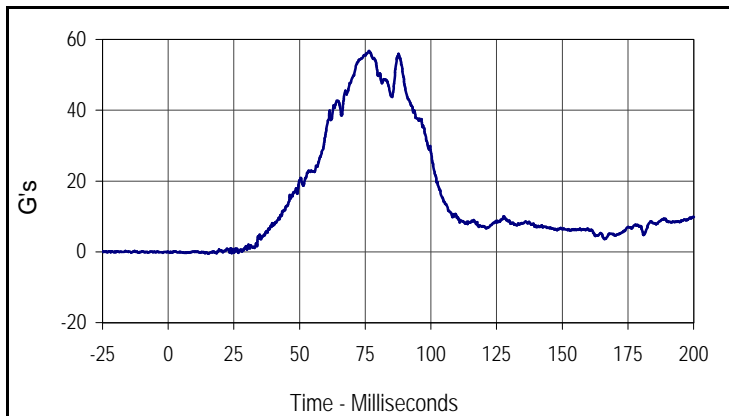
Test Date: 12/16/04
 NHTSA No.: M55302



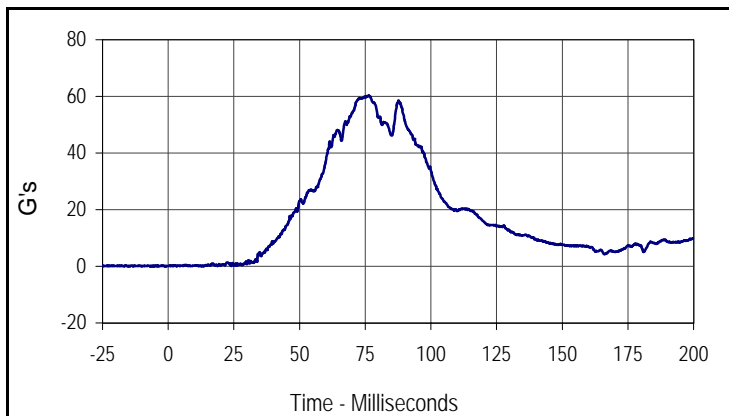
Curve Description			
Left Rear (10 Yr.) Head X			
CURNO	Type	SAE Class	Units
134	FIL	1000	G's
Max	Time	Min	Time
0.7	23.2	-24.3	72.3



Curve Description			
Left Rear (10 Yr.) Head Y			
CURNO	Type	SAE Class	Units
135	FIL	1000	G's
Max	Time	Min	Time
3.3	76.3	-10.3	89.2



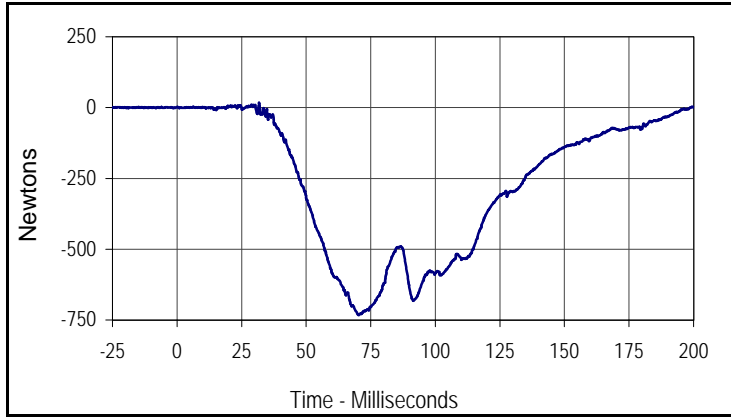
Curve Description			
Left Rear (10 Yr.) Head Z			
CURNO	Type	SAE Class	Units
136	FIL	1000	G's
Max	Time	Min	Time
56.7	76.5	-0.5	15.2



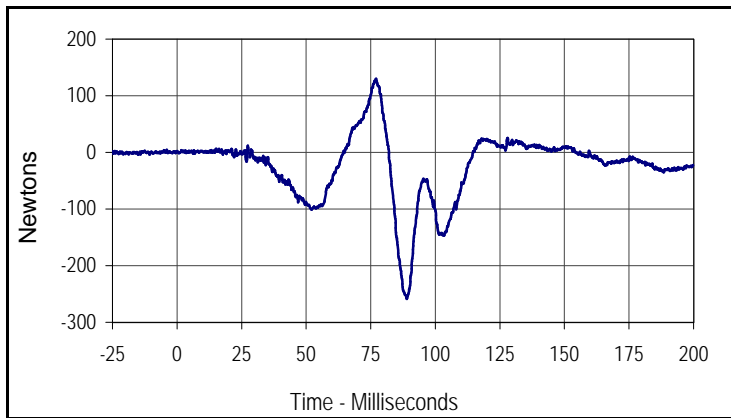
Curve Description			
Left Rear (10 Yr.) Head Resultant			
CURNO	Type	SAE Class	Units
134	RES	1000	G's
Max	Time	Min	Time
60.3	76.4	0.0	12.8

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

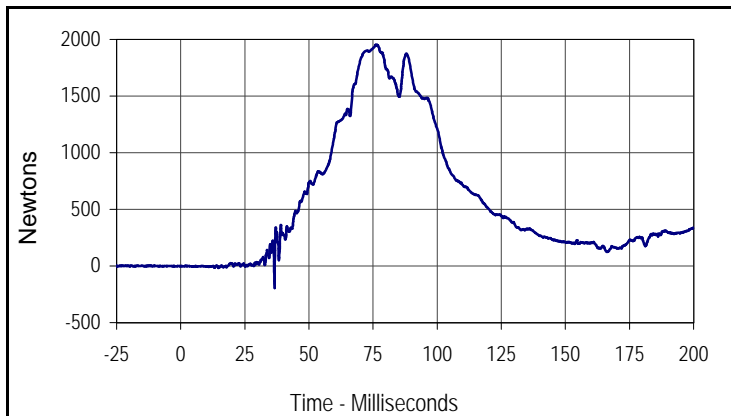
Test Date: 12/16/04
 NHTSA No.: M55302



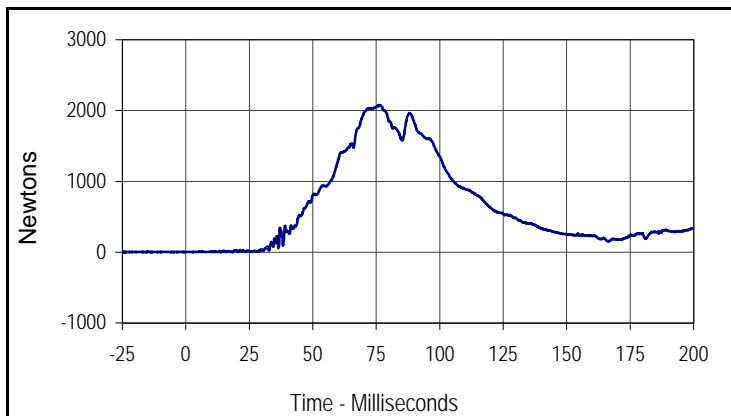
Curve Description			
Left Rear (10 Yr.) Upper Neck Force X			
CURNO	Type	SAE Class	Units
137	FIL	1000	Newtons
Max	Time	Min	Time
17.1	31.8	-733.0	70.4



Curve Description			
Left Rear (10 Yr.) Upper Neck Force Y			
CURNO	Type	SAE Class	Units
138	FIL	1000	Newtons
Max	Time	Min	Time
130.0	77.1	-258.7	89.0



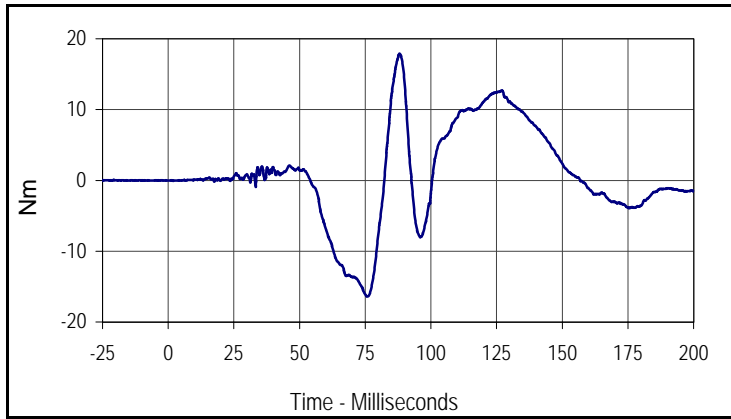
Curve Description			
Left Rear (10 Yr.) Upper Neck Force Z			
CURNO	Type	SAE Class	Units
139	FIL	1000	Newtons
Max	Time	Min	Time
1952.3	76.0	-194.3	36.6



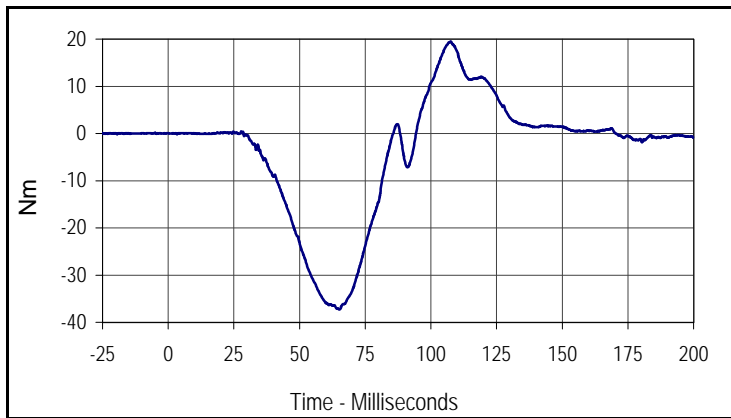
Curve Description			
Left Rear (10 Yr.) Upper Neck Force Res.			
CURNO	Type	SAE Class	Units
137	RES	1000	Newtons
Max	Time	Min	Time
2075.8	76.0	0.3	13.7

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

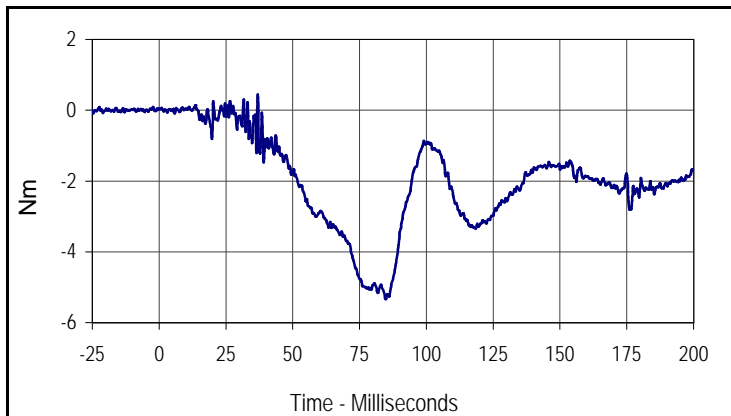
Test Date: 12/16/04
 NHTSA No.: M55302



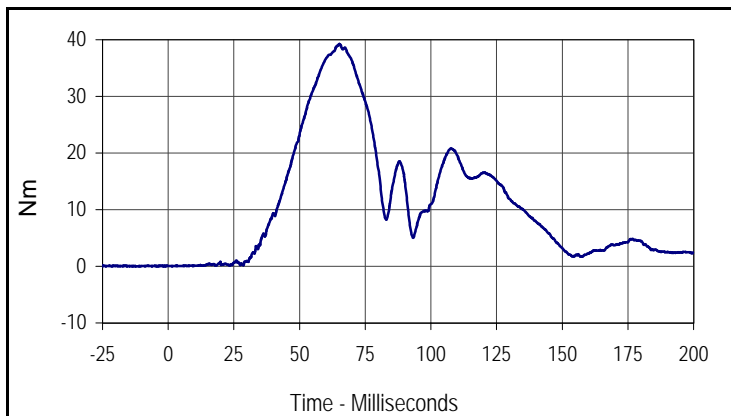
Curve Description			
Left Rear (10 Yr.) Upper Neck Moment X			
CURNO	Type	SAE Class	Units
140	FIL	600	Nm
Max	Time	Min	Time
17.9	88.1	-16.4	75.9



Curve Description			
Left Rear (10 Yr.) Upper Neck Moment Y			
CURNO	Type	SAE Class	Units
141	FIL	600	Nm
Max	Time	Min	Time
19.5	107.6	-37.3	65.1



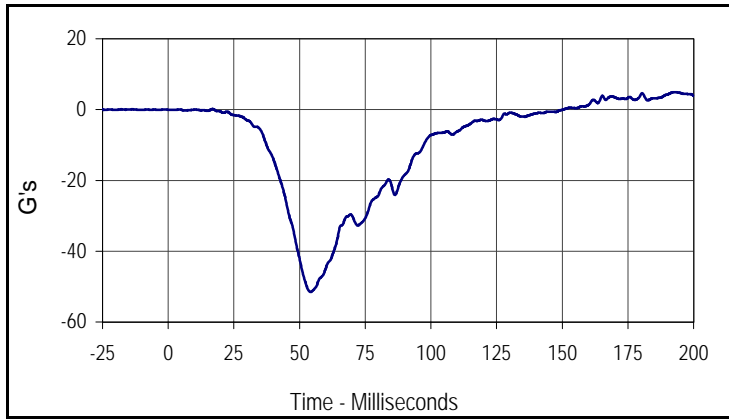
Curve Description			
Left Rear (10 Yr.) Upper Neck Moment Z			
CURNO	Type	SAE Class	Units
142	FIL	600	Nm
Max	Time	Min	Time
0.4	36.9	-5.3	84.8



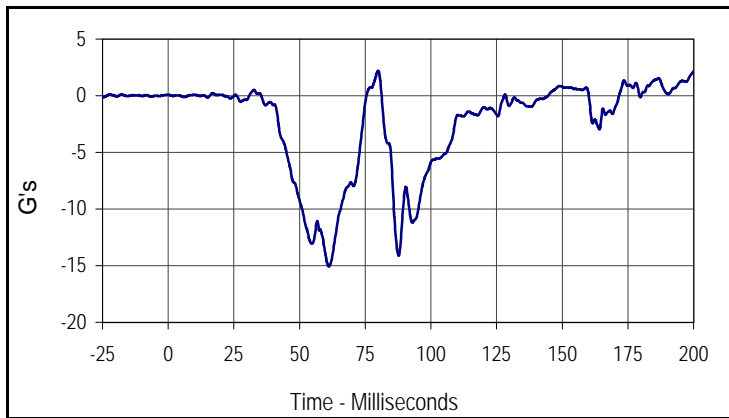
Curve Description			
Left Rear (10 Yr.) Upper Neck Moment Res.			
CURNO	Type	SAE Class	Units
140	RES	600	Nm
Max	Time	Min	Time
39.2	65.2	0.0	1.5

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

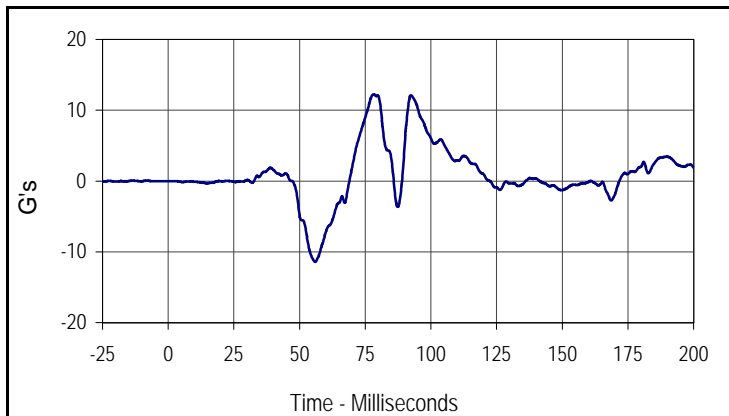
Test Date: 12/16/04
 NHTSA No.: M55302



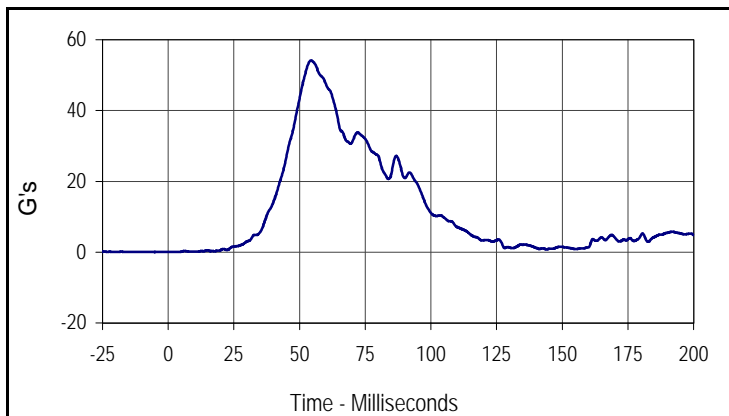
Curve Description			
Left Rear (10 Yr.) Chest X			
CURNO	Type	SAE Class	Units
143	FIL	180	G's
Max	Time	Min	Time
4.9	192.6	-51.5	54.2



Curve Description			
Left Rear (10 Yr.) Chest Y			
CURNO	Type	SAE Class	Units
144	FIL	180	G's
Max	Time	Min	Time
2.2	79.9	-15.1	61.1



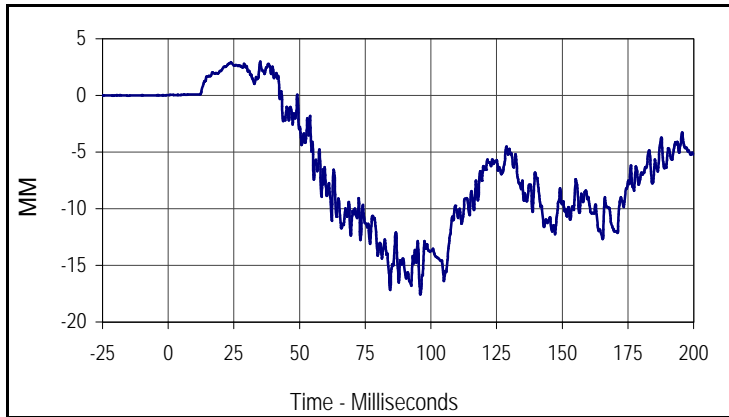
Curve Description			
Left Rear (10 Yr.) Chest Z			
CURNO	Type	SAE Class	Units
145	FIL	180	G's
Max	Time	Min	Time
12.2	78.1	-11.4	56.0



Curve Description			
Left Rear (10 Yr.) Chest Resultant			
CURNO	Type	SAE Class	Units
143	RES	180	G's
Max	Time	Min	Time
54.1	54.3	0.1	1.2

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

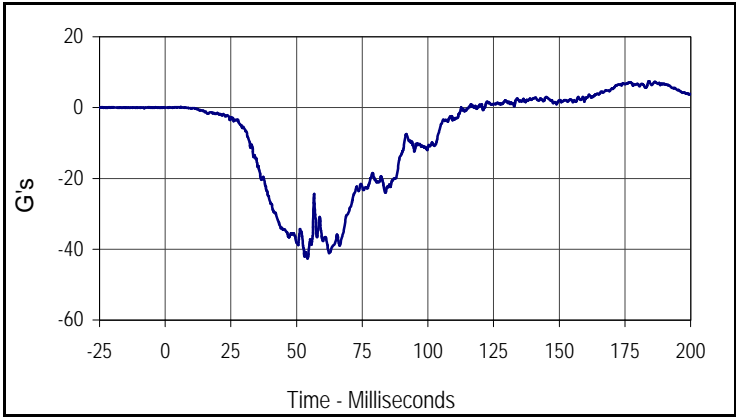
Test Date: 12/16/04
 NHTSA No.: M55302



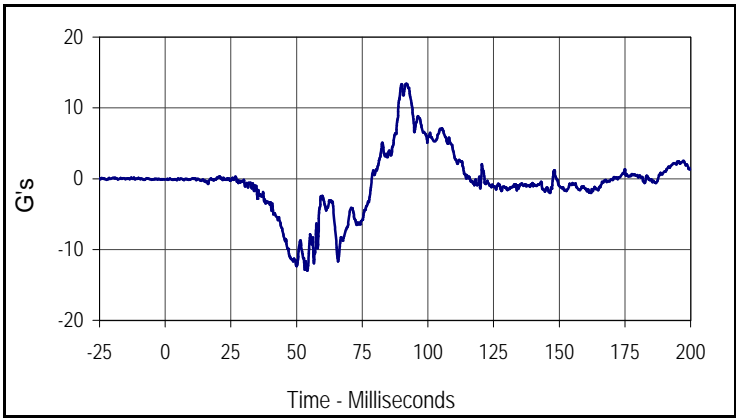
Curve Description			
Left Rear (10 Yr.) Chest Deflection			
CURNO	Type	SAE Class	Units
146	FIL	600	MM
Max	Time	Min	Time
3.0	35.0	-17.6	96.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

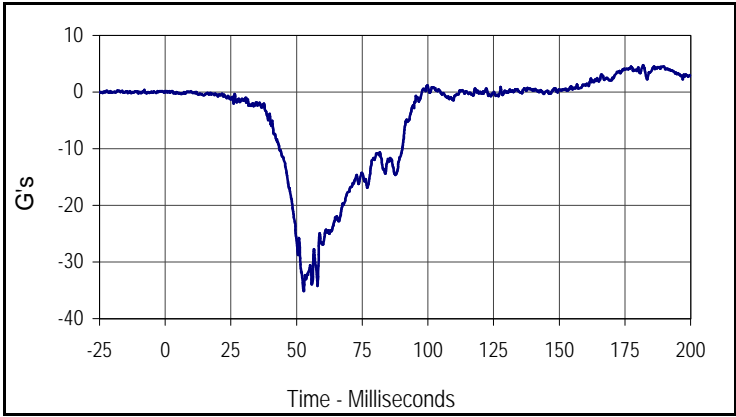
Test Date: 12/16/04
 NHTSA No.: M55302



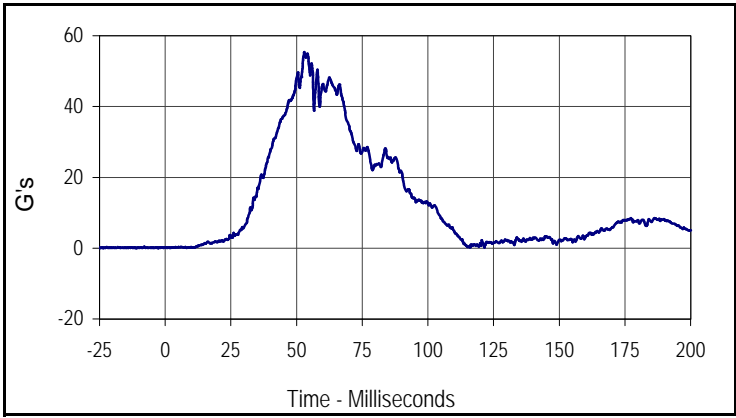
Curve Description			
Left Rear (10 Yr.) Pelvis X			
CURNO	Type	SAE Class	Units
147	FIL	1000	G's
Max	Time	Min	Time
7.5	184.1	-42.6	54.2



Curve Description			
Left Rear (10 Yr.) Pelvis Y			
CURNO	Type	SAE Class	Units
148	FIL	1000	G's
Max	Time	Min	Time
13.4	91.6	-13.0	54.1



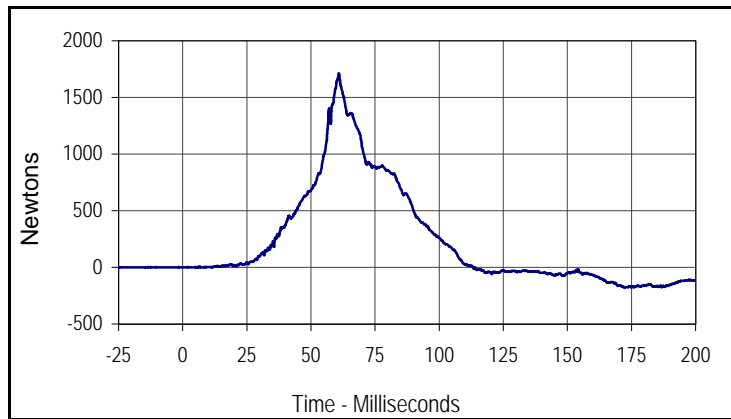
Curve Description			
Left Rear (10 Yr.) Pelvis Z			
CURNO	Type	SAE Class	Units
149	FIL	1000	G's
Max	Time	Min	Time
4.7	182.0	-35.1	52.7



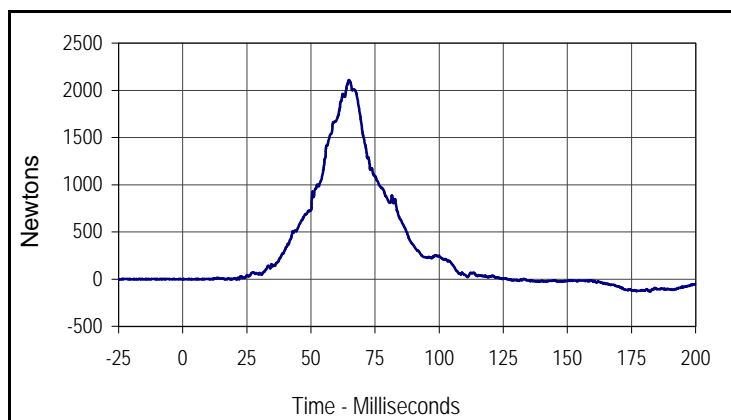
Curve Description			
Left Rear (10 Yr.) Pelvis Resultant			
CURNO	Type	SAE Class	Units
147	RES	1000	G's
Max	Time	Min	Time
55.4	53.0	0.0	2.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

Test Date: 12/16/04
 NHTSA No.: M55302



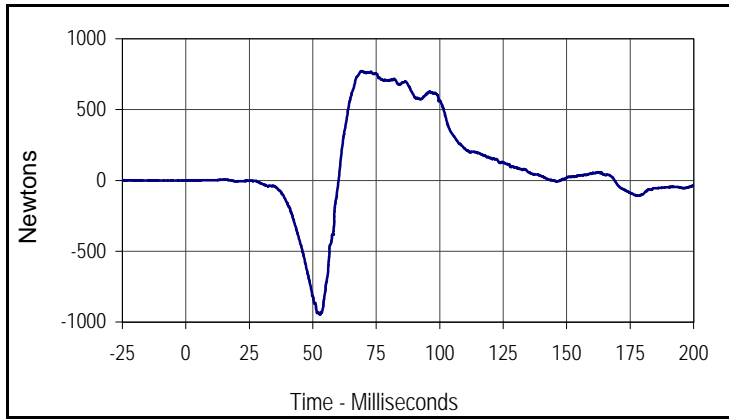
Curve Description			
Left Rear (10 Yr.) Left Femur Force			
CURNO	Type	SAE Class	Units
150	FIL	600	Newtons
Max	Time	Min	Time
1712.8	60.9	-176.9	172.2



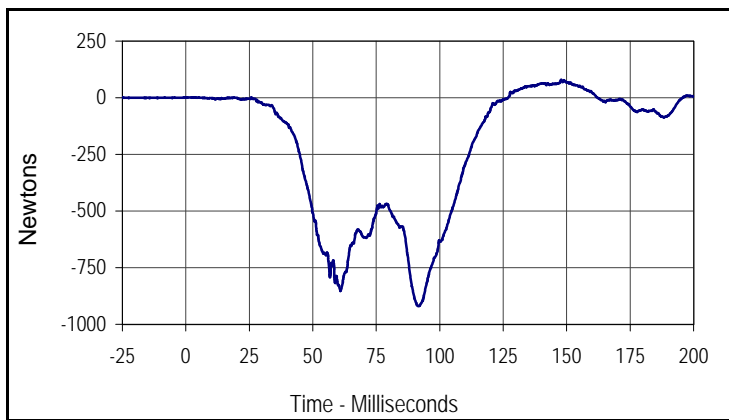
Curve Description			
Left Rear (10 Yr.) Right Femur Force			
CURNO	Type	SAE Class	Units
151	FIL	600	Newtons
Max	Time	Min	Time
2109.8	64.8	-130.8	182.3

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

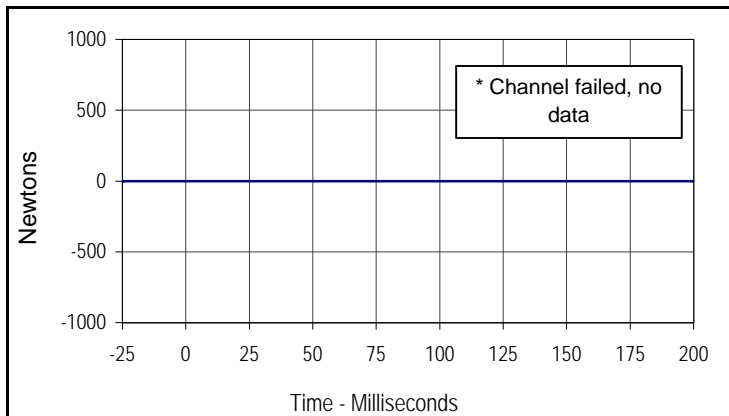
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Left Rear (10 Yr.) Lumbar Force X			
CURNO	Type	SAE Class	Units
152	FIL	1000	Newtons
Max	Time	Min	Time
771.1	69.2	-949.1	52.8

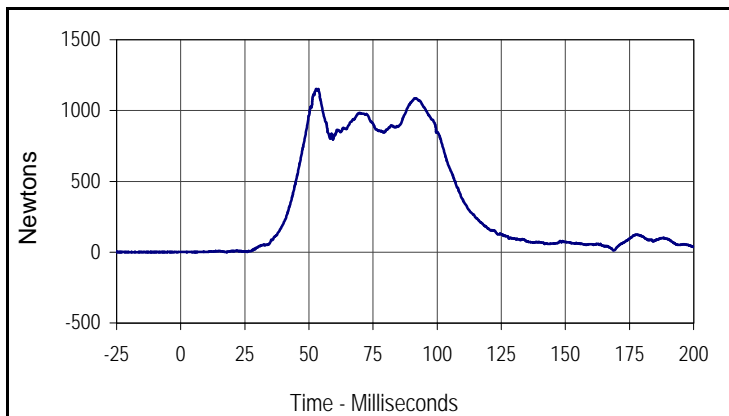


Curve Description			
Left Rear (10 Yr.) Lumbar Force Y			
CURNO	Type	SAE Class	Units
153	FIL	1000	Newtons
Max	Time	Min	Time
78.8	147.9	-919.6	91.5



Curve Description			
Left Rear (10 Yr.) Lumbar Force Z			
CURNO	Type	SAE Class	Units
154	FIL	1000	Newtons
Max	Time	Min	Time
0.0	0.0	0.0	0.0

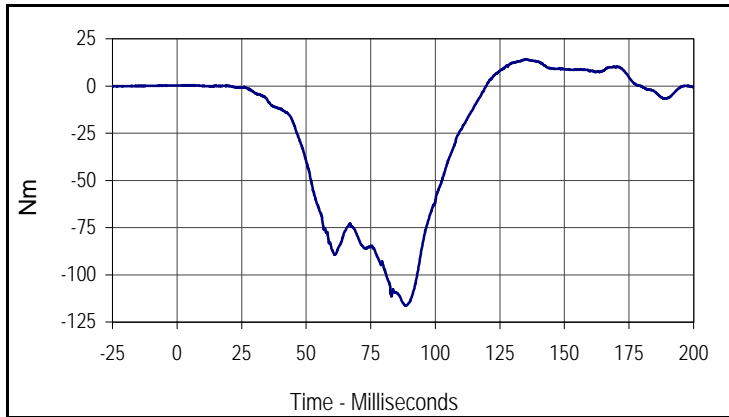
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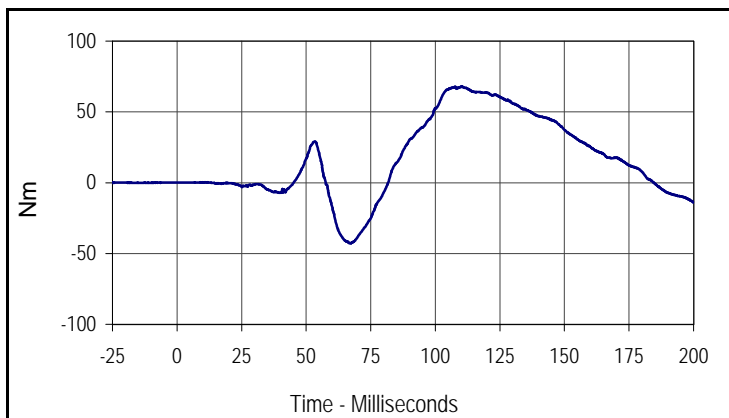
Curve Description			
Left Rear (10 Yr.) Lumbar Force Resultant			
CURNO	Type	SAE Class	Units
152	RES	1000	Newtons
Max	Time	Min	Time
1152.1	53.6	0.1	5.9

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

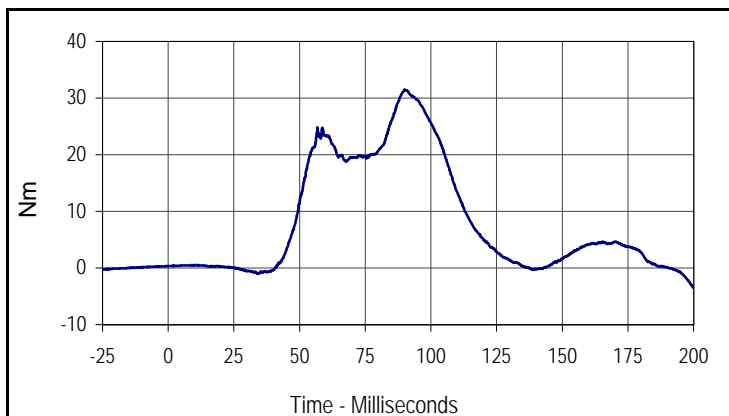
Test Date: 12/16/04
 NHTSA No.: M55302



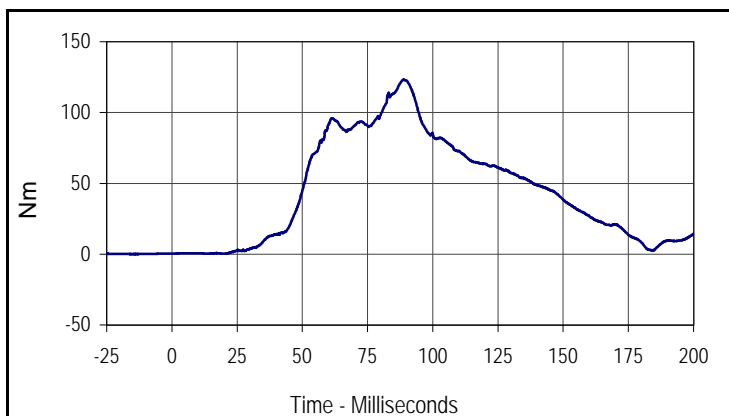
Curve Description			
Left Rear (10 Yr.) Lumbar Moment X			
CURNO	Type	SAE Class	Units
155	FIL	1000	Nm
Max	Time	Min	Time
14.2	135.3	-116.3	88.5



Curve Description			
Left Rear (10 Yr.) Lumbar Moment Y			
CURNO	Type	SAE Class	Units
156	FIL	1000	Nm
Max	Time	Min	Time
68.0	110.2	-42.9	67.0



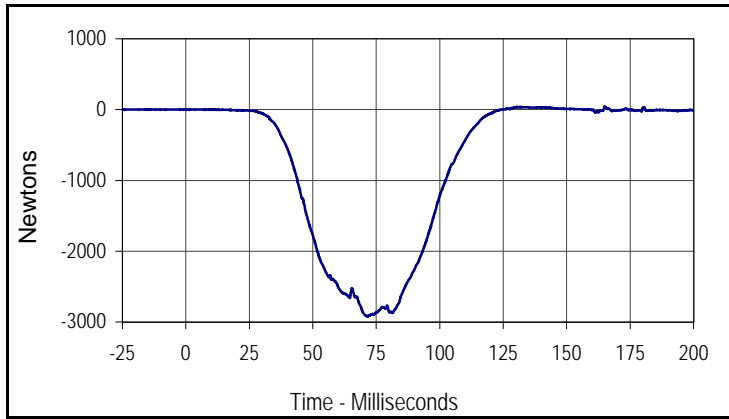
Curve Description			
Left Rear (10 Yr.) Lumbar Moment Z			
CURNO	Type	SAE Class	Units
157	FIL	1000	Nm
Max	Time	Min	Time
31.5	90.0	-3.5	200.0



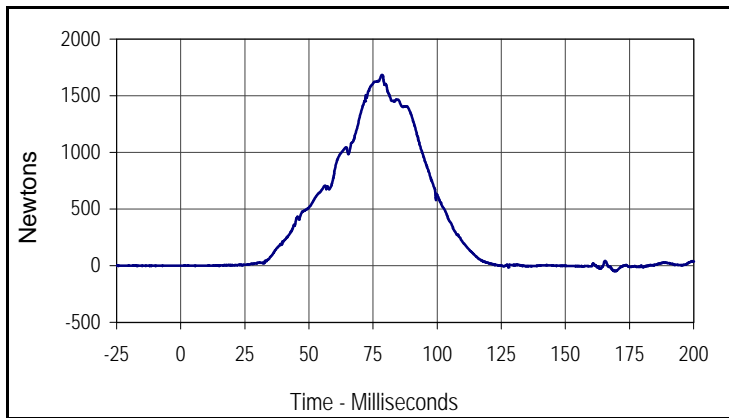
Curve Description			
Left Rear (10 Yr.) Lumbar Moment Resultant			
CURNO	Type	SAE Class	Units
155	RES	1000	Nm
Max	Time	Min	Time
123.2	89.0	0.3	20.1

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

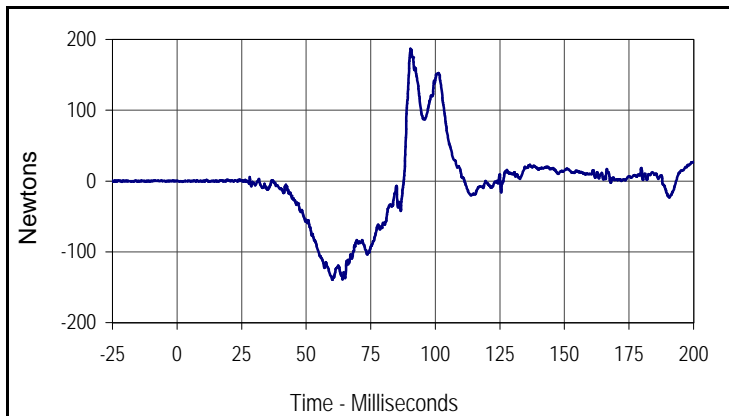
Test Date: 12/16/04
 NHTSA No.: M55302



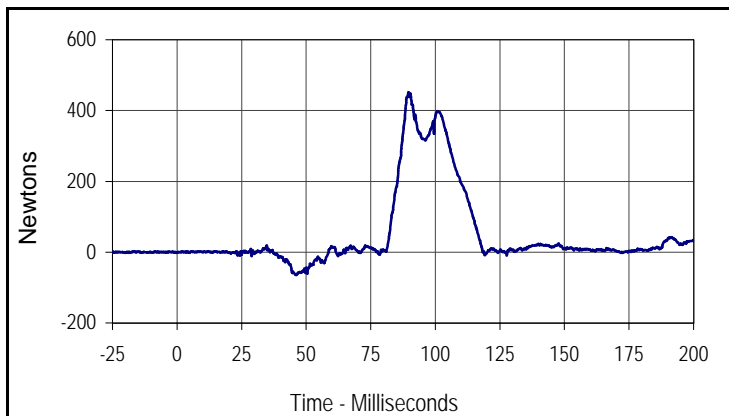
Curve Description			
Left Rear (10 Yr.) Left Clavicle Force X			
CURNO	Type	SAE Class	Units
158	FIL	1000	Newtons
Max	Time	Min	Time
40.3	165.0	-2921.6	71.6



Curve Description			
Left Rear (10 Yr.) Left Clavicle Force Z			
CURNO	Type	SAE Class	Units
159	FIL	1000	Newtons
Max	Time	Min	Time
1683.6	78.6	-48.0	169.6



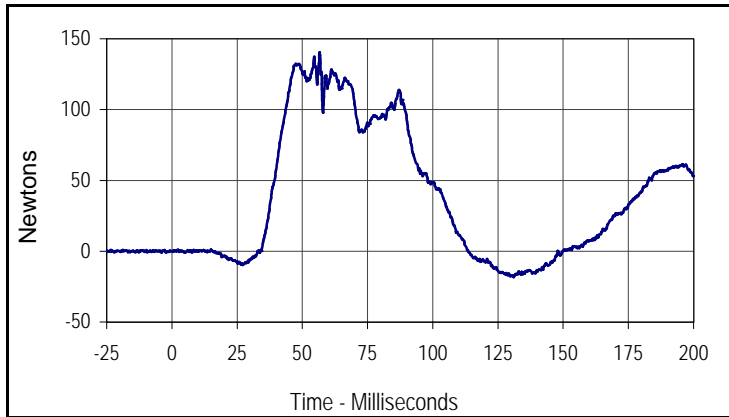
Curve Description			
Left Rear (10 Yr.) Right Clavicle Force X			
CURNO	Type	SAE Class	Units
160	FIL	1000	Newtons
Max	Time	Min	Time
187.0	90.4	-139.7	60.2



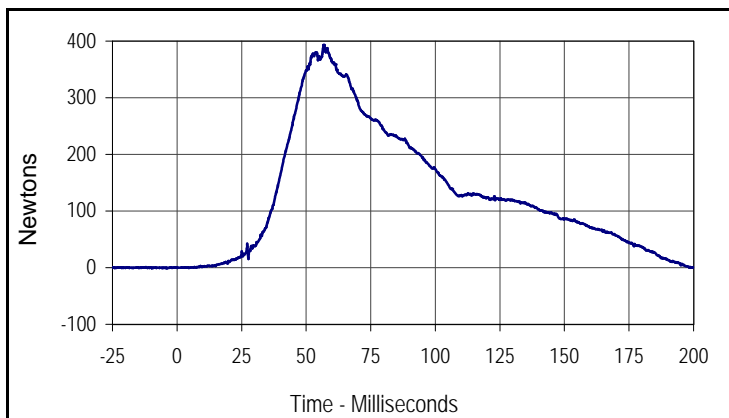
Curve Description			
Left Rear (10 Yr.) Right Clavicle Force Z			
CURNO	Type	SAE Class	Units
161	FIL	1000	Newtons
Max	Time	Min	Time
451.8	89.6	-64.9	46.1

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

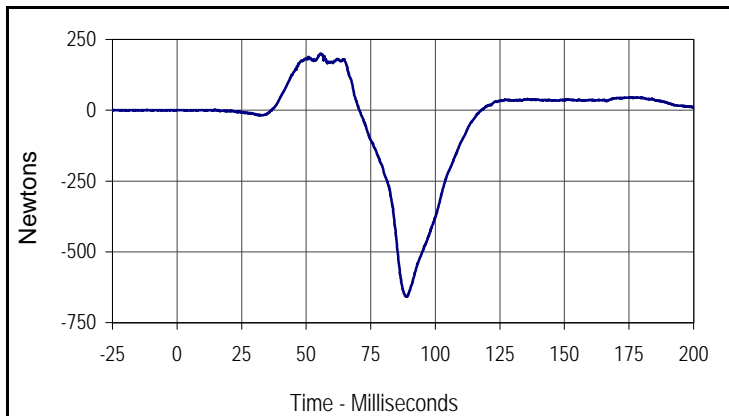
Test Date: 12/16/04
 NHTSA No.: M55302



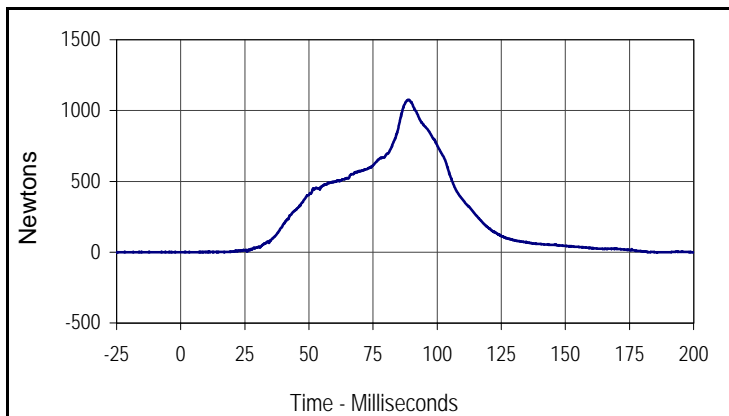
Curve Description			
Left Rear (10 Yr.) Left Upper ASIS Force			
CURNO	Type	SAE Class	Units
162	FIL	1000	Newtons
Max	Time	Min	Time
140.5	56.7	-18.3	131.0



Curve Description			
Left Rear (10 Yr.) Left Lower ASIS Force			
CURNO	Type	SAE Class	Units
163	FIL	1000	Newtons
Max	Time	Min	Time
393.2	57.0	-0.3	4.6



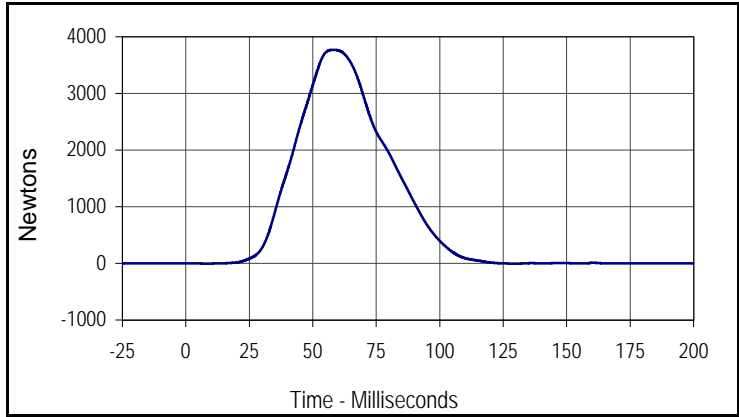
Curve Description			
Left Rear (10 Yr.) Right Upper ASIS Force			
CURNO	Type	SAE Class	Units
164	FIL	1000	Newtons
Max	Time	Min	Time
200.2	55.6	-658.8	89.0



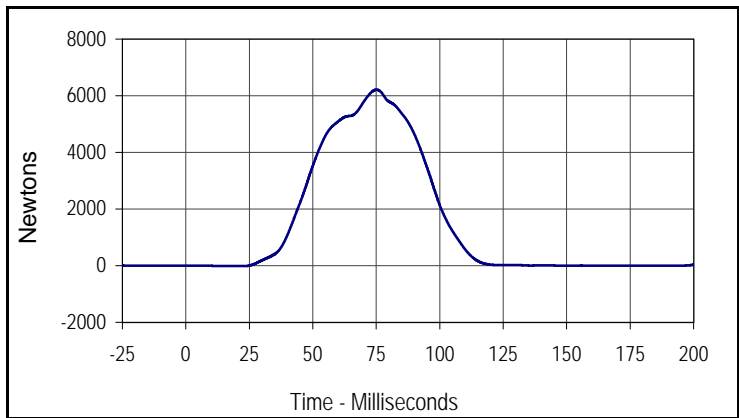
Curve Description			
Left Rear (10 Yr.) Right Lower ASIS Force			
CURNO	Type	SAE Class	Units
165	FIL	1000	Newtons
Max	Time	Min	Time
1075.3	88.9	-2.2	185.8

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

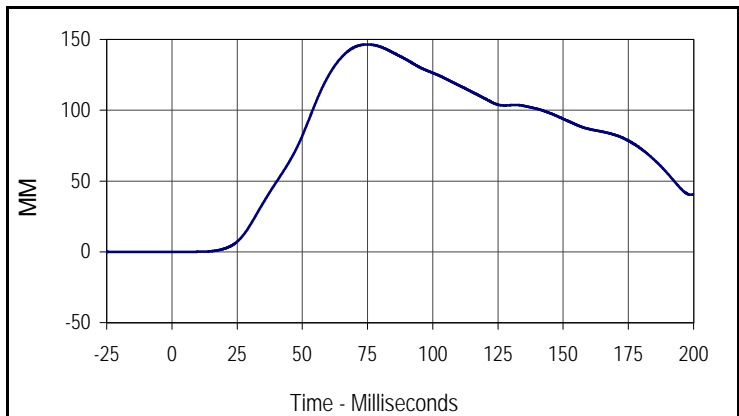
Test Date: 12/16/04
 NHTSA No.: M55302



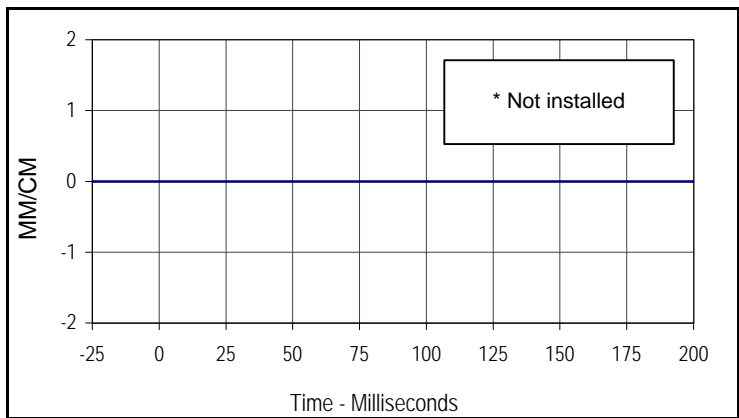
Curve Description			
Left Rear (10 Yr.) Lap Belt Force			
CURNO	Type	SAE Class	Units
166	FIL	60	Newtons
Max	Time	Min	Time
3769.6	58.1	-4.4	8.2



Curve Description			
Left Rear (10 Yr.) Shoulder Belt Force			
CURNO	Type	SAE Class	Units
167	FIL	60	Newtons
Max	Time	Min	Time
6214.3	75.1	-14.5	22.3



Curve Description			
Left Rear (10 Yr.) Shoulder Belt Pullout (10Yr.)			
CURNO	Type	SAE Class	Units
168	FIL	60	MM
Max	Time	Min	Time
146.4	74.9	0.0	0.9

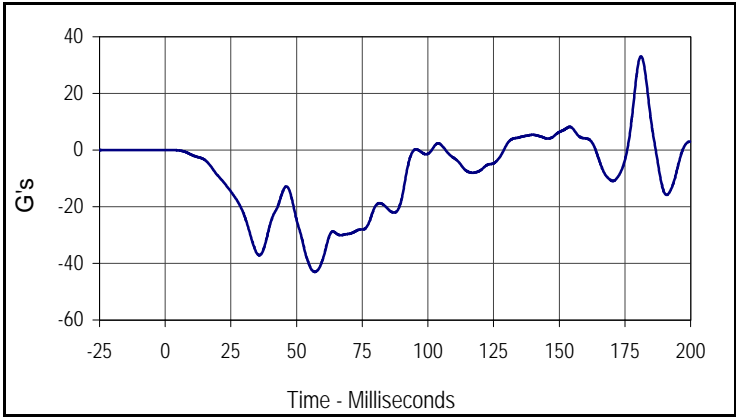


Curve Description			
Left Rear (10 Yr.) Shoulder Belt Elongation			
CURNO	Type	SAE Class	Units
169	FIL	60	MM/CM
Max	Time	Min	Time
0.00	0.0	0.00	0.0

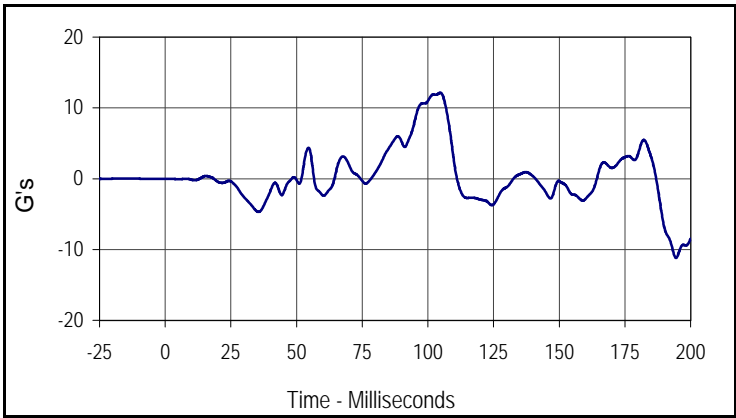
* Not installed

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

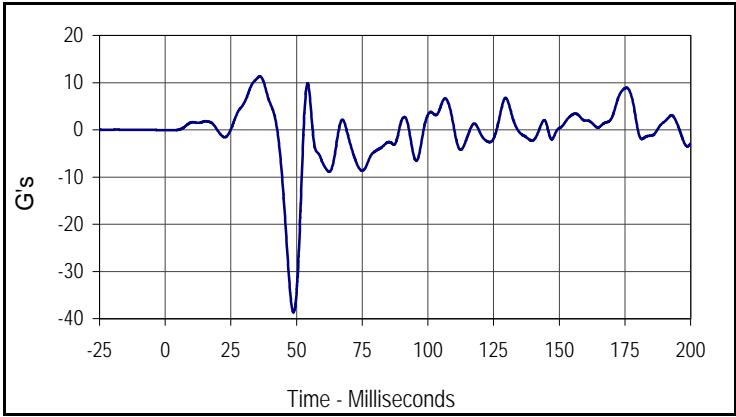
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 NHTSA No.: M55302



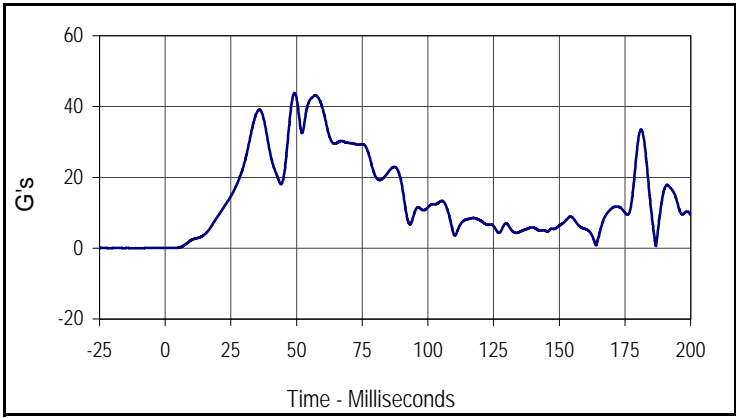
Curve Description			
Left Rear (10 Yr.) CRS X			
CURNO	Type	SAE Class	Units
170	FIL	60	G's
Max	Time	Min	Time
33.1	181.1	-43.0	57.0



Curve Description			
Left Rear (10 Yr.) CRS Y			
CURNO	Type	SAE Class	Units
171	FIL	60	G's
Max	Time	Min	Time
12.1	104.7	-11.2	194.5



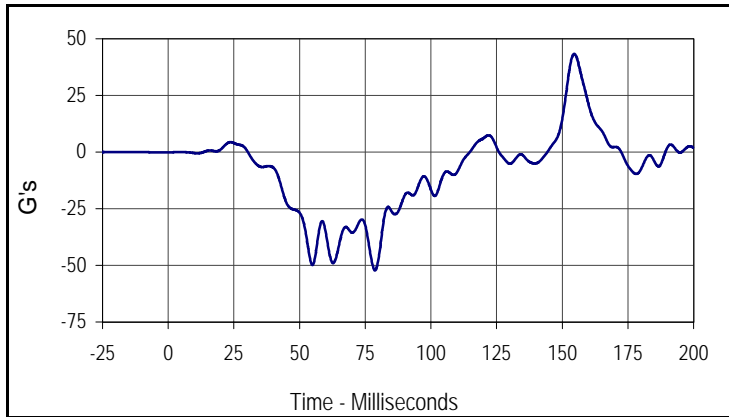
Curve Description			
Left Rear (10 Yr.) CRS Z			
CURNO	Type	SAE Class	Units
172	FIL	60	G's
Max	Time	Min	Time
11.3	36.0	-38.7	48.8



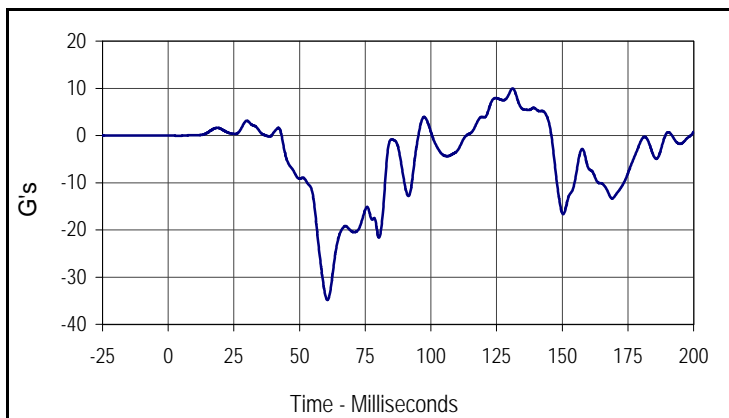
Curve Description			
Left Rear (10 Yr.) CRS Resultant			
CURNO	Type	SAE Class	Units
170	RES	60	G's
Max	Time	Min	Time
43.8	49.2	0.1	0.4

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

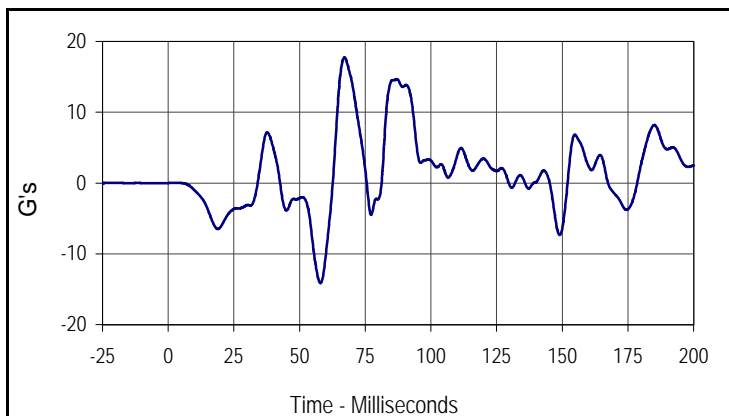
Test Date: 12/16/04
 NHTSA No.: M55302



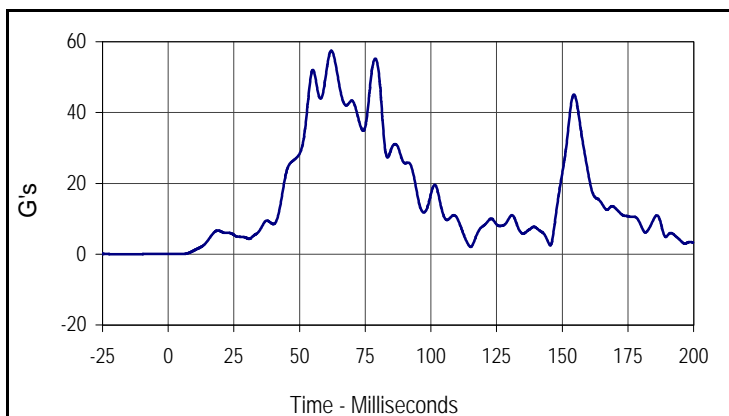
Curve Description			
Left Rear (10 Yr.) CRS Seat Back X			
CURNO	Type	SAE Class	Units
173	FIL	60	G's
Max	Time	Min	Time
43.4	154.6	-52.3	78.7



Curve Description			
Left Rear (10 Yr.) CRS Seat Back Y			
CURNO	Type	SAE Class	Units
174	FIL	60	G's
Max	Time	Min	Time
10.0	131.1	-34.8	60.6



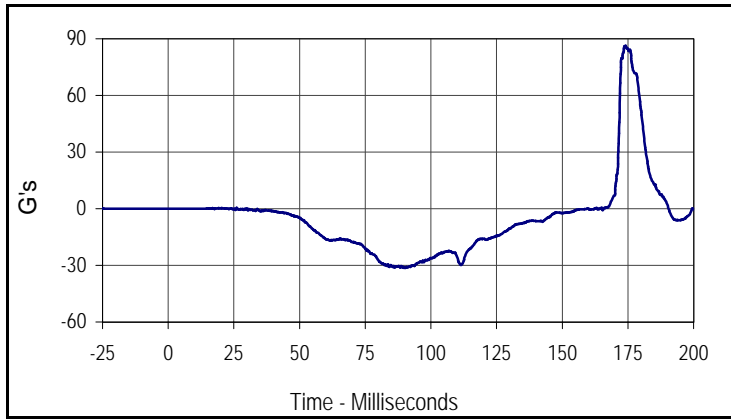
Curve Description			
Left Rear (10 Yr.) CRS Seat Back Z			
CURNO	Type	SAE Class	Units
175	FIL	60	G's
Max	Time	Min	Time
17.7	67.1	-14.2	57.9



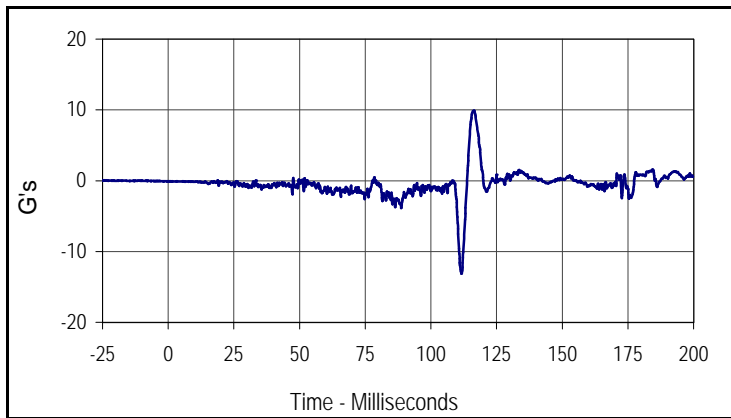
Curve Description			
Left Rear (10 Yr.) CRS Seat Back Resultant			
CURNO	Type	SAE Class	Units
173	RES	60	G's
Max	Time	Min	Time
57.4	62.1	0.0	5.4

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

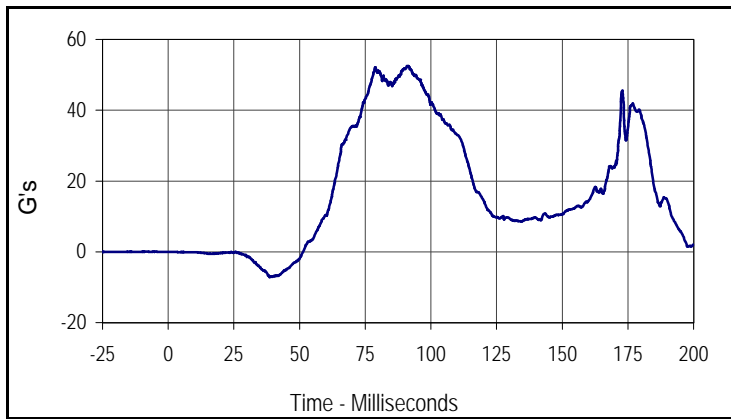
Test Date: 12/16/04
 NHTSA No.: M55302



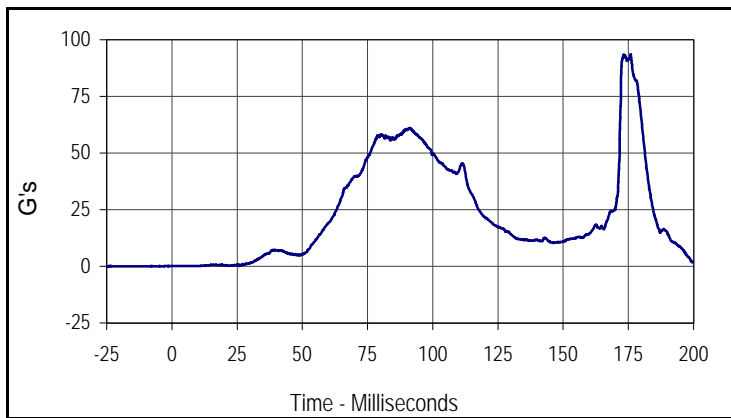
Curve Description			
Right Rear (3 Yr.) Head X			
CURNO	Type	SAE Class	Units
176	FIL	1000	G's
Max	Time	Min	Time
86.3	174.1	-31.4	90.4



Curve Description			
Right Rear (3 Yr.) Head Y			
CURNO	Type	SAE Class	Units
177	FIL	1000	G's
Max	Time	Min	Time
9.9	116.4	-13.1	111.7



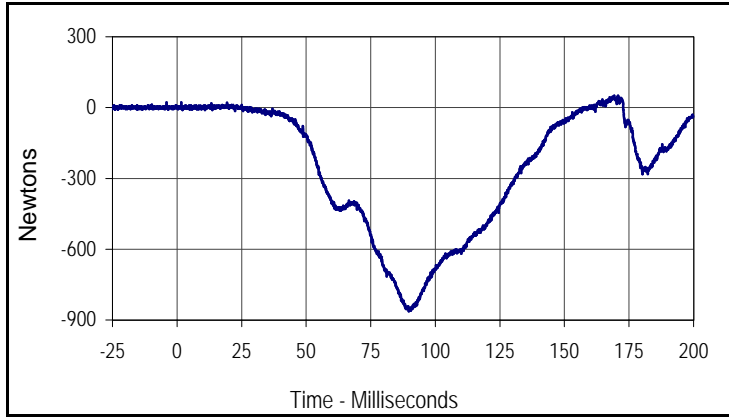
Curve Description			
Right Rear (3 Yr.) Head Z			
CURNO	Type	SAE Class	Units
178	FIL	1000	G's
Max	Time	Min	Time
52.5	90.9	-7.1	38.6



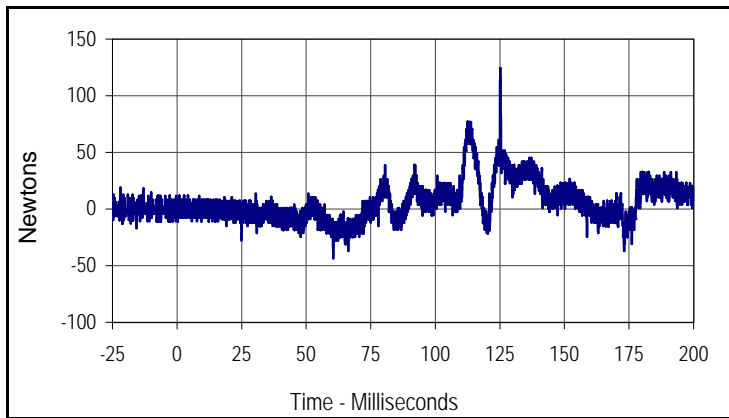
Curve Description			
Right Rear (3 Yr.) Head Resultant			
CURNO	Type	SAE Class	Units
176	RES	1000	G's
Max	Time	Min	Time
93.5	175.8	0.1	0.8

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

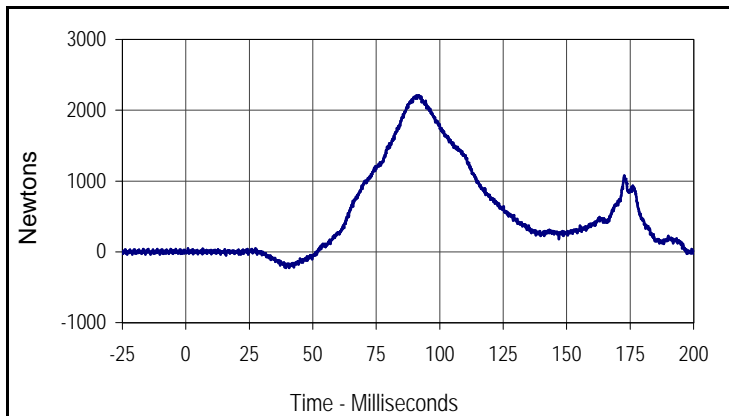
Test Date: 12/16/04
 NHTSA No.: M55302



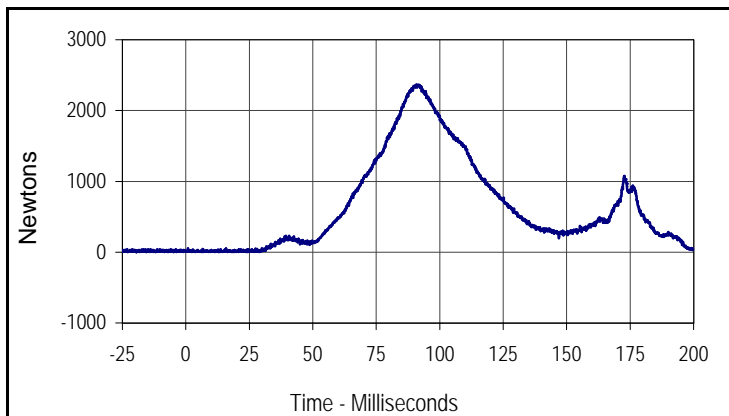
Curve Description			
Right Rear (3 Yr.) Upper Neck Force X			
CURNO	Type	SAE Class	Units
179	FIL	1000	Newtons
Max	Time	Min	Time
50.2	169.3	-864.0	89.7



Curve Description			
Right Rear (3 Yr.) Upper Neck Force Y			
CURNO	Type	SAE Class	Units
180	FIL	1000	Newtons
Max	Time	Min	Time
124.1	125.2	-43.4	60.5



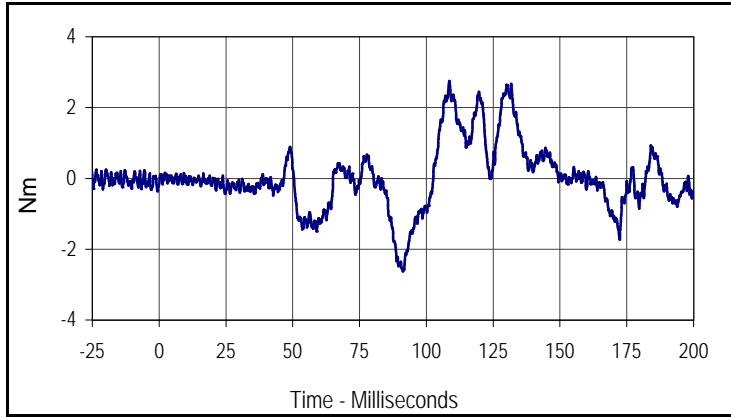
Curve Description			
Right Rear (3 Yr.) Upper Neck Force Z			
CURNO	Type	SAE Class	Units
181	FIL	1000	Newtons
Max	Time	Min	Time
2208.9	90.9	-226.6	39.4



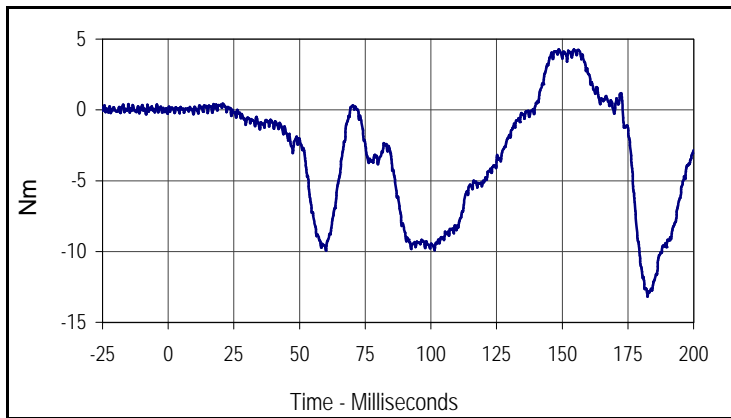
Curve Description			
Right Rear (3 Yr.) Upper Neck Force Resultant			
CURNO	Type	SAE Class	Units
179	RES	1000	Newtons
Max	Time	Min	Time
2365.0	90.9	1.5	23.6

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

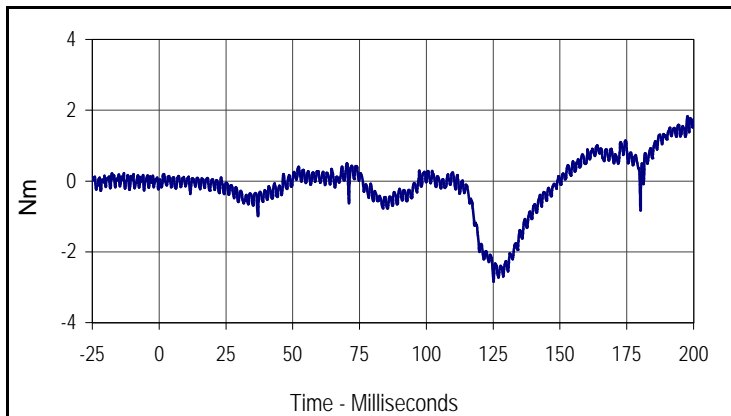
Test Date: 12/16/04
 NHTSA No.: M55302



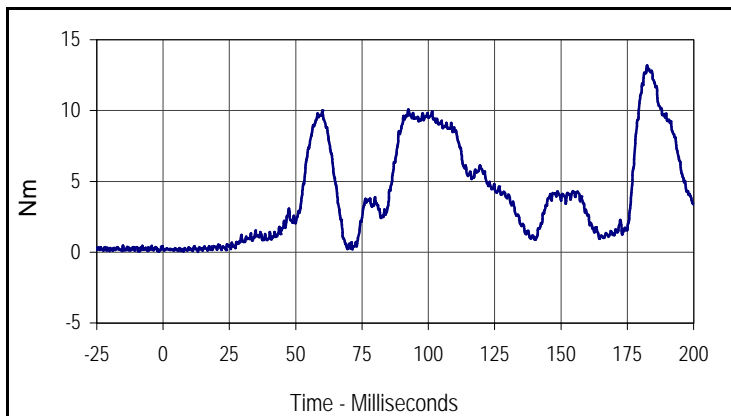
Curve Description			
Right Rear (3 Yr.) Upper Neck Moment X			
CURNO	Type	SAE Class	Units
182	FIL	600	Nm
Max	Time	Min	Time
2.7	108.6	-2.6	91.3



Curve Description			
Right Rear (3 Yr.) Upper Neck Moment Y			
CURNO	Type	SAE Class	Units
183	FIL	600	Nm
Max	Time	Min	Time
4.3	154.5	-13.2	182.5



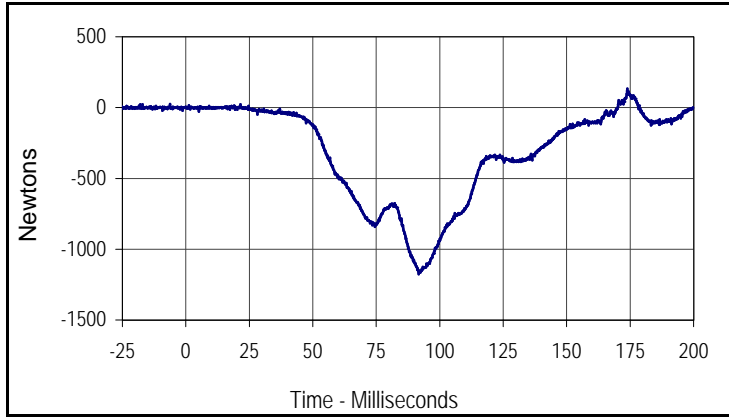
Curve Description			
Right Rear (3 Yr.) Upper Neck Moment Z			
CURNO	Type	SAE Class	Units
184	FIL	600	Nm
Max	Time	Min	Time
1.8	197.7	-2.8	125.2



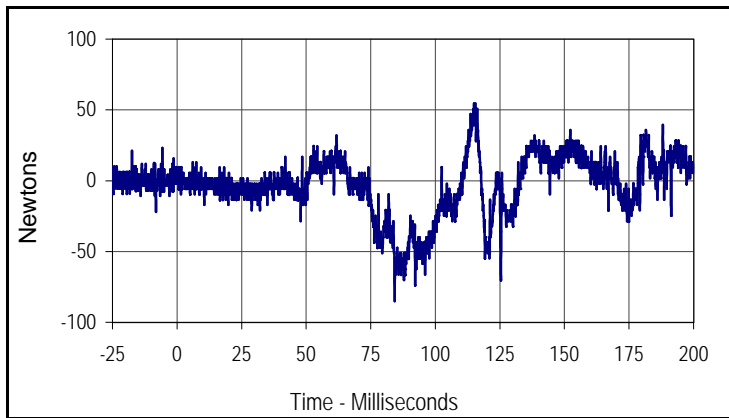
Curve Description			
Right Rear (3 Yr.) Upper Neck Moment Resultant			
CURNO	Type	SAE Class	Units
182	RES	600	Nm
Max	Time	Min	Time
13.2	182.5	0.0	13.1

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

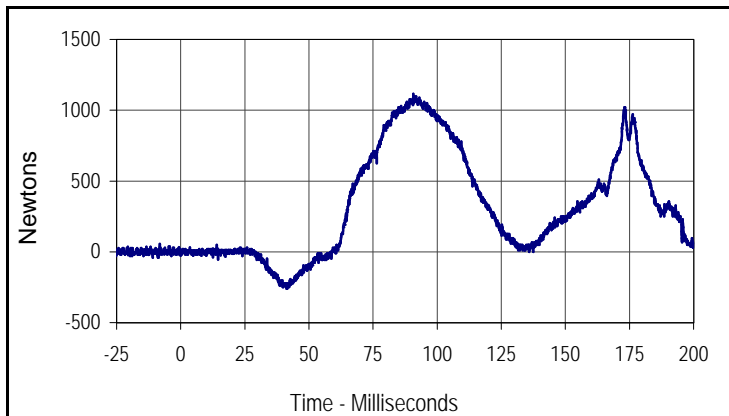
Test Date: 12/16/04
 NHTSA No.: M55302



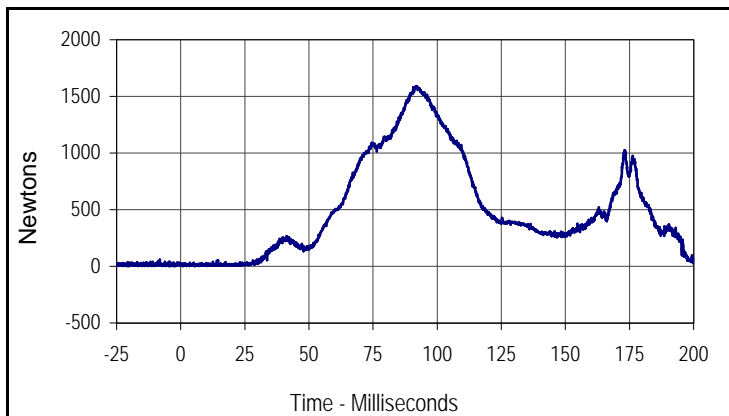
Curve Description			
Right Rear (3 Yr.) Lower Neck Force X			
CURNO	Type	SAE Class	Units
185	FIL	1000	Newtons
Max	Time	Min	Time
133.0	173.9	-1177.7	91.7



Curve Description			
Right Rear (3 Yr.) Lower Neck Force Y			
CURNO	Type	SAE Class	Units
186	FIL	1000	Newtons
Max	Time	Min	Time
54.6	115.0	-85.1	84.3



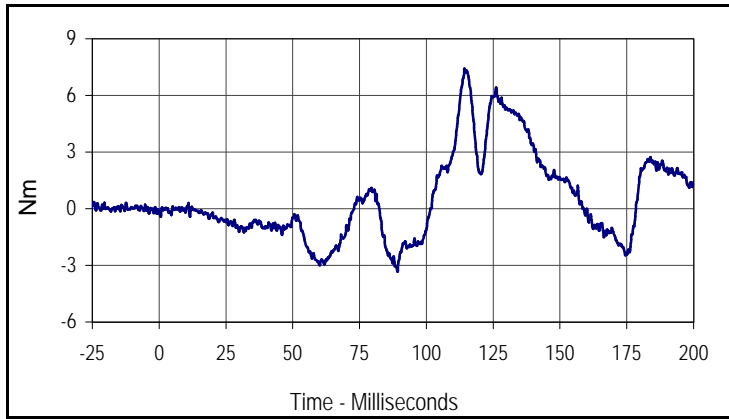
Curve Description			
Right Rear (3 Yr.) Lower Neck Force Z			
CURNO	Type	SAE Class	Units
187	FIL	1000	Newtons
Max	Time	Min	Time
1116.6	90.7	-259.9	41.3



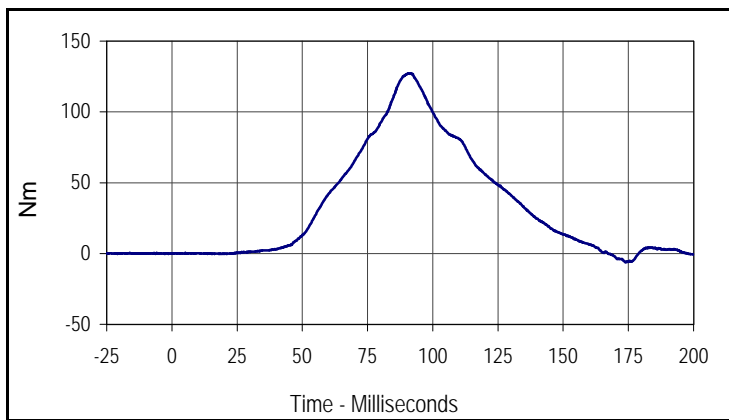
Curve Description			
Right Rear (3 Yr.) Lower Neck Force Resultant			
CURNO	Type	SAE Class	Units
185	RES	1000	Newtons
Max	Time	Min	Time
1591.0	91.8	2.4	10.6

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

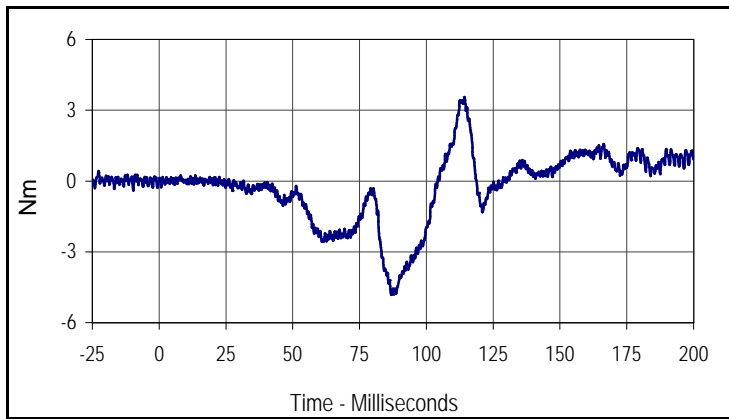
Test Date: 12/16/04
 NHTSA No.: M55302



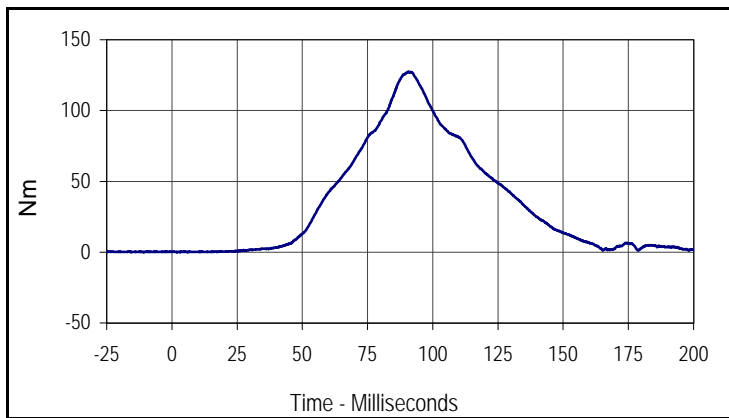
Curve Description			
Right Rear (3 Yr.) Lower Neck Moment X			
CURNO	Type	SAE Class	Units
188	FIL	600	Nm
Max	Time	Min	Time
7.4	114.3	-3.3	89.2



Curve Description			
Right Rear (3 Yr.) Lower Neck Moment Y			
CURNO	Type	SAE Class	Units
189	FIL	600	Nm
Max	Time	Min	Time
127.3	90.6	-6.1	173.9



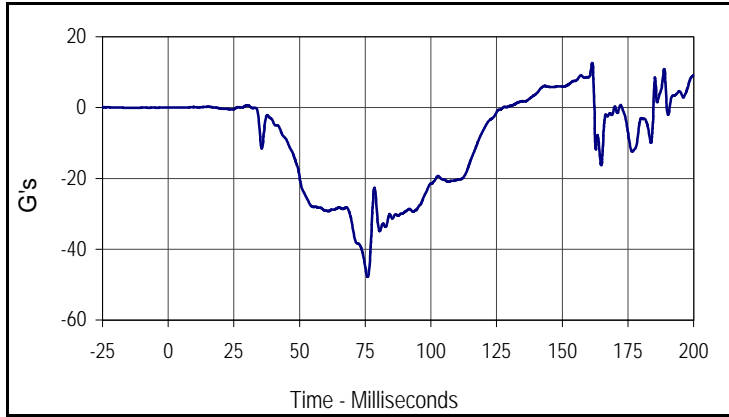
Curve Description			
Right Rear (3 Yr.) Lower Neck Moment Z			
CURNO	Type	SAE Class	Units
190	FIL	600	Nm
Max	Time	Min	Time
3.6	114.3	-4.8	86.9



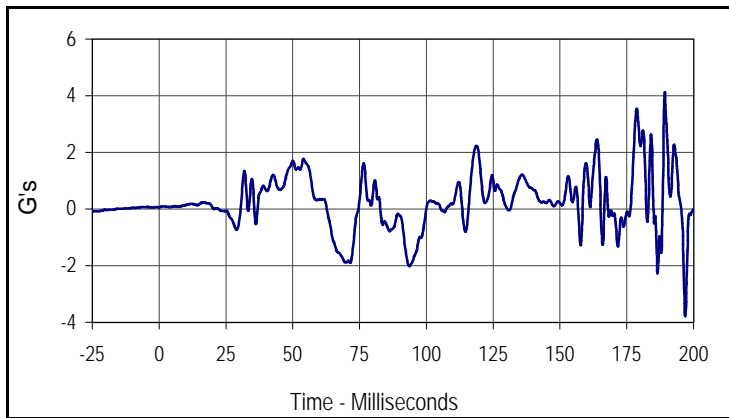
Curve Description			
Right Rear (3 Yr.) Lower Neck Moment Res.			
CURNO	Type	SAE Class	Units
188	RES	600	Nm
Max	Time	Min	Time
127.4	90.6	0.0	6.1

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

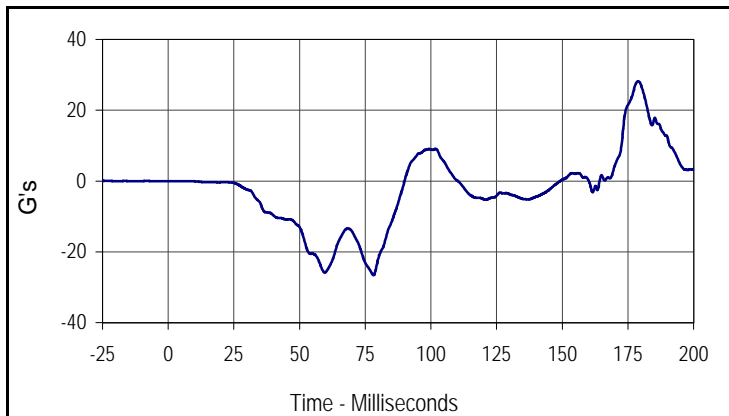
Test Date: 12/16/04
 NHTSA No.: M55302



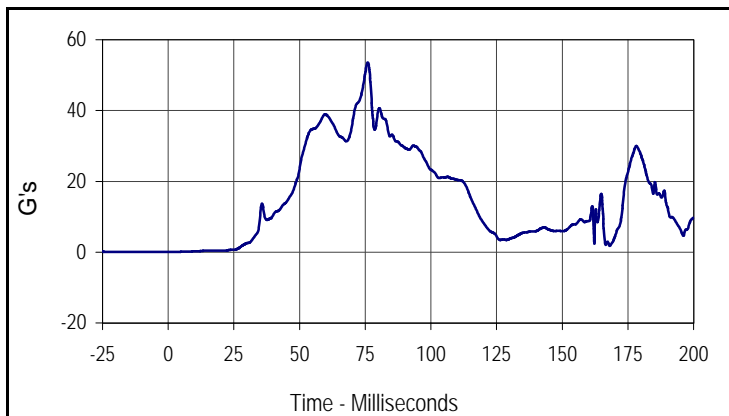
Curve Description			
Right Rear (3 Yr.) Chest X			
CURNO	Type	SAE Class	Units
191	FIL	180	G's
Max	Time	Min	Time
12.6	161.4	-47.8	75.9



Curve Description			
Right Rear (3 Yr.) Chest Y			
CURNO	Type	SAE Class	Units
192	FIL	180	G's
Max	Time	Min	Time
4.1	189.2	-3.8	196.9



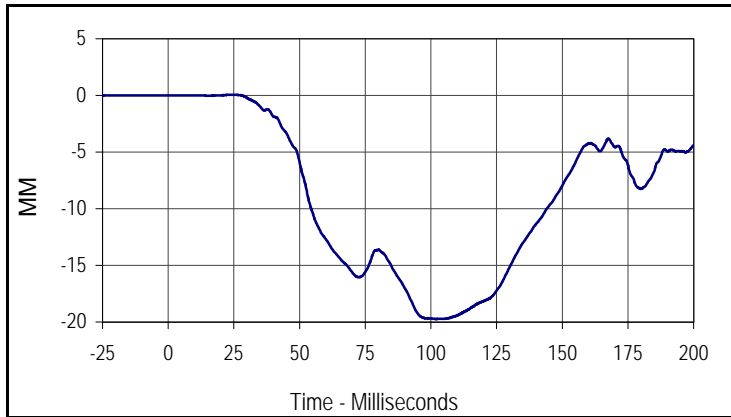
Curve Description			
Right Rear (3 Yr.) Chest Z			
CURNO	Type	SAE Class	Units
193	FIL	180	G's
Max	Time	Min	Time
28.1	179.0	-26.6	78.1



Curve Description			
Right Rear (3 Yr.) Chest Resultant			
CURNO	Type	SAE Class	Units
191	RES	180	G's
Max	Time	Min	Time
53.6	76.0	0.1	0.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

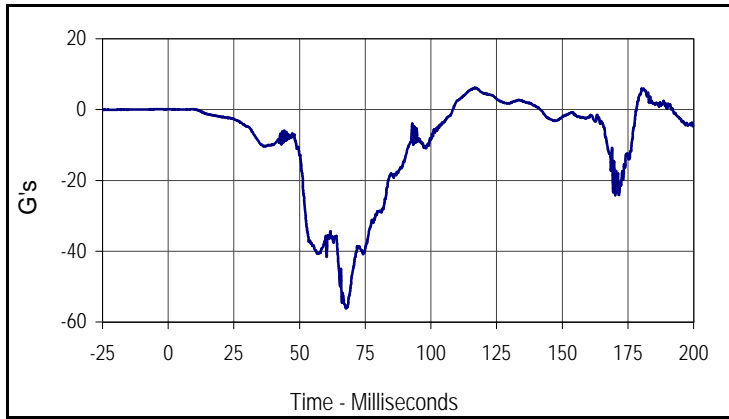
Test Date: 12/16/04
 NHTSA No.: M55302



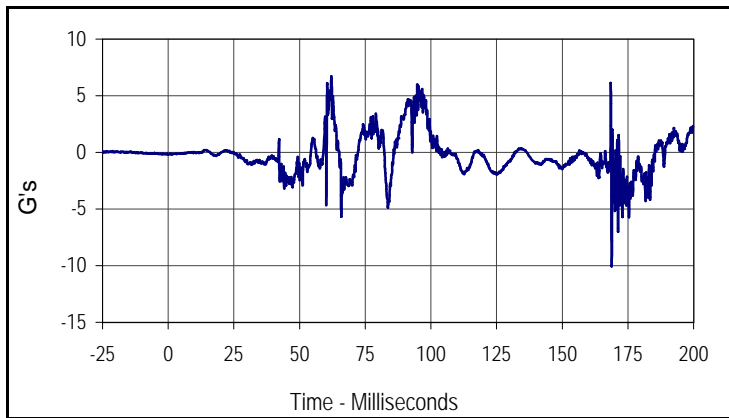
Curve Description			
Right Rear (3 Yr.) Chest Deflection			
CURNO	Type	SAE Class	Units
194	FIL	600	MM
Max	Time	Min	Time
0.1	23.2	-19.8	102.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

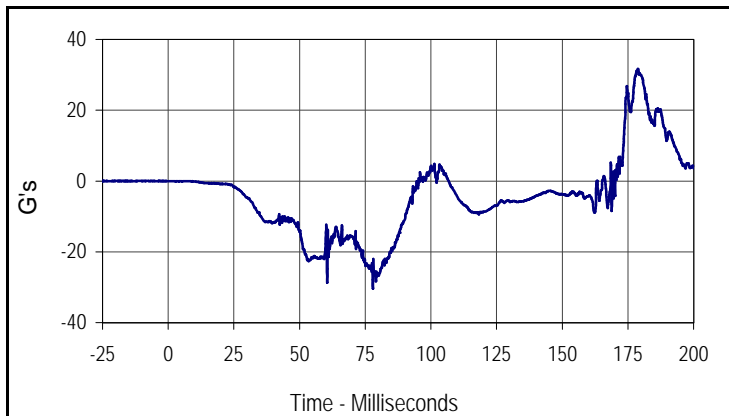
Test Date: 12/16/04
 NHTSA No.: M55302



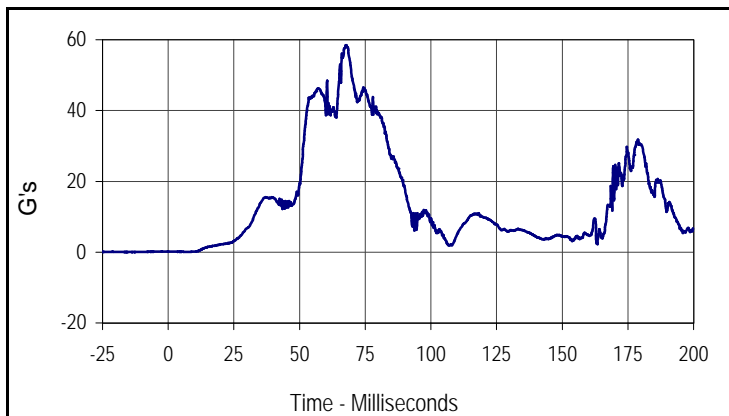
Curve Description			
Right Rear (3 Yr.) Pelvis X			
CURNO	Type	SAE Class	Units
195	FIL	1000	G's
Max	Time	Min	Time
6.1	116.7	-56.2	67.7



Curve Description			
Right Rear (3 Yr.) Pelvis Y			
CURNO	Type	SAE Class	Units
196	FIL	1000	G's
Max	Time	Min	Time
6.7	62.1	-10.0	168.8



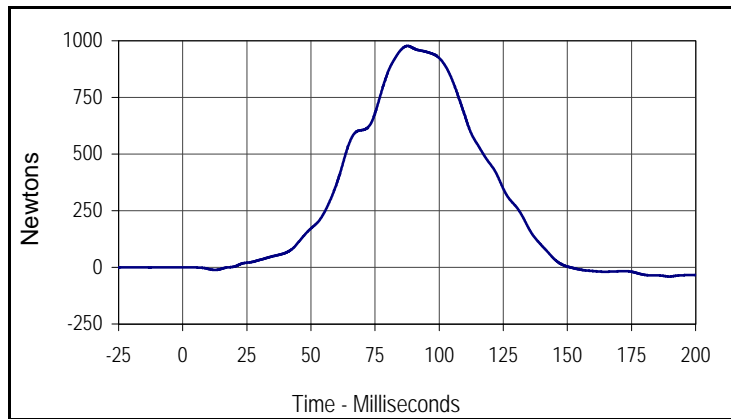
Curve Description			
Right Rear (3 Yr.) Pelvis Z			
CURNO	Type	SAE Class	Units
197	FIL	1000	G's
Max	Time	Min	Time
31.7	178.8	-30.3	77.9



Curve Description			
Right Rear (3 Yr.) Pelvis Resultant			
CURNO	Type	SAE Class	Units
195	RES	1000	G's
Max	Time	Min	Time
58.5	67.7	0.0	7.9

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

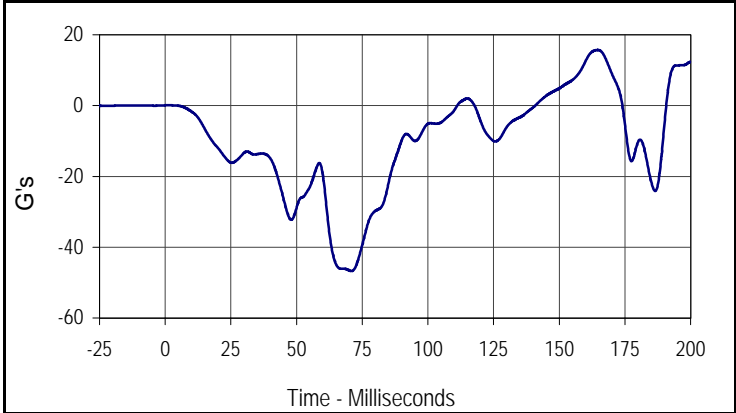
Test Date: 12/16/04
 NHTSA No.: M55302



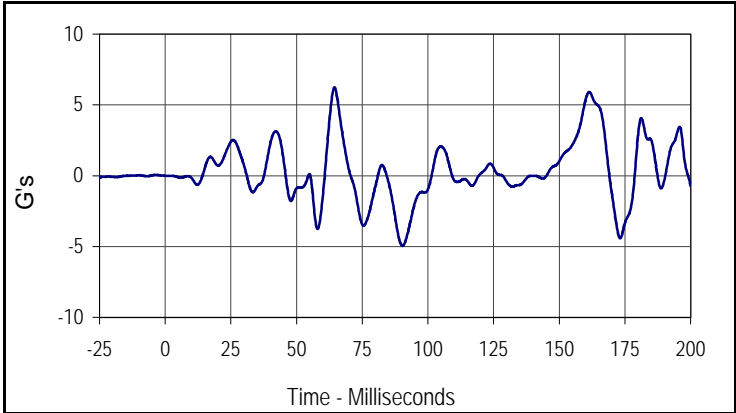
Curve Description			
Right Rear (3 Yr.) CRS Upper Tether Force			
CURNO	Type	SAE Class	Units
198	FIL	60	Newtons
Max	Time	Min	Time
977.2	87.7	-40.6	189.7

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

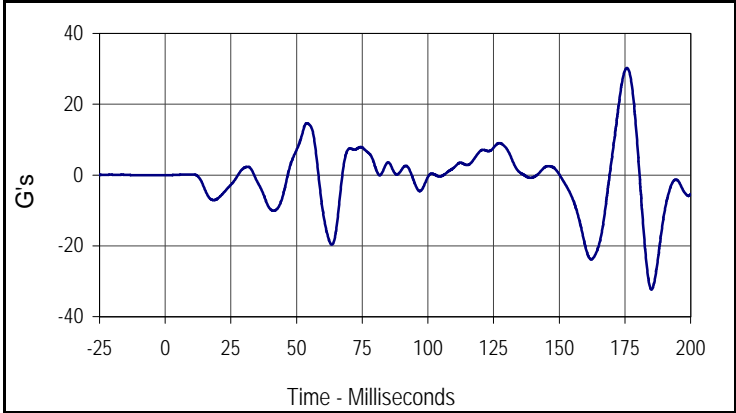
Test Date: 12/16/04
 NHTSA No.: M55302



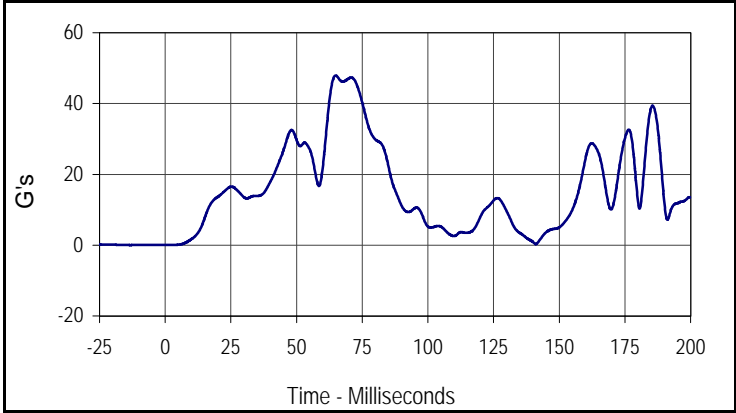
Curve Description			
Right Rear (3 Yr.) CRS X			
CURNO	Type	SAE Class	Units
199	FIL	60	G's
Max	Time	Min	Time
15.7	164.7	-46.7	70.9



Curve Description			
Right Rear (3 Yr.) CRS Y			
CURNO	Type	SAE Class	Units
200	FIL	60	G's
Max	Time	Min	Time
6.2	64.4	-4.9	90.3



Curve Description			
Right Rear (3 Yr.) CRS Z			
CURNO	Type	SAE Class	Units
201	FIL	60	G's
Max	Time	Min	Time
30.2	175.8	-32.3	185.1



Curve Description			
Right Rear (3 Yr.) CRS Resultant			
CURNO	Type	SAE Class	Units
199	RES	60	G's
Max	Time	Min	Time
47.9	64.9	0.1	3.4

SECTION F-4

CHILD DUMMY INSTRUMENTATION INFORMATION

**2005 NHTSA 35mph NCAP
Instrumentation Data Channel Assignments
Left Rear Child A.T.D. Serial Number 011 (10 Yr.)
12/16/04
2005 Honda Odyssey 5-Door MPV**

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
134	HEAD CG	X	GPAC047	Accel.,1/2 bridge	Endevco	7264-2000	G
135	HEAD CG	Y	GPAC048	Accel.,1/2 bridge	Endevco	7264-2000	G
136	HEAD CG	Z	GPAC049	Accel.,1/2 bridge	Endevco	7264-2000	G
137	UPPER NECK FORCE	X	10UNFX	Load cell, six axis neck	R. A. Denton	IF-234	N
138	UPPER NECK FORCE	Y	10UNFY	Load cell, six axis neck	R. A. Denton	IF-234	N
139	UPPER NECK FORCE	Z	10UNFZ	Load cell, six axis neck	R. A. Denton	IF-234	N
140	UPPER NECK MOMENT	X	10UNMX	Load cell, six axis neck	R. A. Denton	IF-234	Nm
141	UPPER NECK MOMENT	Y	10UNMY	Load cell, six axis neck	R. A. Denton	IF-234	Nm
142	UPPER NECK MOMENT	Z	10UNMZ	Load cell, six axis neck	R. A. Denton	IF-234	Nm
143	CHEST CG	X	2116-A01	Accel., Full Bridge	Entran	2000JF	G
144	CHEST CG	Y	2116-A06	Accel., Full Bridge	Entran	2000JF	G
145	CHEST CG	Z	2116-A07	Accel., Full Bridge	Entran	2000JF	G
146	CHEST DEFLECTION	X	10CP	Rotary Pot Chest	Servo	14CBI	MM
147	PELVIS	X	2116-N07	Accel., Full Bridge	Entran	2000JF	G
148	PELVIS	Y	2116-A03	Accel., Full Bridge	Entran	2000JF	G
149	PELVIS	Z	2116-A17	Accel., Full Bridge	Entran	2000JF	G
150	LEFT FEMUR FORCE	Z	KEFF001	Load cell, Femur	R.A. Denton	2090	N
151	RIGHT FEMUR FORCE	Z	KEFF002	Load cell, Femur	R.A. Denton	2090	N
152	LUMBAR FORCE	X	LUMFX	Load cell, Lumbar	R.A. Denton	2431	N
153	LUMBAR FORCE	Y	LUMFY	Load cell, Lumbar	R.A. Denton	2431	N
154	LUMBAR FORCE	Z	LUMFZ	Load cell, Lumbar	R.A. Denton	2431	N
155	LUMBAR MOMENT	X	LUMMX	Load cell, Lumbar	R.A. Denton	2431	Nm
156	LUMBAR MOMENT	Y	LUMMY	Load cell, Lumbar	R.A. Denton	2431	Nm
157	LUMBAR MOMENT	Z	LUMMZ	Load cell, Lumbar	R.A. Denton	2431	Nm

E4-1

TR-P25001-08-NC

**2005 NHTSA 35mph NCAP
Instrumentation Data Channel Assignments
Left Rear Child A.T.D. Serial Number 011 (10 Yr.)
12/16/04
2005 Honda Odyssey 5-Door MPV**

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
158	LEFT CLAVICLE FORCE	X	CLFX	Load cell, Clavicle	R.A. Denton	5400J	N
159	LEFT CLAVICLE FORCE	Z	CLFY	Load cell, Clavicle	R.A. Denton	5400J	N
160	RIGHT CLAVICLE FORCE	X	CLRFX	Load cell, Clavicle	R.A. Denton	5410J	N
161	RIGHT CLAVICLE FORCE	Z	CLRFZ	Load cell, Clavicle	R.A. Denton	5410J	N
162	LEFT ASIS UPPER	X	10LUASIS	Load cell, ASIS	R.A. Denton	3475	N
163	LEFT ASIS LOWER	X	10LLASIS	Load cell, ASIS	R.A. Denton	3475	N
164	RIGHT ASIS UPPER	X	10RUASIS	Load cell, ASIS	R.A. Denton	3476	N
165	RIGHT ASIS LOWER	X	10RLASIS	Load cell, ASIS	R.A. Denton	3476	N
166	LAP BELT FORCE	X	BL168	Load cell, Seat belt	First Tech	IF-964	N
167	SHOULDER BELT FORCE	X	BL169	Load cell, Seat belt	First Tech	IF-964	N
168	SHOULDER BELT SPOOL	X	KEPP001	Pullout pot	Celesco	PTX101-0030	MM
169	SHOULDER BELT ELONG.	X	KEEP001	Linear pot., belt stretch	E.T.I.	LCP8-10 10K	MM/CM
170	CRS	X	KETX5A	Accel.,1/2 bridge	Endevco	7264-200	G
171	CRS	Y	KETX5B	Accel.,1/2 bridge	Endevco	7264-200	G
172	CRS	Z	KETX5C	Accel.,1/2 bridge	Endevco	7264-200	G
173	CRS SEAT BACK	X	KETX1A	Accel.,1/2 bridge	Endevco	7264-200	G
174	CRS SEAT BACK	Y	KETX1B	Accel.,1/2 bridge	Endevco	7264-200	G
175	CRS SEAT BACK	Z	KETX1C	Accel.,1/2 bridge	Endevco	7264-200	G

**2005 NHTSA 35mph NCAP
Instrumentation Data Channel Assignments
Right Rear Child A.T.D. Serial Number 082 (3 Yr.)
12/16/04
2005 Honda Odyssey 5-Door MPV**

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
176	HEAD CG	X	GPAC050	Accel.,1/2 bridge	Endevco	7264-2000	G
177	HEAD CG	Y	GPAC051	Accel.,1/2 bridge	Endevco	7264-2000	G
178	HEAD CG	Z	GPAC052	Accel.,1/2 bridge	Endevco	7264-2000	G
179	UPPER NECK FORCE	X	082UNFX	Load cell, six axis neck	R. A. Denton	IF-234	N
180	UPPER NECK FORCE	Y	082UNFY	Load cell, six axis neck	R. A. Denton	IF-234	N
181	UPPER NECK FORCE	Z	082UNFZ	Load cell, six axis neck	R. A. Denton	IF-234	N
182	UPPER NECK MOMENT	X	082UNMX	Load cell, six axis neck	R. A. Denton	IF-234	Nm
183	UPPER NECK MOMENT	Y	082UNMY	Load cell, six axis neck	R. A. Denton	IF-234	Nm
184	UPPER NECK MOMENT	Z	082UNMZ	Load cell, six axis neck	R. A. Denton	IF-234	Nm
185	LOWER NECK FORCE	X	082LNFX	Load cell, six axis neck	R. A. Denton	3303	N
186	LOWER NECK FORCE	Y	082LNFY	Load cell, six axis neck	R. A. Denton	3303	N
187	LOWER NECK FORCE	Z	082LNFZ	Load cell, six axis neck	R. A. Denton	3303	N
188	LOWER NECK MOMENT	X	082LNMX	Load cell, six axis neck	R. A. Denton	3303	Nm
189	LOWER NECK MOMENT	Y	082LNMY	Load cell, six axis neck	R. A. Denton	3303	Nm
190	LOWER NECK MOMENT	Z	082LNMZ	Load cell, six axis neck	R. A. Denton	3303	Nm
191	CHEST CG	X	2116-A11	Accel., Full Bridge	Entran	2000JF	G
192	CHEST CG	Y	2116-A14	Accel., Full Bridge	Entran	2000JF	G
193	CHEST CG	Z	2116-A23	Accel., Full Bridge	Entran	2000JF	G
194	CHEST DEFLECTION	X	082CP	Rotary Pot Chest	Servo	14CBI	MM
195	PELVIS	X	2116-A12	Accel., Full Bridge	Entran	2000JF	G
196	PELVIS	Y	2116-A19	Accel., Full Bridge	Entran	2000JF	G
197	PELVIS	Z	2116-A17	Accel., Full Bridge	Entran	2000JF	G
198	CRS UPPER TETHER FORCE	X	BL112	Load cell, Seat belt	FGP	FN4060	N
199	CRS	X	KETX4A	Accel.,1/2 bridge	Endevco	7264-200	G
200	CRS	Y	KETX4B	Accel.,1/2 bridge	Endevco	7264-201	G
201	CRS	Z	KETX4C	Accel.,1/2 bridge	Endevco	7264-202	G

SECTION F-5

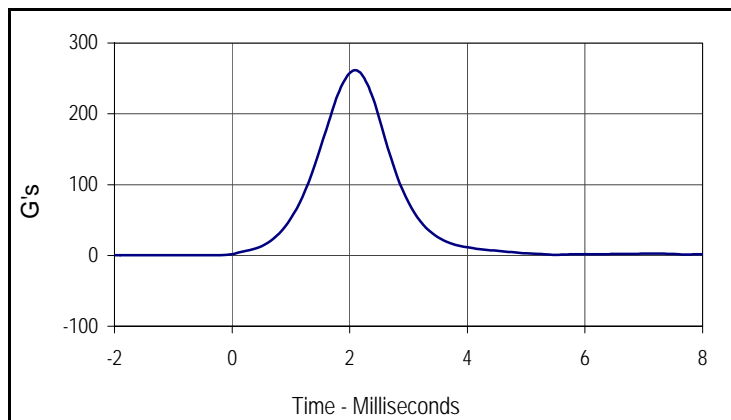
CHILD DUMMY CALIBRATION INFORMATION

Test Program: Hybrid III 10 Yr Old Head Drop Test
 ATD Serial No.: 011

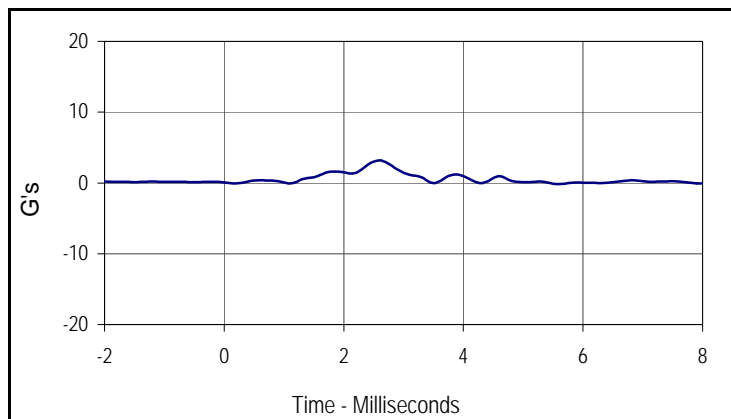
Test Date: 12/6/04
 Test I.D.: HD12A



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	250.0 to 300.0	261.6	Pass
Peak Lateral Acceleration	G's	≤15.0	3.2	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Oscillations After Main Pulse	%	<10	1.2	Pass
Overall Test Results				Pass



Curve Description			
Head Resultant			
CURNO	Type	SAE Class	Units
001	RES	1000	G's
Max	Time	Min	Time
261.6	2.1	0.1	-1.5



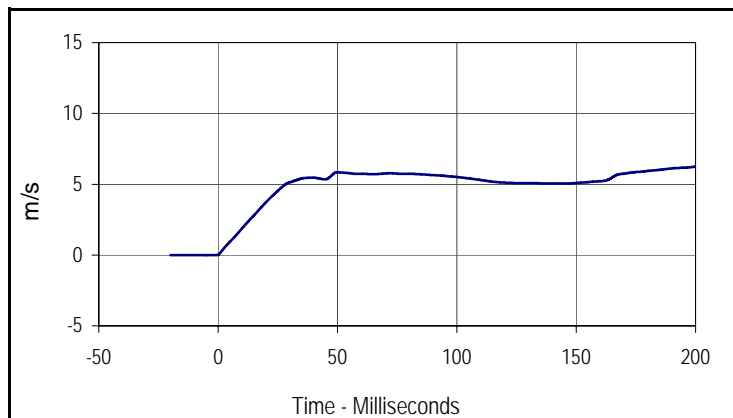
Curve Description			
Head Y			
CURNO	Type	SAE Class	Units
002	FIL	1000	G's
Max	Time	Min	Time
3.2	2.6	-0.2	5.6

Test Program: Hybrid III 10 Yr Old Neck Flexion Test
 ATD Serial No.: 011

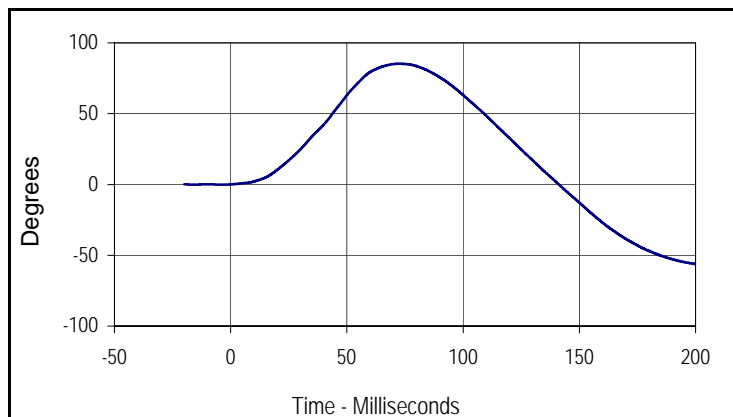
Test Date: 12/6/04
 Test I.D.: NF12A



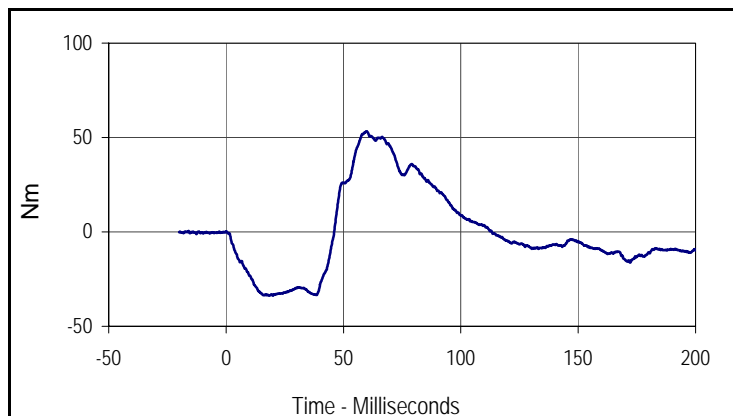
Tested Parameter	Units	Specification	Result	Pass/Fail	
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass	
Laboratory Relative Humidity	%	10 to 70	30	Pass	
Pendulum Velocity	m/s	5.98 to 6.22	6.13	Pass	
Pendulum Deceleration	10 Msec.	m/s	1.64 to 2.04	1.88	Pass
	20 Msec.	m/s	3.04 to 4.04	3.72	Pass
	30 Msec.	m/s	4.45 to 5.65	5.14	Pass
"D" Plane Rotation	Max	Degrees	74.0 to 88.0	85.2	Pass
Peak Moment in Rotation	Max	Nm	50.0 to 62.0	53.3	Pass
Positive Moment Decay, Time To 10 Nm	Msec.		85.0 to 105.0	99.2	Pass
Overall Test Results				Pass	



Curve Description			
Pendulum Velocity			
CURNO	Type	SAE Class	Units
001	FIL	180	m/s
Max	Time	Min	Time
6.2	200.0	0.0	-0.8



Curve Description			
"D" Plane Rotation			
CURNO	Type	SAE Class	Units
003	FIL	60	Degrees
Max	Time	Min	Time
85.2	72.3	-56.1	200.0



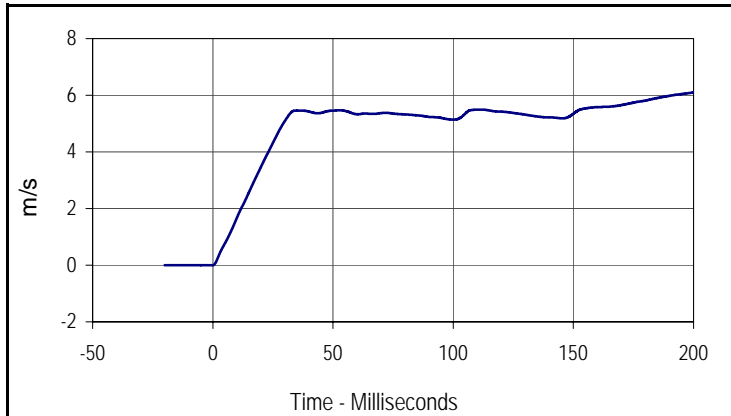
Curve Description			
Moment About Occipital Condyle			
CURNO	Type	SAE Class	Units
002	FIL	600	Nm
Max	Time	Min	Time
53.3	59.9	-33.7	18.1

Test Program: Hybrid III 10 Yr Old Neck Extension Test
 ATD Serial No.: 011

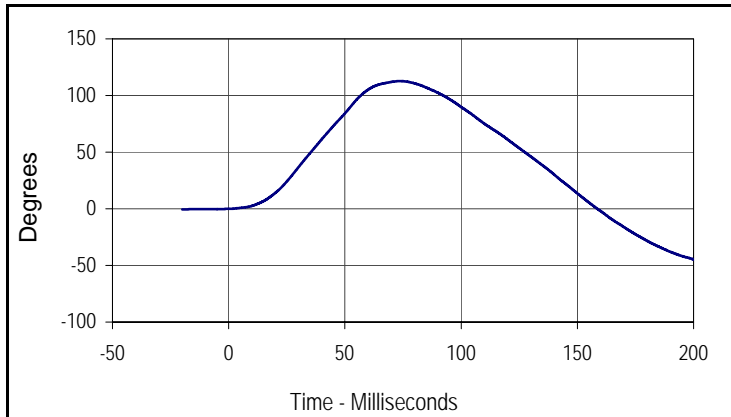
Test Date: 12/6/04
 Test I.D.: NE12A



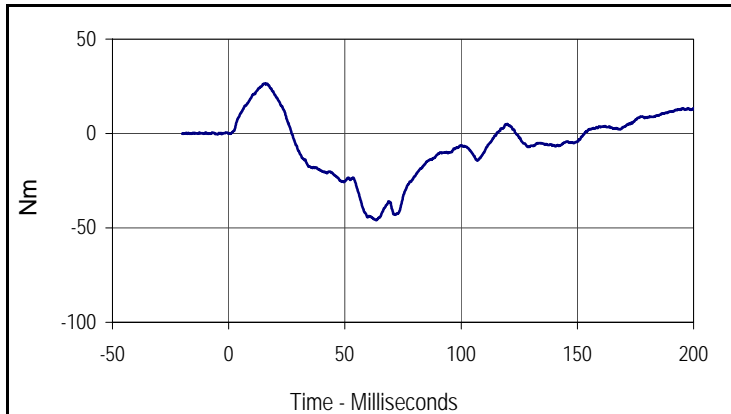
Tested Parameter	Units	Specification	Result	Pass/Fail	
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass	
Laboratory Relative Humidity	%	10 to 70	30	Pass	
Pendulum Velocity	m/s	4.91 to 5.15	5.04	Pass	
Pendulum Deceleration	10 Msec.	m/s	1.59 to 1.89	1.67	Pass
	20 Msec.	m/s	2.88 to 3.68	3.47	Pass
	30 Msec.	m/s	4.20 to 5.20	5.10	Pass
"D" Plane Rotation	Max	Degrees	99.0 to 114.0	112.7	Pass
Peak Moment in Rotation	Max	Nm	-35.0 to -47.0	-45.9	Pass
Positive Moment Decay, Time To 10 Nm	Msec.	100.0 to 120.0	109.9	Pass	
Overall Test Results				Pass	



Curve Description			
Pendulum Velocity			
CURNO	Type	SAE Class	Units
001	FIL	180	m/s
Max	Time	Min	Time
6.1	200.0	0.0	-0.3



Curve Description			
"D" Plane Rotation			
CURNO	Type	SAE Class	Units
003	FIL	60	Degrees
Max	Time	Min	Time
112.7	73.7	-44.8	200.0



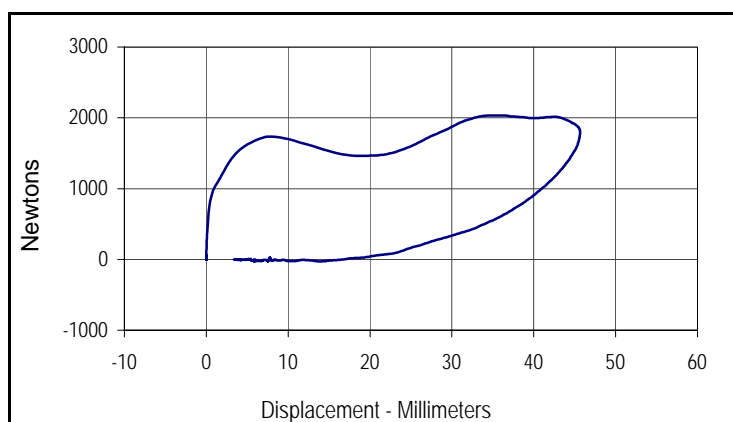
Curve Description			
Moment About Occipital Condyle			
CURNO	Type	SAE Class	Units
002	FIL	600	Nm
Max	Time	Min	Time
26.4	15.6	-45.9	63.6

Test Program: Hybrid III 10 Yr Old Thorax Impact Test
 ATD Serial No.: 011

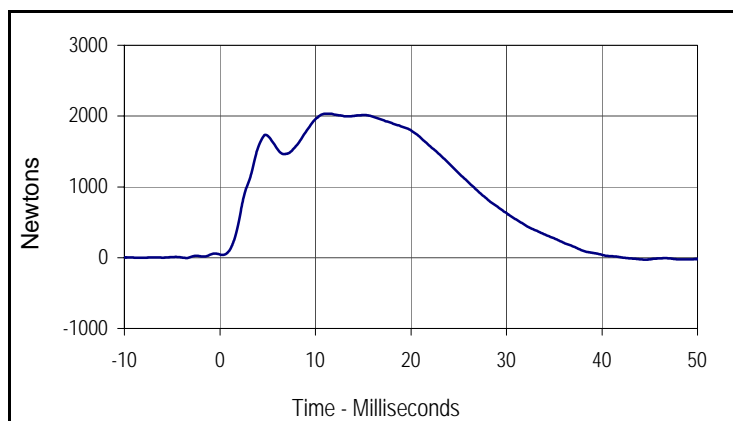
Test Date: 12/7/04
 Test I.D.: CH12A



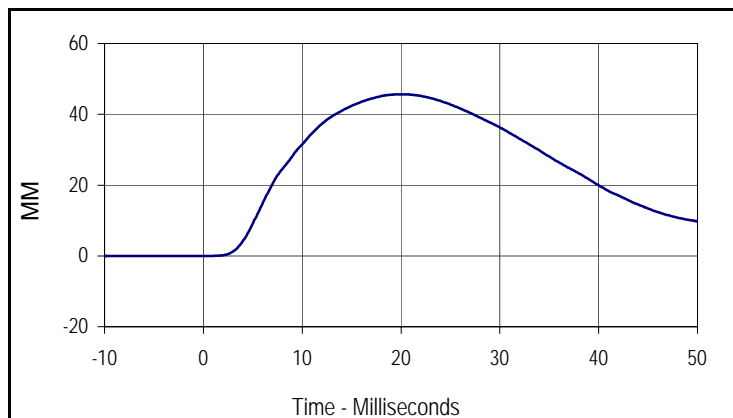
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	5.88 to 6.12	5.94	Pass
Peak Chest Deflection	MM	40.5 to 48.5	45.7	Pass
Peak Force Between 40.5 and 48.5 MM	Newtons	1830 to 2330	2035	Pass
Peak Force Between 20 and 40.5 MM	Newtons	≤2330	2014	Pass
Internal Hysteresis	%	69 to 85	81.4	Pass
Overall Test Results			Pass	Pass



Curve Description			
Probe Force vs. Chest Deflection			
CURNO	Type	SAE Class	Hysteresis
003	FIL	180	81.4
Peak Probe Force		Peak Chest Displ.	
2034.6		45.7	



Curve Description			
Probe Force			
CURNO	Type	SAE Class	Units
002	FIL	180	Newtons
Max	Time	Min	Time
2034.6	11.5	-32.8	86.9



Curve Description			
Chest Deflection			
CURNO	Type	SAE Class	Units
001	FIL	180	MM
Max	Time	Min	Time
45.7	20.0	0.0	-8.9

Test Program: Hybrid III 10 Yr Old Knee Impact Test
 ATD Serial No.: 011

Test Date: 12/7/04
 Test I.D.: LK12A , RK12A

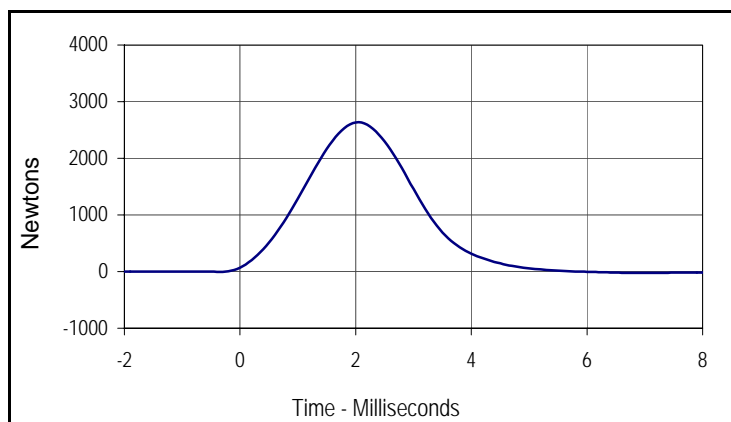


Left Knee

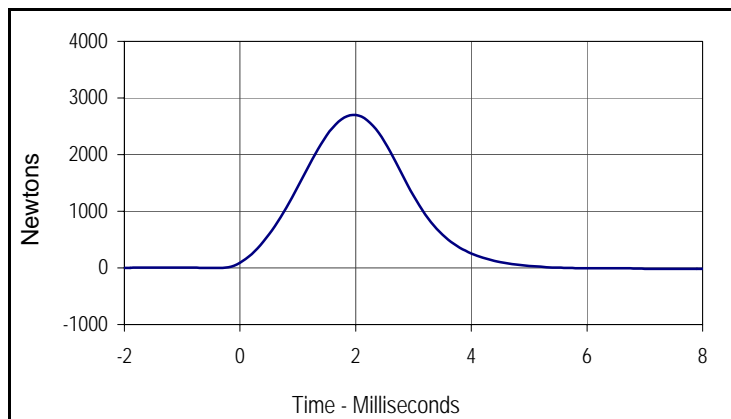
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Pendulum Velocity at T=0	m/sec	2.07 to 2.13	2.12	Pass
Peak Probe Force	Newtons	2560 to 3140	2633	Pass
Overall Test Results				Pass

Right Knee

Pendulum Velocity at T=0	m/sec	2.07 to 2.13	2.09	Pass
Peak Probe Force	Newtons	2560 to 3140	2701	Pass
Overall Test Results				Pass



Curve Description			
Left Knee Probe Force			
CURNO	Type	SAE Class	Units
001	FIL	600	Newtons
Max	Time	Min	Time
2632.9	2.0	-23.4	6.9



Curve Description			
Right Knee Probe Force			
CURNO	Type	SAE Class	Units
002	FIL	600	Newtons
Max	Time	Min	Time
2700.5	2.0	-24.0	8.6

Test Program: Hybrid III 10 Yr Old External Measurements

Test Date: 12/8/04

ATD Serial No.: 011

Test I.D.: N/A



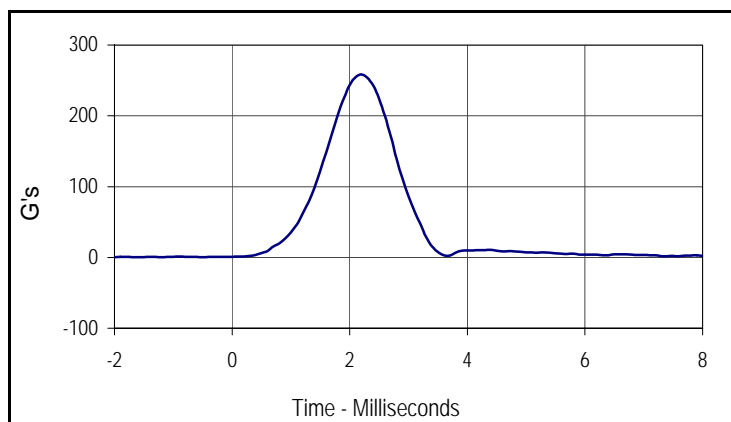
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
A - Total sitting height	mm	710 to 737	720	Pass
B - Shoulder pivot height	mm	385 to 405	400	Pass
C - "H" point height	mm	78 to 88	80	Pass
D - "H" point from backline	mm	133 to 143	140	Pass
E - Shoulder pivot from back	mm	80 to 90	85	Pass
F - Thigh clearance	mm	105 to 121	111	Pass
G - Elbow back to wrist pivot	mm	227 to 243	229	Pass
H - Skull cap to back line	mm	46 to 51	50	Pass
I - Shoulder to elbow length	mm	269 to 285	275	Pass
J - Elbow rest height	mm	137 to 158	145	Pass
K - Buttock to knee length	mm	464 to 484	472	Pass
L - Popliteal length	mm	321 to 342	325	Pass
M - Knee pivot height	mm	370 to 389	380	Pass
N - Buttock popliteal length	mm	367 to 387	375	Pass
O - Chest depth without jacket	mm	158 to 173	170	Pass
P - Foot length	mm	188 to 203	200	Pass
R - Buttock to knee pivot length	mm	414 to 434	425	Pass
S - Head breadth	mm	137 to 147	140	Pass
T - Head depth	mm	178 to 188	180	Pass
U - Hip breadth	mm	257 to 272	270	Pass
V - Shoulder breadth	mm	307 to 323	310	Pass
W - Foot breadth	mm	69 to 84	80	Pass
X - Head circumference	mm	528 to 549	535	Pass
Y - Chest circumference with jacket	mm	691 to 716	715	Pass
Z - Waist circumference	mm	696 to 721	700	Pass
AA - Location for chest circumference	mm	338 to 348	340	Pass
Overall Test Results				Pass

Test Program: Hybrid III 3 Yr Old Head Drop Test
 ATD Serial No.: 082

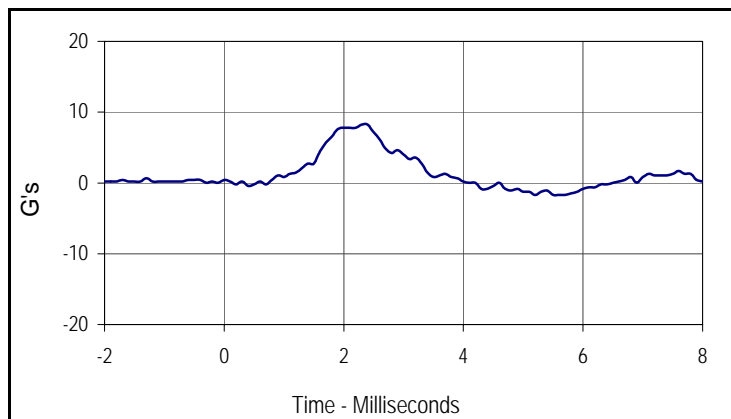
Test Date: 12/3/04
 Test I.D.: HD12G



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	250.0 to 280.0	258.2	Pass
Peak Lateral Acceleration	G's	≤15.0	8.2	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Oscillations After Main Pulse	%	<10	4.2	Pass
Overall Test Results				Pass



Curve Description			
Head Resultant			
CURNO	Type	SAE Class	Units
001	RES	1000	G's
Max	Time	Min	Time
258.2	2.2	0.4	-1.6



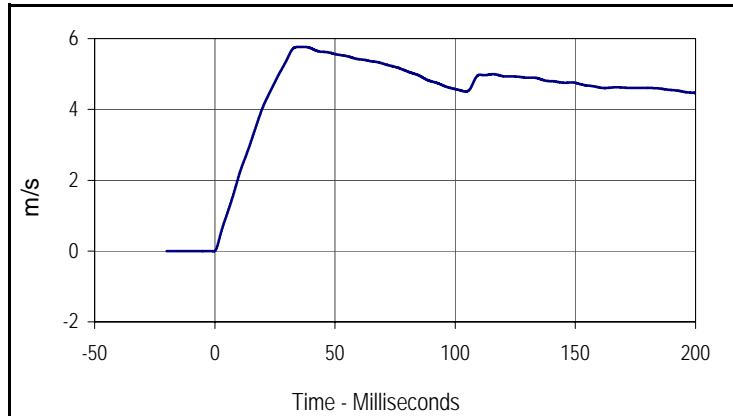
Curve Description			
Head Y			
CURNO	Type	SAE Class	Units
002	FIL	1000	G's
Max	Time	Min	Time
8.2	2.3	-1.7	5.2

Test Program: Hybrid III 3 Yr Old Neck Flexion Test
 ATD Serial No.: 082

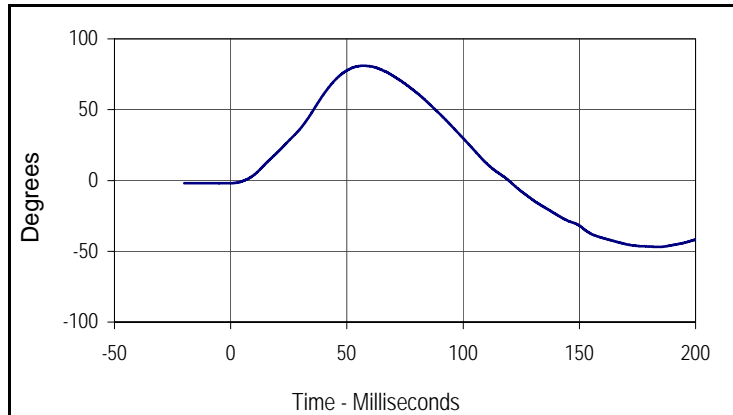
Test Date: 12/3/04
 Test I.D.: NF08A



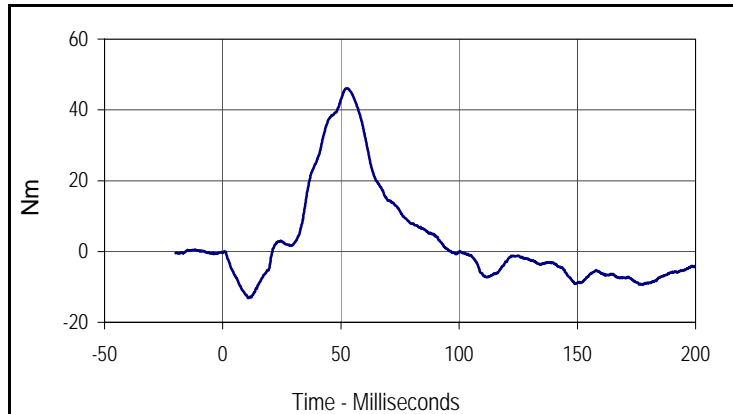
Tested Parameter	Units	Specification	Result	Pass/Fail	
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass	
Laboratory Relative Humidity	%	10 to 70	30	Pass	
Pendulum Velocity	m/s	5.40 to 5.60	5.55	Pass	
Pendulum Deceleration	10 Msec.	m/s	2.0 to 2.7	2.1	Pass
	15 Msec.	m/s	3.0 to 4.0	3.1	Pass
	20 Msec.	m/s	4.0 to 5.1	4.1	Pass
"D" Plane Rotation	Max	Degrees	70.0 to 82.0	81.0	Pass
Peak Moment in Rotation	Max	Nm	42.0 to 53.0	46.1	Pass
Positive Moment Decay, Time To 10 Nm	Msec.		60.0 to 80.0	76.2	Pass
Overall Test Results				Pass	



Curve Description			
Pendulum Velocity			
CURNO	Type	SAE Class	Units
001	FIL	180	m/s
Max	Time	Min	Time
5.8	37.3	0.0	-0.5



Curve Description			
"D" Plane Rotation			
CURNO	Type	SAE Class	Units
003	FIL	60	Degrees
Max	Time	Min	Time
81.0	57.0	-46.9	183.9



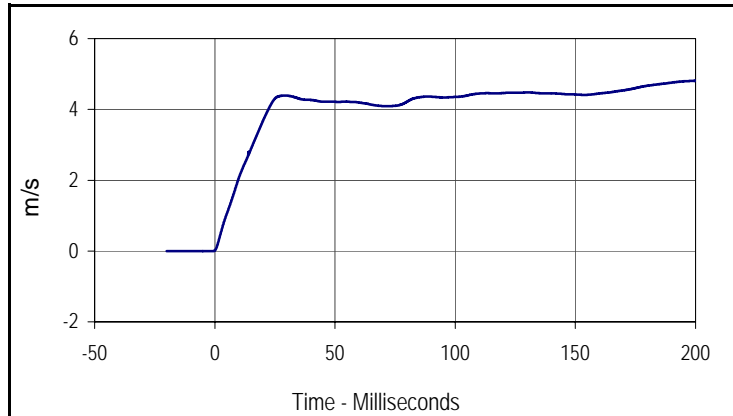
Curve Description			
Neck Moment Y			
CURNO	Type	SAE Class	Units
002	FIL	600	Nm
Max	Time	Min	Time
46.1	52.7	-13.1	10.8

Test Program: Hybrid III 3 Yr Old Neck Extension Test
 ATD Serial No.: 082

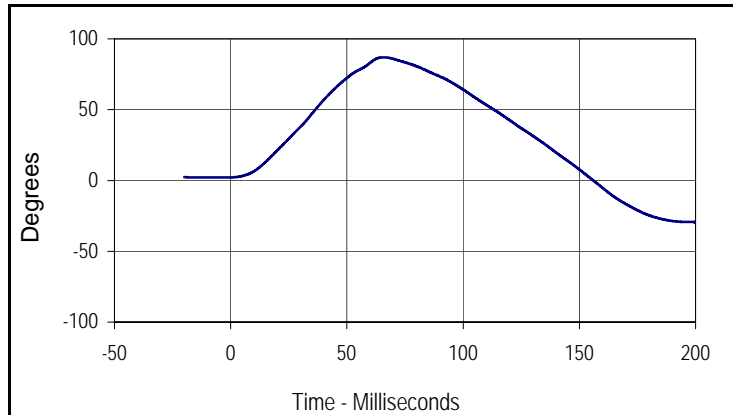
Test Date: 12/3/04
 Test I.D.: NE12H



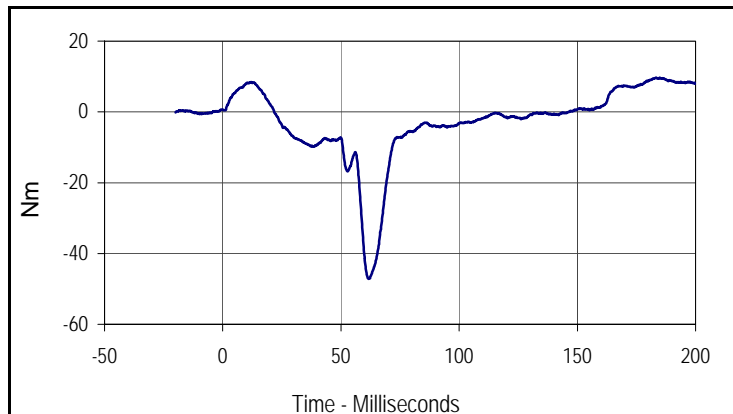
Tested Parameter	Units	Specification	Result	Pass/Fail	
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass	
Laboratory Relative Humidity	%	10 to 70	30	Pass	
Pendulum Velocity	m/s	3.55 to 3.75	3.72	Pass	
Pendulum Deceleration	6 Msec.	m/s	1.0 to 1.4	1.2	Pass
	10 Msec.	m/s	1.9 to 2.5	2.1	Pass
	14 Msec.	m/s	2.8 to 3.5	2.8	Pass
"D" Plane Rotation	Max	Degrees	83.0 to 93.0	87.0	Pass
Peak Moment in Rotation	Max	Nm	-43.7 to -53.3	-47.1	Pass
Positive Moment Decay, Time To -10 Nm	Msec.		60.0 to 80.0	71.7	Pass
Overall Test Results				Pass	



Curve Description			
Pendulum Velocity			
CURNO	Type	SAE Class	Units
001	FIL	180	m/s
Max	Time	Min	Time
4.8	200.0	0.0	-0.9



Curve Description			
"D" Plane Rotation			
CURNO	Type	SAE Class	Units
003	FIL	60	Degrees
Max	Time	Min	Time
87.0	65.7	-29.4	200.0



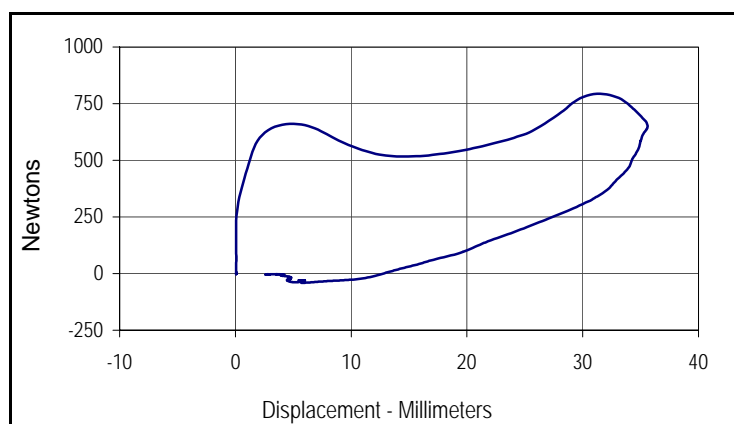
Curve Description			
Neck Moment Y			
CURNO	Type	SAE Class	Units
002	FIL	600	Nm
Max	Time	Min	Time
9.7	183.3	-47.1	61.7

Test Program: Hybrid III 3 Yr Old Thorax Impact Test
 ATD Serial No.: 082

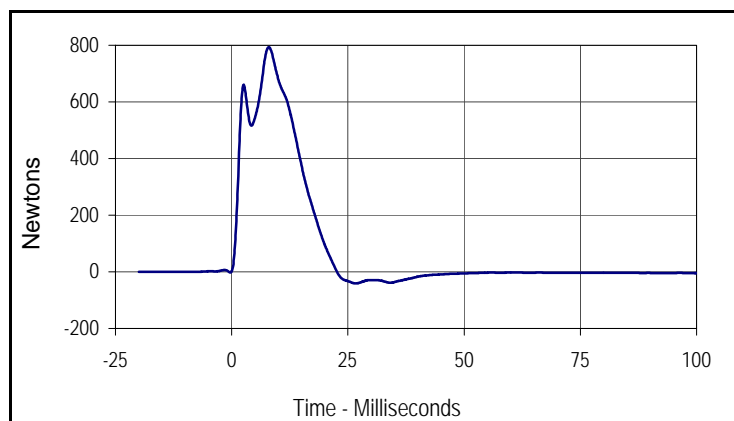
Test Date: 12/8/04
 Test I.D.: CH12G



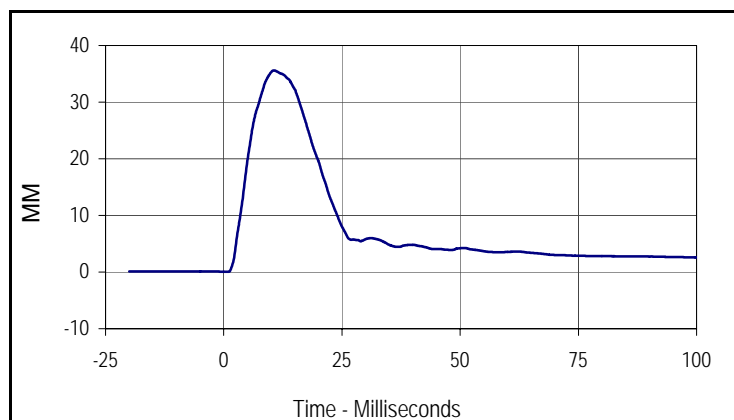
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	5.9 to 6.1	5.93	Pass
Peak Chest Deflection	MM	32 to 38	35.6	Pass
Peak Force Between 32 and 38 MM	Newtons	680 to 810	791.0	Pass
Peak Force Between 12.5 and 32 MM	Newtons	≤910	793.6	Pass
Internal Hysteresis	%	65 to 85	78.2	Pass
Overall Test Results				Pass



Curve Description			
Probe Force vs. Chest Deflection			
CURNO	Type	SAE Class	Hysteresis
004	FIL	180/600	78.2
Peak Probe Force		Peak Chest Displ.	
793.6		35.6	



Curve Description			
Probe Force			
CURNO	Type	SAE Class	Units
003	FIL	180	Newtons
Max	Time	Min	Time
793.6	8.0	-41.0	26.7



Curve Description			
Chest Deflection			
CURNO	Type	SAE Class	Units
001	FIL	600	MM
Max	Time	Min	Time
35.6	10.7	0.1	1.0

Test Program: Hybrid III 3 Yr Old Torso Flexion Test

Test Date: 12/8/04

ATD Serial No.: 082

Test I.D.: TF12H



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
Initial reference plane angle	Degrees	≤15.0	3.5	Pass
Peak Force at 45 +/-0.5 degrees	Newtons	130.0 to 180.0	153.5	Pass
Torso rotation rate	deg/sec	0.5 to 1.5	0.9	Pass
Final reference plane angle	Degrees	+/-10	3.5	Pass
Overall Test Results				Pass

Test Program: Hybrid III 3 Yr Old External Measurements

Test Date: 12/8/04

ATD Serial No.: 082

Test I.D.: N/A



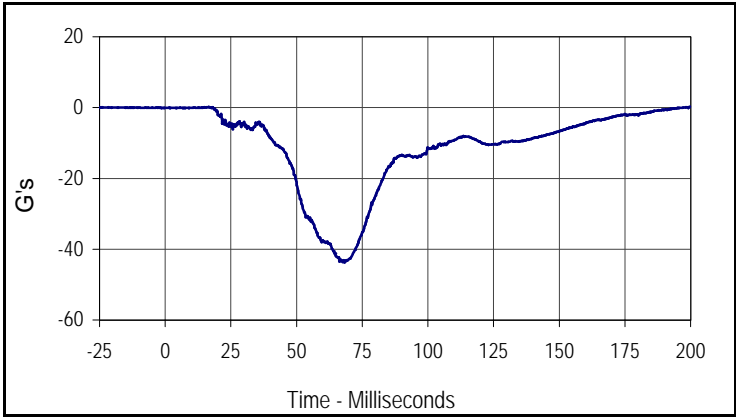
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
A - Total sitting height	mm	539 to 554	550	Pass
B - Shoulder pivot height	mm	307 to 323	315	Pass
C - "H" point height	mm	34 to 45	36	Pass
D - "H" point from backline	mm	57 to 67	65	Pass
E - Shoulder pivot from back	mm	61 to 71	62	Pass
F - Thigh clearance	mm	81 to 91	87	Pass
G - Elbow back to wrist pivot	mm	247 to 263	260	Pass
H - Skull cap to back line	mm	48 to 58	49	Pass
I - Shoulder to elbow length	mm	185 to 201	190	Pass
J - Elbow rest height	mm	134 to 149	148	Pass
K - Buttock to knee length	mm	285 to 300	299	Pass
L - Popliteal length	mm	219 to 234	225	Pass
M - Knee pivot height	mm	242 to 257	256	Pass
N - Buttock popliteal length	mm	218 to 233	225	Pass
O - Chest depth with jacket	mm	139 to 154	148	Pass
P - Foot length	mm	138 to 148	139	Pass
R - Buttock to knee pivot length	mm	251 to 262	255	Pass
S - Head Breadth	mm	128 to 144	140	Pass
T - Head Depth	mm	167 to 183	169	Pass
U - Hip breadth	mm	201 to 216	208	Pass
V - Shoulder breadth	mm	237 to 252	250	Pass
W - Foot breadth	mm	54 to 64	55	Pass
X - Head circumference	mm	500 to 516	510	Pass
Y - Chest circumference with jacket	mm	527 to 553	532	Pass
Z - Waist circumference	mm	527 to 553	550	Pass
AA - Location for chest circumference	mm	249 to 259	255	Pass
BB - Location for waist circumference	mm	160 to 170	165	Pass
Overall Test Results				Pass

APPENDIX G

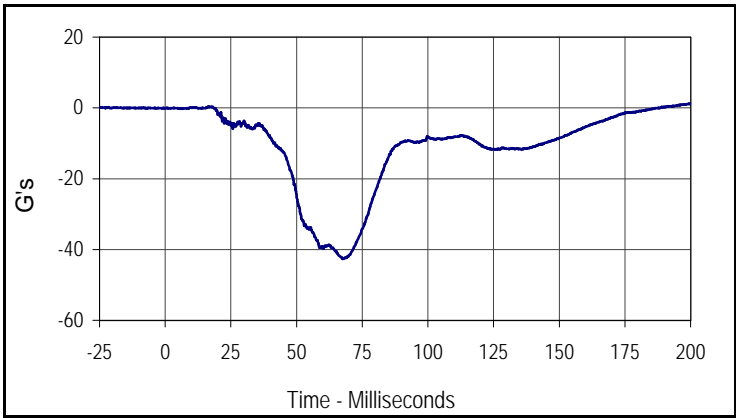
NAAH DATA

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

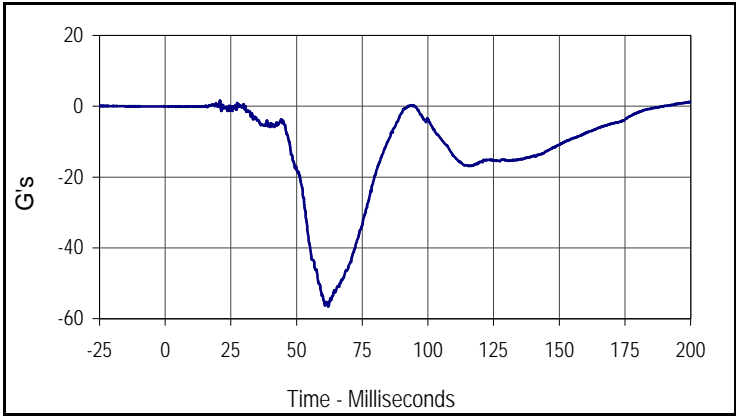
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Driver Head Primary X			
CURNO	Type	SAE Class	Units
001	FIL	1000	G's
Max	Time	Min	Time
0.2	200.0	-43.7	68.2



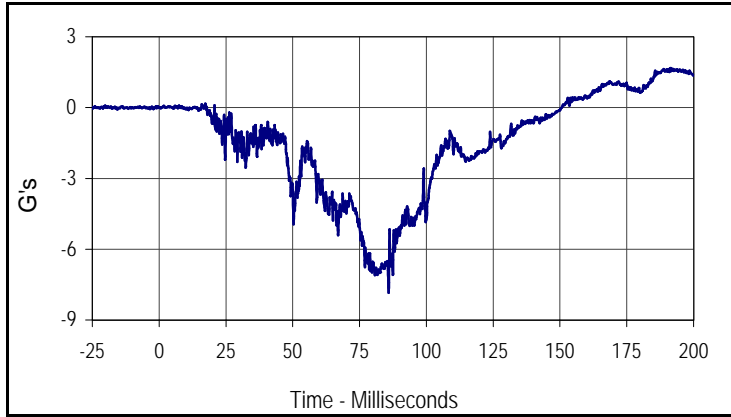
Curve Description			
Driver NAAH Yarm-X			
CURNO	Type	SAE Class	Units
204	FIL	1000	G's
Max	Time	Min	Time
1.2	199.4	-42.7	67.5



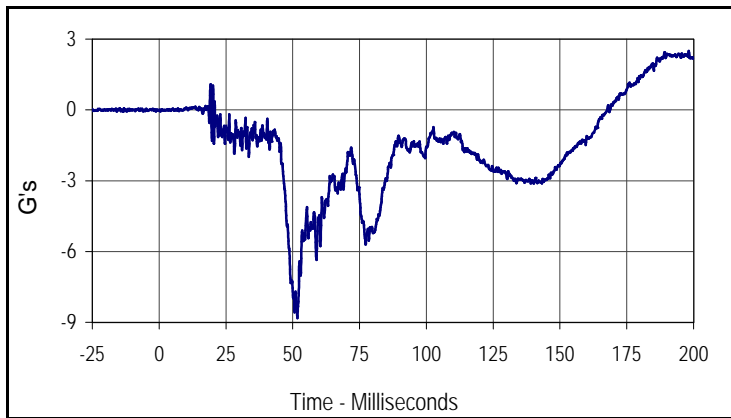
Curve Description			
Driver NAAH Zarm-X			
CURNO	Type	SAE Class	Units
206	FIL	1000	G's
Max	Time	Min	Time
1.6	20.9	-56.6	62.1

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

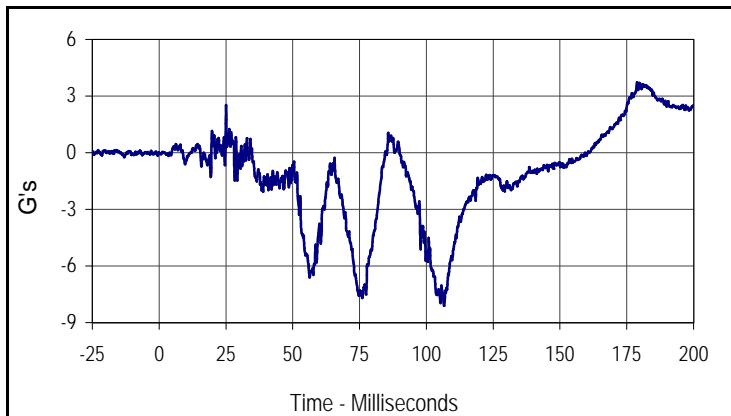
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Driver Head Primary Y			
CURNO	Type	SAE Class	Units
002	FIL	1000	G's
Max	Time	Min	Time
1.7	191.2	-7.9	85.9



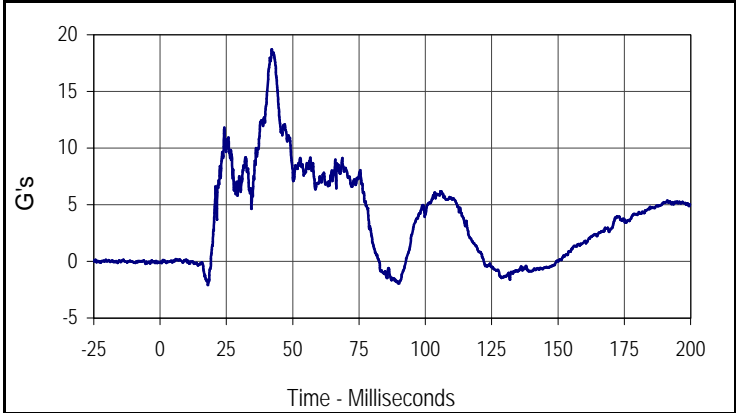
Curve Description			
Driver NAAH Xarm-Y			
CURNO	Type	SAE Class	Units
202	FIL	1000	G's
Max	Time	Min	Time
2.5	198.2	-8.8	51.7



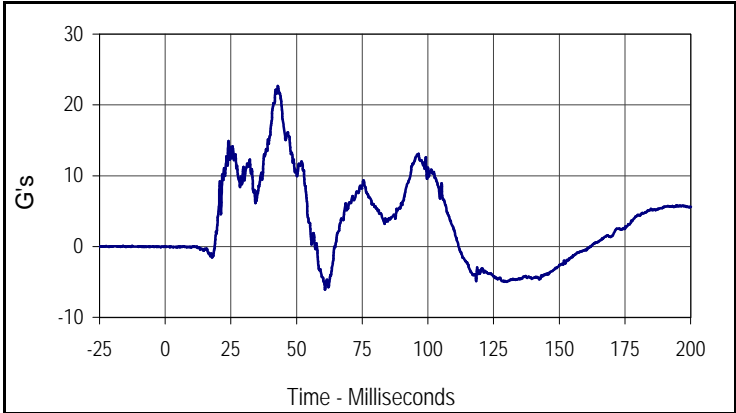
Curve Description			
Driver NAAH Zarm-Y			
CURNO	Type	SAE Class	Units
207	FIL	1000	G's
Max	Time	Min	Time
3.7	178.9	-8.1	106.6

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

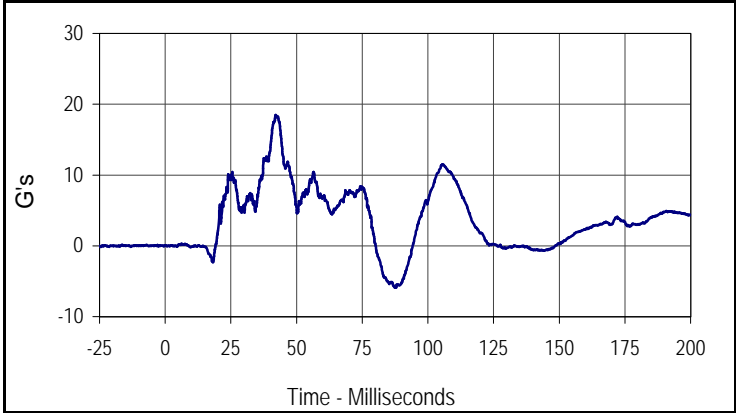
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Driver Head Primary Z			
CURNO	Type	SAE Class	Units
003	FIL	1000	G's
Max	Time	Min	Time
18.7	42.1	-2.1	18.1



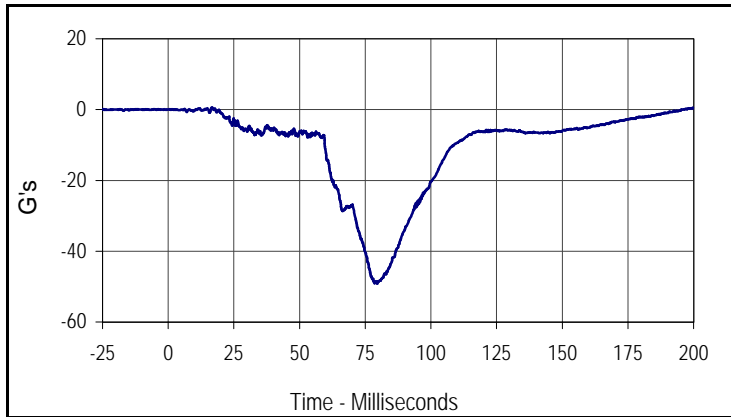
Curve Description			
Driver NAAH Xarm-Z			
CURNO	Type	SAE Class	Units
203	FIL	1000	G's
Max	Time	Min	Time
22.7	42.9	-6.1	60.9



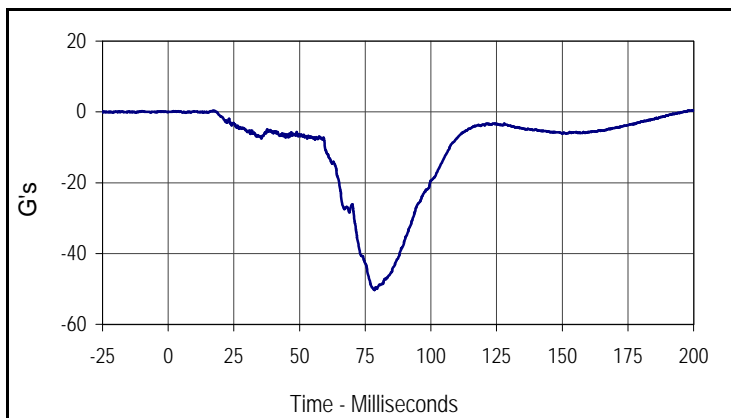
Curve Description			
Driver NAAH Yarm-Z			
CURNO	Type	SAE Class	Units
205	FIL	1000	G's
Max	Time	Min	Time
18.5	42.0	-5.9	87.8

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

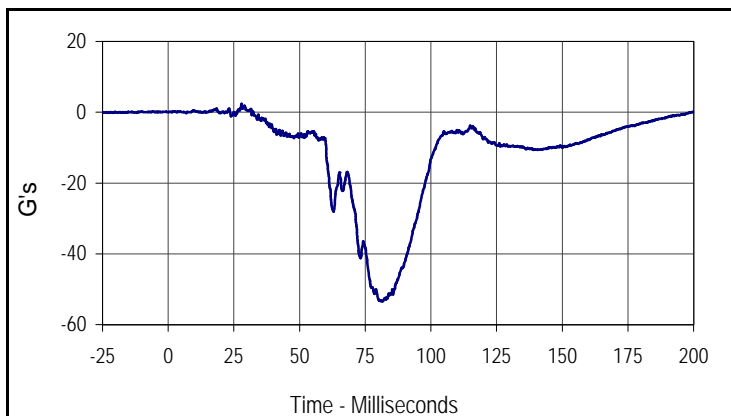
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Passenger Head Primary X			
CURNO	Type	SAE Class	Units
045	FIL	1000	G's
Max	Time	Min	Time
0.6	16.7	-49.1	79.5



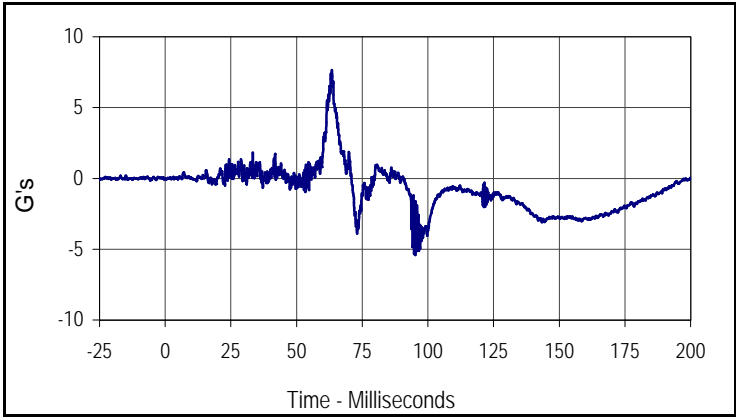
Curve Description			
Passenger NAAH Yarm-X			
CURNO	Type	SAE Class	Units
210	FIL	1000	G's
Max	Time	Min	Time
0.5	199.7	-50.3	78.5



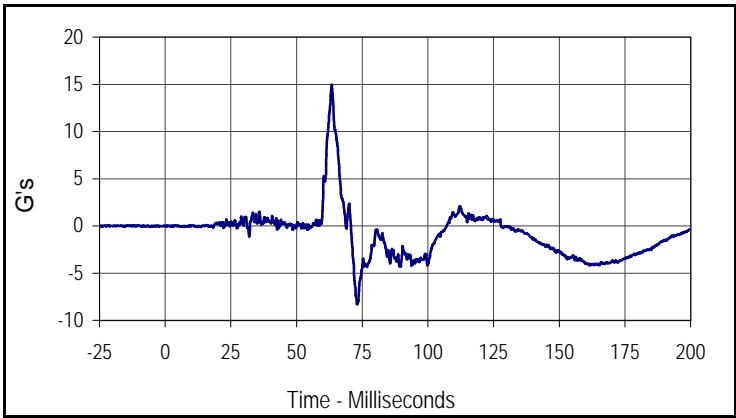
Curve Description			
Passenger NAAH Zarm-X			
CURNO	Type	SAE Class	Units
212	FIL	1000	G's
Max	Time	Min	Time
2.4	28.0	-53.5	81.5

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

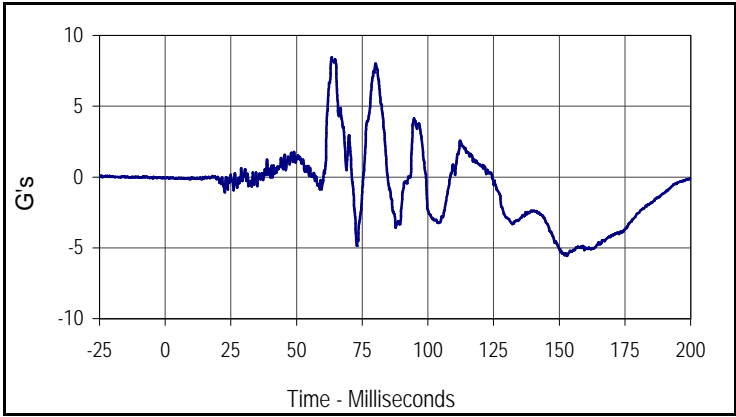
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Passenger Head Primary Y			
CURNO	Type	SAE Class	Units
046	FIL	1000	G's
Max	Time	Min	Time
7.6	63.5	-5.4	95.2



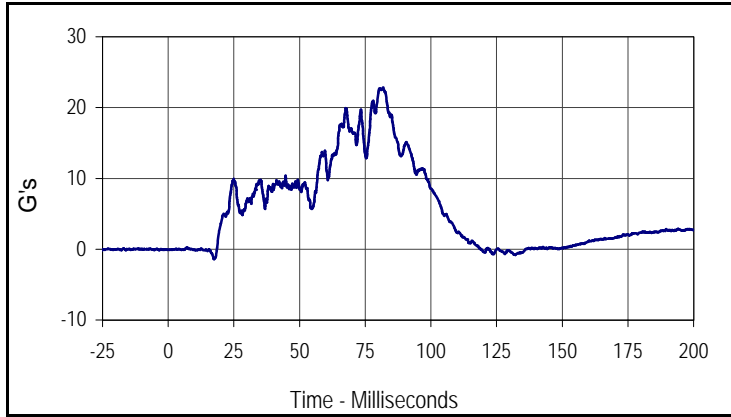
Curve Description			
Passenger NAAH Xarm-Y			
CURNO	Type	SAE Class	Units
208	FIL	1000	G's
Max	Time	Min	Time
15.0	63.4	-8.3	73.1



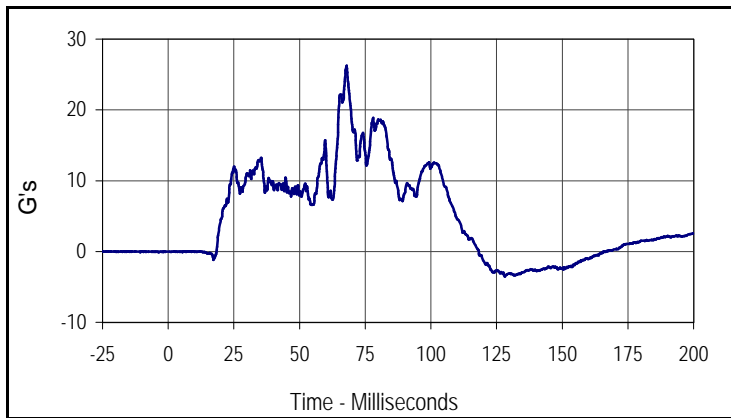
Curve Description			
Passenger NAAH Zarm-Y			
CURNO	Type	SAE Class	Units
213	FIL	1000	G's
Max	Time	Min	Time
8.5	63.4	-5.6	153.0

Test Vehicle: 2005 Honda Odyssey 5-Door MPV
 Test Program: 2005 NHTSA 35mph NCAP

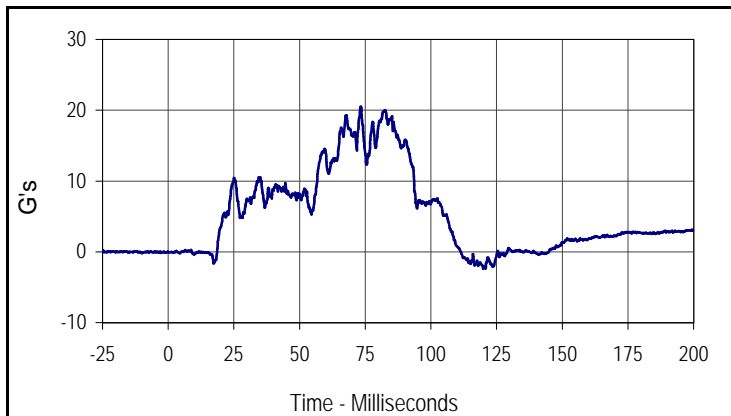
Test Date: 12/16/04
 NHTSA No.: M55302



Curve Description			
Passenger Head Primary Z			
CURNO	Type	SAE Class	Units
047	FIL	1000	G's
Max	Time	Min	Time
22.8	81.8	-1.4	17.4



Curve Description			
Passenger NAAH Xarm-Z			
CURNO	Type	SAE Class	Units
209	FIL	1000	G's
Max	Time	Min	Time
26.2	67.9	-3.5	128.1



Curve Description			
Passenger NAAH Yarm-Z			
CURNO	Type	SAE Class	Units
211	FIL	1000	G's
Max	Time	Min	Time
20.5	73.3	-2.4	120.8