

REPORT NUMBER TR-P25003-05-NC

**NEW CAR ASSESSMENT PROGRAM
SIDE IMPACT TEST**

**NISSAN MOTOR CORPORATION, LTD
2005 NISSAN XTERRA
5-DOOR MPV**

NHTSA NUMBER: M55209

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MARCH 17, 2005

FINAL REPORT

**PREPARED FOR:
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Technical Report Documentation Page

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| Measurement Description | Driver SID/HIII | Pass. SID/HIII | |
| Left Upper Rib (LUR) G's | 30.9 | 25.5 | |
| Left Lower Rib (LLR) G's | 28.1 | 19.9 | |
| Lower Spine (T ₁₂) G's | 29.8 | 25.3 | |
| Thoracic Trauma Index (TTI) G's | 30.0 | 25.0 | |
| Pelvis (PEV) G's | 32.0 | 25.0 | |
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SECTION 1
PURPOSE AND TEST PROCEDURE

1.1 PURPOSE

This Side Impact NCAP test is conducted as part of the FY' 2005 test program sponsored by the National Highway Traffic Safety Administration (NHTSA), under contract No. DTNH22-03-D-32005. The purpose of this test is to generate comparative side impact data on a 2005 Nissan Xterra 5-Door MPV manufactured by Nissan Motor Company, Ltd.

1.2 TEST PROCEDURE

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

SECTION 2
SUMMARY OF SIDE IMPACT NCAP TEST

2.1 SUMMARY OF SIDE IMPACT NCAP TEST

A model year 2005 Nissan Xterra 5-Door MPV was impacted on the left (driver's) side by a Moving Deformable Barrier (MDB) which was moving forward in a 27° crabbed position to the tow road guidance system at a velocity of 62.00 km/h. The specified impact velocity range is from 61.14 to 62.75 km/h. The test (target) vehicle was stationary and positioned 63° to the line of forward motion. The weight of the vehicle as tested was 2175 kg and the test weight of the MDB was 1361 kg. The test was conducted at KARCO Engineering, LLC in Adelanto, California, on March 17, 2005.

Three (3) real-time cameras and twelve (12) high-speed cameras were used to document the impact event. Camera locations and pertinent camera information is documented in the data sheets. Pre- and post-test photographs of the vehicle and SID/HIIIs can be found in Appendix A. Two 50th percentile adult male Side Impact Dummies, Hybrid III (SID/HIIIs) were placed in the driver's and left rear passenger designated seating positions according to the test procedure. Each SID/HIII is instrumented with contact switches on the pelvis, thorax and six-axis neck load cells, and fourteen accelerometers in the following locations:

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

SUPPLEMENTAL RESTRAINT INFORMATION

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

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

2.2 GENERAL COMMENTS

The driver and passenger doors remained closed. The test vehicle sustained a maximum static crush of 243 mm at level 3, 1200 mm rearward of the left vertical impact point. The driver SID/Hybrid III, Serial No. 274 and the passenger SID/Hybrid III, Serial No. 275 were calibrated prior to this test. The SID/Hybrid III injury criteria is summarized as follows:

| Measurement | Units | Driver | Passenger |
|-----------------------------|-------|--------|-----------|
| Thoracic Trauma Index (TTI) | G's | 30.0 | 25.0 |
| Peak Pelvic G's (PEV) | G's | 32.0 | 25.0 |

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

SECTION 3

OCCUPANT AND VEHICLE INFORMATION SHEETS

Test Vehicle: 2005 Nissan Xterra 5-Door MPV

NHTSA No.: M55209

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

Test Date: 3/17/05

CONVERSION FACTORS USED IN THIS REPORT*

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

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

DATA SHEET NO. 1

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2005 Nissan Xterra 5-Door MPV

NHTSA No.: M55209

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

Test Date: 3/17/05

TEST VEHICLE INFORMATION AND OPTIONS

| | | | |
|------------------|--------------------|---------------------------|-----|
| NHTSA No. | M55209 | Anti-Lock Brakes | Yes |
| Make | Nissan | All Wheel Drive | No |
| Model | Xterra | Power Steering | Yes |
| Body Style | 5-Door MPV | Driver Front Airbag | Yes |
| Vin No. | 5N1AN08U45C601314 | Driver Side Torso Airbag | No |
| Color | Gold-Slate | Driver Side Head Airbag | No |
| Delivery Date | 3/14/2005 | Driver Curtain Airbag | No |
| Odometer (miles) | 93.1 | Rear Pass. Airbag | No |
| Dealer | Performance Nissan | Rear Pass. Side Airbag | No |
| Transmission | 5-Speed Manual | Rear Pass. Head Airbag | No |
| Final Drive | Rear | Rear Pass. Curtain Airbag | No |
| Type/No. Cyl. | V6 | Pre-Tensioners | Yes |
| Engine Disp. (L) | 4.0 | Load Limiters | Yes |
| Engine Placement | Longitudinal | Bucket Seats | Yes |
| Roof Rack | Yes | Air Cond. | Yes |
| Sunroof/T-Top | No | AM/FM Cassette | Yes |
| Tinted Glass | Yes | Tilt Steering | Yes |
| Traction Control | Yes | Power Door Locks | Yes |
| Power Brakes | Yes | Power Windows | Yes |
| Front Disc | Yes | Power Seats | No |
| Rear Disc | Yes | Other | |

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

No

DATA FROM CERTIFICATION LABEL

| | | | |
|---------------------|-----------------------|-----------------|------|
| Manufactured By | Nissan Motor Co. Ltd. | GVWR (kg) | 2359 |
| Date of Manufacture | 01/05 | GAWR Front (kg) | 1214 |
| | | GAWR Rear (kg) | 1344 |

VEHICLE SEATING AND CAPACITY WEIGHT INFORMATION

| Measured Parameter | Front | Rear | Third | Total |
|----------------------------|--------|-------------|-------|-------|
| Type of Seats | Bucket | Split Bench | | |
| Number of Occupants | 2 | 3 | | 5 |
| Capacity Weight (VCW) (kg) | | | | 455 |
| Cargo Weight (RCLW) (kg) | | | | 115 |

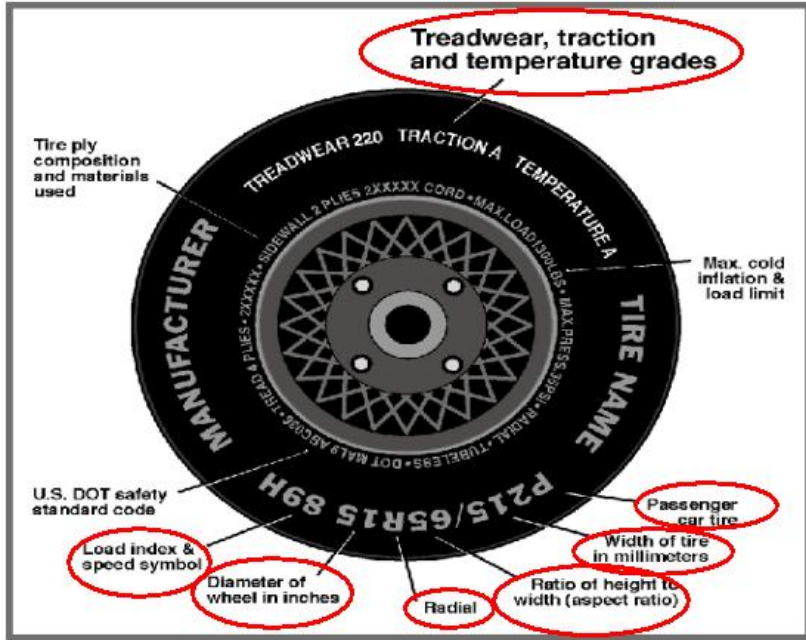
DATA SHEET NO. 1...(CONTINUED)

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M55209
 Test Date: 3/17/05

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) | 240 | 240 |
| Cold Pressure (kpa) | 240 | 240 |
| Recommended Tire Size | P265/70R16 | P265/70R16 |
| Tire Size on Vehicle | P265/70R16 | P265/70R16 |
| Tire Manufacturer | BF Goodrich | BF Goodrich |
| Treadwear | 440 | 440 |
| Traction | B | B |
| Temperature Grades | B | B |
| Tire Plies Sidewall | 2 Polyester + 2 Steel + 1 Nylon | 2 Polyester + 2 Steel + 1 Nylon |
| Tire Plies Body | 1 Ply Polyester | 1 Ply Polyester |
| Load Index/Speed Symbol | 111T | 111T |
| Tire Material | 2 Polyester + 2 Steel + Rubber | 2 Polyester + 2 Steel + Rubber |
| DOT Safety Code Right | AP72 FB21 5204 | AP72 FB21 5204 |
| DOT Safety Code Left | AP72 FB21 5204 | AP72 FB21 5204 |

DATA SHEET NO. 1...(CONTINUED)

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M55209
 Test Date: 3/17/05

TEST VEHICLE WEIGHTS

| | Units | As Delivered Weights (UVW) | | | As Tested Weights (ATW) | | |
|--------|-------|----------------------------|-----------|-------|-------------------------|-----------|-------|
| | | Front Axle | Rear Axle | Total | Front Axle | Rear Axle | Total |
| Left | kg | 490 | 466 | | 546 | 580 | |
| Right | kg | 487 | 461 | | 506 | 543 | |
| Ratio | % | 51.3 | 48.7 | | 48.4 | 51.6 | |
| Totals | kg | 977 | 927 | 1904 | 1052 | 1123 | 2175 |

TARGET TEST WEIGHT CALCULATION

| Measured Parameter | Units | Value |
|--------------------------------------|-------|-------|
| Total Delivered Weight (UVW) | kg | 1904 |
| Weight of 2 P572 ATD's | kg | 161 |
| Rated Cargo/Luggage Wt. (RCLW) | kg | 115 |
| Calculated Vehicle Target Wt. (TVTW) | kg | 2180 |

TEST VEHICLE ATTITUDE AND CG

| | Units | LF | RF | LR | RR | CG (aft of front axle) |
|--------------|-------|-----|-----|-----|-----|------------------------|
| As Delivered | mm | 853 | 857 | 875 | 878 | 1324 |
| As Tested | mm | 844 | 856 | 844 | 854 | 1404 |
| Fully Loaded | mm | 843 | 856 | 842 | 850 | |

GENERAL TEST VEHICLE DATA

| Measurement Description | Units | Value |
|---|--------|-------|
| Test Vehicle Wheel Base | mm | 2720 |
| Total Vehicle Length at Left Side | mm | 3163 |
| Total Vehicle Length at Centerline | mm | 4550 |
| Total Vehicle Length at Right Side | mm | 3163 |
| Weight of Ballast In Cargo Area | kg | 62 |
| Amount of Stoddard Solvent in Fuel Tank | Liters | 70.41 |

TEST VEHICLE VERTICAL IMPACT LINE DATA

| Measurement Description | Units | Value |
|---------------------------------------|-------|-------|
| Test Vehicle Wheel Base | mm | 2720 |
| Target Impact Point Aft of Front Axle | mm | 420 |
| Actual Impact Point Aft of Front Axle | mm | 415 |

DATA SHEET NO. 1...(CONTINUED)

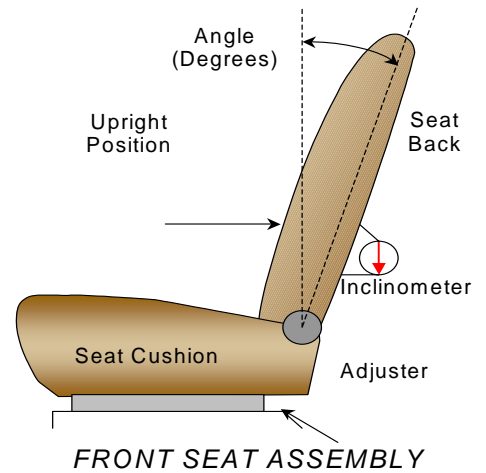
GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M55209
 Test Date: 3/17/05

NOMINAL DESIGN RIDING POSITION

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



SEAT BACK ANGLES

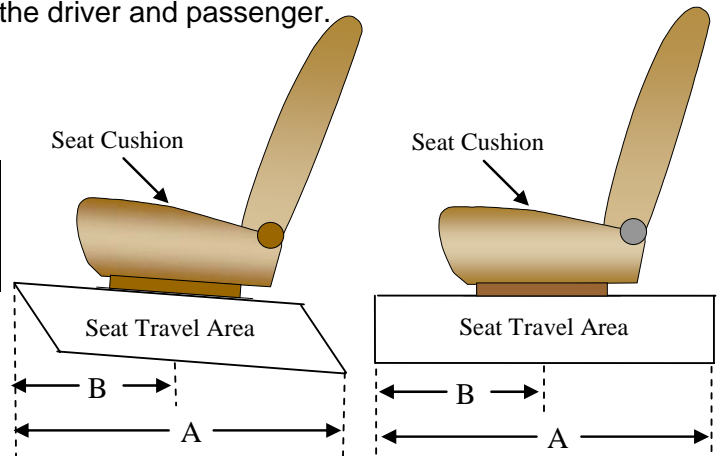
| | Deg. |
|-------------------------------|------|
| Driver w/seated Dummy | 21.0 |
| Rear Passenger w/seated Dummy | 25.0 |

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 | Placed in Position # |
|-------------|-----------------------|----------------------|
| Driver Seat | 21 Detents | 11th Detent |
| Rear Seat | 1 Detent | 1st Detent |



SEAT BELT UPPER ANCHORAGE

Position number one (1) is the uppermost position.

SEAT BELT UPPER ANCHORAGE

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

DATA SHEET NO. 1...(CONTINUED)

GENERAL TEST AND VEHICLE PARAMETER DATA

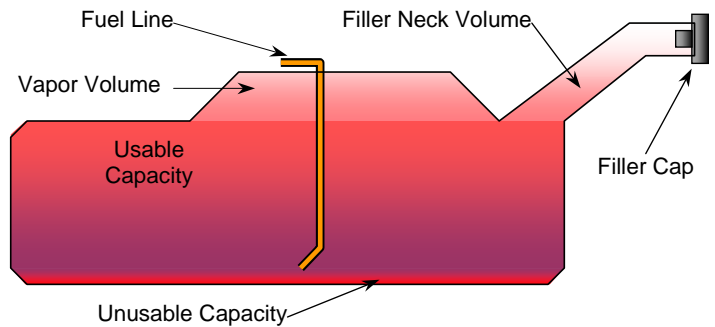
Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M55209
 Test Date: 3/17/05

FUEL TANK CAPACITY

| | Liters |
|------------------------------------|----------------|
| Usable Capacity of "Standard Tank" | 75.71 |
| Usable Capacity of "Optional" Tank | |
| Usable Capacity used for FMVSS 301 | 69.65 to 71.17 |
| Actual Amount of Solvent used | 70.41 |

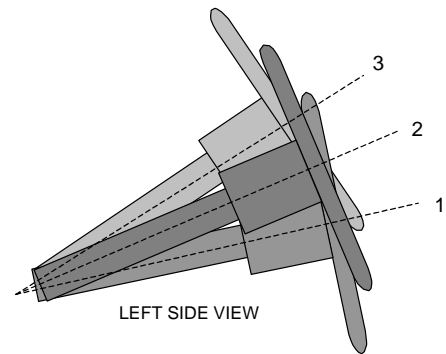
The test vehicle is equipped with an electric fuel pump. The fuel pump will operate for approximately three (3) seconds with the ignition in the "ON" position, after which the fuel pump automatically shuts off. The fuel filler door is located on the left rear fender.



VEHICLE FUEL TANK ASSEMBLY

STEERING COLUMN ADJUSTMENT

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



STEERING COLUMN ASSEMBLY

STEERING COLUMN POSITIONS

| | Degrees | Fore/Aft Position (mm) |
|---------------------------------|---------|------------------------|
| Lowermost Position No.1 | 15.5 | |
| Geometric Center Position No. 2 | 24.7 | |
| Uppermost Position No.3 | 34.0 | |

DATA SHEET NO. 2

TEST VEHICLE SUMMARY OF RESULTS

Test Vehicle: 2005 Nissan Xterra 5-Door MPV

NHTSA No.: M55209

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

Test Date: 3/17/05

TEST VEHICLE WEIGHTS

| | Units | As Delivered Weights (UVW) | | | As Tested Weights (ATW) | | |
|--------|-------|----------------------------|-----------|-------|-------------------------|-----------|-------|
| | | Front Axle | Rear Axle | Total | Front Axle | Rear Axle | Total |
| Left | kg | 490 | 466 | | 546 | 580 | |
| Right | kg | 487 | 461 | | 506 | 543 | |
| Ratio | % | 51.3 | 48.7 | 100% | 48.4 | 51.6 | 100% |
| Totals | kg | 977 | 927 | 1904 | 1052 | 1123 | 2175 |

MAXIMUM EXTERIOR STATIC CRUSH

| Level | Measured Parameter | Units | Maximum Crush | Above Ground |
|---------|---------------------|-------|---------------|--------------|
| Level 1 | Sill Top Height | mm | 206 | 405 |
| Level 2 | Occupant H-Point | mm | 219 | 786 |
| Level 3 | Mid Door | mm | 243 | 776 |
| Level 4 | Window Sill | mm | 95 | 1124 |
| Level 5 | Window top | mm | 49 | 1677 |
| N/A | Maximum Penetration | mm | 243 | |

INSTRUMENTATION

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

CAMERA COVERAGE

| | Standard | Additional |
|------------------------------|-----------|------------|
| High Speed, Vehicle On-Board | 3 | 0 |
| High Speed, Off-Board | 6 | 1 |
| High Speed, MDB On-Board | 2 | 0 |
| Real Time, Panning | 1 | 2 |
| Total | 12 | 3 |

DATA SHEET NO. 3

MOVING DEFORMABLE BARRIER (MDB) SUMMARY OF RESULTS

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M55209
 Test Date: 3/17/05

MDB SPECIFICATIONS (mm)

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

MDB WEIGHTS

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

SPEED AND IMPACT DATA

| Measured Parameter | Units | Requirement | Value |
|---------------------------------|---------|--------------|-------|
| Trap No. 1 Velocity (Primary) | km/h | 61.1 to 62.7 | 62.00 |
| Trap No. 2 Velocity (Redundant) | km/h | 61.1 to 62.7 | 61.86 |
| MDB CL to Target Vehicle CL | degrees | 88.5 to 91.5 | 89.5 |

MAXIMUM STATIC CRUSH OF HONEYCOMB FACE (mm)

| Vertical Location | | | From Centerline | | Max. Crush |
|-------------------|------------------|--------|-----------------|-----------|------------|
| Row | Description | Height | Distance | Direction | |
| A | Center of Bumper | 432 | 800 | Left | 210 |
| B | Top of Bumper | 533 | 800 | Left | 161 |
| C | Mid Level | 686 | 700 | Left | 138 |
| D | Top of Stack | 813 | 800 | Left | 162 |

MDB INSTRUMENTATION AND CAMERAS

| | |
|--------------------|---|
| Accelerometers | 5 |
| Contact Switches | 1 |
| High Speed Cameras | 2 |

DATA SHEET NO. 4
POST-TEST OBSERVATIONS

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M55209
Test Date: 3/17/05

TEST DUMMY INFORMATION AND CONTACT POINTS

| Description | Front Seat SID/HIII | Rear Seat SID/HIII |
|-------------------------|-------------------------|-------------------------|
| Dummy Type / Serial No. | P572F, SID/HIII NO. 274 | P572F, SID/HIII NO. 275 |
| Head Contact | Driver Window | C-Pillar |
| Upper Torso Contact | Door Panel | Door Panel |
| Lower Torso Contact | Door Panel | Door Panel |
| Left Knee Contact | Door Panel | Door Panel |
| Right Knee Contact | None | None |

POST-TEST DOOR OPENING AND SEAT TRACK INFORMATION

| Description | Front | Rear |
|--------------------------|--------------------------------|--------------------------------|
| Left Side Doors Opening | Remained Latched/Inoperable | Remained Latched/Inoperable |
| Right Side Doors Opening | Remained Closed/Latch Operable | Remained Closed/Latch Operable |
| Seat Movement (mm) | 0 | 0 |
| Seat Back Failure | No | No |

POST-TEST STRUCTURAL OBSERVATIONS

| Critical Areas of Performance | Observations and Conclusions |
|-------------------------------|--|
| Pillar Performance | Pillars pushed inward with no apparent failure |
| Sill Separation | No Apparent Visible Failure |
| Windshield Damage | None |
| Window Damage | None |
| Other Notable Effects | None |

SUPPLEMENTAL RESTRAINT SYSTEM INFORMATION

| Restraint Type | Left Front (Driver) Occupant Location 01 | | Left Rear (Passenger) Occupant Location 04 | |
|------------------------|--|-----------|--|-----------|
| | Installed | Operation | Installed | Operation |
| Front Airbag | Yes | Deployed | No | |
| Side Airbag | No | | No | |
| Head Airbag | No | | No | |
| Curtain Airbag | No | | No | |
| Seat Belt Pretensioner | Yes | | No | |
| Seat Belt Load Limiter | Yes | | No | |

MDB LEFT EDGE IMPACT POINT DATA

| Measured Parameter | Units | Requirement | Value |
|--------------------|-------|-------------|-----------|
| Horizontal Offset | mm | +/- 50 | -5 (Left) |
| Vertical Offset | mm | +/- 20 | 2 (Above) |

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

Test Vehicle: 2005 Nissan Xterra 5-Door MPV

NHTSA No.: M55209

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

Test Date: 3/17/05

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

| Location | Axis | Units | Driver | | | | Passenger | | | |
|--------------------------------|------|-------|--------|------|------|------|-----------|------|-------|------|
| | | | Max | Time | Min | Time | Max | Time | Min | Time |
| Upper Rib (LUR) | Y | G's | 31.0 | 59.4 | -2.0 | 20.0 | 25.6 | 83.1 | -2.7 | 87.5 |
| Lower Rib (LLR) | Y | G's | 28.1 | 56.3 | -5.3 | 76.9 | 19.9 | 61.9 | -11.9 | 78.1 |
| Lower Spine (T ₁₂) | Y | G's | 29.8 | 49.4 | -4.2 | 72.5 | 25.3 | 55.6 | -8.9 | 81.9 |
| Pelvis (PEV) | Y | G's | 32.3 | 46.9 | -7.1 | 65.0 | 24.7 | 35.6 | -15.5 | 84.4 |

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

| Location | Driver | | | | Passenger | | | |
|--------------------------------|--------|-----------------|--------|--------|-----------|-----------------|--------|--------|
| | LUR | T ₁₂ | TTI(g) | PEV(g) | LUR | T ₁₂ | TTI(g) | PEV(g) |
| Primary Rib, Spine, and Pelvis | 30.958 | 29.829 | 30 | 32 | 25.589 | 25.278 | 25 | 25 |

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

| Location | Axis | Units | Driver | | | | Passenger | | | |
|--------------------------------|------|-------|--------|------|------|------|-----------|------|-------|------|
| | | | Max | Time | Min | Time | Max | Time | Min | Time |
| Upper Rib (LUR) | Y | G's | 30.6 | 59.4 | -2.4 | 20.0 | 26.0 | 82.5 | -2.7 | 77.5 |
| Lower Rib (LLR) | Y | G's | 28.2 | 56.3 | -5.5 | 76.9 | 20.3 | 61.9 | -11.9 | 78.1 |
| Lower Spine (T ₁₂) | Y | G's | 29.3 | 50.0 | -4.1 | 72.5 | 25.6 | 55.6 | -9.2 | 91.3 |
| Pelvis (PEV) | Y | G's | 32.7 | 47.5 | -7.0 | 65.0 | 24.5 | 35.6 | -15.1 | 84.4 |

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

| Location | Driver | | | | Passenger | | | |
|----------------------------------|--------|-----------------|--------|--------|-----------|-----------------|--------|--------|
| | LUR | T ₁₂ | TTI(g) | PEV(g) | LUR | T ₁₂ | TTI(g) | PEV(g) |
| Redundant Rib, Spine, and Pelvis | 30.631 | 29.318 | 30 | 33 | 25.990 | 25.574 | 26 | 25 |

Positive Acceleration Polarities:

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

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

Test Vehicle: 2005 Nissan Xterra 5-Door MPV

NHTSA No.: M55209

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

Test Date: 3/17/05

HEAD PRIMARY PEAK ACCELERATIONS (SAE CLASS 1000 Filtered)

| Location | Axis | Units | Driver | | | | Passenger | | | |
|-------------------|------|-------|--------|------|------|------|-----------|------|-------|------|
| | | | Max | Time | Min | Time | Max | Time | Min | Time |
| Head CG | X | G's | 2.9 | 30.5 | -6.0 | 61.2 | 21.5 | 66.5 | -27.4 | 83.6 |
| Head CG | Y | G's | 61.2 | 91.5 | -5.1 | 49.9 | 60.1 | 66.6 | -5.4 | 56.8 |
| Head CG | Z | G's | 26.3 | 90.8 | -1.5 | 20.4 | 23.7 | 84.2 | -10.1 | 73.5 |
| Head CG Resultant | N/A | G's | 63.5 | 91.5 | | | 64.0 | 66.6 | | |

HEAD PRIMARY INJURY CRITERIA (SAE CLASS 1000 Filtered)

| Location | Driver | | | | Passenger | | | |
|----------|--------|----------------|----------------|-------|-----------|----------------|----------------|-------|
| | HIC | T ¹ | T ² | Avg G | HIC | T ¹ | T ² | Avg G |
| Head CG | 95.2 | 90.3 | 97.2 | 45.0 | 125.4 | 61.5 | 97.5 | 26.1 |

HEAD REDUNDANT PEAK ACCELERATIONS (SAE CLASS 1000 Filtered)

| Location | Axis | Units | Driver | | | | Passenger | | | |
|-------------------|------|-------|--------|------|------|------|-----------|------|-------|------|
| | | | Max | Time | Min | Time | Max | Time | Min | Time |
| Head CG | X | G's | 3.2 | 30.5 | -6.3 | 99.6 | 21.6 | 66.6 | -27.1 | 83.5 |
| Head CG | Y | G's | 61.4 | 91.5 | -5.2 | 50.1 | 60.7 | 66.4 | -5.7 | 56.0 |
| Head CG | Z | G's | 26.9 | 90.7 | -1.5 | 16.8 | 23.1 | 84.0 | -10.3 | 73.4 |
| Head CG Resultant | N/A | G's | 63.9 | 91.5 | | | 64.7 | 66.5 | | |

HEAD REDUNDANT INJURY CRITERIA (SAE CLASS 1000 Filtered)

| Location | Driver | | | | Passenger | | | |
|----------|--------|----------------|----------------|-------|-----------|----------------|----------------|-------|
| | HIC | T ¹ | T ² | Avg G | HIC | T ¹ | T ² | Avg G |
| Head CG | 97.5 | 90.3 | 97.2 | 45.4 | 123.1 | 61.4 | 97.4 | 25.9 |

UPPER NECK PEAK FORCES AND MOMENTS

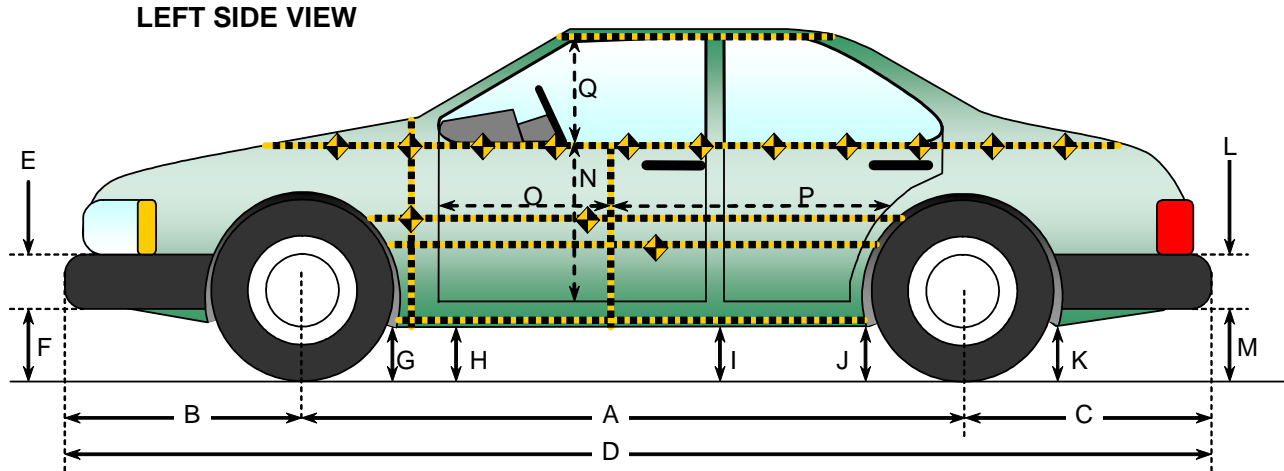
| Location | Axis | Units | Driver | | | | Passenger | | | |
|-----------------------|------|---------|--------|-------|--------|-------|-----------|-------|---------|-------|
| | | | Max | Time | Min | Time | Max | Time | Min | Time |
| Neck Force | X | Newtons | 39.6 | 31.6 | -229.0 | 100.0 | 13.5 | 15.4 | -494.6 | 96.4 |
| Neck Force | Y | Newtons | 602.1 | 94.8 | -207.2 | 50.0 | 183.6 | 138.0 | -842.0 | 66.7 |
| Neck Force | Z | Newtons | 867.1 | 87.4 | -497.6 | 93.9 | 320.6 | 102.0 | -1734.1 | 70.8 |
| Neck Force Resultant | N/A | Newtons | 962.4 | 87.4 | | | 1845.6 | 70.4 | | |
| Neck Moment | X | Nm | 31.5 | 103.9 | -51.1 | 61.7 | 24.2 | 146.5 | -33.3 | 80.4 |
| Neck Moment | Y | Nm | 10.1 | 149.5 | -13.6 | 60.7 | 30.1 | 112.7 | -42.1 | 81.2 |
| Neck Moment | Z | Nm | 12.5 | 108.5 | -4.1 | 35.5 | 43.1 | 84.3 | -5.4 | 141.6 |
| Neck Moment Resultant | N/A | Nm | 52.7 | 61.6 | | | 67.1 | 80.9 | | |

DATA SHEET NO. 6

VEHICLE PRE-TEST AND POST-TEST MEASUREMENTS

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M55209
 Test Date: 3/17/05



VEHICLE PRE AND POST-TEST MEASUREMENT INFORMATION

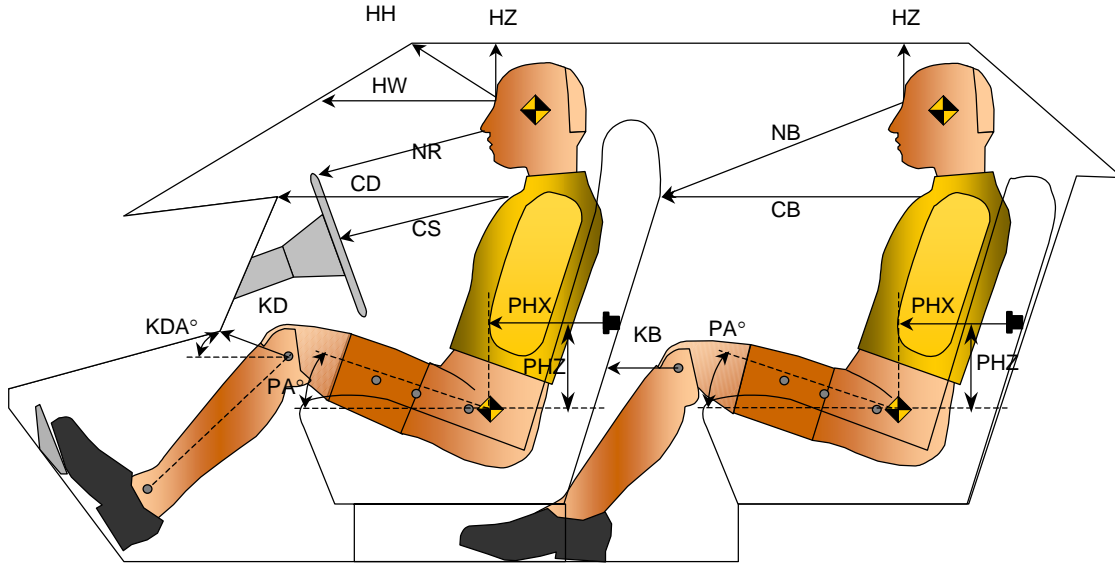
| Code | Measurement Description | Pre-Test (mm) | Post-Test (mm) | Difference (mm) |
|------|--|---------------|----------------|-----------------|
| A | Wheelbase | 2720 | 2700 | -20 |
| B | Front Axle to FSOV | 756 | 803 | 47 |
| C | Rear Axle to RSOV | 1074 | 1055 | -19 |
| D | Total Length at Centerline | 4550 | 4540 | -10 |
| E | Front Bumper Thickness | 462 | 462 | 0 |
| F | Front Bumper Bottom to Ground | 373 | 366 | -7 |
| G | Sill Height at Front Wheel Well | 323 | 341 | 18 |
| H | Sill Height at Front Door Leading Edge | 348 | 318 | -30 |
| I | Sill Height at "B" Pillar | 348 | 368 | 20 |
| J1 | Sill Height at Rear Wheel Well | 298 | 366 | 68 |
| J2 | Pinch Weld Height at Rear Wheel Well | 313 | 347 | 34 |
| K | Sill Height aft of Rear Wheel Well | 329 | 354 | 25 |
| L | Rear Bumper Thickness | 250 | 250 | 0 |
| M | Rear Bumper Bottom to Ground | 448 | 468 | 20 |
| N | Sill Height to Window Bottom Sill | 745 | 710 | -35 |
| O | Front Door Leading Edge to Impact CL | 640 | 630 | -10 |
| P | Rear Door Trailing Edge to Impact CL | 1420 | 1363 | -57 |
| Q | Front Window Opening | 455 | 435 | -20 |
| R | Right Side Length | 3163 | 3185 | 22 |
| S | Left Side Length | 3163 | 3115 | -48 |
| T | Vehicle Width at "B" Post | 1782 | 1720 | -62 |

DATA SHEET NO. 7

SID/HIII LONGITUDINAL CLEARANCE DIMENSIONS

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M55209
 Test Date: 3/17/05



LONGITUDINAL CLEARANCE DIMENSION INFORMATION

| Driver Code | Pass. Code | Measurement Description | Driver | | Passenger | |
|-------------|------------|----------------------------------|------------|-------|------------|-------|
| | | | Length(mm) | Angle | Length(mm) | Angle |
| HH | | Head to Header | 385 | 20.0 | | |
| HW | | Head to Windshield | 635 | 0.0 | | |
| HZ | HZ | Head to Roof | 155 | | 195 | |
| NR | NB | Nose to Rim/Nose to Back of Seat | 450 | 18.4 | 640 | 18.4 |
| CD | CB | Chest to Dash/Back of Seat | 560 | 1.3 | 670 | 1.6 |
| CS | | Chest to Steering Wheel | 330 | 14.6 | | |
| KDL | KBL | Left Knee to Dash/Seat Back | 140 | 6.8 | 205 | 0.0 |
| KDR | KBR | Right Knee to Dash/Seat Back | 135 | | 200 | |
| PA | PA | Pelvic Angle | | 18.0* | | 25.0 |
| PHX | PHX | H-Point to Striker (X-Axis) | 250 | 37.4 | 325 | 50.0 |
| PHZ | PHZ | H-Point to Striker (Z-Axis) | 59 | | 240 | |

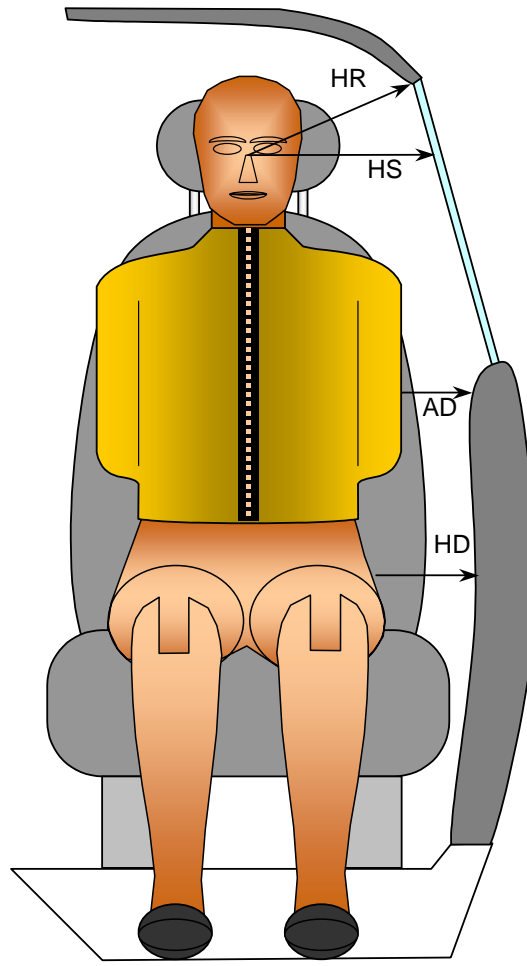
* Correct pelvic angle was unobtainable, dummy was positioned according to the H-point location.

DATA SHEET NO. 8

SID/HII LATERAL CLEARANCE DIMENSIONS

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M55209
 Test Date: 3/17/05



FRONT VIEW OF DUMMY

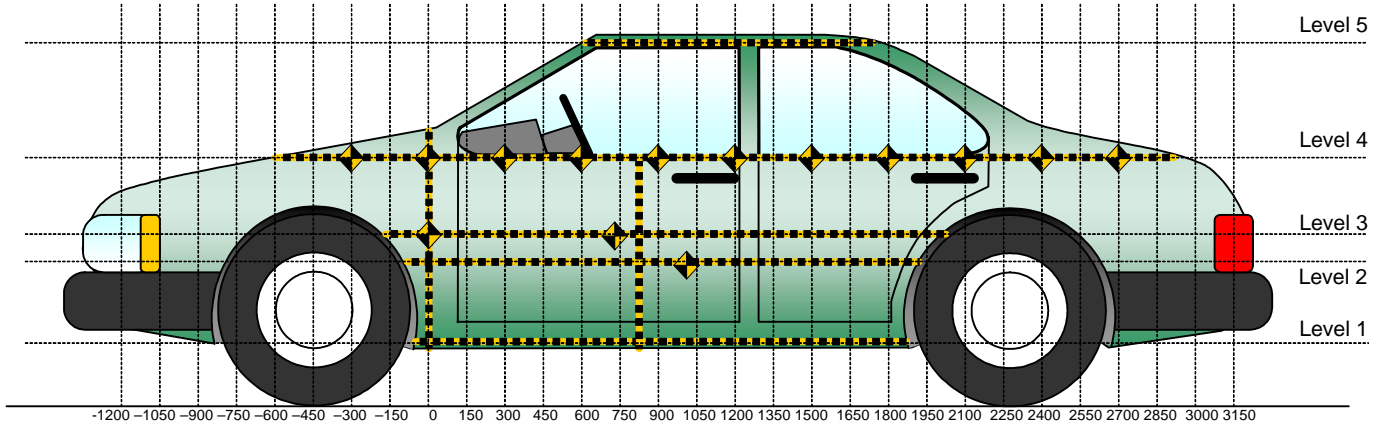
LATERAL CLEARANCE DIMENSION INFORMATION

| Code | Measurement Description | Units | Driver | Passenger |
|------|-------------------------|-------|--------|-----------|
| HR | Head to Side Header | mm | 225 | 225 |
| HS | Head to Side Window | mm | 310 | 340 |
| AD | Arm to Door | mm | 100 | 155 |
| HD | H-Point to Door | mm | 150 | 180 |

DATA SHEET NO. 9
VEHICLE SIDE MEASUREMENTS

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M55209
 Test Date: 3/17/05



All Measurements Shown in mm

LEFT SIDE VIEW

Measurements are taken with vehicle in the as tested condition.
 Measurements taken 900 mm right of impact reference.
 All measurements below in mm.

| Level | Measurement Description | Height Above Ground |
|-------|-------------------------|---------------------|
| 1 | Sill Top | 405 |
| 2 | Occupant H-Point | 786 |
| 3 | Mid Door | 776 |
| 4 | Window Sill | 1124 |
| 5 | Window Top | 1677 |

DATA SHEET NO. 10

VEHICLE EXTERIOR CRUSH PROFILES

Test Vehicle: 2005 Nissan Xterra 5-Door MPV

NHTSA No.: M55209

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

Test Date: 3/17/05

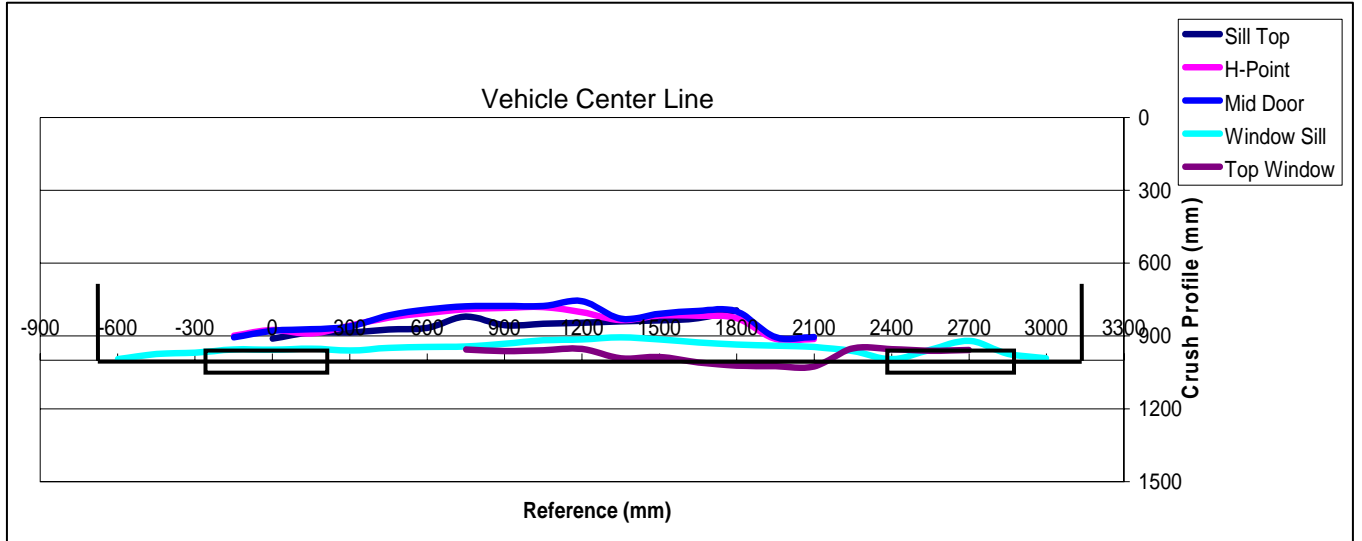
| | Pre-Test | | | | | Post-Test | | | | | Difference | | | | |
|------|----------|-----|-----|-----|-----|-----------|-----|-----|-----|-----|------------|-----|-----|----|-----|
| | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 |
| -900 | | | | | | | | | | | | | | | |
| -750 | | | | | | | | | | | | | | | |
| -600 | | | | 209 | | | | | 214 | | | | | 5 | |
| -450 | | | | 187 | | | | | 213 | | | | | 26 | |
| -300 | | | | 179 | | | | | 210 | | | | | 31 | |
| -150 | | 80 | 81 | 169 | | | 181 | 176 | 214 | | | 101 | 95 | 45 | |
| 0 | 87 | 87 | 87 | 158 | | 176 | 212 | 208 | 201 | | 89 | 125 | 121 | 43 | |
| 150 | 157 | 118 | 111 | 151 | | 272 | 228 | 239 | 199 | | 115 | 110 | 128 | 48 | |
| 300 | 186 | 120 | 120 | 148 | | 301 | 262 | 259 | 188 | | 115 | 142 | 139 | 40 | |
| 450 | 181 | 120 | 118 | 150 | | 308 | 296 | 303 | 201 | | 127 | 176 | 185 | 51 | |
| 600 | 181 | 117 | 117 | 146 | | 314 | 311 | 326 | 200 | | 133 | 194 | 209 | 54 | |
| 750 | 178 | 116 | 116 | 146 | 391 | 358 | 326 | 338 | 203 | 435 | 180 | 210 | 222 | 57 | 44 |
| 900 | 178 | 115 | 115 | 146 | 380 | 322 | 331 | 338 | 214 | 418 | 144 | 216 | 223 | 68 | 38 |
| 1050 | 176 | 114 | 114 | 143 | 379 | 326 | 333 | 337 | 225 | 420 | 150 | 219 | 223 | 82 | 41 |
| 1200 | 176 | 114 | 114 | 140 | 371 | 330 | 312 | 357 | 226 | 418 | 154 | 198 | 243 | 86 | 47 |
| 1350 | 176 | 115 | 115 | 139 | 366 | 336 | 281 | 286 | 234 | 374 | 160 | 166 | 171 | 95 | 8 |
| 1500 | 176 | 115 | 115 | 139 | 363 | 341 | 300 | 306 | 225 | 376 | 165 | 185 | 191 | 86 | 13 |
| 1650 | 178 | 115 | 115 | 140 | 365 | 351 | 298 | 318 | 213 | 356 | 173 | 183 | 203 | 73 | -9 |
| 1800 | 130 | 113 | 113 | 141 | 368 | 336 | 286 | 314 | 205 | 346 | 206 | 173 | 201 | 64 | -22 |
| 1950 | | 86 | 86 | 145 | 370 | | 198 | 206 | 205 | 346 | | 112 | 120 | 60 | -24 |
| 2100 | | 80 | 80 | 146 | 372 | | 168 | 176 | 200 | 346 | | 88 | 96 | 54 | -26 |
| 2250 | | | | 148 | 372 | | | | 186 | 421 | | | | 38 | 49 |
| 2400 | | | | 148 | 375 | | | | 196 | 421 | | | | 5 | 46 |
| 2550 | | | | 153 | 382 | | | | 196 | 421 | | | | 43 | 39 |
| 2700 | | | | 171 | 386 | | | | 251 | 428 | | | | 80 | 42 |
| 2850 | | | | 186 | | | | | 213 | | | | | 27 | |
| 3000 | | | | 206 | | | | | 214 | | | | | 8 | |

Measurements are taken from fixed reference 1000 mm from vehicle centerline.

DATA SHEET NO. 10...(CONTINUED)
VEHICLE EXTERIOR CRUSH PROFILES

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M55209
 Test Date: 3/17/05



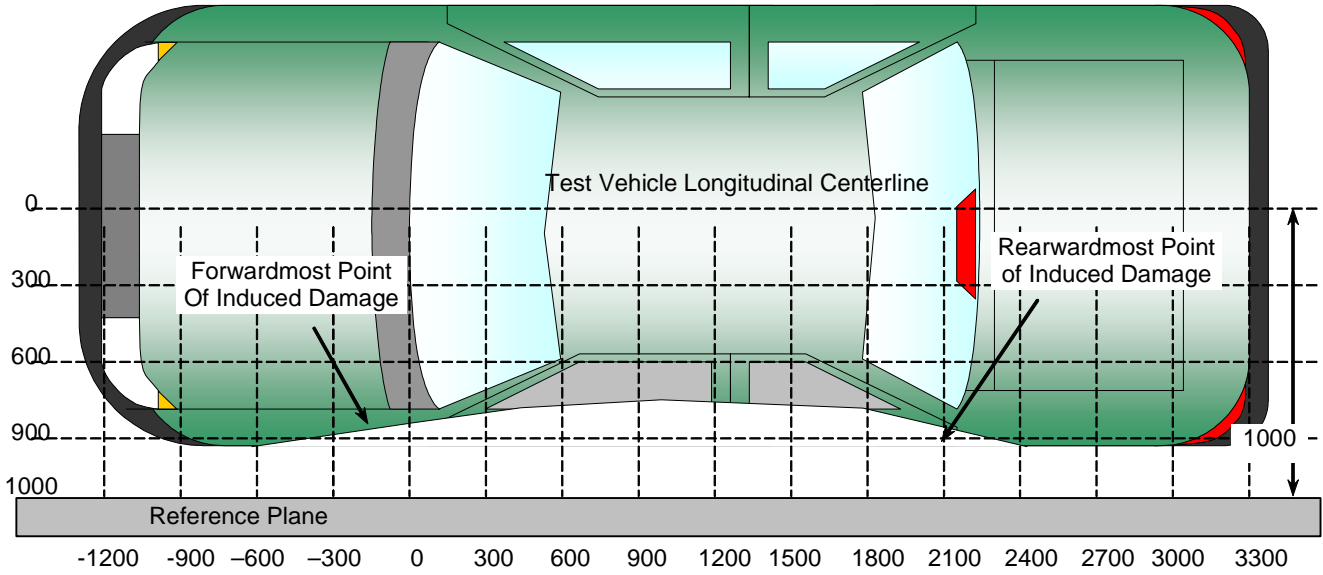
| | Units | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|----------------------|-------|---------|---------|---------|---------|---------|
| Maximum Crush | mm | 206 | 219 | 243 | 95 | 49 |
| Distance from Impact | mm | 1800 | 1050 | 1200 | 1350 | 2250 |

DATA SHEET NO. 11

VEHICLE DAMAGE PROFILE DISTANCES

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M55209
 Test Date: 3/17/05



All Dimensions Shown in millimeters

TOP VIEW

DAMAGE PROFILE DISTANCES

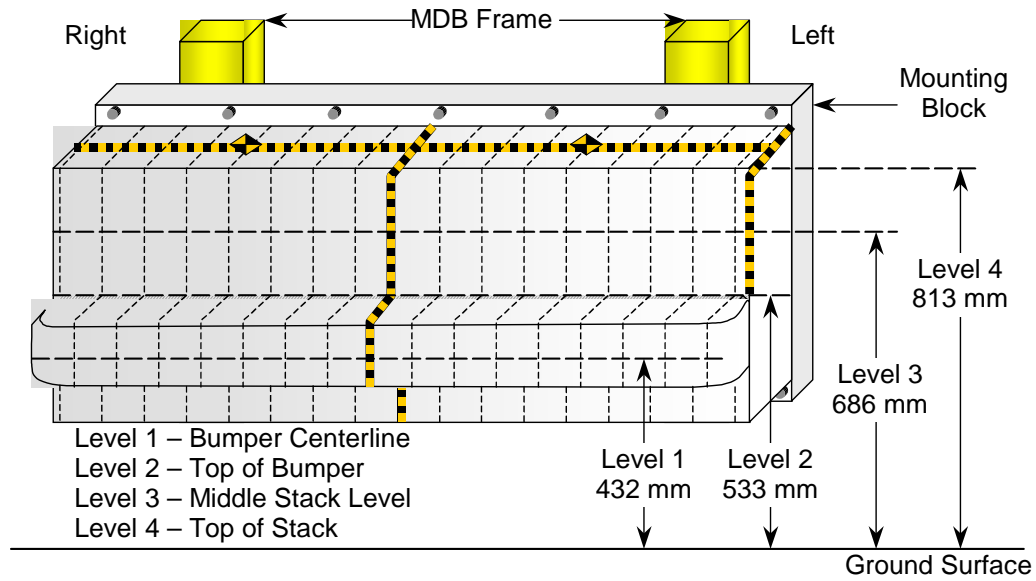
| DPD | Distance From Impact Point in mm | Level | Pre-Test (mm) | Post-Test (mm) | Max. Static Crush (mm) |
|-----|----------------------------------|-------|---------------|----------------|------------------------|
| 1 | -150 | 2 | 80 | 181 | 101 |
| 2 | 300 | 2 | 120 | 262 | 142 |
| 3 | 750 | 3 | 116 | 338 | 222 |
| 4 | 1200 | 3 | 114 | 357 | 243 |
| 5 | 1650 | 3 | 115 | 318 | 203 |
| 6 | 2100 | 3 | 80 | 176 | 96 |

DATA SHEET NO. 12

DEFORMABLE BARRIER HONEYCOMB FACE STATIC CRUSH

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M55209
 Test Date: 3/17/05



DEFORMABLE BARRIER STATIC CRUSH

| Stack Level | Distance Right of Center | | | | | | | | C/L | Distance Left of Center | | | | | | | |
|-------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------|-----|-----|-----|-----|-----|-----|-----|
| | 800 | 700 | 600 | 500 | 400 | 300 | 200 | 100 | | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| 1 | 210 | 193 | 188 | 183 | 181 | 180 | 178 | 174 | 170 | 172 | 173 | 173 | 173 | 172 | 169 | 164 | 188 |
| 2 | 161 | 161 | 159 | 156 | 150 | 150 | 146 | 142 | 133 | 121 | 56 | 118 | 115 | 116 | 119 | 140 | 143 |
| 3 | 136 | 138 | 100 | 75 | 61 | 56 | 56 | 58 | 61 | 65 | 77 | 96 | 125 | 114 | 94 | 86 | 111 |
| 4 | 162 | 134 | 102 | 82 | 71 | 58 | 52 | 52 | 56 | 66 | 86 | 125 | 146 | 125 | 117 | 123 | 131 |

All Dimensions in mm

DATA SHEET NO. 13

VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY

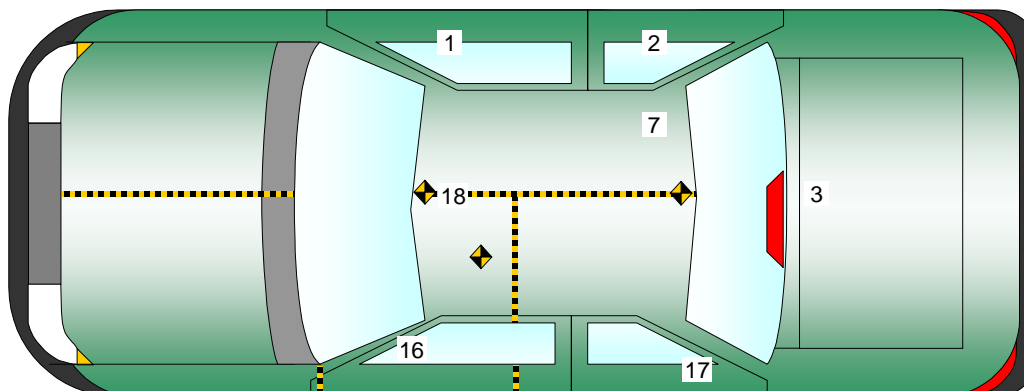
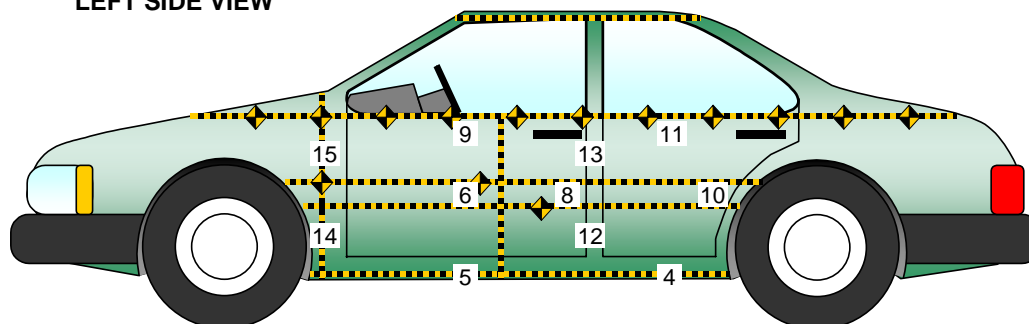
Test Vehicle: 2005 Nissan Xterra 5-Door MPV

NHTSA No.: M55209

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

Test Date: 3/17/05

LEFT SIDE VIEW



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

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

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

Test Vehicle: 2005 Nissan Xterra 5-Door MPV

NHTSA No.: M55209

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

Test Date: 3/17/05

VEHICLE ACCELEROMETER PEAK DATA AND PRE-TEST LOCATIONS

| Loc. No. | Accelerometer Location | Measurements (mm) | | | Peak Values (G's) | | | | |
|----------|-----------------------------|-------------------|------|------|-------------------|-------|-------|-------|-------|
| | | X | Y | Z | Axis | Max | Time | Min | Time |
| 1 | Right Sill at Front Seat | 2480 | 700 | 430 | X | 2.7 | 13.6 | -10.5 | 9.1 |
| | | | | | Y | 35.4 | 14.0 | -3.3 | 78.5 |
| | | | | | Z | 3.6 | 169.2 | -15.3 | 18.2 |
| | | | | | RES | 36.4 | 13.9 | | |
| 2 | Right Sill at Rear Seat | 1790 | 730 | 460 | X | 6.0 | 14.1 | -7.0 | 9.4 |
| | | | | | Y | 48.0 | 7.2 | -3.0 | 139.9 |
| | | | | | Z | 4.0 | 87.2 | -11.1 | 20.5 |
| | | | | | RES | 48.0 | 7.2 | | |
| 3 | Rear Floorpan Above Axle | 700 | 0 | 600 | X | 7.0 | 20.1 | -10.4 | 37.5 |
| | | | | | Y | 20.5 | 8.4 | -3.4 | 94.1 |
| | | | | | Z | 7.0 | 16.5 | -9.3 | 43.9 |
| | | | | | RES | 20.6 | 8.4 | | |
| 4 | Left Sill at Rear Door | 1900 | -570 | 240 | Y | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 | Left Sill at Front Door | 2420 | -570 | 240 | Y | 76.8 | 10.2 | -11.5 | 50.0 |
| 6 | Front Door Centerline | 2810 | -765 | 900 | Y | 132.6 | 11.6 | -79.3 | 25.0 |
| 7 | Rt. Rear Occ. Compartment | 2030 | 260 | 440 | Y | 57.1 | 7.6 | -3.0 | 140.2 |
| 8 | Front Door Mid-Rear | 2280 | -765 | 845 | Y | 179.2 | 11.6 | -40.0 | 30.1 |
| 9 | Front Door Upper Centerline | 2660 | -765 | 975 | Y | 96.3 | 15.2 | -56.4 | 22.6 |
| 10 | Rear Door Mid-Rear | 1400 | -830 | 955 | Y | 88.7 | 17.0 | -29.1 | 28.1 |
| 11 | Rear Door Upper Centerline | 1600 | -830 | 960 | Y | 84.6 | 9.4 | -36.9 | 32.2 |
| 12 | B-Post Lower | 2120 | -710 | 720 | Y | 86.6 | 7.2 | -23.0 | 17.9 |
| 13 | B-Post Middle | 2120 | -710 | 1140 | Y | 83.1 | 9.7 | -19.8 | 19.7 |
| 14 | A-Post Lower | 3125 | -835 | 780 | Y | 71.6 | 8.4 | -26.3 | 15.6 |
| 15 | A-Post Middle | 3125 | -835 | 980 | Y | 92.1 | 7.4 | -45.5 | 18.0 |
| 16 | Front Seat Track | 2200 | -610 | 530 | Y | 54.5 | 11.2 | -13.9 | 53.3 |
| 17 | Rear Seat Structure | | | | Y | | | | |
| 18 | Vehicle CG | 2700 | 235 | 450 | X | 10.6 | 14.7 | -22.4 | 8.3 |
| | | | | | Y | 38.6 | 14.2 | -3.5 | 141.3 |
| | | | | | Z | 15.2 | 26.5 | -35.5 | 11.9 |
| | | | | | RES | 47.9 | 12.3 | | |

1.) Channel failed, no data

2.) Not installed

DATA SHEET NO. 14
MDB ACCELEROMETER LOCATION AND DATA SUMMARY

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M55209
 Test Date: 3/17/05

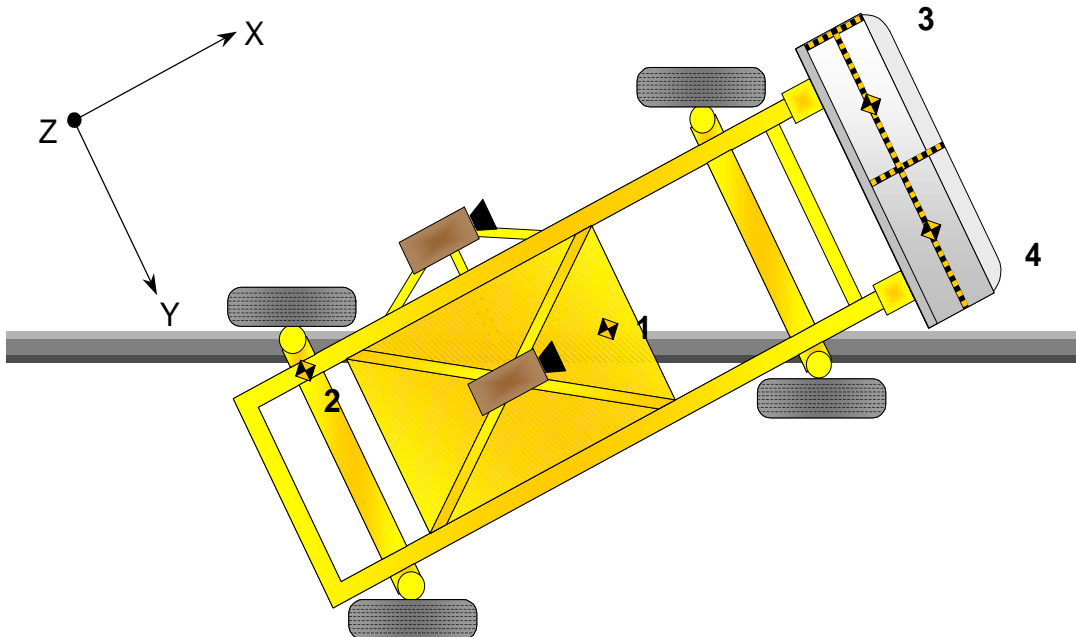
MDB ACCELEROMETER PEAK DATA AND LOCATIONS

| Loc. No. | Accelerometer Location | Measurements (mm) | | | Peak Values (G's) | | | | |
|----------|------------------------|-------------------|------|-----|-------------------|------|-------|-------|-------|
| | | X | Y | Z | Axis | Max | Time | Min | Time |
| 1 | MDB CG | -1195 | 0 | 430 | X | 4.0 | 102.3 | -23.7 | 24.5 |
| | | | | | Y | 1.7 | 177.4 | -7.0 | 37.6 |
| | | | | | Z | 18.2 | 59.3 | -16.6 | 175.5 |
| | | | | | RES | 24.6 | 24.1 | | |
| 2 | MDB Rear | -2642 | -593 | 608 | X | 2.4 | 105.5 | -24.2 | 24.8 |
| | | | | | Y | 2.9 | 136.7 | -5.6 | 27.8 |

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

MDB BUMPER CONTACT SWITCH DATA

| Loc. No. | Contact Switch Location | Units | Peak and 50% Crossing Point | | | |
|----------|-------------------------|--------|-----------------------------|------|------|------|
| | | | Max | Time | 50% | Time |
| 3 | MDB Left Bumper (T=0) | % F.S. | 100.0 | 0.0 | 50.0 | 0.0 |
| 4 | MDB Right Bumper | % F.S. | 99.7 | 70.6 | 50.0 | 3.1 |



DATA SHEET NO. 15

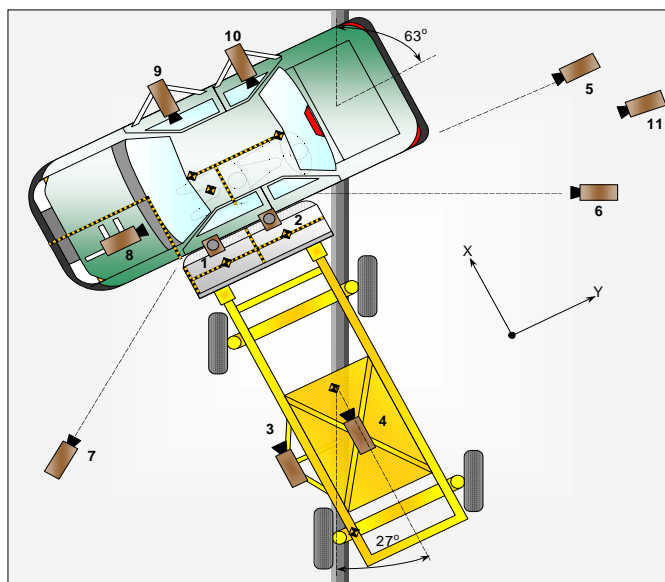
HIGH SPEED CAMERA LOCATIONS AND DATA

Test Vehicle: 2005 Nissan Xterra 5-Door MPV

NHTSA No.: M55209

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

Test Date: 3/17/05



| No. | Camera View | Location (mm) | | | Angle (deg.) | Lens (mm) | Film Speed (fps) |
|-----|------------------------------|---------------|-------|-------|--------------|-----------|------------------|
| | | X | Y | Z | | | |
| 1 | Overhead Overall | 1220 | 2286 | -5486 | -90 | 12 | 1000 |
| 2 | Overhead Close Up | 609 | 1676 | -5486 | -90 | 25 | 1000 |
| 3 | Impact Point | -2134 | 0 | -1143 | -7 | 13 | 520 |
| 4 | Side Overall | -3912 | 838 | -1829 | -11 | 13 | 800 |
| 5 | Rear | 228 | 15545 | -1371 | -1 | 35 | 1000 |
| 6 | Left Rear | -7188 | 16459 | -939 | -1 | 85 | 1120 |
| 7 | Left Front | -2666 | -3550 | -1473 | -10 | 13 | 1000 |
| 8 | Driver Front | 440 | -581 | -1500 | -20 | 24 | 1000 |
| 9 | Driver Side | 950 | 914 | -1300 | -2 | 24 | 1000 |
| 10 | Passenger Side | 840 | 1794 | -1310 | -2 | 24 | 1000 |
| 11 | Side Overall | 64008 | 41148 | -1575 | 0 | 100 | 510 |
| 12 | Real Time Film | 3658 | 22860 | -1727 | -5 | N/A | 30 |
| 13 | Additional Real Time Digital | -7100 | 16459 | -839 | 0 | N/A | 30 |
| 14 | Additional Real Time Digital | -2600 | -4700 | -1473 | -1 | N/A | 30 |
| 15 | Additional Left Front | -2575 | -3475 | -1421 | -7 | 85 | 1000 |

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

DNR: Did Not Run

DATA SHEET NO. 16

FMVSS 301 FUEL SYSTEM INTEGRITY POST-IMPACT DATA

Test Vehicle: 2005 Nissan Xterra 5-Door MPV

NHTSA No.: M55209

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

Test Date: 3/17/05

Test Time: 12:34 PM

Temperature: 18.3 Deg. C.

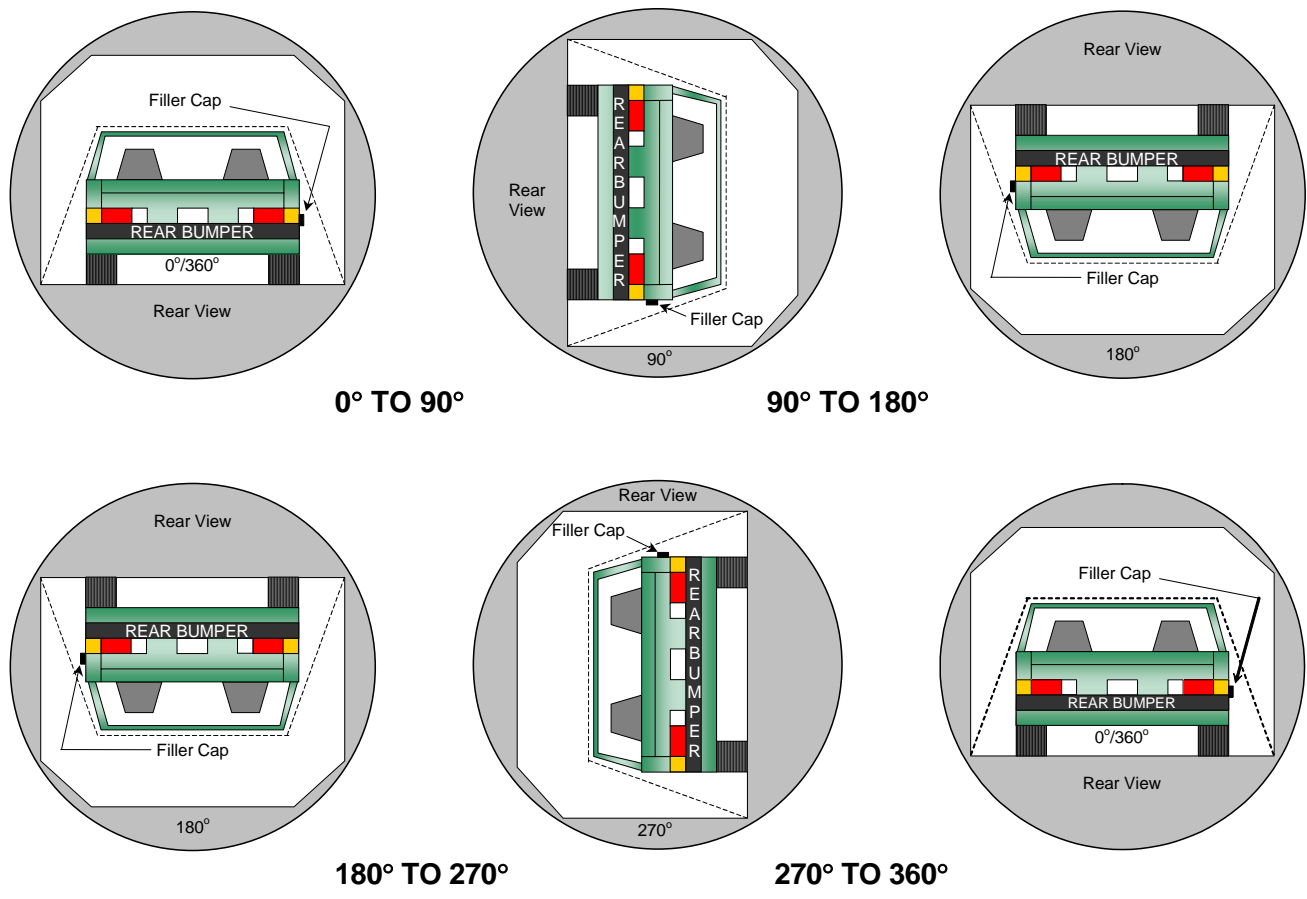
Stoddard Solvent Spillage Measurements

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

DATA SHEET NO. 17
FMVSS 301 STATIC ROLLOVER DATA SHEET

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M55209
 Test Date: 3/17/05



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

No solvent leakage occurred during static rollover testing.

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

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M55209
 Test Date: 3/17/05

SOLVENT COLLECTION TIME TABLE IN SECONDS

| Test Phase | Rotation Time | Hold Time | Total Time |
|--------------|---------------|-----------|------------|
| 0° to 90° | 83 | 300 | 383 |
| 90° to 180° | 78 | 300 | 378 |
| 180° to 270° | 77 | 300 | 377 |
| 270° to 360° | 79 | 300 | 379 |

FMVSS 301 SPILLAGE TABLE REQUIREMENT (oz.)

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

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

SOLVENT SPILLAGE LOCATION TABLE

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

APPENDIX A
PHOTOGRAPHS

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Figure A-1: Left Front $\frac{3}{4}$ View, as Received



Figure A-2: Right Rear ¾ View, as Received

MFD BY NISSAN MOTOR CO., LTD.

DATE 01/05
GVWR 5200 LB
GAWR FR. 2676 LB
WITH P265/70R16 TIRES
16X7.0 RIMS AT 35 PSI
COLD SINGLE
GAWR RR. 2963 LB
WITH P265/70R16 TIRES
16X7.0 RIMS AT 35 PSI
COLD SINGLE

THIS VEHICLE CONFORMS TO
ALL APPLICABLE FEDERAL MOTOR
VEHICLE SAFETY AND
THEFT PREVENTION STANDARDS
IN EFFECT ON THE DATE OF
MANUFACTURE SHOWN ABOVE.
SEE OWNERS MANUAL FOR
ADDITIONAL INFORMATION.

5N1AN08U45C 601314

MPV 608

MODEL: TCKULRY-EUA 0Z000

COLOR TRIM TRANS

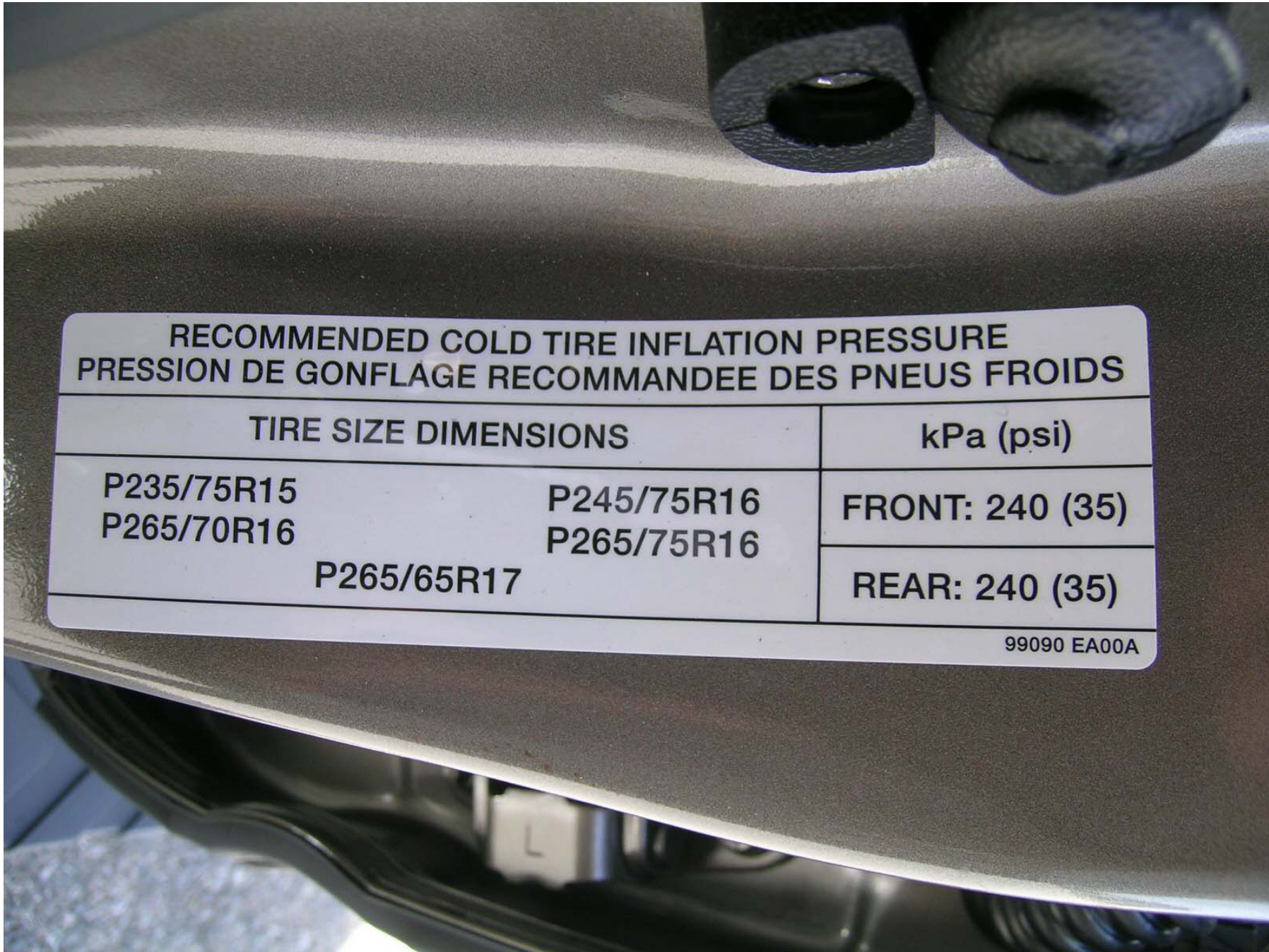
KY2 | P | FS6R31A

AXLE ENGINE

CC35 | VQ40DE 3954CC



Figure A-3: Manufacturer's Label



**RECOMMENDED COLD TIRE INFLATION PRESSURE
PRESSION DE GONFLAGE RECOMMANDEE DES PNEUS FROIDS**

| TIRE SIZE DIMENSIONS | kPa (psi) |
|--|------------------|
| P235/75R15 P265/70R16 | FRONT: 240 (35) |
| P245/75R16 P265/75R16 P265/65R17 | REAR: 240 (35) |

99090 EA00A

Figure A-4: Tire Placard



Figure A-5: Pre-Test Front View



Figure A-6: Post-Test Front View



Figure A-7: Pre-Test Left Front ¾ View



Figure A-8: Post-Test Left Front $\frac{3}{4}$ View



Figure A-9: Pre-Test Left Side View



Figure A-10: Post-Test Left Side View



A-11

TR-P25003-05-NC

Figure A-11: Pre-Test Left Rear ¾ View



Figure A-12: Post-Test Left Rear ¾ View



Figure A-13: Pre-Test Rear View



Figure A-14: Post-Test Rear View



Figure A-15: Pre-Test Right Rear ¾ View



Figure A-16: Post-Test Right Rear ¾ View



Figure A-17: Pre-Test Right Side View



Figure A-18: Post-Test Right Side View



A-19

TR-P25003-05-NC

Figure A-19: Pre-Test Right Front 3/4 View



A-20

TR-P25003-05-NC

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



Figure A-21: Pre-Test Overhead View



Figure A-22: Post-Test Overhead View



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



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

MI33209
/28 km/h 90°
SIDE IMPACT
03 / 17 / 05

XTERRA (5dr MPV)
KARCO
Engineering



Figure A-25: Pre-Test Impact Point

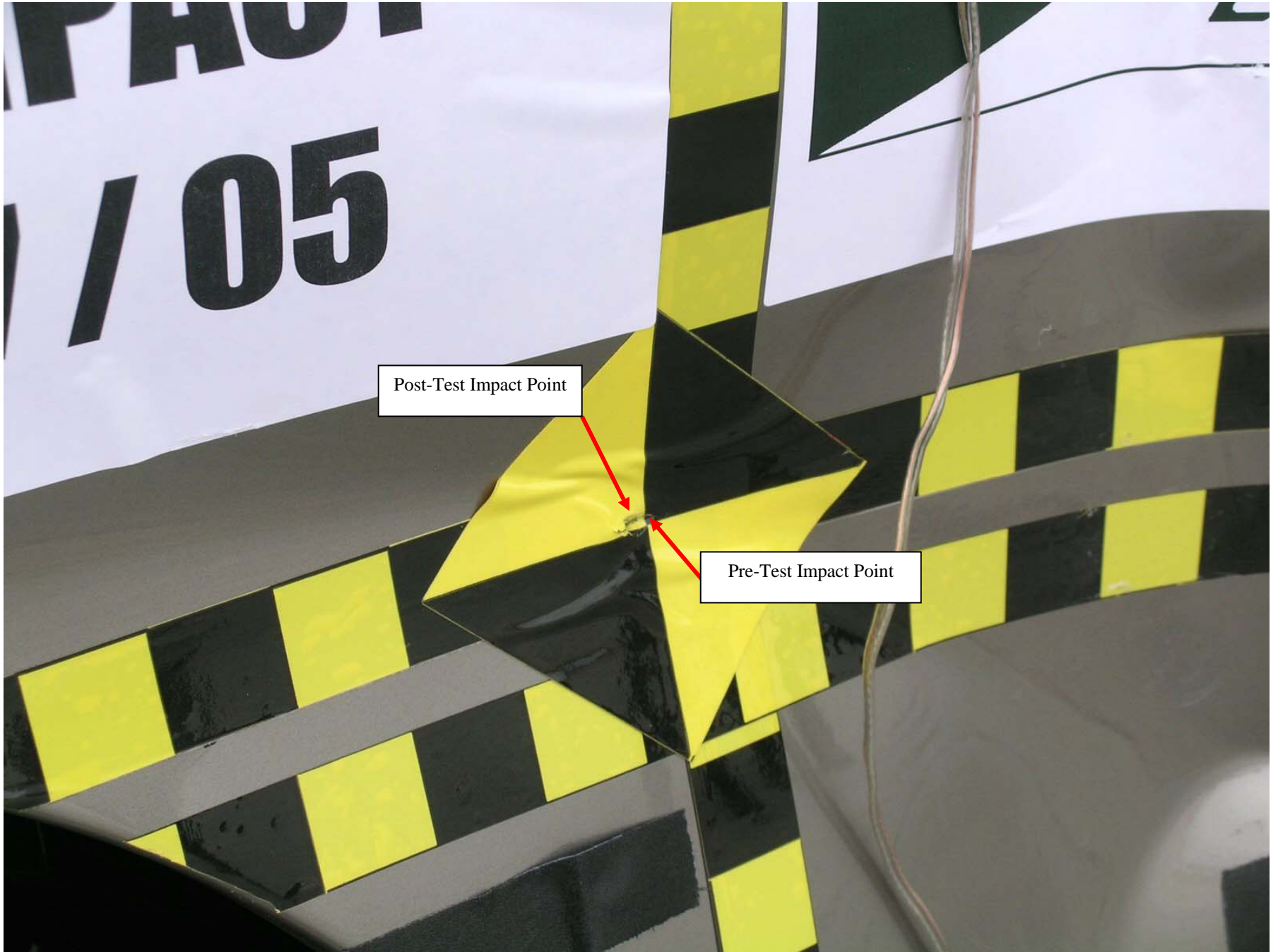


Figure A-26: Post-Test Impact Point



Figure A-27: Pre-Test Front ¾ View of Left Side Doors



A-28

TR-P25003-05-NC

Figure A-28: Post-Test Front ¾ View of Left Side Doors



Figure A-29: Pre-Test Rear ¾ View of Left Side Doors



Figure A-30: Post-Test Rear $\frac{3}{4}$ View of Left Side Doors



Figure A-31: Pre-Test Left Front Door



Figure A-32: Post-Test Left Front Door



Figure A-33: Pre-Test Left Rear Door



Figure A-34: Post-Test Left Rear Door



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



Figure A-36: Pre-Test Driver Dummy (Through Window)



Figure A-37: Post-Test Driver Dummy (Through Window)



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



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



Figure A-40: Pre-Test Driver Dummy Right Side View



Figure A-41: Post-Test Driver Dummy Right Side View



Figure A-42: Pre-Test Front Door Panel (Interior)



Figure A-43: Post-Test Front Door Panel (Interior)



Figure A-44: Pre-Test Passenger Dummy Left Side (Door Open)



Figure A-45: Pre-Test Passenger Dummy (Through Window)



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



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

177 00
NISSAN
(5dr MPV)
ARCO
Engineering



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



Figure A-49: Pre-Test Passenger Dummy Right Side View



Figure A-50: Post-Test Passenger Dummy Right Side View



A-51

TR-P25003-05-NC

Figure A-51: Pre-Test Rear Door Panel (Interior)



Figure A-52: Post-Test Rear Door Panel (Interior)



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



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

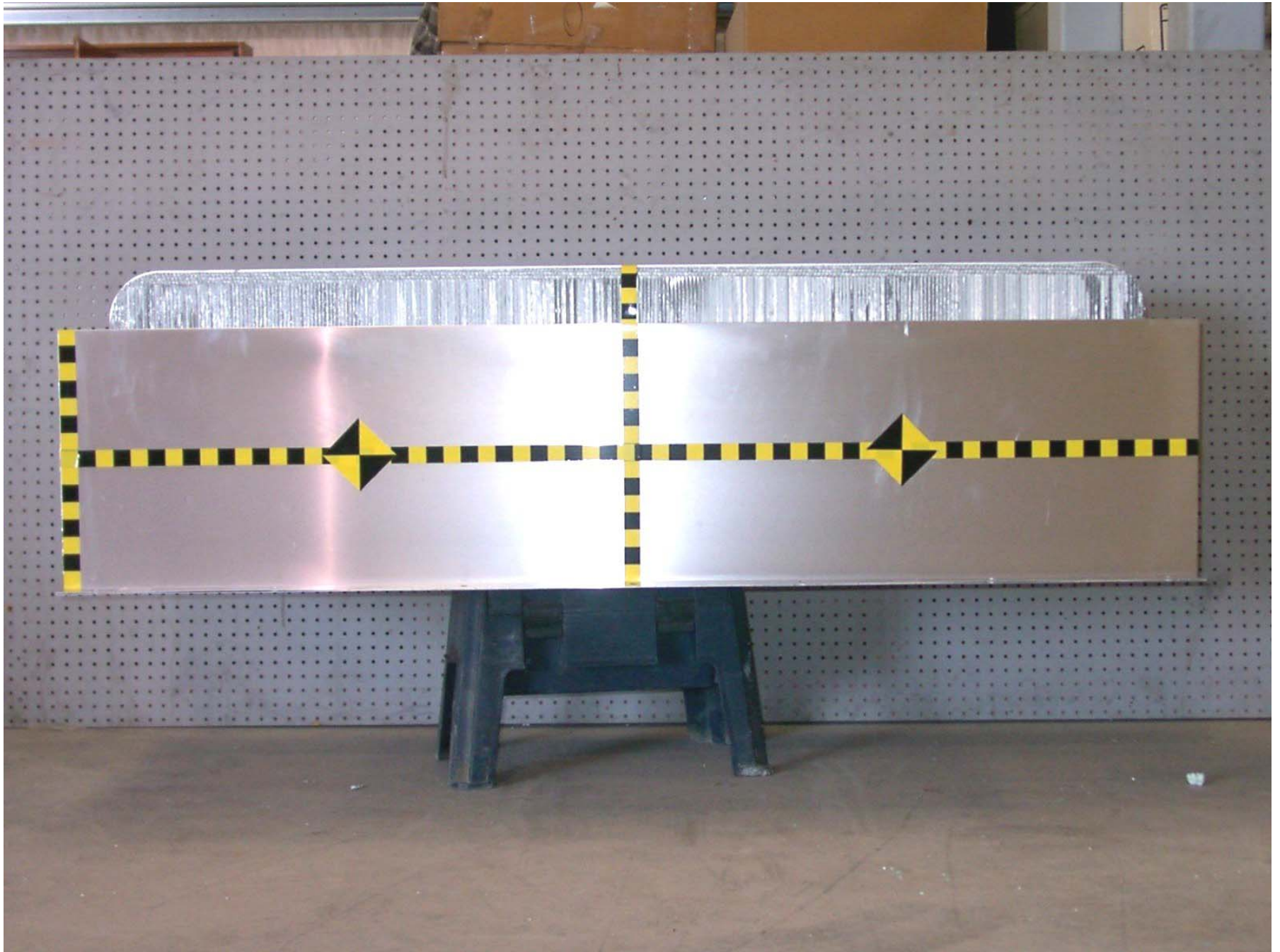


Figure A-55: Pre-Test Top View of Deformable Barrier



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



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



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

A-59

TR-P25003-05-NC



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



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



A-61

TR-P25003-05-NC

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



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



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

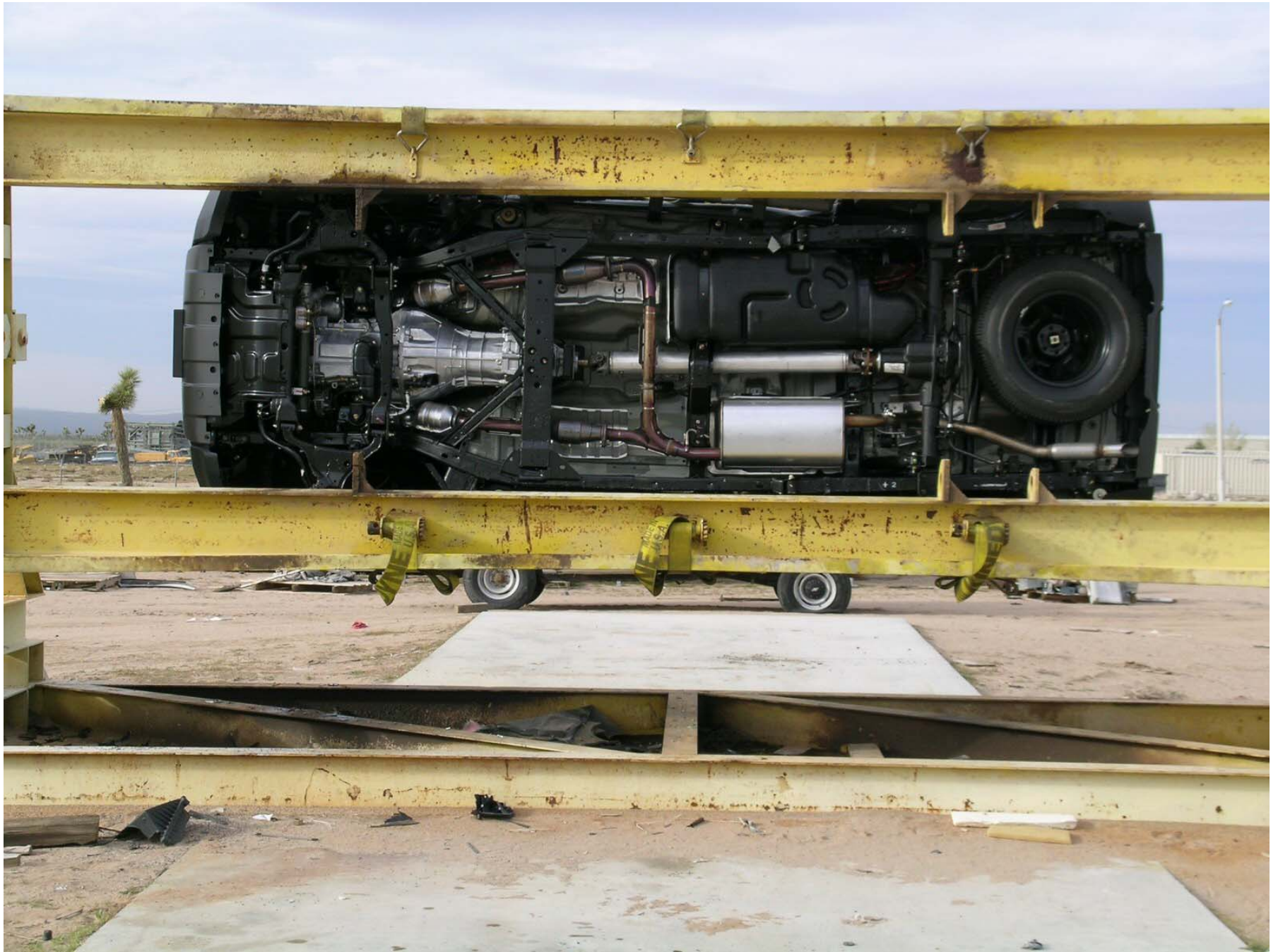


Figure A-64: Vehicle on Rollover Device (270°)

A-64

TR-P25003-05-NC



Figure A-65: Vehicle Impact



Figure A-66: Post-Test Driver Door Overhead View

APPENDIX B
SID/HIII, VEHICLE AND MDB RESPONSE DATA

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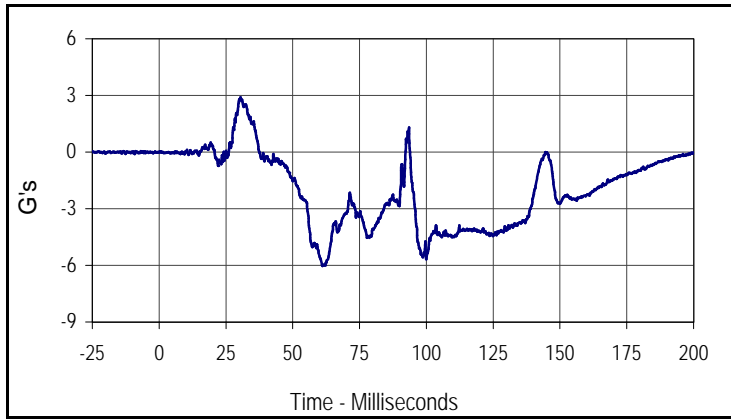
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| | Driver Lower Spine Primary Y | B-38 |
| | Driver Pelvis Primary Y | B-38 |

LIST OF DATA PLOTS...(CONTINUED)

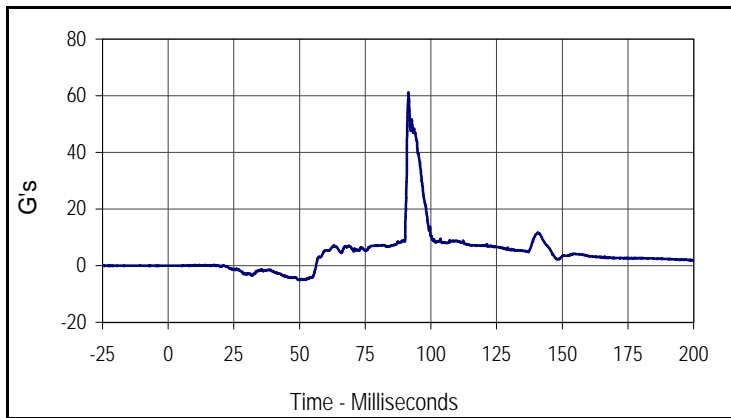
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| | Passenger Lower Rib Primary Y | B-40 |
| | Passenger Lower Spine Primary Y | B-40 |
| | Passenger Pelvis Primary Y | B-40 |
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| B-42 | MDB CG X | B-42 |
| | MDB CG Y | B-42 |
| | MDB CG Z | B-42 |
| | MDB CG Resultant | B-42 |
| B-43 | MDB CG X Velocity | B-43 |
| | MDB CG Y Velocity | B-43 |
| | MDB CG Z Velocity | B-43 |
| B-44 | MDB Rear X | B-44 |
| | MDB Rear Y | B-44 |
| | MDB Rear X Velocity | B-44 |
| | MDB Rear Y Velocity | B-44 |
| B-45 | MDB Right Bumper Contact | B-45 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

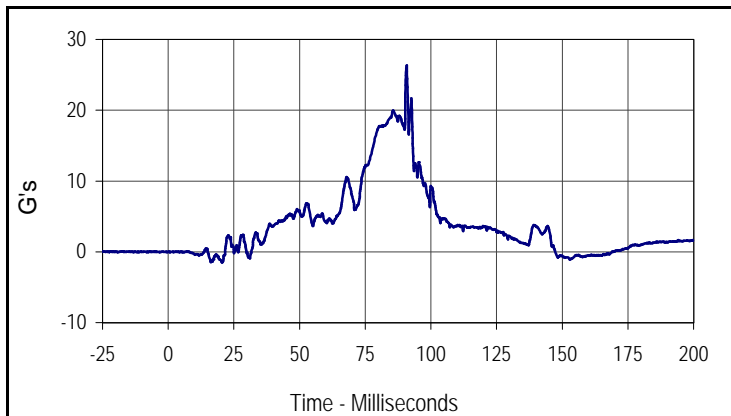
Test Date: 3/17/05
 NHTSA No.: M55209



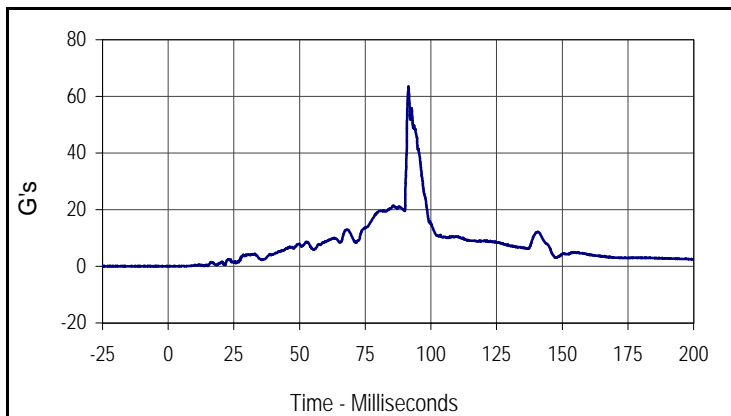
| Curve Description | | | |
|-----------------------|------|-----------|-------|
| Driver Head X Primary | | | |
| CURNO | Type | SAE Class | Units |
| 001 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 2.9 | 30.5 | -6.0 | 61.2 |



| Curve Description | | | |
|-----------------------|------|-----------|-------|
| Driver Head Y Primary | | | |
| CURNO | Type | SAE Class | Units |
| 002 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 61.2 | 91.5 | -5.1 | 49.9 |



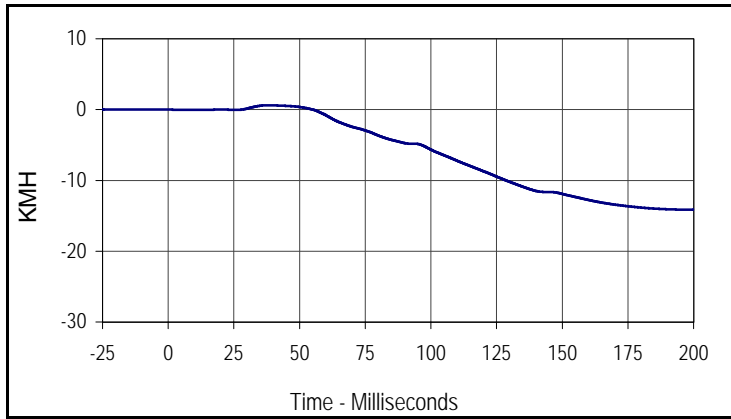
| Curve Description | | | |
|-----------------------|------|-----------|-------|
| Driver Head Z Primary | | | |
| CURNO | Type | SAE Class | Units |
| 003 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 26.3 | 90.8 | -1.5 | 20.4 |



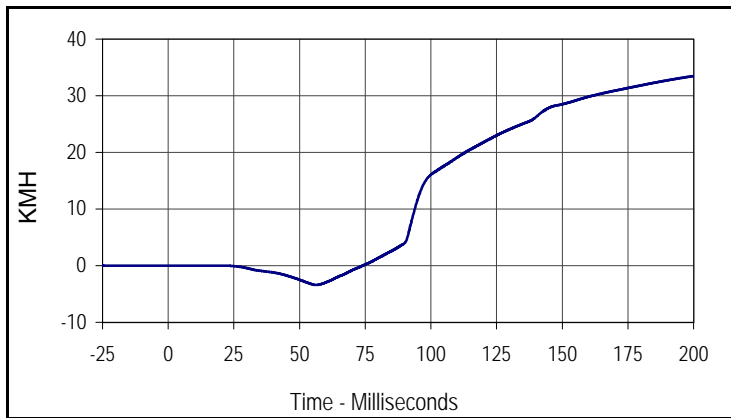
| Curve Description | | | |
|-------------------------------|------|-----------|-------|
| Driver Head Resultant Primary | | | |
| CURNO | Type | SAE Class | Units |
| 001 | RES | 1000 | G's |
| Max | Time | Min | Time |
| 63.5 | 91.5 | 0.0 | 3.3 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

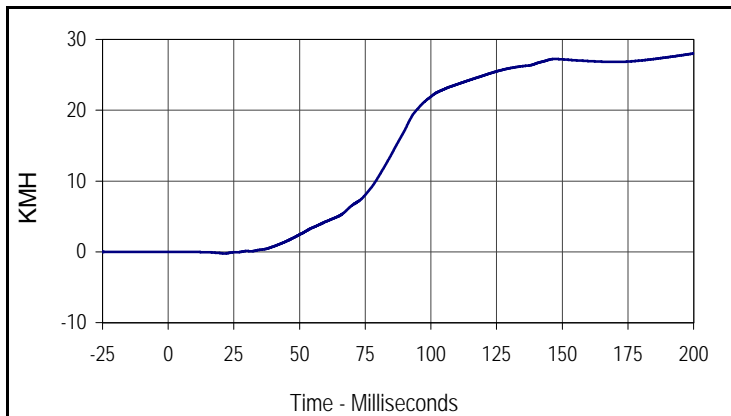
Test Date: 3/17/05
 NHTSA No.: M55209



| Curve Description | | | |
|--------------------------------|------|-----------|-------|
| Driver Head Primary X Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 001 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 0.6 | 37.6 | -14.1 | 200.0 |



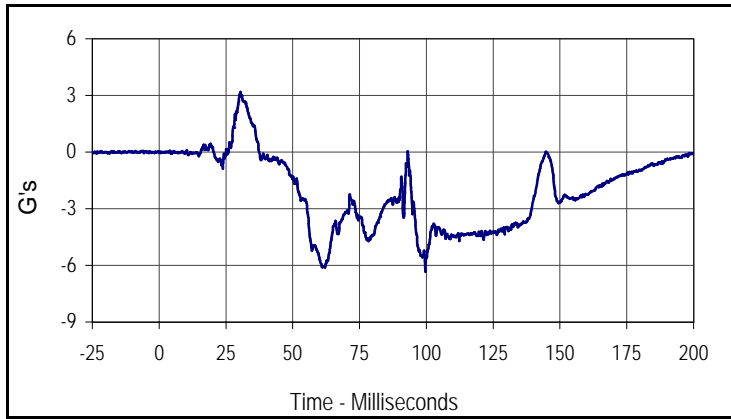
| Curve Description | | | |
|--------------------------------|-------|-----------|-------|
| Driver Head Primary Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 002 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 33.5 | 200.0 | -3.4 | 56.3 |



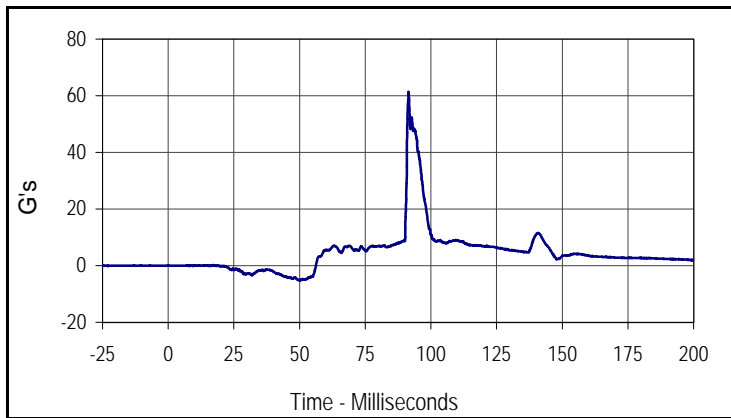
| Curve Description | | | |
|--------------------------------|-------|-----------|-------|
| Driver Head Primary Z Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 003 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 28.0 | 200.0 | -0.2 | 21.5 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

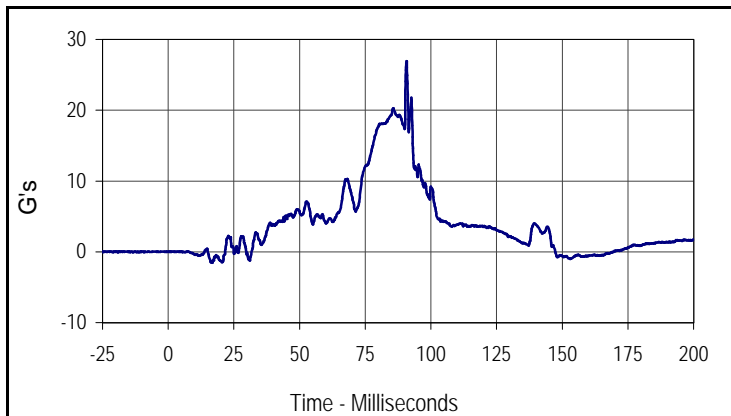
Test Date: 3/17/05
 NHTSA No.: M55209



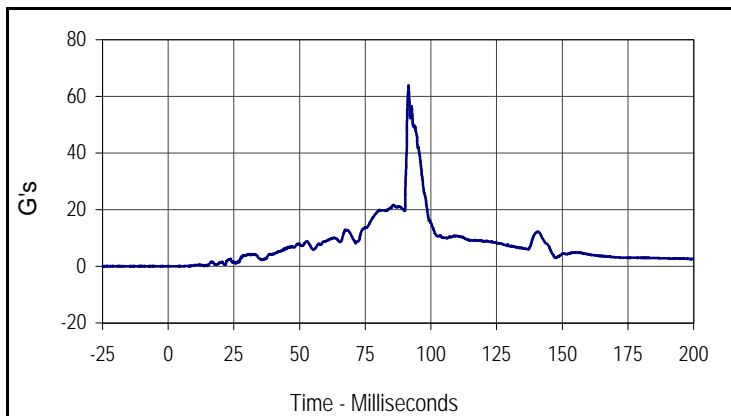
| Curve Description | | | |
|-------------------------|------|-----------|-------|
| Driver Head X Redundant | | | |
| CURNO | Type | SAE Class | Units |
| 004 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 3.2 | 30.5 | -6.3 | 99.6 |



| Curve Description | | | |
|-------------------------|------|-----------|-------|
| Driver Head Y Redundant | | | |
| CURNO | Type | SAE Class | Units |
| 005 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 61.4 | 91.5 | -5.2 | 50.1 |



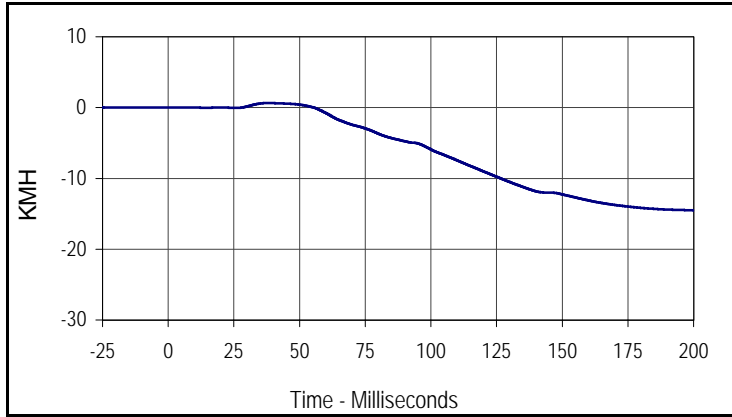
| Curve Description | | | |
|-------------------------|------|-----------|-------|
| Driver Head Z Redundant | | | |
| CURNO | Type | SAE Class | Units |
| 006 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 26.9 | 90.7 | -1.5 | 16.8 |



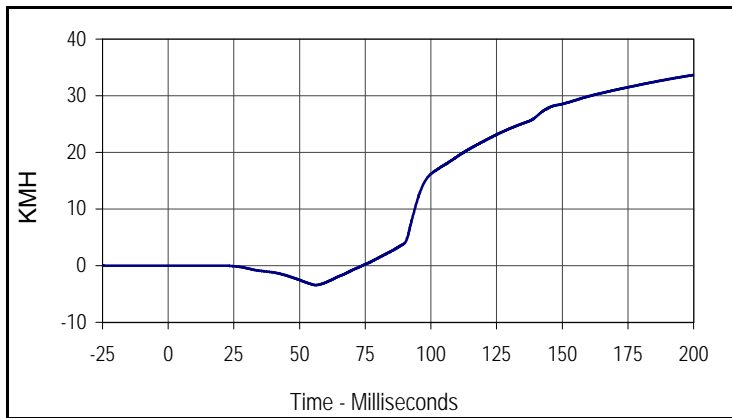
| Curve Description | | | |
|---------------------------------|------|-----------|-------|
| Driver Head Resultant Redundant | | | |
| CURNO | Type | SAE Class | Units |
| 004 | RES | 1000 | G's |
| Max | Time | Min | Time |
| 63.9 | 91.5 | 0.0 | 2.3 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

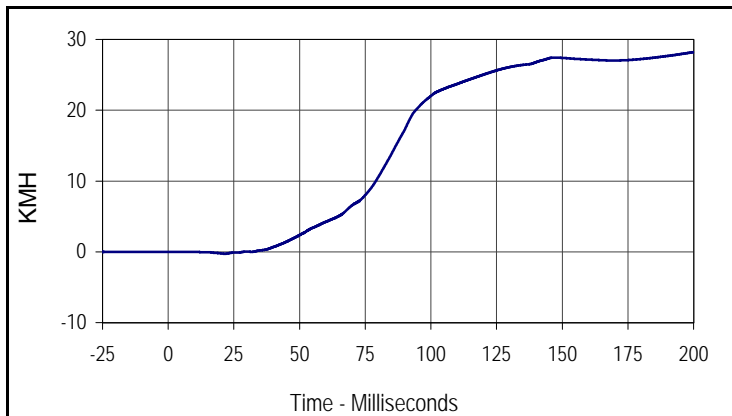
Test Date: 3/17/05
 NHTSA No.: M55209



| Curve Description | | | |
|----------------------------------|------|-----------|-------|
| Driver Head Redundant X Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 004 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 0.6 | 37.5 | -14.5 | 200.0 |



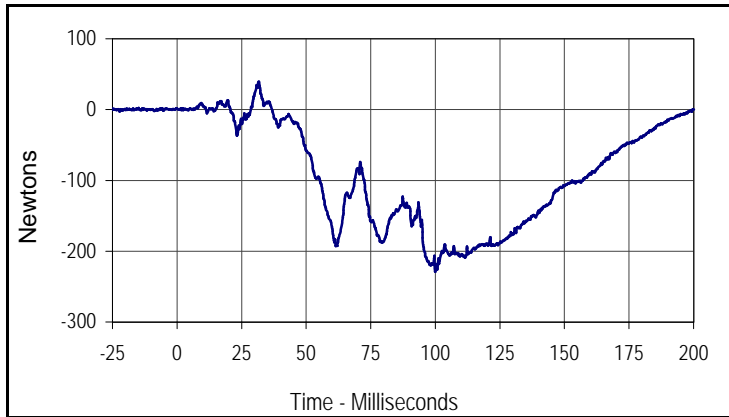
| Curve Description | | | |
|----------------------------------|-------|-----------|-------|
| Driver Head Redundant Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 005 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 33.7 | 200.0 | -3.4 | 56.2 |



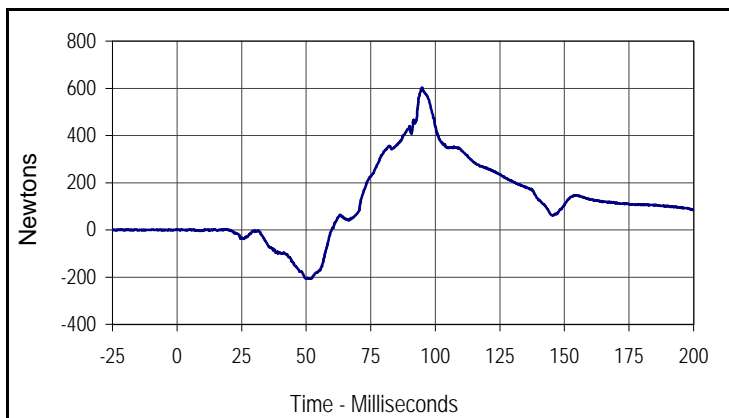
| Curve Description | | | |
|----------------------------------|-------|-----------|-------|
| Driver Head Redundant Z Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 006 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 28.2 | 200.0 | -0.3 | 21.6 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

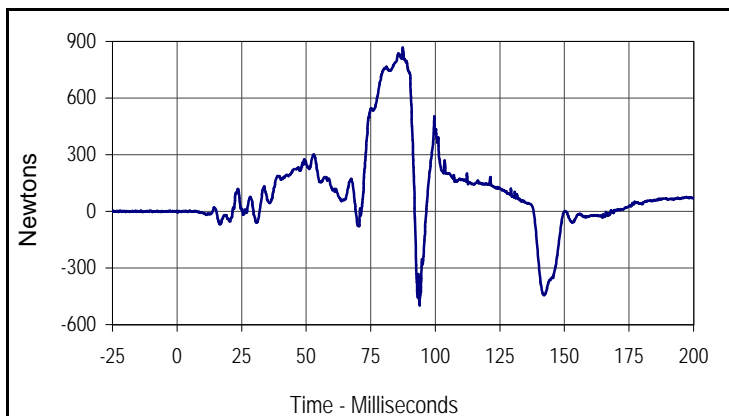
Test Date: 3/17/05
 NHTSA No.: M55209



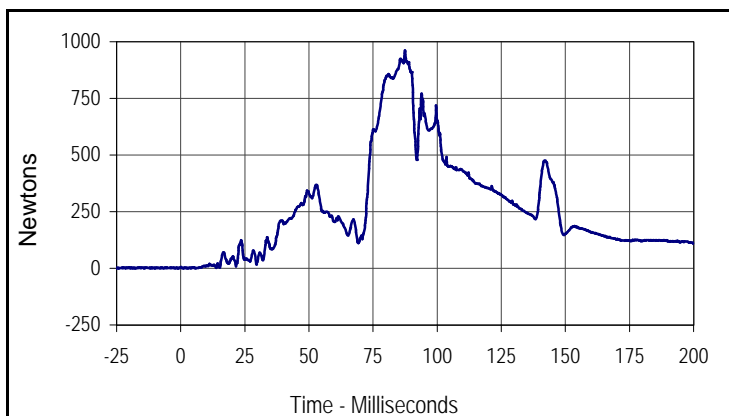
| Curve Description | | | |
|---------------------------|------|-----------|---------|
| Driver Upper Neck Force X | | | |
| CURNO | Type | SAE Class | Units |
| 007 | FIL | 1000 | Newtons |
| Max | Time | Min | Time |
| 39.6 | 31.6 | -229.0 | 100.0 |



| Curve Description | | | |
|---------------------------|------|-----------|---------|
| Driver Upper Neck Force Y | | | |
| CURNO | Type | SAE Class | Units |
| 008 | FIL | 1000 | Newtons |
| Max | Time | Min | Time |
| 602.1 | 94.8 | -207.2 | 50.0 |



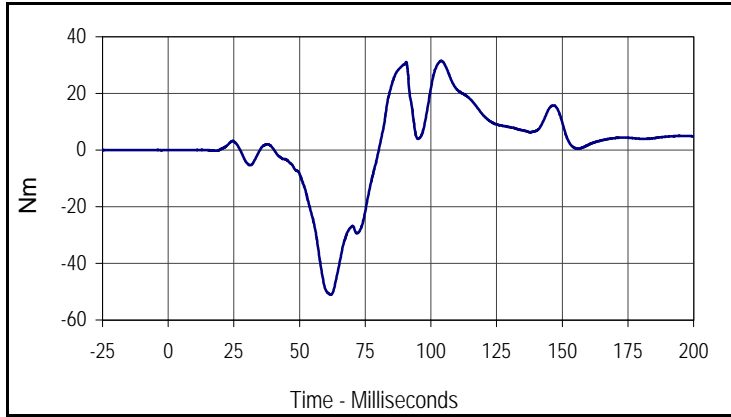
| Curve Description | | | |
|---------------------------|------|-----------|---------|
| Driver Upper Neck Force Z | | | |
| CURNO | Type | SAE Class | Units |
| 009 | FIL | 1000 | Newtons |
| Max | Time | Min | Time |
| 867.1 | 87.4 | -497.6 | 93.9 |



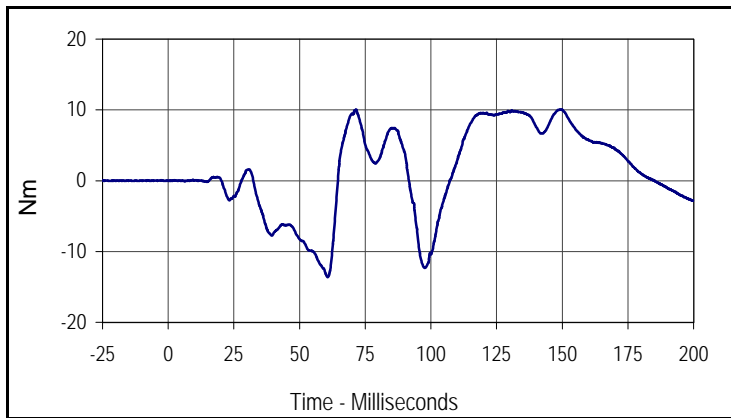
| Curve Description | | | |
|-----------------------------------|------|-----------|---------|
| Driver Upper Neck Force Resultant | | | |
| CURNO | Type | SAE Class | Units |
| 007 | RES | 1000 | Newtons |
| Max | Time | Min | Time |
| 962.4 | 87.4 | 0.5 | 3.9 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

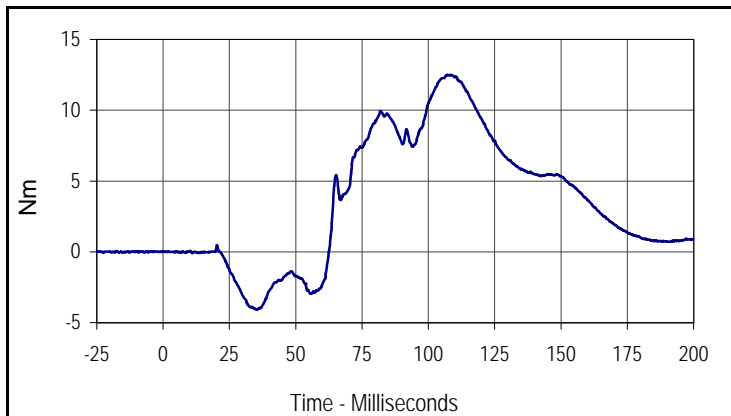
Test Date: 3/17/05
 NHTSA No.: M55209



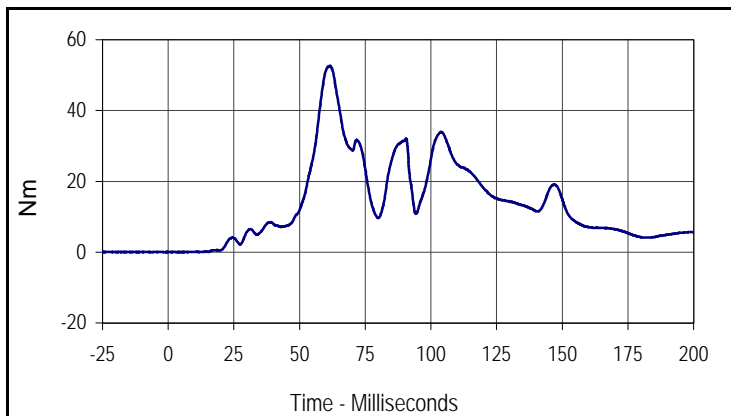
| Curve Description | | | |
|----------------------------|-------|-----------|-------|
| Driver Upper Neck Moment X | | | |
| CURNO | Type | SAE Class | Units |
| 010 | FIL | 600 | Nm |
| Max | Time | Min | Time |
| 31.5 | 103.9 | -51.1 | 61.7 |



| Curve Description | | | |
|----------------------------|-------|-----------|-------|
| Driver Upper Neck Moment Y | | | |
| CURNO | Type | SAE Class | Units |
| 011 | FIL | 600 | Nm |
| Max | Time | Min | Time |
| 10.1 | 149.5 | -13.6 | 60.7 |



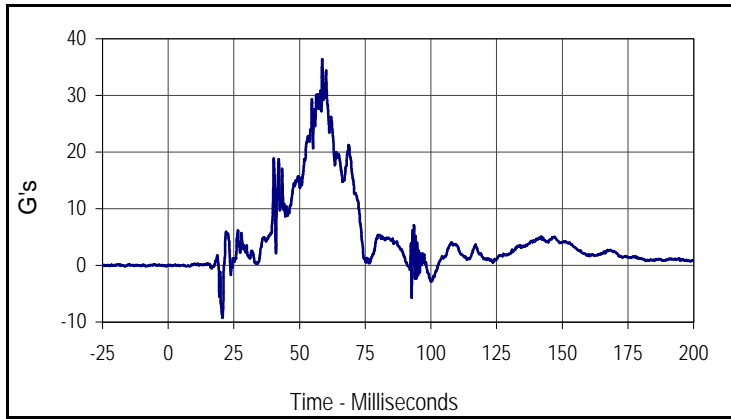
| Curve Description | | | |
|----------------------------|-------|-----------|-------|
| Driver Upper Neck Moment Z | | | |
| CURNO | Type | SAE Class | Units |
| 012 | FIL | 600 | Nm |
| Max | Time | Min | Time |
| 12.5 | 108.5 | -4.1 | 35.5 |



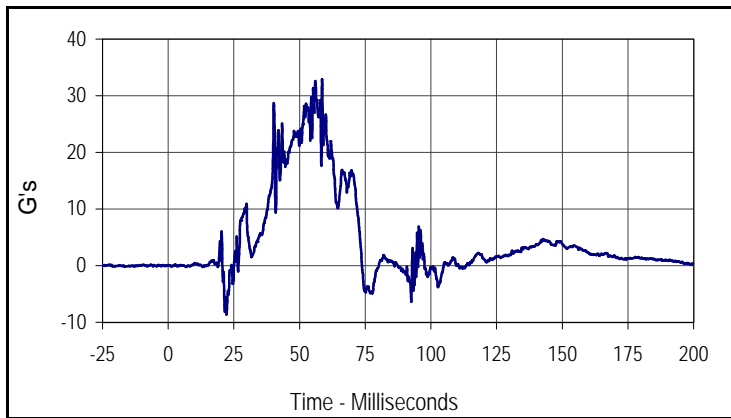
| Curve Description | | | |
|------------------------------------|------|-----------|-------|
| Driver Upper Neck Moment Resultant | | | |
| CURNO | Type | SAE Class | Units |
| 010 | RES | 600 | Nm |
| Max | Time | Min | Time |
| 52.7 | 61.6 | 0.0 | 4.6 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

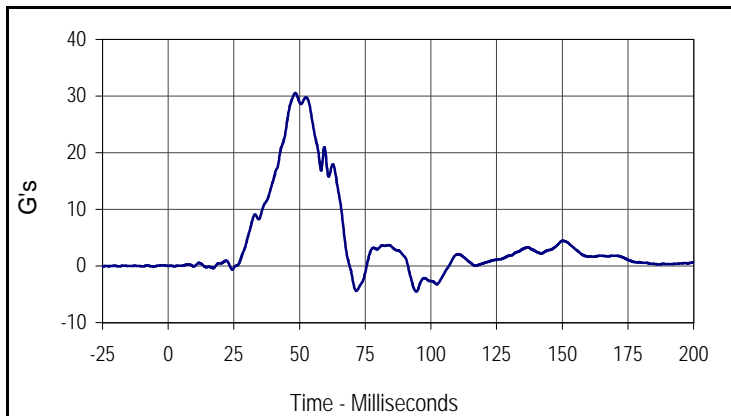
Test Date: 3/17/05
 NHTSA No.: M55209



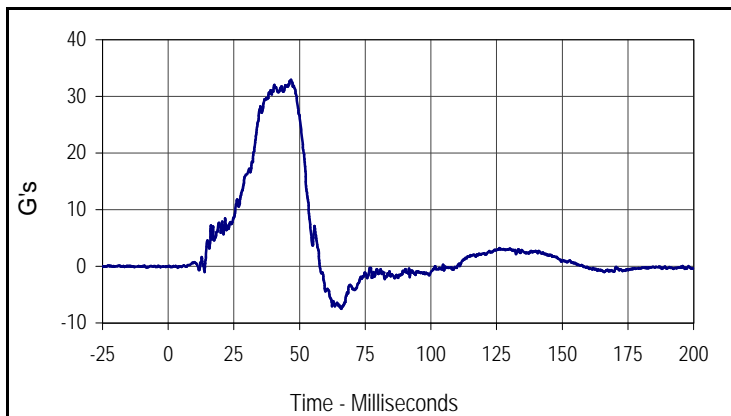
| Curve Description | | | |
|----------------------------|------|-----------|-------|
| Driver Upper Rib Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 013 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 36.4 | 58.7 | -9.3 | 20.7 |



| Curve Description | | | |
|----------------------------|------|-----------|-------|
| Driver Lower Rib Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 014 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 32.8 | 58.6 | -8.6 | 22.2 |



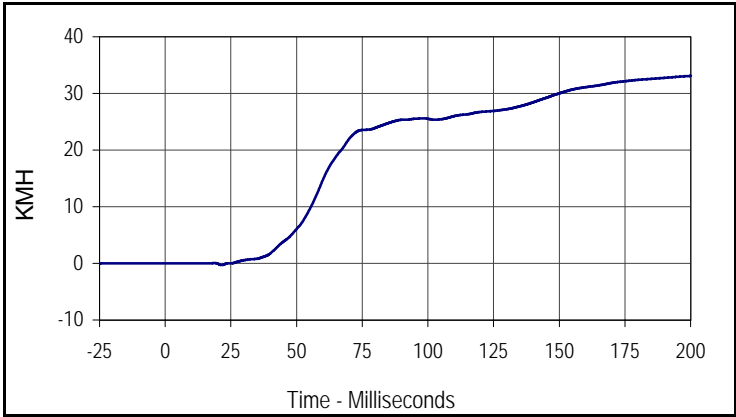
| Curve Description | | | |
|------------------------------|------|-----------|-------|
| Driver Lower Spine Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 015 | FIL | 180 | G's |
| Max | Time | Min | Time |
| 30.6 | 48.4 | -4.5 | 94.5 |



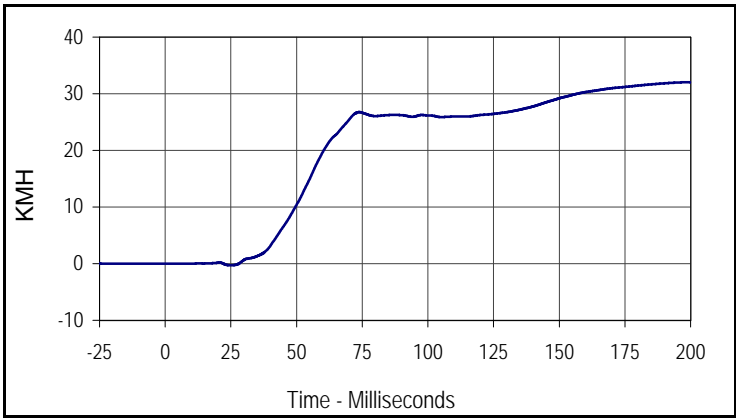
| Curve Description | | | |
|-------------------------|------|-----------|-------|
| Driver Pelvis Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 016 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 32.9 | 46.7 | -7.5 | 65.9 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

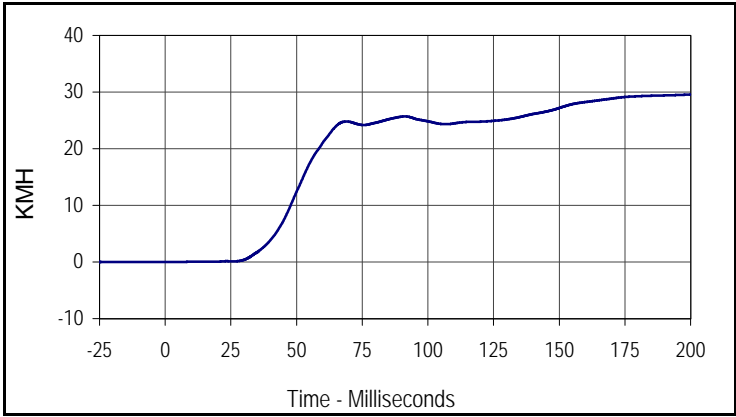
Test Date: 3/17/05
 NHTSA No.: M55209



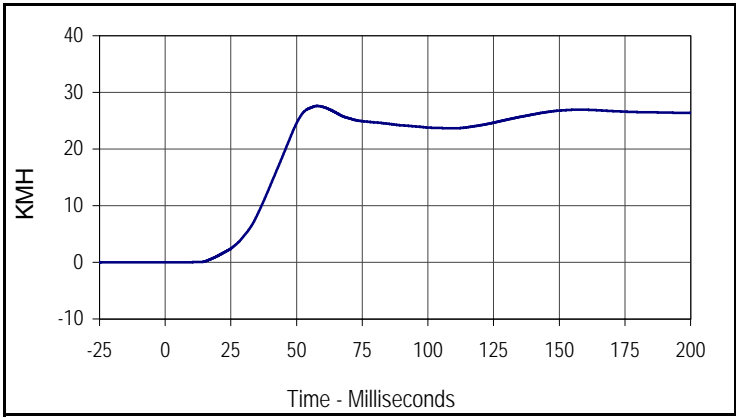
| Curve Description | | | |
|-------------------------------------|-------|-----------|-------|
| Driver Upper Rib Primary Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 013 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 33.1 | 200.0 | -0.3 | 21.4 |



| Curve Description | | | |
|-------------------------------------|-------|-----------|-------|
| Driver Lower Rib Primary Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 014 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 32.0 | 200.0 | -0.3 | 25.1 |



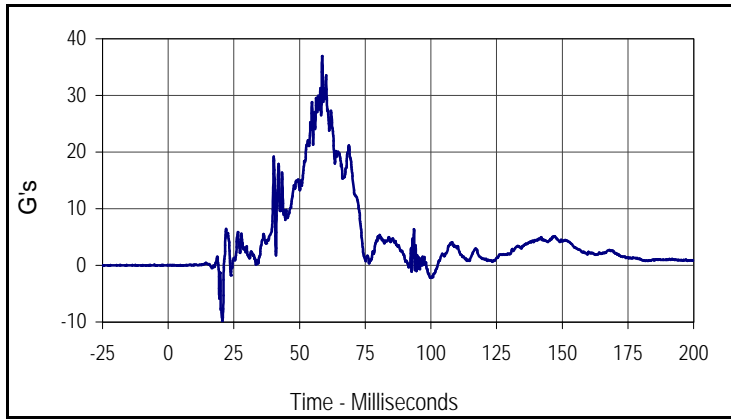
| Curve Description | | | |
|---------------------------------------|-------|-----------|-------|
| Driver Lower Spine Primary Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 015 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 29.6 | 200.0 | 0.0 | 3.1 |



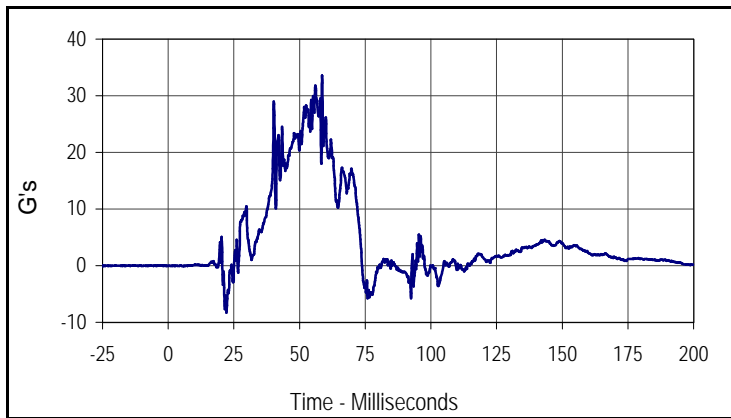
| Curve Description | | | |
|----------------------------------|------|-----------|-------|
| Driver Pelvis Primary Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 016 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 27.6 | 57.9 | 0.0 | 5.3 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

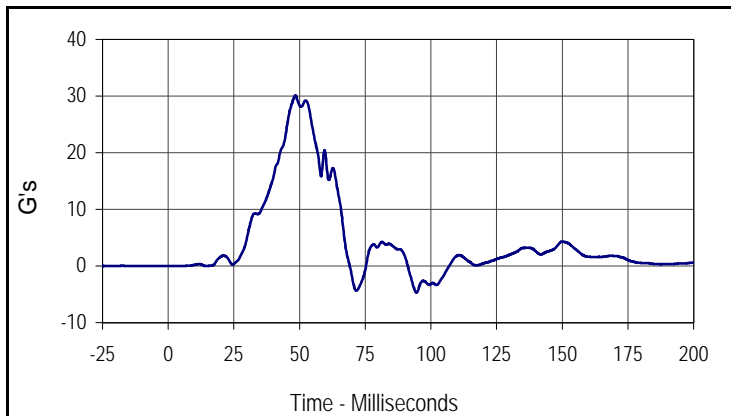
Test Date: 3/17/05
 NHTSA No.: M55209



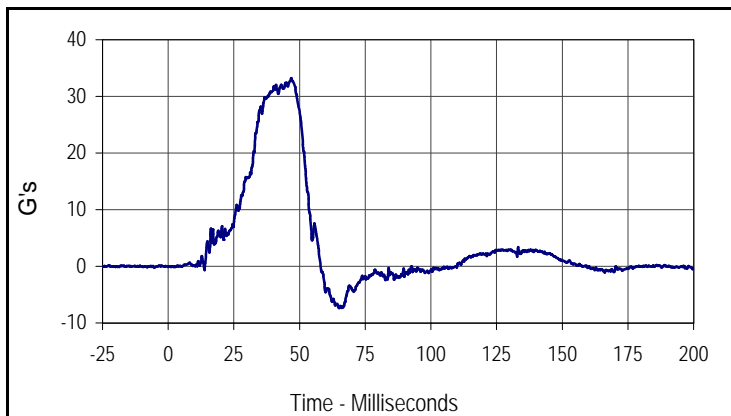
| Curve Description | | | |
|------------------------------|------|-----------|-------|
| Driver Upper Rib Redundant Y | | | |
| CURNO | Type | SAE Class | Units |
| 017 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 36.9 | 58.7 | -10.3 | 20.6 |



| Curve Description | | | |
|------------------------------|------|-----------|-------|
| Driver Lower Rib Redundant Y | | | |
| CURNO | Type | SAE Class | Units |
| 018 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 33.5 | 58.6 | -8.3 | 22.2 |



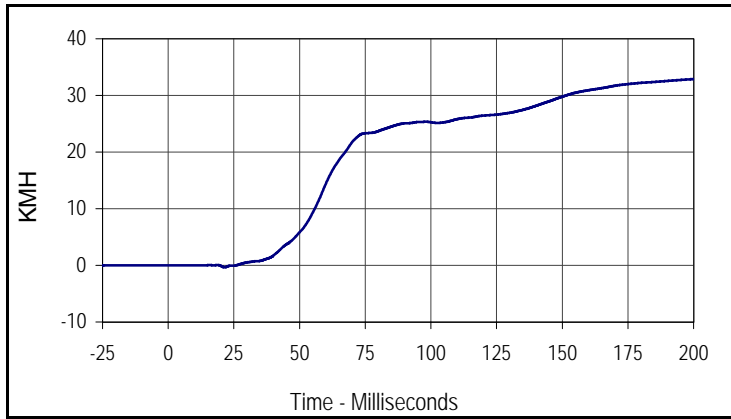
| Curve Description | | | |
|--------------------------------|------|-----------|-------|
| Driver Lower Spine Redundant Y | | | |
| CURNO | Type | SAE Class | Units |
| 019 | FIL | 180 | G's |
| Max | Time | Min | Time |
| 30.1 | 48.4 | -4.7 | 94.5 |



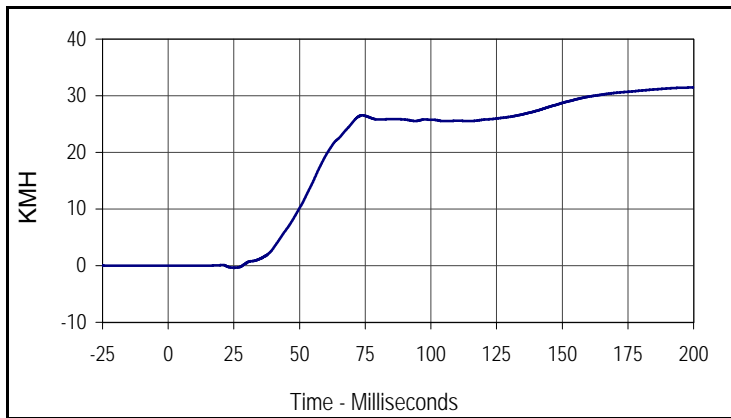
| Curve Description | | | |
|---------------------------|------|-----------|-------|
| Driver Pelvis Redundant Y | | | |
| CURNO | Type | SAE Class | Units |
| 020 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 33.2 | 46.9 | -7.4 | 65.1 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

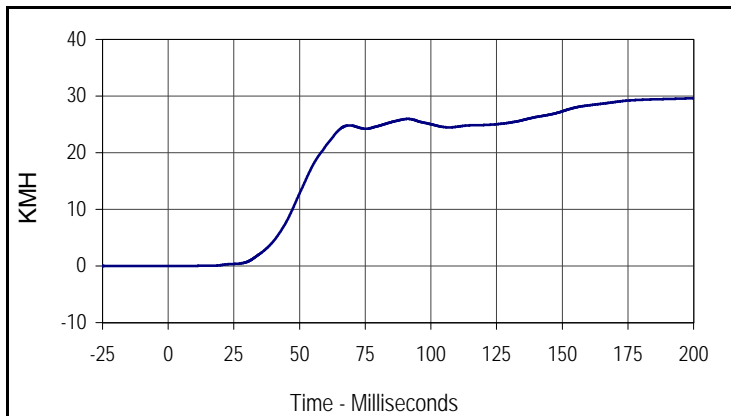
Test Date: 3/17/05
 NHTSA No.: M55209



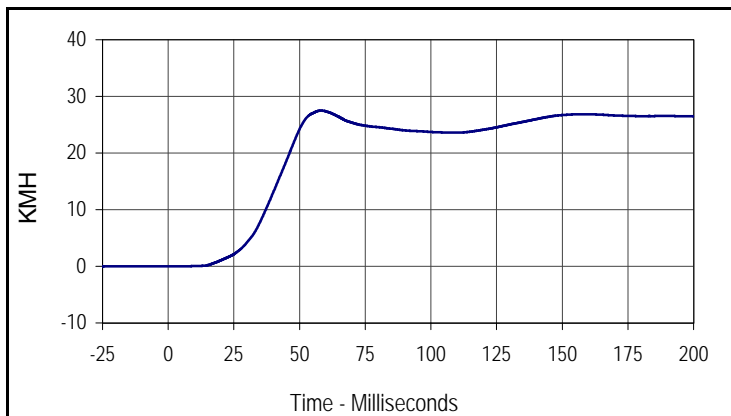
| Curve Description | | | |
|---------------------------------------|-------|-----------|-------|
| Driver Upper Rib Redundant Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 017 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 32.9 | 200.0 | -0.4 | 21.4 |



| Curve Description | | | |
|---------------------------------------|-------|-----------|-------|
| Driver Lower Rib Redundant Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 018 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 31.5 | 200.0 | -0.4 | 25.1 |



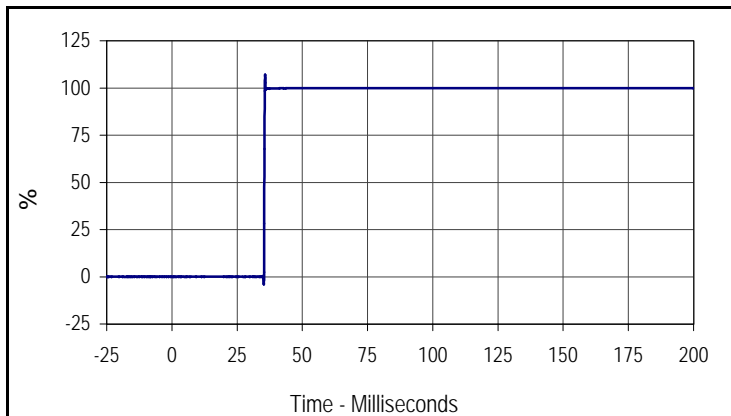
| Curve Description | | | |
|---|-------|-----------|-------|
| Driver Lower Spine Redundant Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 019 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 29.6 | 200.0 | 0.0 | 0.0 |



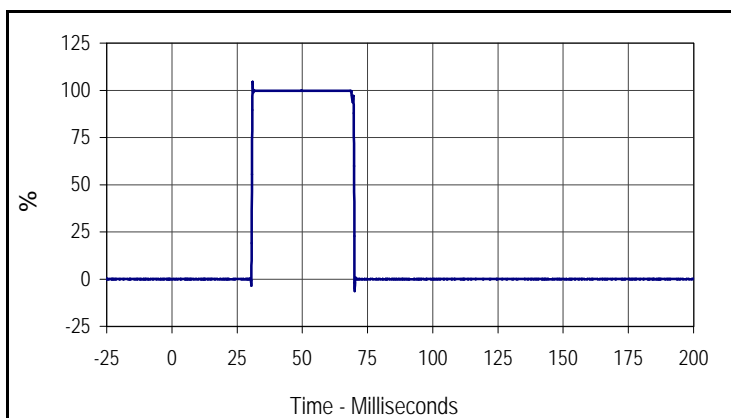
| Curve Description | | | |
|------------------------------------|------|-----------|-------|
| Driver Pelvis Redundant Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 020 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 27.5 | 58.1 | 0.0 | 3.4 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

Test Date: 3/17/05
 NHTSA No.: M55209



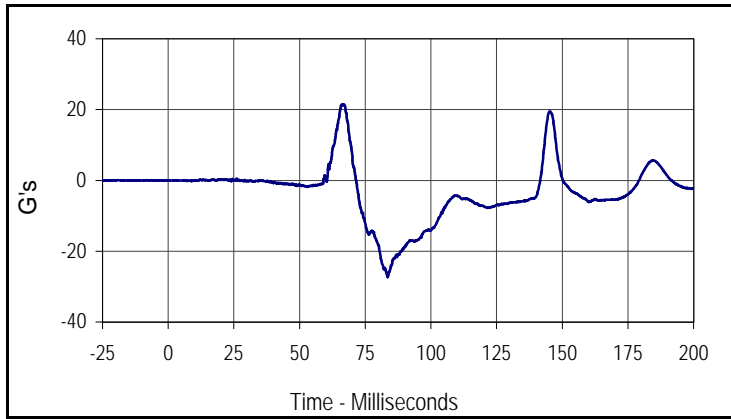
| Curve Description | | | |
|-----------------------|------|-----------|-------|
| Driver Thorax Contact | | | |
| CURNO | Type | SAE Class | Units |
| 021 | FIL | 1000 | % |
| Max | Time | Cross % | Time |
| 106.9 | 35.7 | 50.0 | 35.5 |



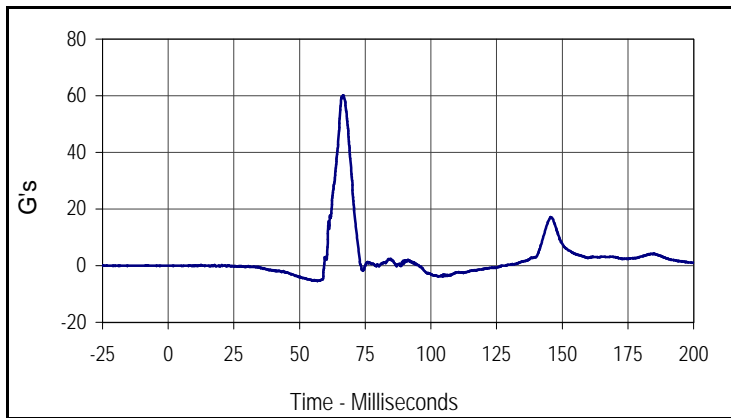
| Curve Description | | | |
|-----------------------|------|-----------|-------|
| Driver Pelvis Contact | | | |
| CURNO | Type | SAE Class | Units |
| 022 | FIL | 1000 | % |
| Max | Time | Cross % | Time |
| 104.4 | 30.9 | 50.0 | 30.7 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

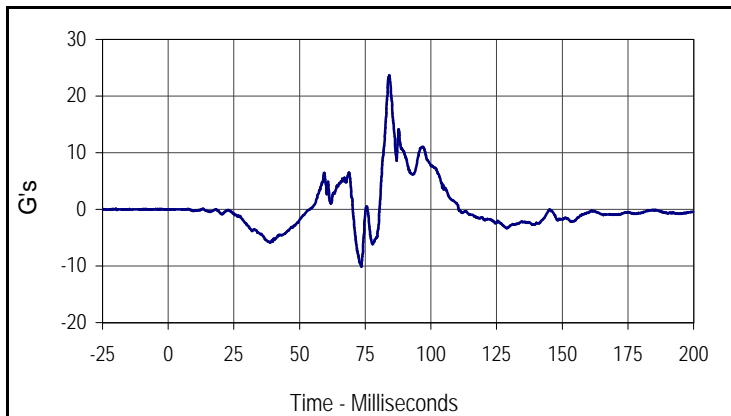
Test Date: 3/17/05
 NHTSA No.: M55209



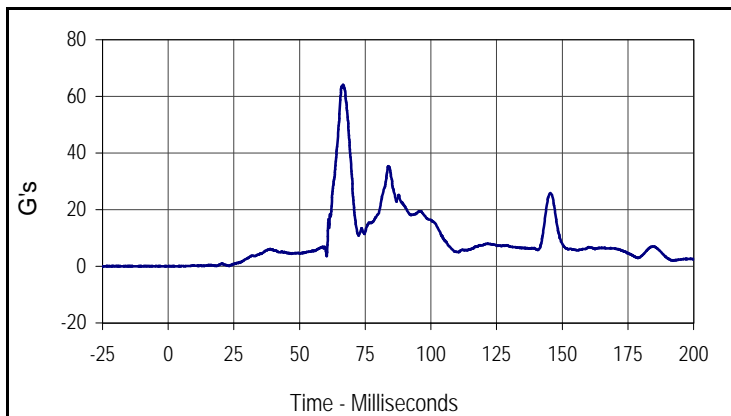
| Curve Description | | | |
|--------------------------|------|-----------|-------|
| Passenger Head X Primary | | | |
| CURNO | Type | SAE Class | Units |
| 023 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 21.5 | 66.5 | -27.4 | 83.6 |



| Curve Description | | | |
|--------------------------|------|-----------|-------|
| Passenger Head Y Primary | | | |
| CURNO | Type | SAE Class | Units |
| 024 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 60.1 | 66.6 | -5.4 | 56.8 |



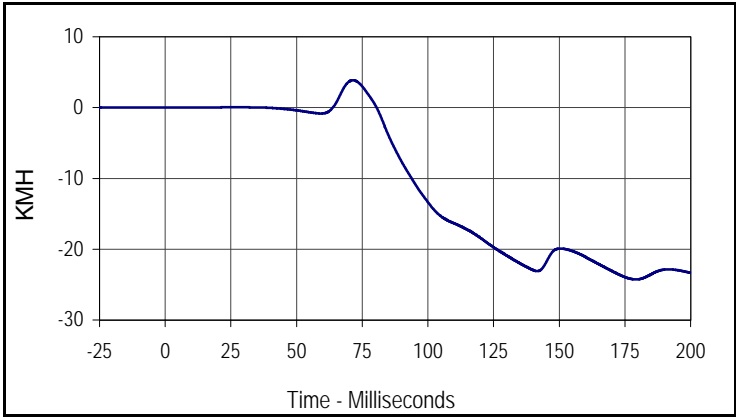
| Curve Description | | | |
|--------------------------|------|-----------|-------|
| Passenger Head Z Primary | | | |
| CURNO | Type | SAE Class | Units |
| 025 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 23.7 | 84.2 | -10.1 | 73.5 |



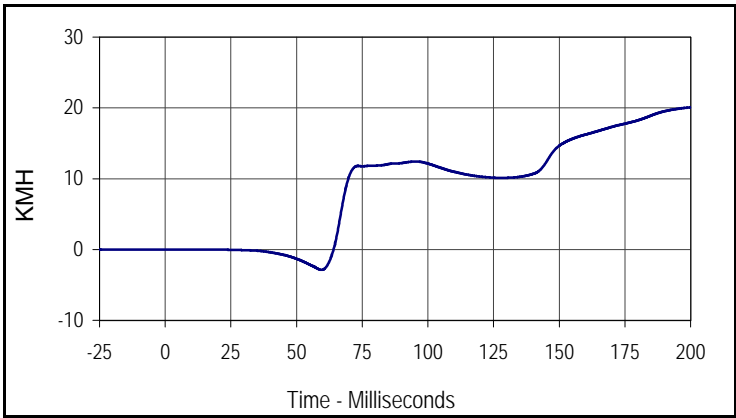
| Curve Description | | | |
|----------------------------------|------|-----------|-------|
| Passenger Head Resultant Primary | | | |
| CURNO | Type | SAE Class | Units |
| 023 | RES | 1000 | G's |
| Max | Time | Min | Time |
| 64.0 | 66.6 | 0.0 | 3.1 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

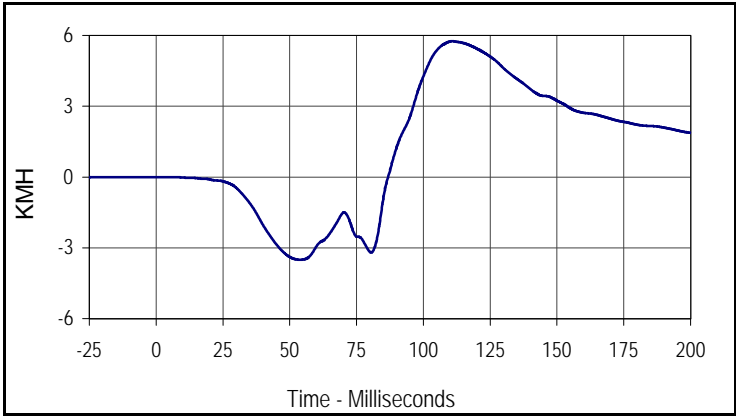
Test Date: 3/17/05
 NHTSA No.: M55209



| Curve Description | | | |
|-----------------------------------|------|-----------|-------|
| Passenger Head Primary X Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 023 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 3.9 | 71.5 | -24.3 | 179.2 |



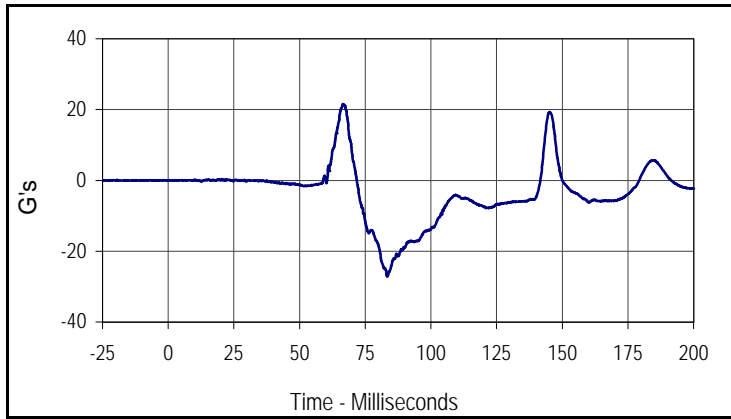
| Curve Description | | | |
|-----------------------------------|-------|-----------|-------|
| Passenger Head Primary Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 024 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 20.1 | 200.0 | -2.9 | 59.5 |



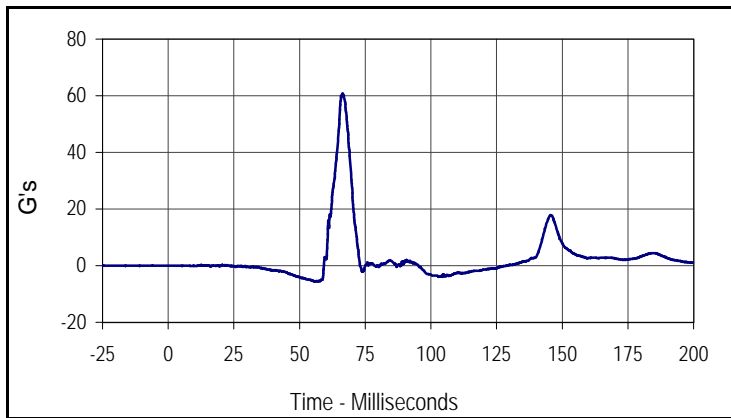
| Curve Description | | | |
|-----------------------------------|-------|-----------|-------|
| Passenger Head Primary Z Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 025 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 5.8 | 110.8 | -3.5 | 53.9 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

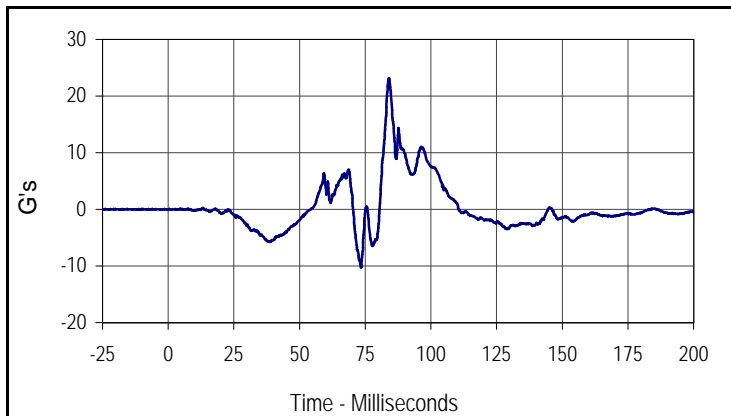
Test Date: 3/17/05
 NHTSA No.: M55209



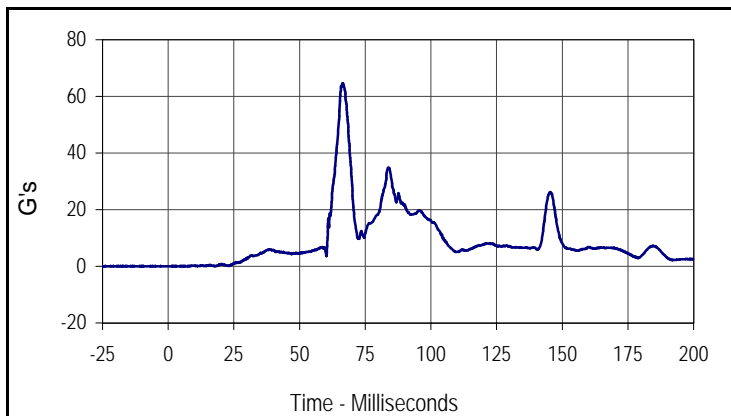
| Curve Description | | | |
|----------------------------|------|-----------|-------|
| Passenger Head X Redundant | | | |
| CURNO | Type | SAE Class | Units |
| 026 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 21.6 | 66.6 | -27.1 | 83.5 |



| Curve Description | | | |
|----------------------------|------|-----------|-------|
| Passenger Head Y Redundant | | | |
| CURNO | Type | SAE Class | Units |
| 027 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 60.7 | 66.4 | -5.7 | 56.0 |



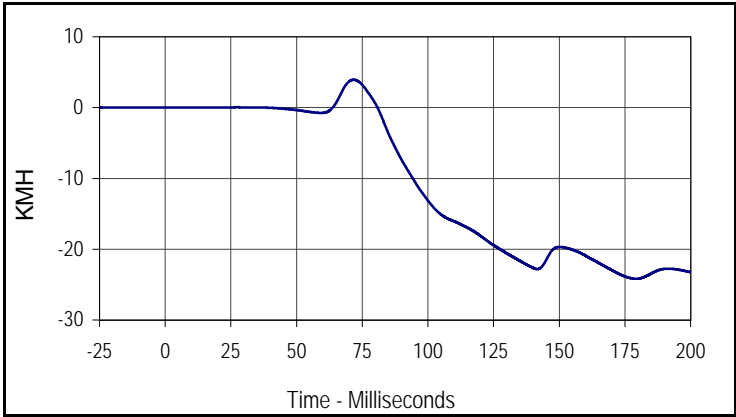
| Curve Description | | | |
|----------------------------|------|-----------|-------|
| Passenger Head Z Redundant | | | |
| CURNO | Type | SAE Class | Units |
| 028 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 23.1 | 84.0 | -10.3 | 73.4 |



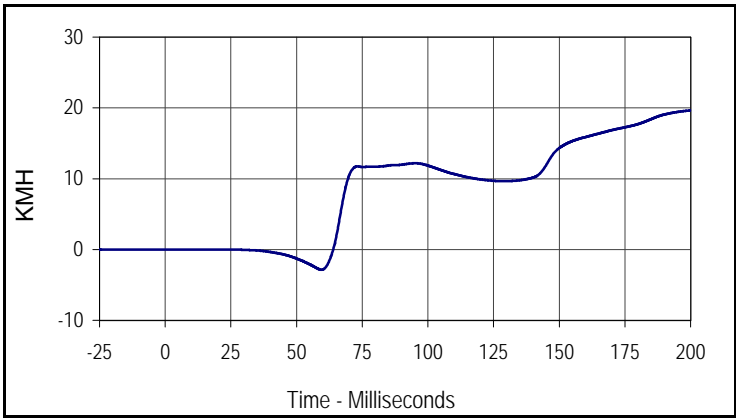
| Curve Description | | | |
|------------------------------------|------|-----------|-------|
| Passenger Head Resultant Redundant | | | |
| CURNO | Type | SAE Class | Units |
| 026 | RES | 1000 | G's |
| Max | Time | Min | Time |
| 64.7 | 66.5 | 0.0 | 2.4 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

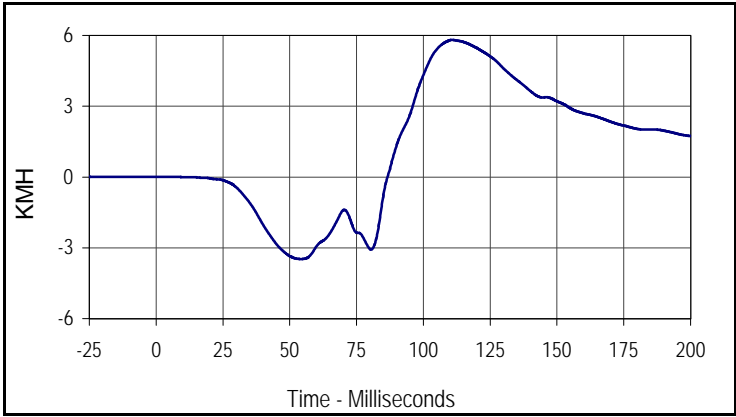
Test Date: 3/17/05
 NHTSA No.: M55209



| Curve Description | | | |
|-------------------------------------|------|-----------|-------|
| Passenger Head Redundant X Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 026 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 3.9 | 71.8 | -24.2 | 179.3 |



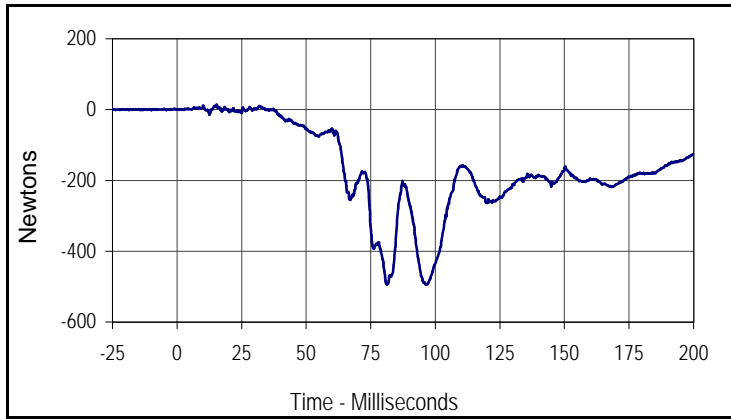
| Curve Description | | | |
|-------------------------------------|-------|-----------|-------|
| Passenger Head Redundant Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 027 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 19.6 | 200.0 | -2.9 | 59.4 |



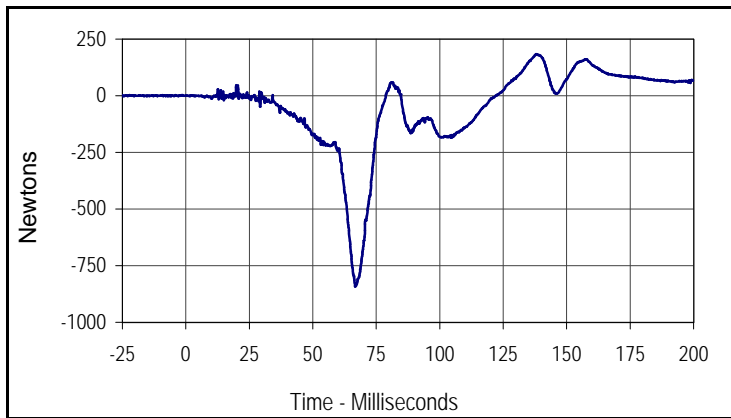
| Curve Description | | | |
|-------------------------------------|-------|-----------|-------|
| Passenger Head Redundant Z Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 028 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 5.8 | 110.7 | -3.5 | 54.2 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

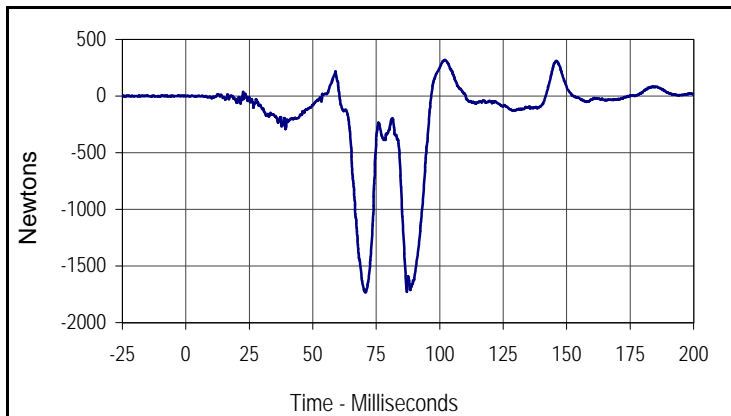
Test Date: 3/17/05
 NHTSA No.: M55209



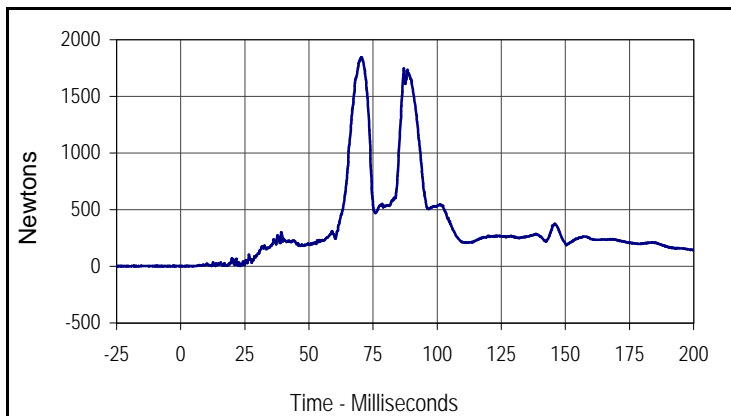
| Curve Description | | | |
|------------------------------|------|-----------|---------|
| Passenger Upper Neck Force X | | | |
| CURNO | Type | SAE Class | Units |
| 029 | FIL | 1000 | Newtons |
| Max | Time | Min | Time |
| 13.5 | 15.4 | -494.6 | 96.4 |



| Curve Description | | | |
|------------------------------|-------|-----------|---------|
| Passenger Upper Neck Force Y | | | |
| CURNO | Type | SAE Class | Units |
| 030 | FIL | 1000 | Newtons |
| Max | Time | Min | Time |
| 183.6 | 138.0 | -842.0 | 66.7 |



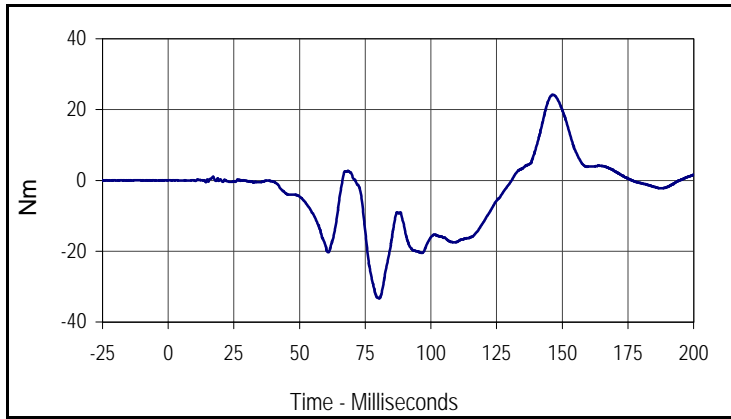
| Curve Description | | | |
|------------------------------|-------|-----------|---------|
| Passenger Upper Neck Force Z | | | |
| CURNO | Type | SAE Class | Units |
| 031 | FIL | 1000 | Newtons |
| Max | Time | Min | Time |
| 320.6 | 102.0 | -1734.1 | 70.8 |



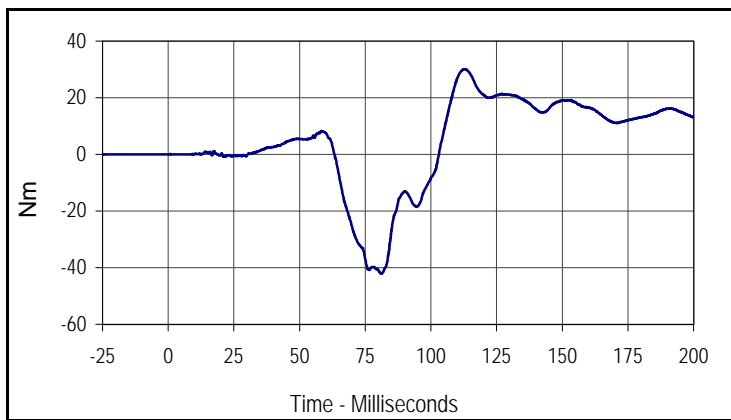
| Curve Description | | | |
|--------------------------------------|------|-----------|---------|
| Passenger Upper Neck Force Resultant | | | |
| CURNO | Type | SAE Class | Units |
| 029 | RES | 1000 | Newtons |
| Max | Time | Min | Time |
| 1845.6 | 70.4 | 0.3 | 0.4 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

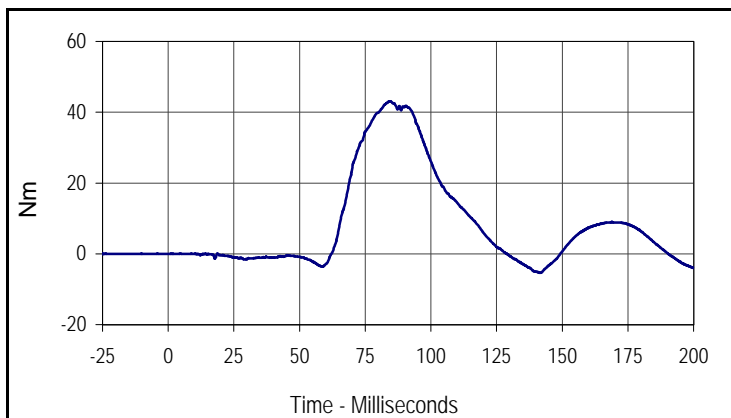
Test Date: 3/17/05
 NHTSA No.: M55209



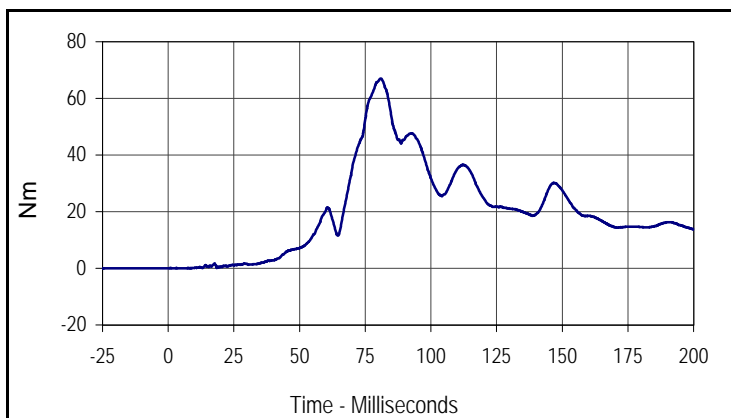
| Curve Description | | | |
|-------------------------------|-------|-----------|-------|
| Passenger Upper Neck Moment X | | | |
| CURNO | Type | SAE Class | Units |
| 032 | FIL | 600 | Nm |
| Max | Time | Min | Time |
| 24.2 | 146.5 | -33.3 | 80.4 |



| Curve Description | | | |
|-------------------------------|-------|-----------|-------|
| Passenger Upper Neck Moment Y | | | |
| CURNO | Type | SAE Class | Units |
| 033 | FIL | 600 | Nm |
| Max | Time | Min | Time |
| 30.1 | 112.7 | -42.1 | 81.2 |



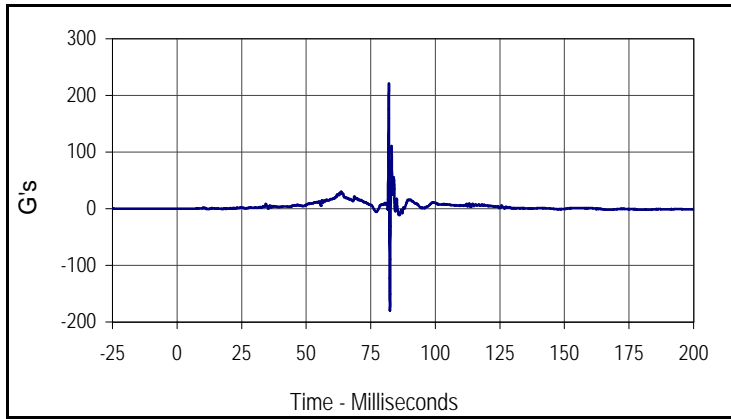
| Curve Description | | | |
|-------------------------------|------|-----------|-------|
| Passenger Upper Neck Moment Z | | | |
| CURNO | Type | SAE Class | Units |
| 034 | FIL | 600 | Nm |
| Max | Time | Min | Time |
| 43.1 | 84.3 | -5.4 | 141.6 |



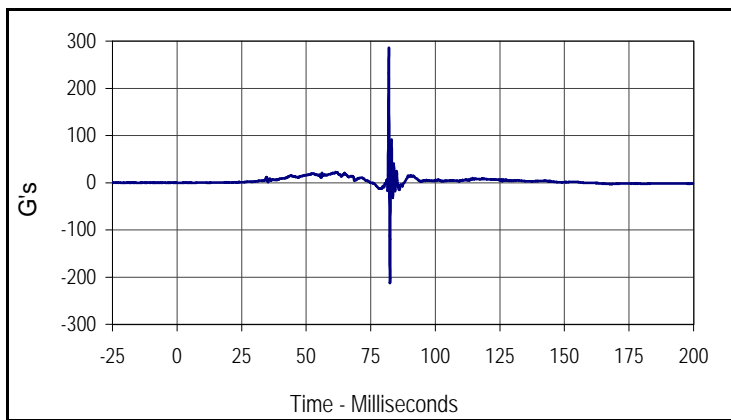
| Curve Description | | | |
|---------------------------------------|------|-----------|-------|
| Passenger Upper Neck Moment Resultant | | | |
| CURNO | Type | SAE Class | Units |
| 032 | RES | 600 | Nm |
| Max | Time | Min | Time |
| 67.1 | 80.9 | 0.0 | 2.6 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

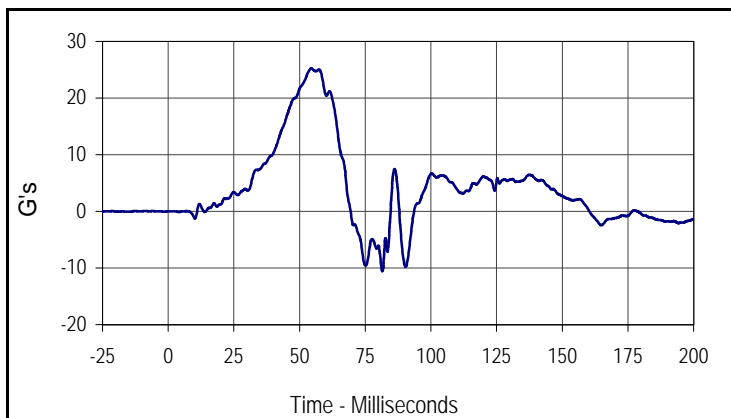
Test Date: 3/17/05
 NHTSA No.: M55209



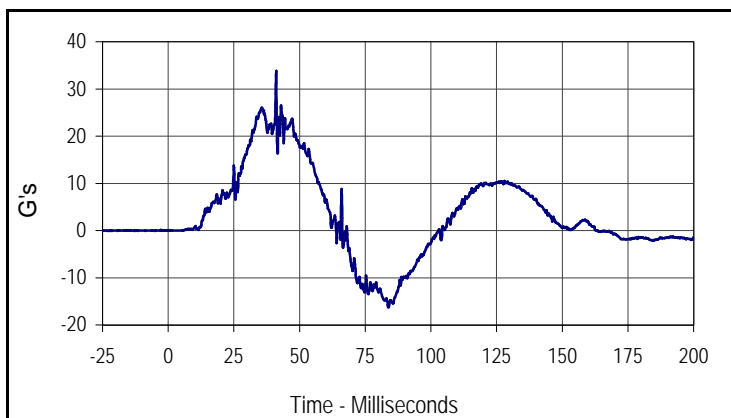
| Curve Description | | | |
|-------------------------------|------|-----------|-------|
| Passenger Upper Rib Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 035 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 220.8 | 82.0 | -179.1 | 82.4 |



| Curve Description | | | |
|-------------------------------|------|-----------|-------|
| Passenger Lower Rib Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 036 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 285.7 | 82.0 | -211.2 | 82.4 |



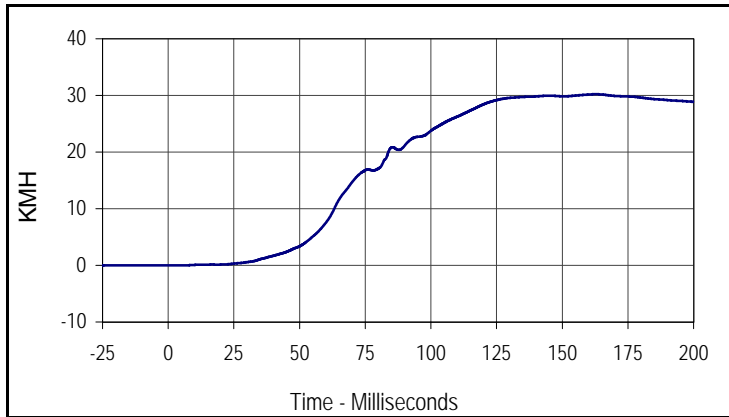
| Curve Description | | | |
|---------------------------------|------|-----------|-------|
| Passenger Lower Spine Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 037 | FIL | 180 | G's |
| Max | Time | Min | Time |
| 25.2 | 54.5 | -10.5 | 81.5 |



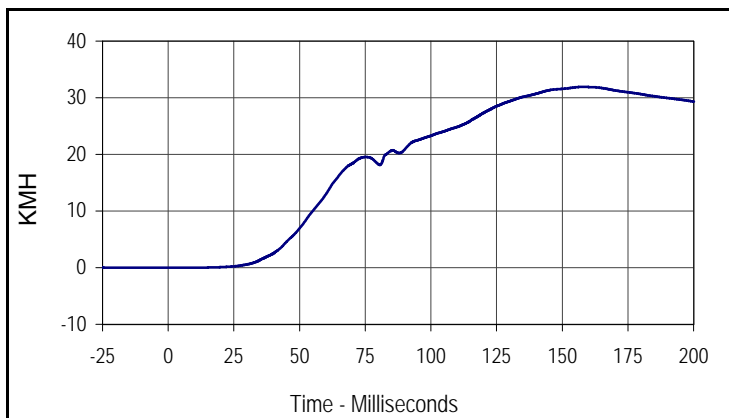
| Curve Description | | | |
|----------------------------|------|-----------|-------|
| Passenger Pelvis Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 038 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 33.8 | 41.1 | -16.3 | 83.8 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

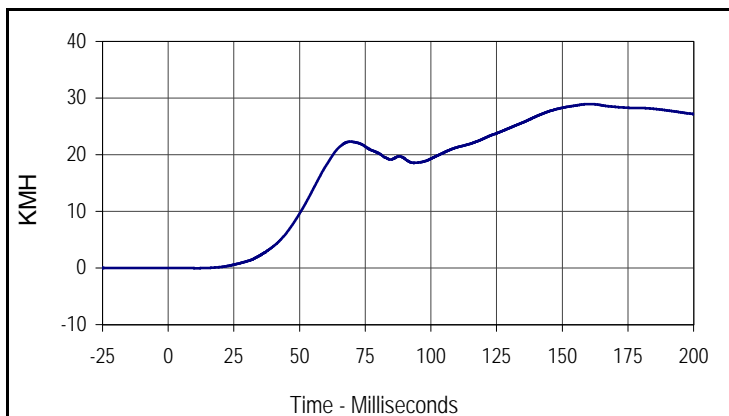
Test Date: 3/17/05
 NHTSA No.: M55209



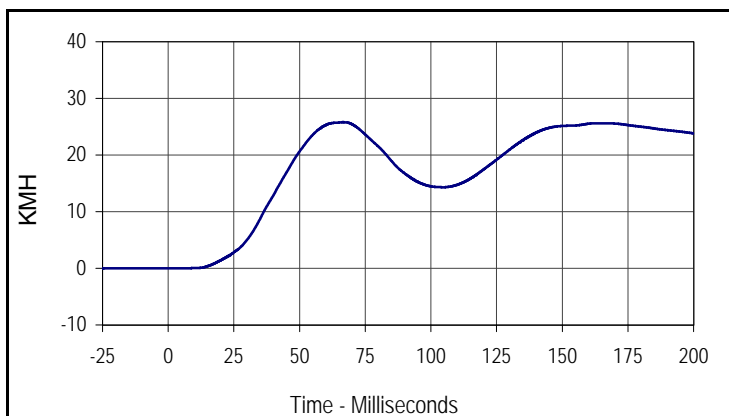
| Curve Description | | | |
|--|-------|-----------|-------|
| Passenger Upper Rib Primary Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 035 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 30.2 | 162.3 | 0.0 | 0.0 |



| Curve Description | | | |
|--|-------|-----------|-------|
| Passenger Lower Rib Primary Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 036 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 31.9 | 157.4 | 0.0 | 7.4 |



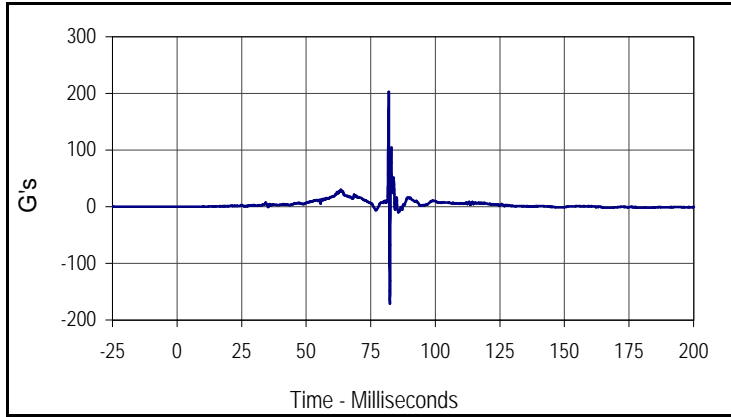
| Curve Description | | | |
|--|-------|-----------|-------|
| Passenger Lower Spine Primary Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 037 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 29.0 | 160.3 | -0.1 | 11.0 |



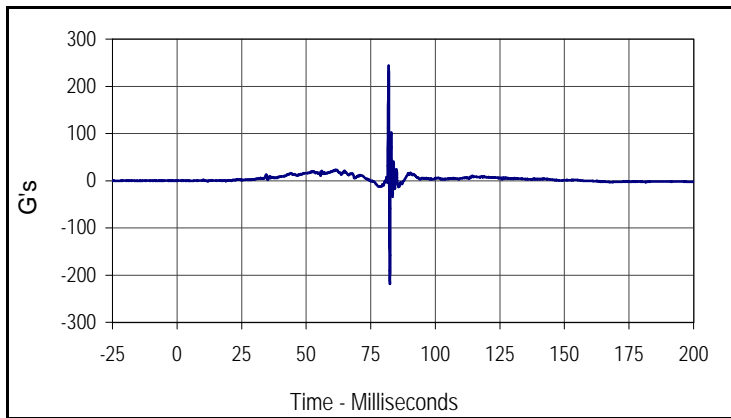
| Curve Description | | | |
|-------------------------------------|------|-----------|-------|
| Passenger Pelvis Primary Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 038 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 25.8 | 66.5 | 0.0 | 0.0 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

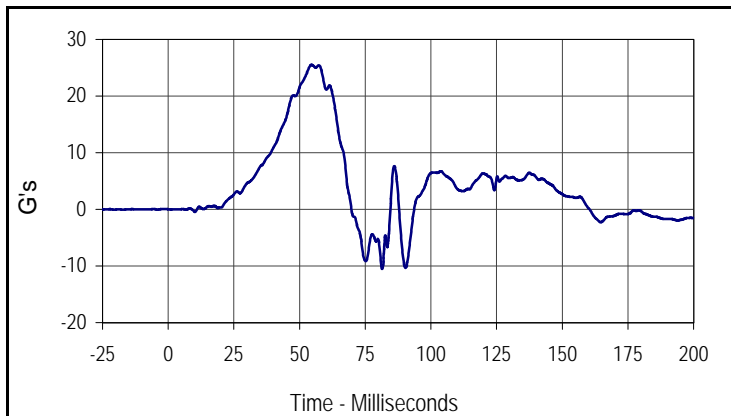
Test Date: 3/17/05
 NHTSA No.: M55209



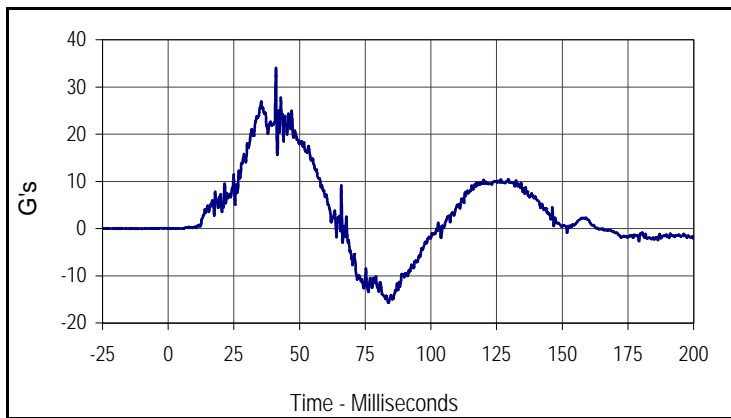
| Curve Description | | | |
|---------------------------------|------|-----------|-------|
| Passenger Upper Rib Redundant Y | | | |
| CURNO | Type | SAE Class | Units |
| 039 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 203.0 | 82.0 | -170.9 | 82.4 |



| Curve Description | | | |
|---------------------------------|------|-----------|-------|
| Passenger Lower Rib Redundant Y | | | |
| CURNO | Type | SAE Class | Units |
| 040 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 243.7 | 81.9 | -218.7 | 82.4 |



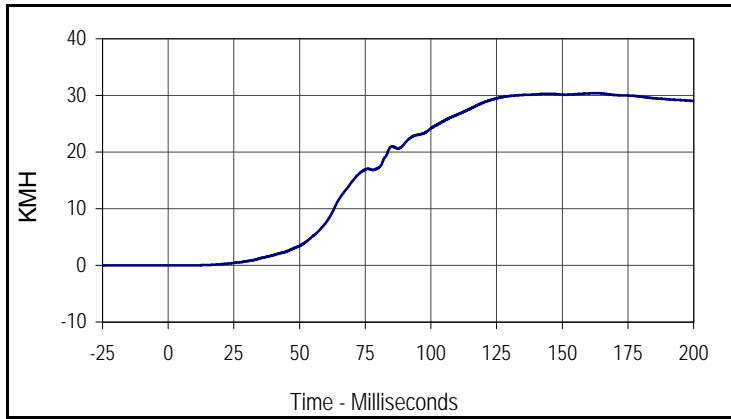
| Curve Description | | | |
|-----------------------------------|------|-----------|-------|
| Passenger Lower Spine Redundant Y | | | |
| CURNO | Type | SAE Class | Units |
| 041 | FIL | 180 | G's |
| Max | Time | Min | Time |
| 25.5 | 54.6 | -10.5 | 81.5 |



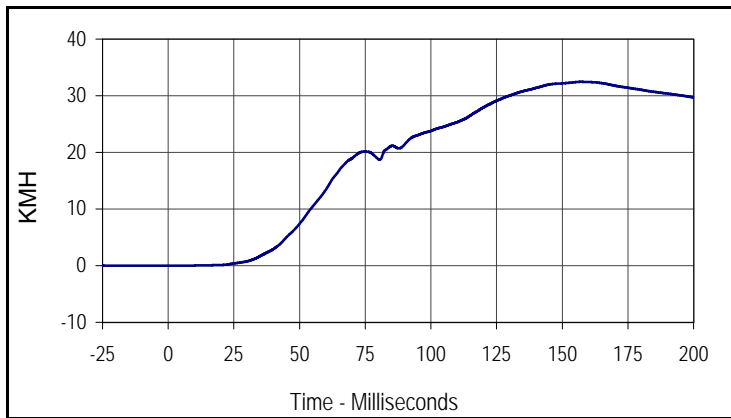
| Curve Description | | | |
|------------------------------|------|-----------|-------|
| Passenger Pelvis Redundant Y | | | |
| CURNO | Type | SAE Class | Units |
| 042 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 34.1 | 41.0 | -15.8 | 83.8 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

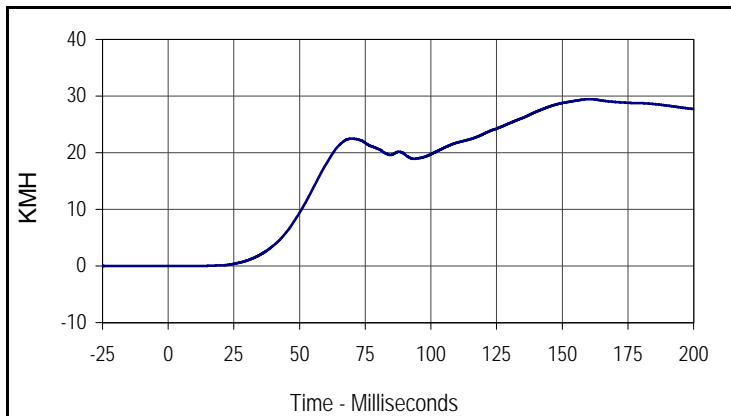
Test Date: 3/17/05
 NHTSA No.: M55209



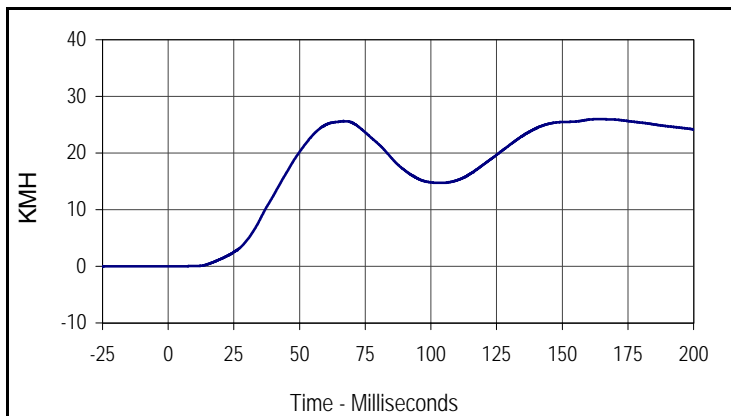
| Curve Description | | | |
|--|-------|-----------|-------|
| Passenger Upper Rib Redundant Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 039 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 30.4 | 162.1 | 0.0 | 8.3 |



| Curve Description | | | |
|--|-------|-----------|-------|
| Passenger Lower Rib Redundant Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 040 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 32.5 | 157.1 | 0.0 | 0.2 |



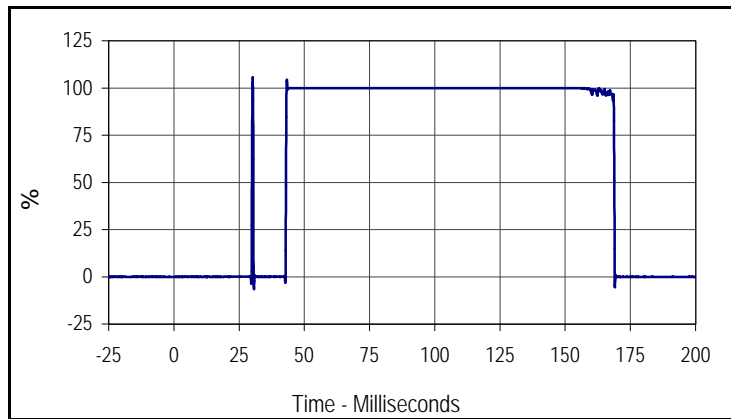
| Curve Description | | | |
|--|-------|-----------|-------|
| Passenger Lower Spine Redundant Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 041 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 29.5 | 160.4 | 0.0 | 11.0 |



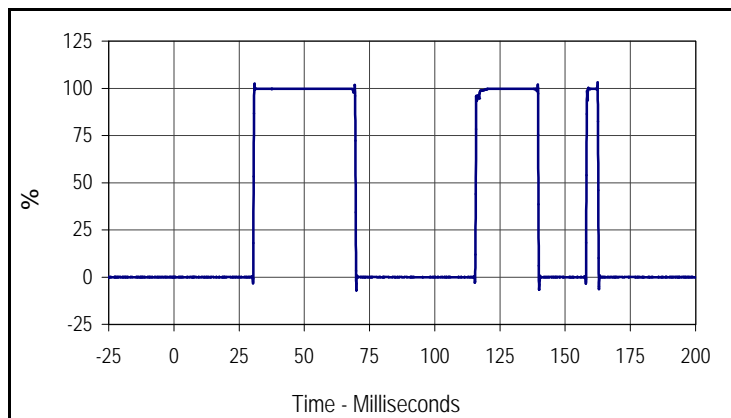
| Curve Description | | | |
|---------------------------------------|-------|-----------|-------|
| Passenger Pelvis Redundant Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 042 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 26.0 | 163.5 | 0.0 | 0.0 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

Test Date: 3/17/05
 NHTSA No.: M55209



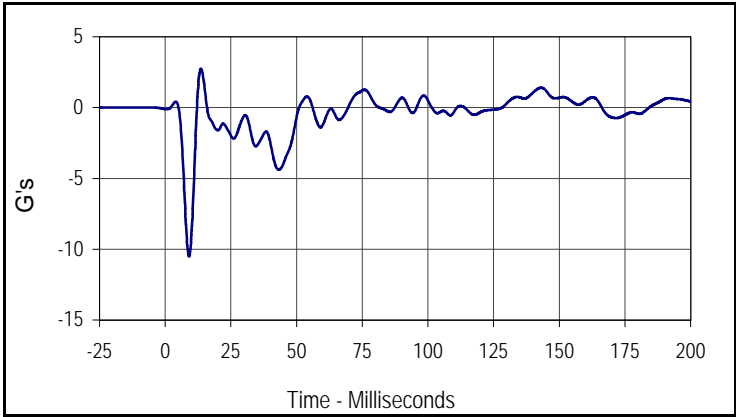
| Curve Description | | | |
|--------------------------|------|-----------|-------|
| Passenger Thorax Contact | | | |
| CURNO | Type | SAE Class | Units |
| 043 | FIL | 1000 | % |
| Max | Time | Cross % | Time |
| 105.6 | 30.2 | 50.0 | 43.1 |



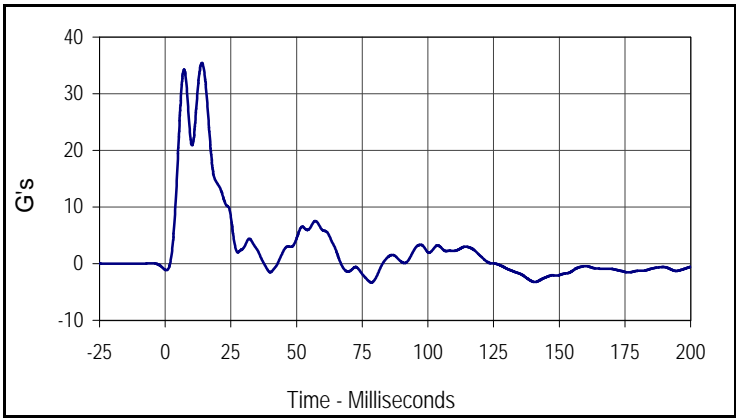
| Curve Description | | | |
|--------------------------|-------|-----------|-------|
| Passenger Pelvis Contact | | | |
| CURNO | Type | SAE Class | Units |
| 044 | FIL | 1000 | % |
| Max | Time | Cross % | Time |
| 103.1 | 162.4 | 50.0 | 30.6 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

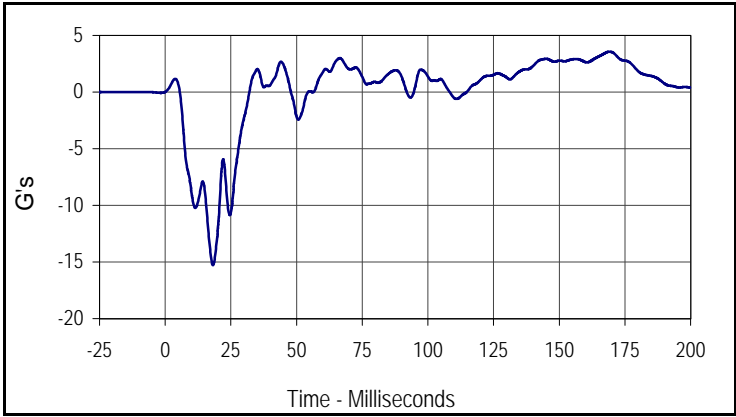
Test Date: 3/17/05
 NHTSA No.: M55209



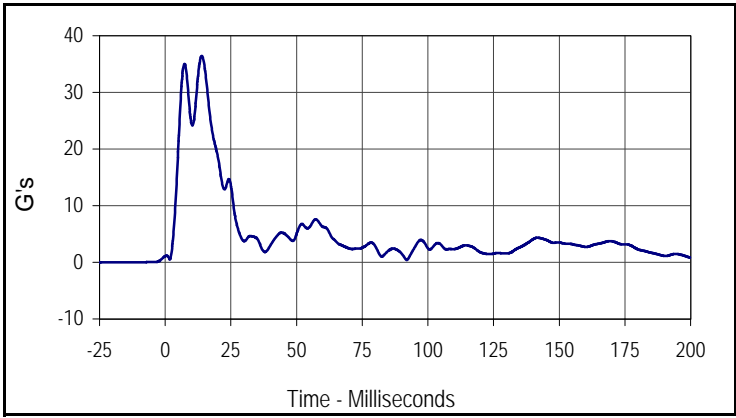
| Curve Description | | | |
|------------------------------------|------|-----------|-------|
| Vehicle Right Sill at Front Seat X | | | |
| CURNO | Type | SAE Class | Units |
| 045 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 2.7 | 13.6 | -10.5 | 9.1 |



| Curve Description | | | |
|------------------------------------|------|-----------|-------|
| Vehicle Right Sill at Front Seat Y | | | |
| CURNO | Type | SAE Class | Units |
| 046 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 35.4 | 14.0 | -3.3 | 78.5 |



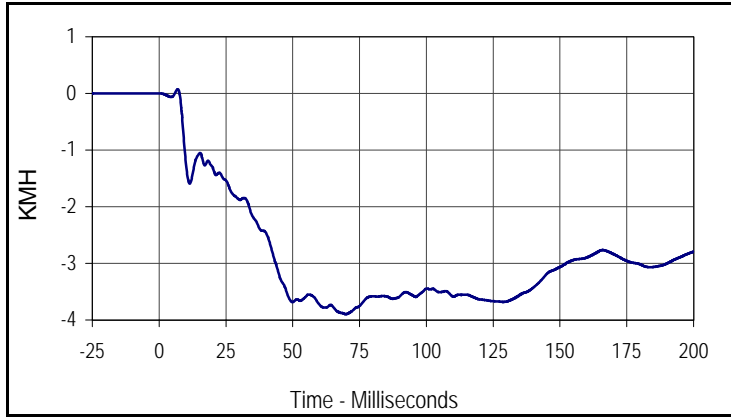
| Curve Description | | | |
|------------------------------------|-------|-----------|-------|
| Vehicle Right Sill at Front Seat Z | | | |
| CURNO | Type | SAE Class | Units |
| 047 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 3.6 | 169.2 | -15.3 | 18.2 |



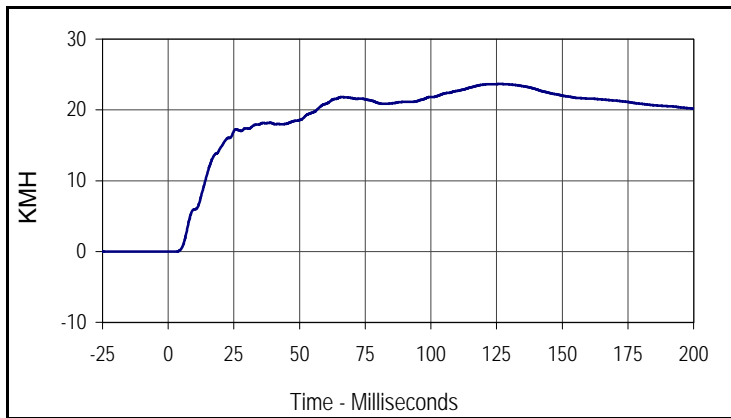
| Curve Description | | | |
|---|------|-----------|-------|
| Vehicle Right Sill Front Seat Resultant | | | |
| CURNO | Type | SAE Class | Units |
| 045 | RES | 60 | G's |
| Max | Time | Min | Time |
| 36.4 | 13.9 | 0.4 | 91.9 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

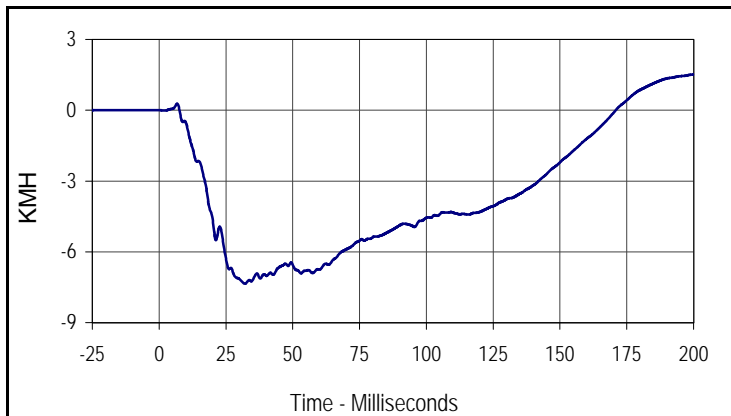
Test Date: 3/17/05
 NHTSA No.: M55209



| Curve Description | | | |
|---|------|-----------|-------|
| Vehicle Right Sill at Front Seat X Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 045 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 0.1 | 7.0 | -3.9 | 69.8 |



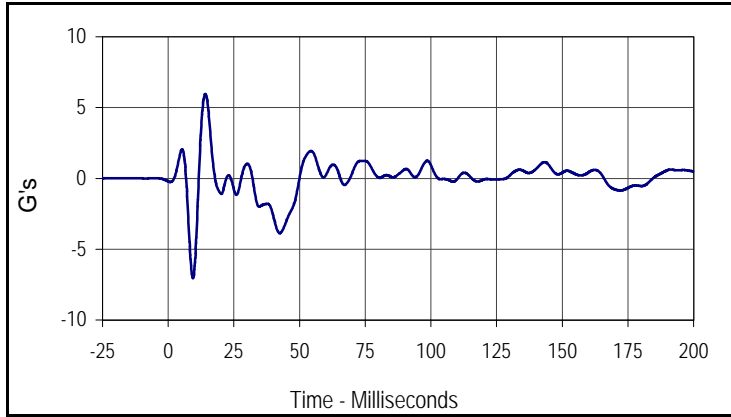
| Curve Description | | | |
|---|-------|-----------|-------|
| Vehicle Right Sill at Front Seat Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 046 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 23.7 | 126.3 | 0.0 | 2.9 |



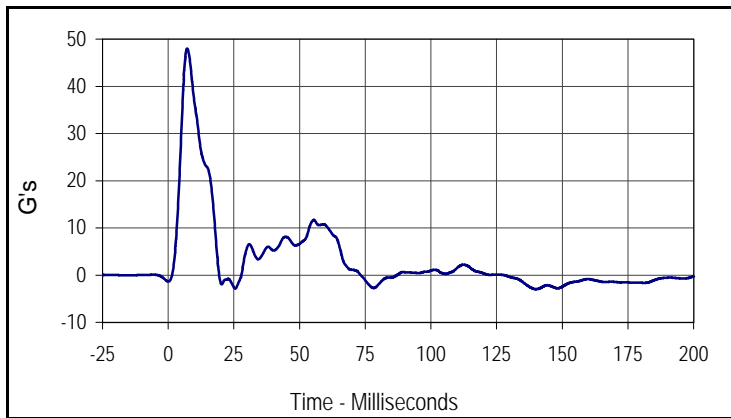
| Curve Description | | | |
|---|-------|-----------|-------|
| Vehicle Right Sill at Front Seat Z Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 047 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 1.5 | 200.0 | -7.4 | 32.0 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

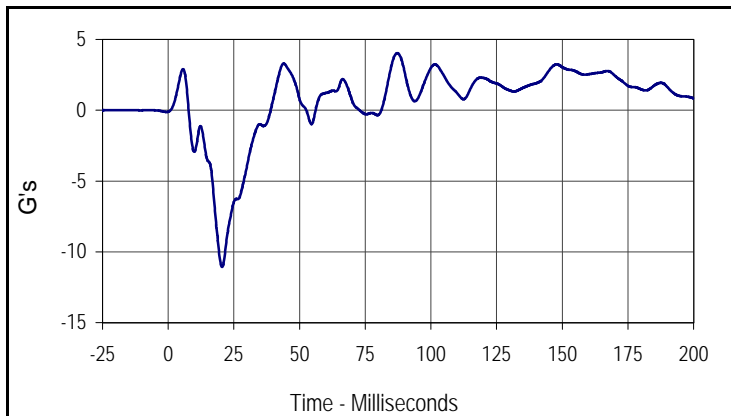
Test Date: 3/17/05
 NHTSA No.: M55209



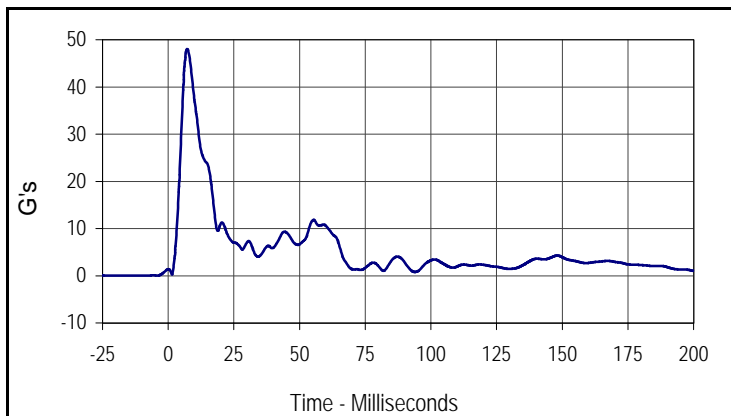
| Curve Description | | | |
|-----------------------------------|------|-----------|-------|
| Vehicle Right Sill at Rear Seat X | | | |
| CURNO | Type | SAE Class | Units |
| 048 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 6.0 | 14.1 | -7.0 | 9.4 |



| Curve Description | | | |
|-----------------------------------|------|-----------|-------|
| Vehicle Right Sill at Rear Seat Y | | | |
| CURNO | Type | SAE Class | Units |
| 049 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 48.0 | 7.2 | -3.0 | 139.9 |



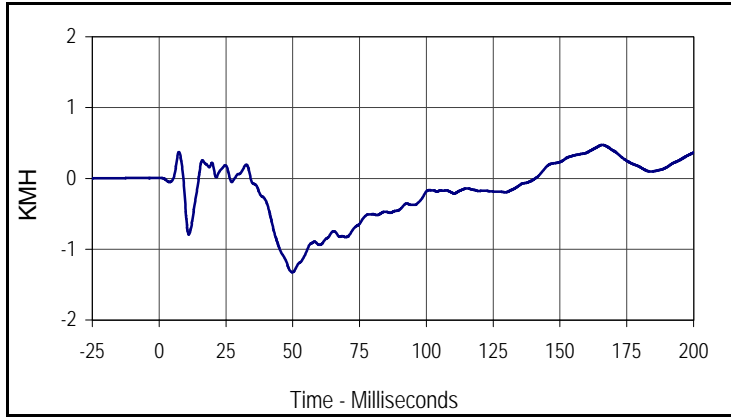
| Curve Description | | | |
|-----------------------------------|------|-----------|-------|
| Vehicle Right Sill at Rear Seat Z | | | |
| CURNO | Type | SAE Class | Units |
| 050 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 4.0 | 87.2 | -11.1 | 20.5 |



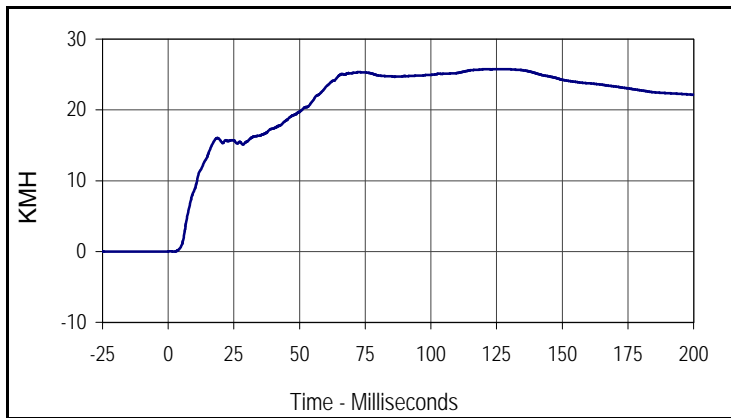
| Curve Description | | | |
|--|------|-----------|-------|
| Vehicle Right Sill Rear Seat Resultant | | | |
| CURNO | Type | SAE Class | Units |
| 048 | RES | 60 | G's |
| Max | Time | Min | Time |
| 48.0 | 7.2 | 0.3 | 1.5 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

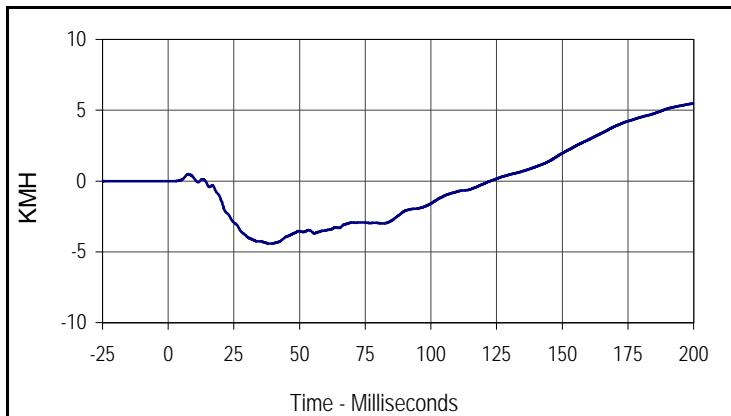
Test Date: 3/17/05
 NHTSA No.: M55209



| Curve Description | | | |
|--|-------|-----------|-------|
| Vehicle Right Sill at Rear Seat X Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 048 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 0.5 | 165.9 | -1.3 | 49.9 |



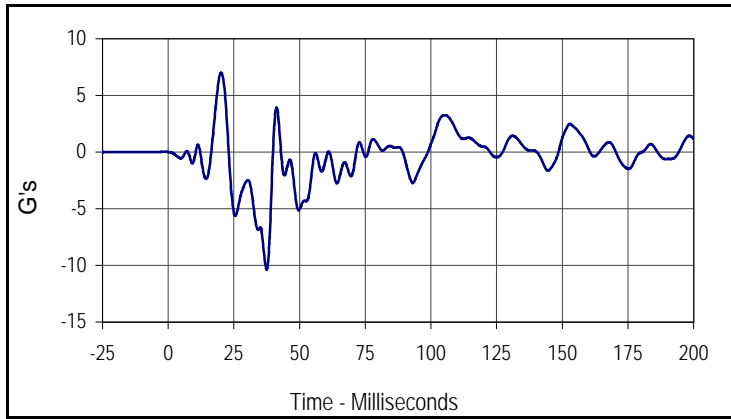
| Curve Description | | | |
|--|-------|-----------|-------|
| Vehicle Right Sill at Rear Seat Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 049 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 25.8 | 128.8 | 0.0 | 2.3 |



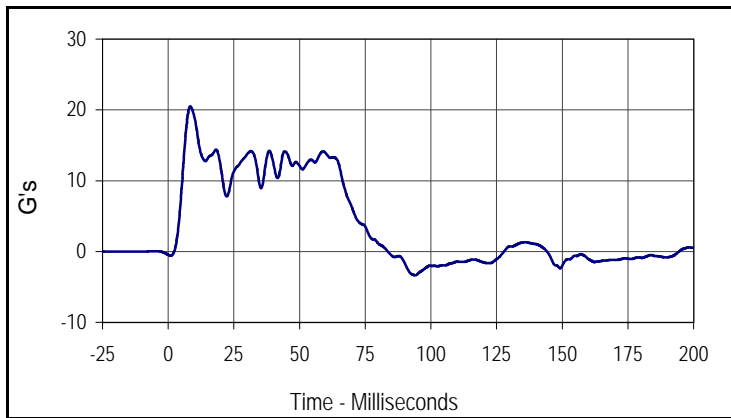
| Curve Description | | | |
|--|-------|-----------|-------|
| Vehicle Right Sill at Rear Seat Z Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 050 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 5.5 | 200.0 | -4.4 | 38.6 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

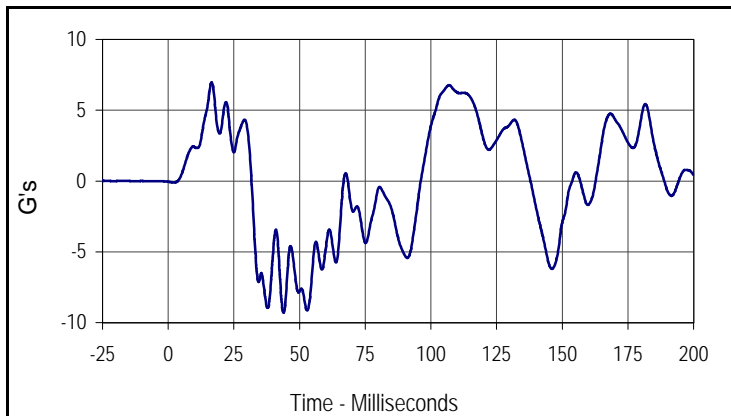
Test Date: 3/17/05
 NHTSA No.: M55209



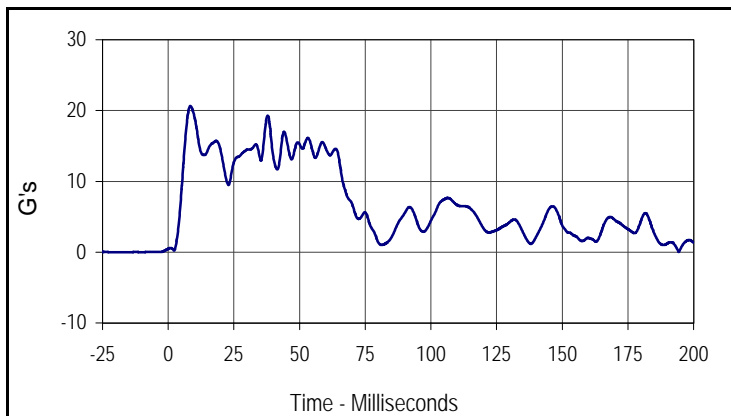
| Curve Description | | | |
|---------------------------------|------|-----------|-------|
| Vehicle Rear Floor Above Axle X | | | |
| CURNO | Type | SAE Class | Units |
| 051 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 7.0 | 20.1 | -10.4 | 37.5 |



| Curve Description | | | |
|---------------------------------|------|-----------|-------|
| Vehicle Rear Floor Above Axle Y | | | |
| CURNO | Type | SAE Class | Units |
| 052 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 20.5 | 8.4 | -3.4 | 94.1 |



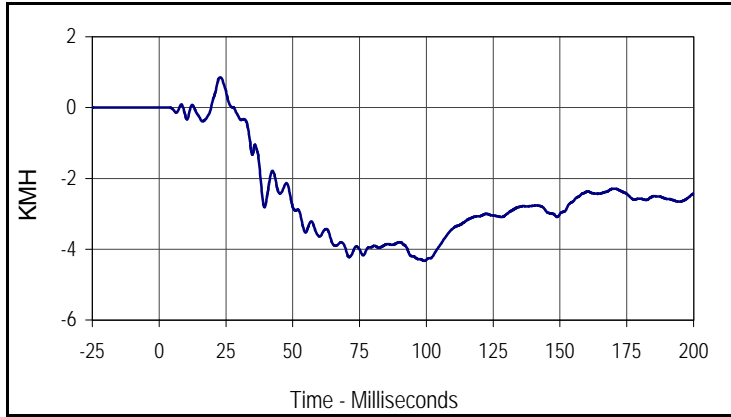
| Curve Description | | | |
|---------------------------------|------|-----------|-------|
| Vehicle Rear Floor Above Axle Z | | | |
| CURNO | Type | SAE Class | Units |
| 053 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 7.0 | 16.5 | -9.3 | 43.9 |



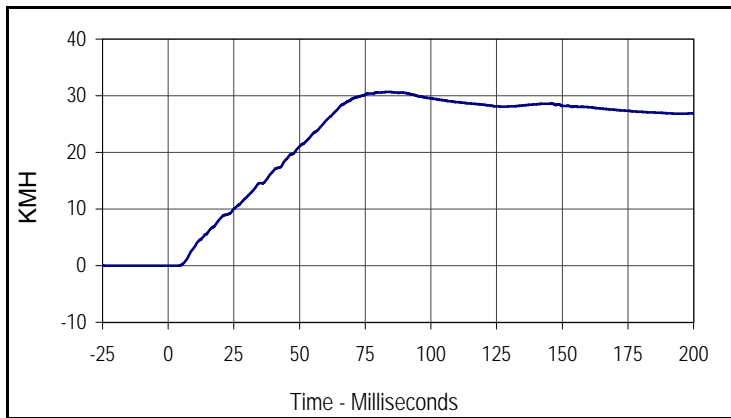
| Curve Description | | | |
|---|------|-----------|-------|
| Vehicle Rear Floor Above Axle Resultant | | | |
| CURNO | Type | SAE Class | Units |
| 051 | RES | 60 | G's |
| Max | Time | Min | Time |
| 20.6 | 8.4 | 0.0 | 194.4 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

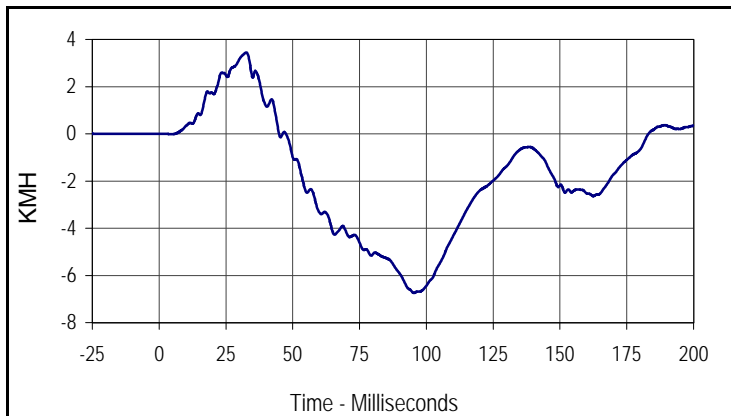
Test Date: 3/17/05
 NHTSA No.: M55209



| Curve Description | | | |
|--|------|-----------|-------|
| Vehicle Rear Floor Above Axle X Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 051 | FIL | 180 | KMH |
| Max | Time | Min | Time |
| 0.9 | 22.8 | -4.3 | 99.3 |



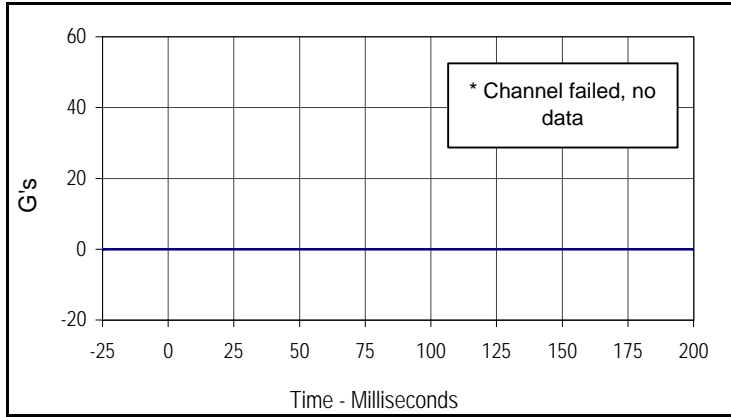
| Curve Description | | | |
|--|------|-----------|-------|
| Vehicle Rear Floor Above Axle Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 052 | FIL | 180 | KMH |
| Max | Time | Min | Time |
| 30.7 | 83.2 | 0.0 | 3.5 |



| Curve Description | | | |
|--|------|-----------|-------|
| Vehicle Rear Floor Above Axle Z Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 053 | FIL | 180 | KMH |
| Max | Time | Min | Time |
| 3.4 | 32.6 | -6.7 | 95.4 |

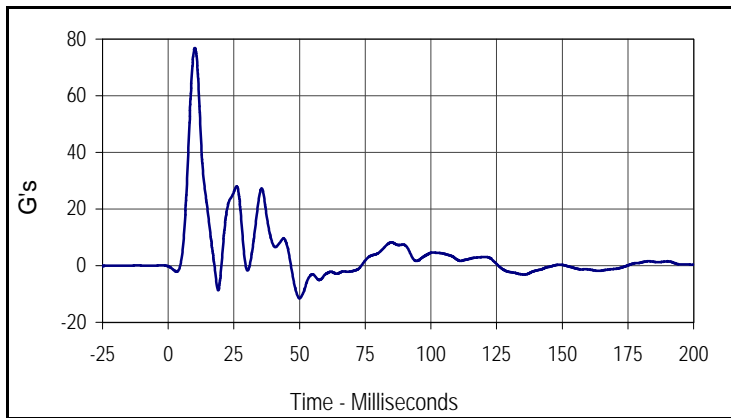
Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

Test Date: 3/17/05
 NHTSA No.: M55209

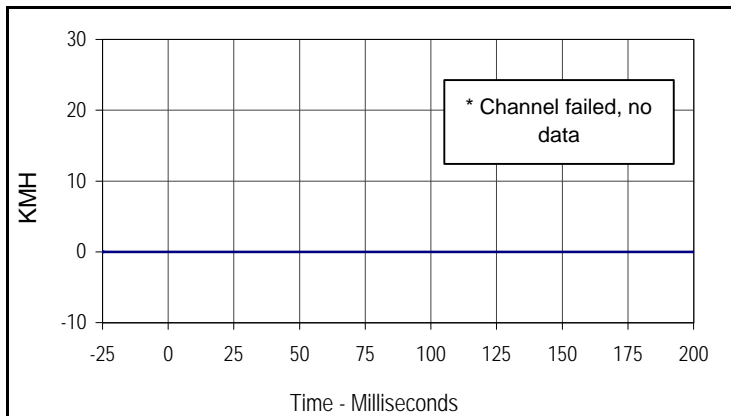


| Curve Description | | | |
|----------------------------------|------|-----------|-------|
| Vehicle Left Sill at Rear Door Y | | | |
| CURNO | Type | SAE Class | Units |
| 054 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 0.0 | 0.0 | 0.0 | 0.0 |

* Channel failed, no data

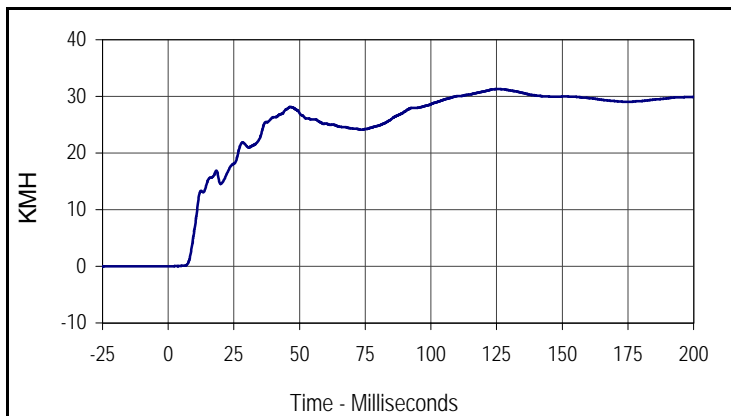


| Curve Description | | | |
|-----------------------------------|------|-----------|-------|
| Vehicle Left Sill at Front Door Y | | | |
| CURNO | Type | SAE Class | Units |
| 055 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 76.8 | 10.2 | -11.5 | 50.0 |



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

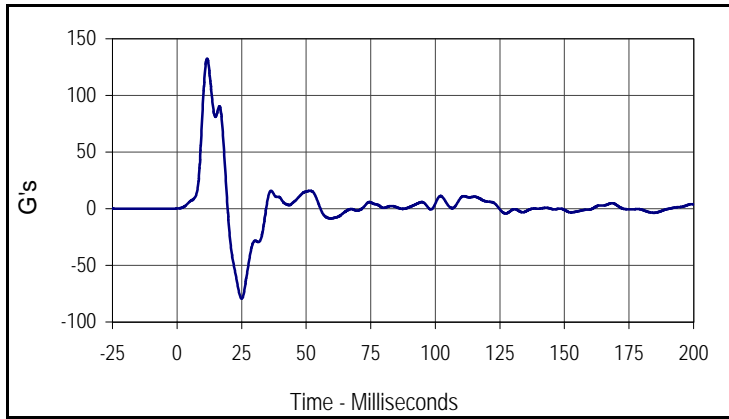
* Channel failed, no data



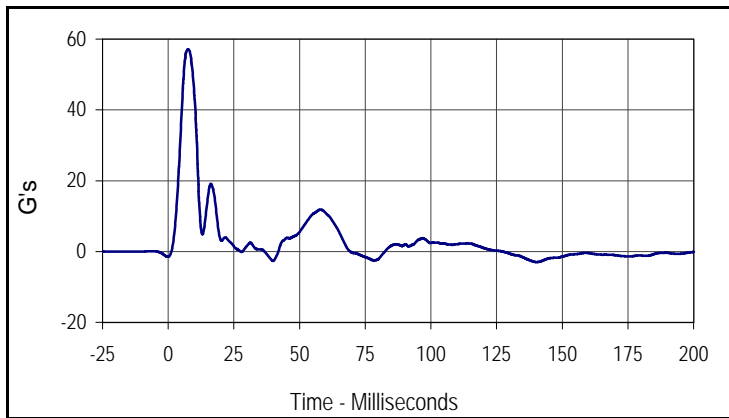
| Curve Description | | | |
|--|-------|-----------|-------|
| Vehicle Left Sill at Front Door Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 055 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 31.3 | 125.8 | 0.0 | 0.0 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

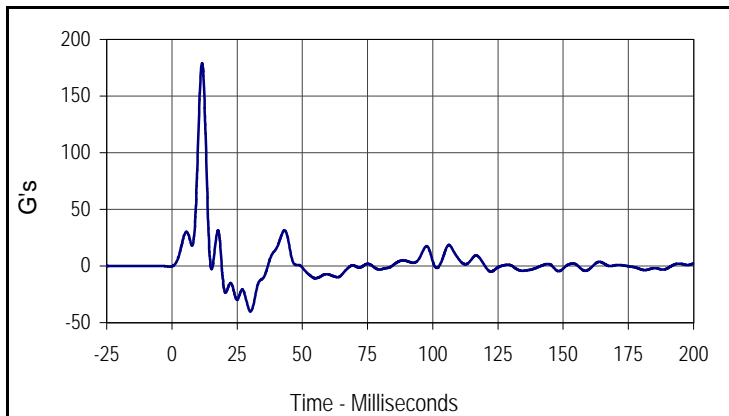
Test Date: 3/17/05
 NHTSA No.: M55209



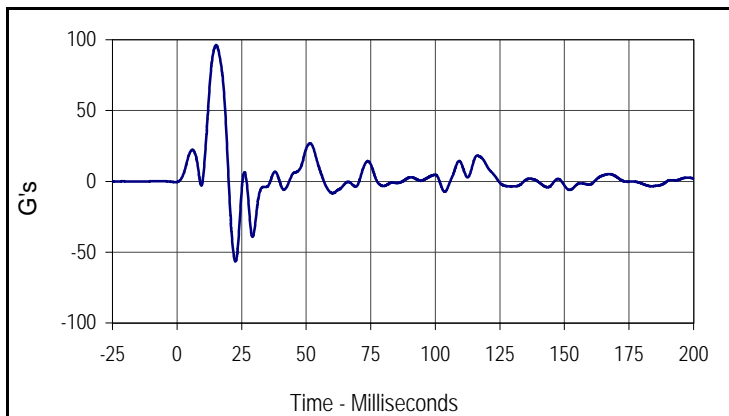
| Curve Description | | | |
|------------------------------|------|-----------|-------|
| Vehicle Left Front Door CL Y | | | |
| CURNO | Type | SAE Class | Units |
| 056 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 132.6 | 11.6 | -79.3 | 25.0 |



| Curve Description | | | |
|---|------|-----------|-------|
| Vehicle Right Rear Occupant Compartment | | | |
| CURNO | Type | SAE Class | Units |
| 057 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 57.1 | 7.6 | -3.0 | 140.2 |



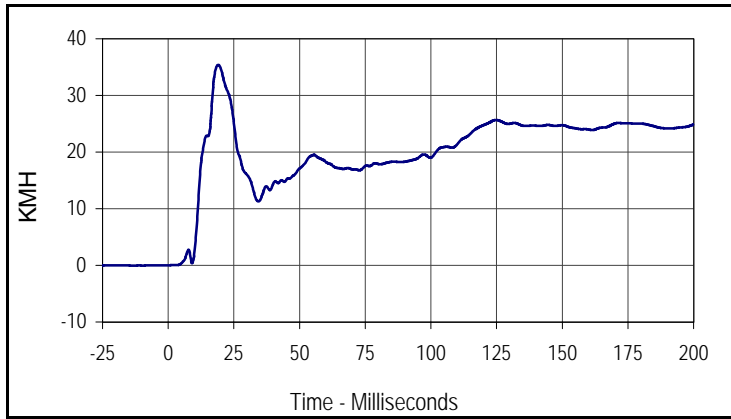
| Curve Description | | | |
|------------------------------------|------|-----------|-------|
| Vehicle Left Front Door Mid Rear Y | | | |
| CURNO | Type | SAE Class | Units |
| 058 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 179.2 | 11.6 | -40.0 | 30.1 |



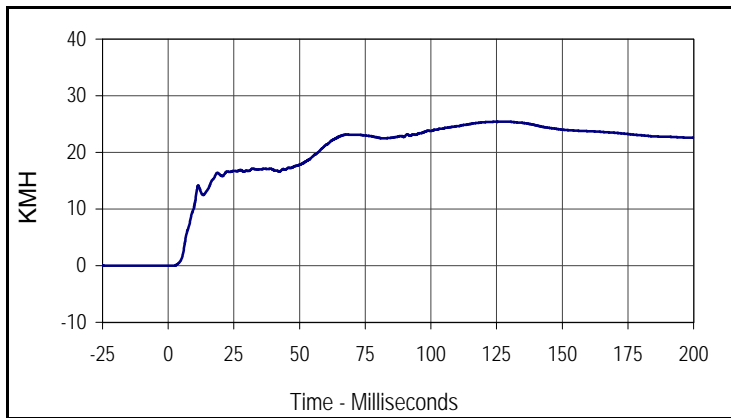
| Curve Description | | | |
|------------------------------------|------|-----------|-------|
| Vehicle Left Front Door Upper CL Y | | | |
| CURNO | Type | SAE Class | Units |
| 059 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 96.3 | 15.2 | -56.4 | 22.6 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

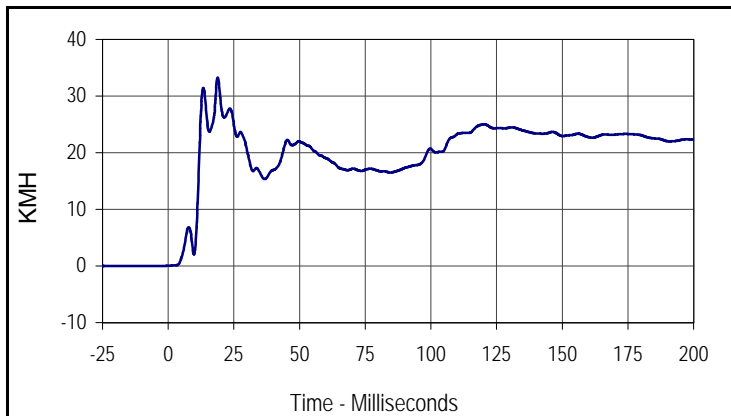
Test Date: 3/17/05
 NHTSA No.: M55209



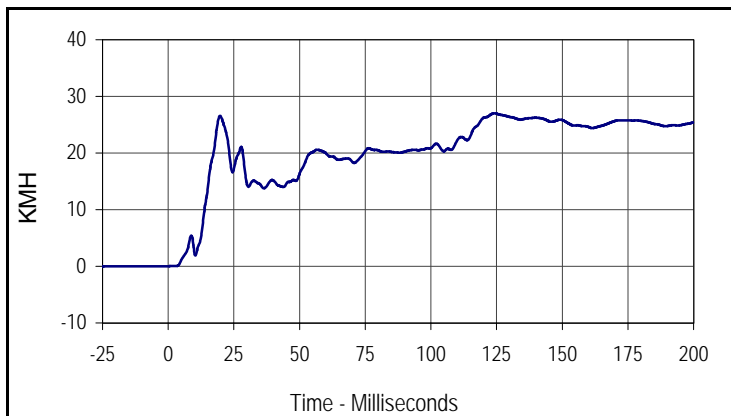
| Curve Description | | | |
|---------------------------------------|------|-----------|-------|
| Vehicle Left Front Door CL Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 056 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 35.4 | 19.0 | 0.0 | 0.0 |



| Curve Description | | | |
|--|-------|-----------|-------|
| Vehicle Right Rear Occupant Compartment Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 057 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 25.4 | 126.9 | 0.0 | 2.1 |



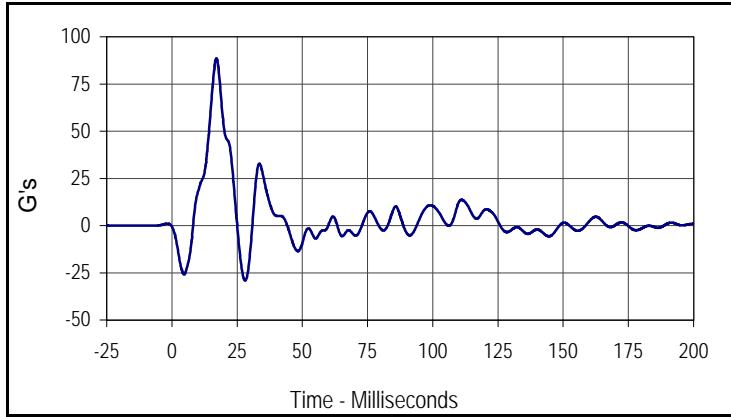
| Curve Description | | | |
|---|------|-----------|-------|
| Vehicle Left Front Door Mid Rear Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 058 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 33.3 | 18.8 | 0.0 | 0.0 |



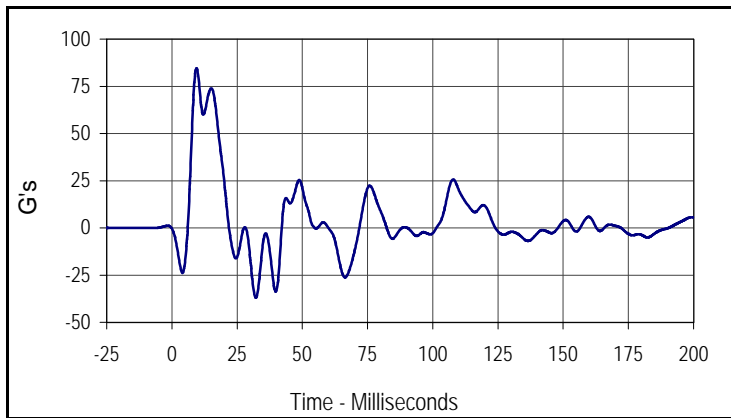
| Curve Description | | | |
|---|-------|-----------|-------|
| Vehicle Left Front Door Upper CL Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 059 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 27.0 | 124.3 | 0.0 | 0.0 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

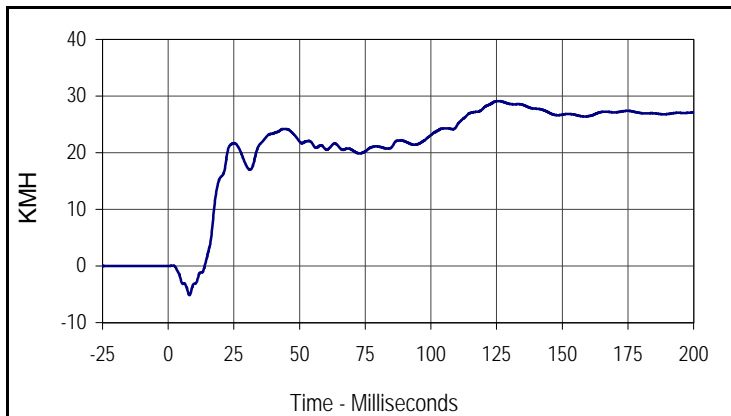
Test Date: 3/17/05
 NHTSA No.: M55209



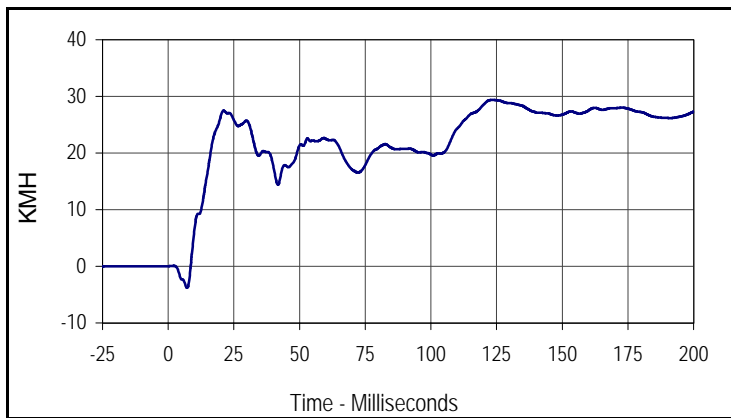
| Curve Description | | | |
|-----------------------------------|------|-----------|-------|
| Vehicle Left Rear Door Mid Rear Y | | | |
| CURNO | Type | SAE Class | Units |
| 060 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 88.7 | 17.0 | -29.1 | 28.1 |



| Curve Description | | | |
|-----------------------------------|------|-----------|-------|
| Vehicle Left Rear Door Upper CL Y | | | |
| CURNO | Type | SAE Class | Units |
| 061 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 84.6 | 9.4 | -36.9 | 32.2 |



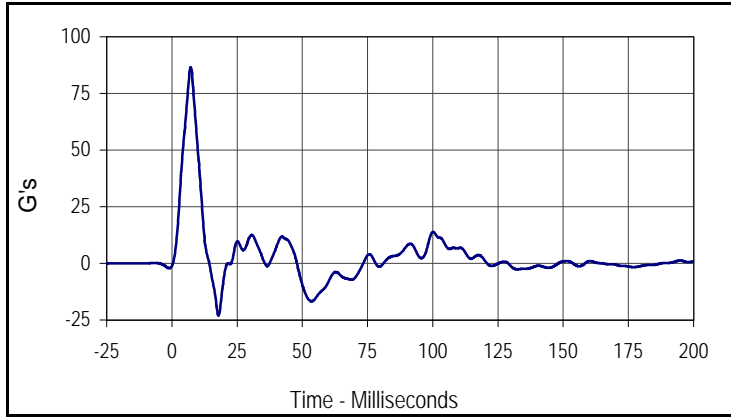
| Curve Description | | | |
|--|-------|-----------|-------|
| Vehicle Left Rear Door Mid Rear Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 060 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 29.1 | 125.8 | -5.2 | 8.1 |



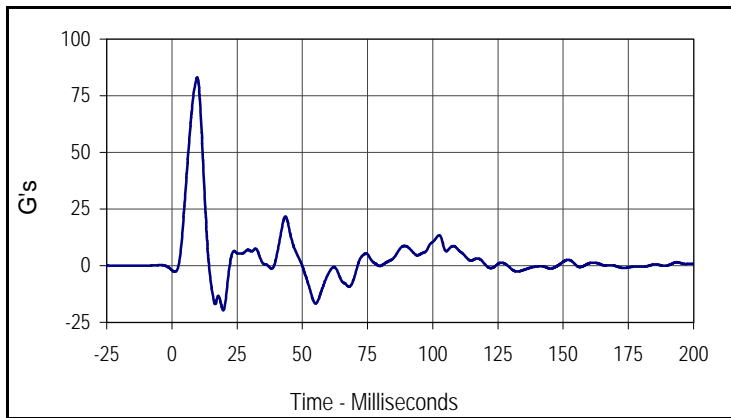
| Curve Description | | | |
|--|-------|-----------|-------|
| Vehicle Left Rear Door Upper CL Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 061 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 29.4 | 123.4 | -3.8 | 7.2 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

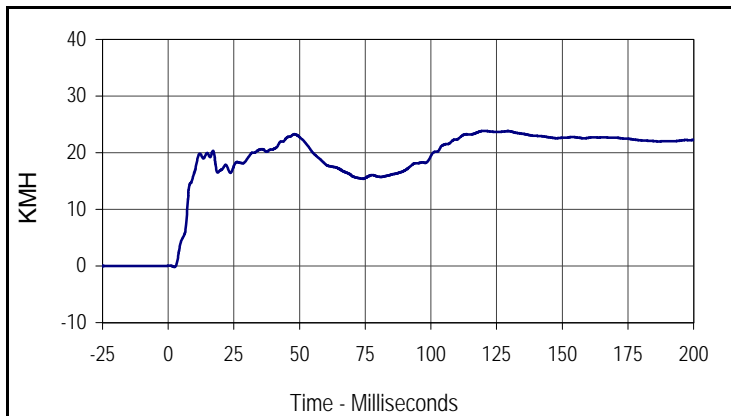
Test Date: 3/17/05
 NHTSA No.: M55209



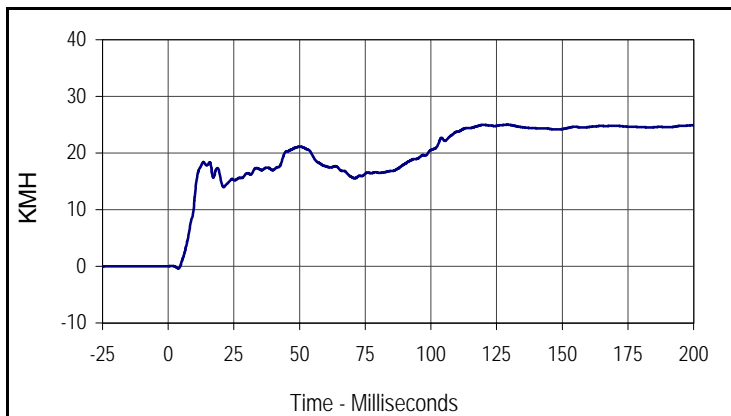
| Curve Description | | | |
|------------------------|------|-----------|-------|
| Vehicle B-Post Lower Y | | | |
| CURNO | Type | SAE Class | Units |
| 062 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 86.6 | 7.2 | -23.0 | 17.9 |



| Curve Description | | | |
|-------------------------|------|-----------|-------|
| Vehicle B-Post Middle Y | | | |
| CURNO | Type | SAE Class | Units |
| 063 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 83.1 | 9.7 | -19.8 | 19.7 |



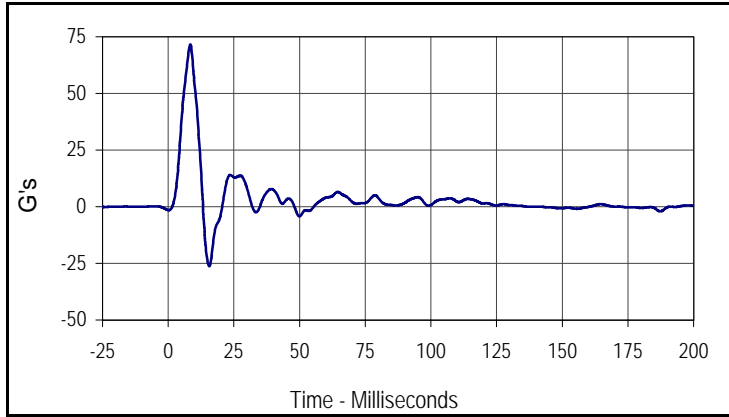
| Curve Description | | | |
|---------------------------------|-------|-----------|-------|
| Vehicle B-Post Lower Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 062 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 23.9 | 120.3 | -0.2 | 2.4 |



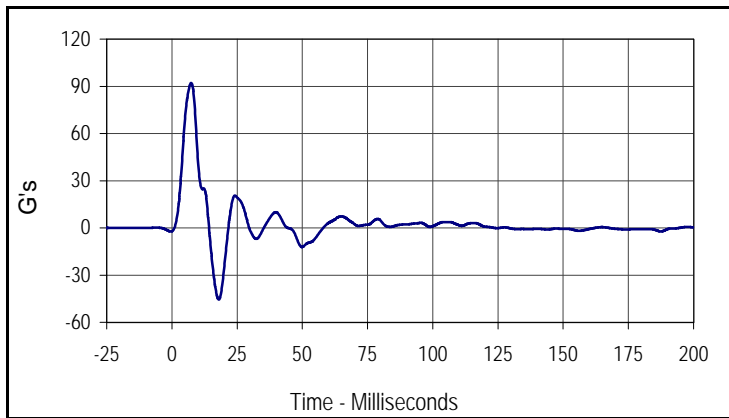
| Curve Description | | | |
|----------------------------------|-------|-----------|-------|
| Vehicle B-Post Middle Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 063 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 25.0 | 129.1 | -0.4 | 3.9 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

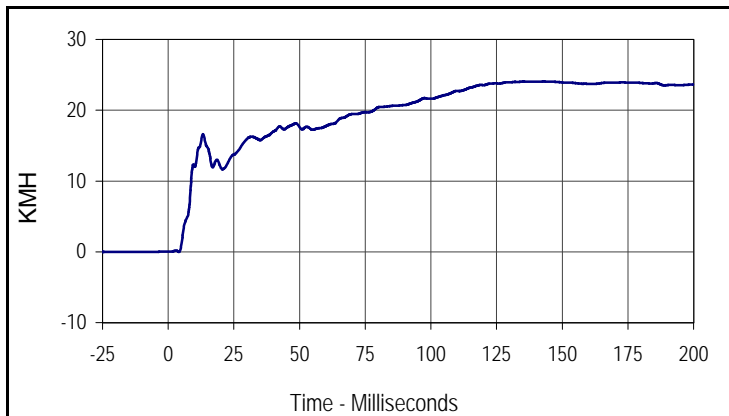
Test Date: 3/17/05
 NHTSA No.: M55209



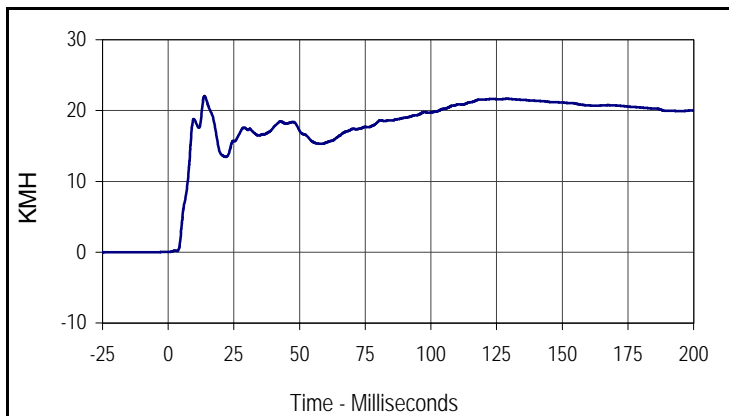
| Curve Description | | | |
|------------------------|------|-----------|-------|
| Vehicle A-Post Lower Y | | | |
| CURNO | Type | SAE Class | Units |
| 064 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 71.6 | 8.4 | -26.3 | 15.6 |



| Curve Description | | | |
|-------------------------|------|-----------|-------|
| Vehicle A-Post Middle Y | | | |
| CURNO | Type | SAE Class | Units |
| 065 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 92.1 | 7.4 | -45.5 | 18.0 |



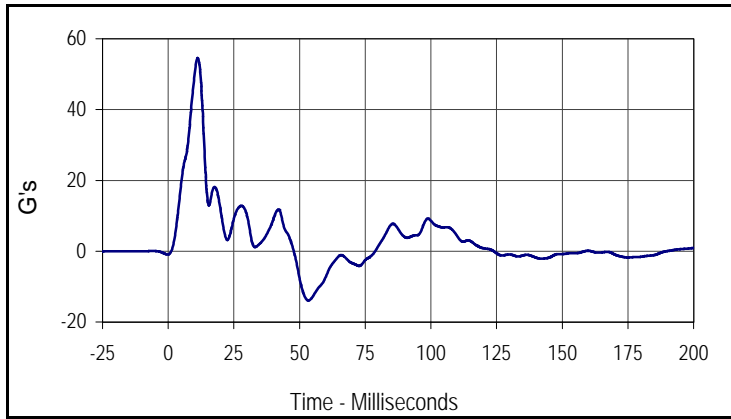
| Curve Description | | | |
|---------------------------------|-------|-----------|-------|
| Vehicle A-Post Lower Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 064 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 24.1 | 143.0 | 0.0 | 4.1 |



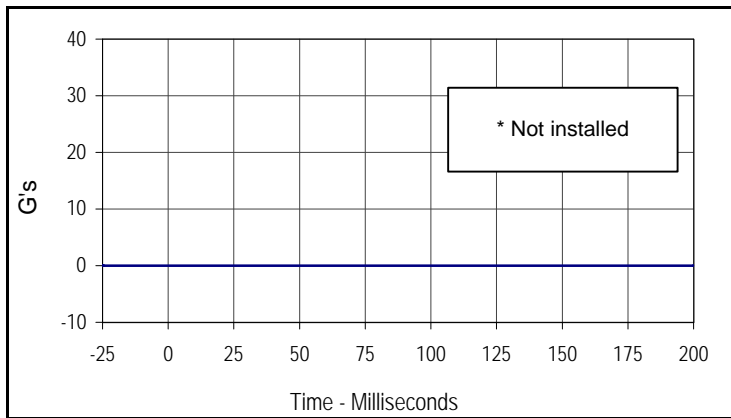
| Curve Description | | | |
|----------------------------------|------|-----------|-------|
| Vehicle A-Post Middle Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 065 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 22.1 | 13.8 | 0.0 | 0.0 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

Test Date: 3/17/05
 NHTSA No.: M55209

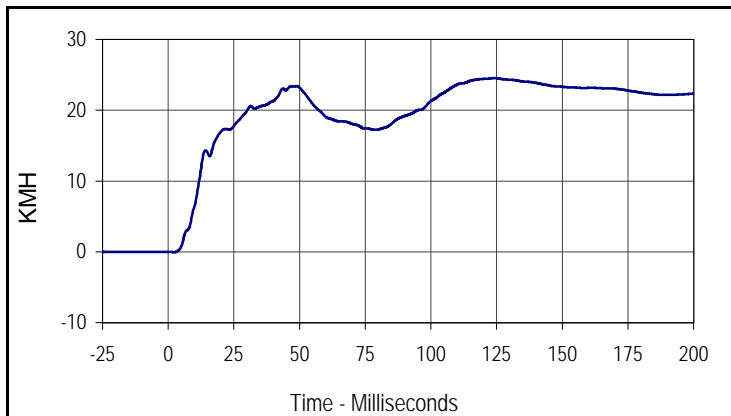


| Curve Description | | | |
|-------------------------------|------|-----------|-------|
| Vehicle Left Front Seat Track | | | |
| CURNO | Type | SAE Class | Units |
| 066 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 54.5 | 11.2 | -13.9 | 53.3 |

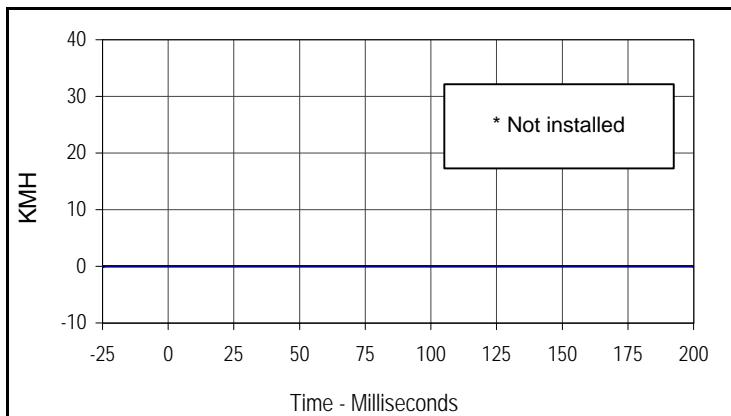


| Curve Description | | | |
|-----------------------------|------|-----------|-------|
| Vehicle Rear Seat Structure | | | |
| CURNO | Type | SAE Class | Units |
| 067 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 0.0 | 0.0 | 0.0 | 0.0 |

* Not installed



| Curve Description | | | |
|--|-------|-----------|-------|
| Vehicle Left Front Seat Track Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 066 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 24.5 | 124.6 | -0.1 | 2.2 |

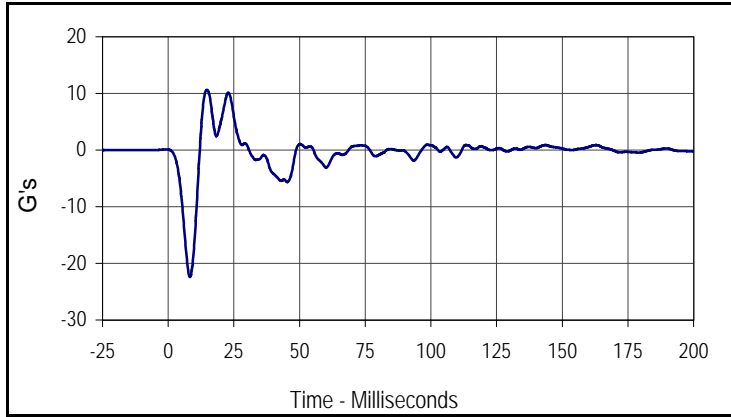


| Curve Description | | | |
|--|------|-----------|-------|
| Vehicle Rear Seat Structure Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 067 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 0.0 | 0.0 | 0.0 | 0.0 |

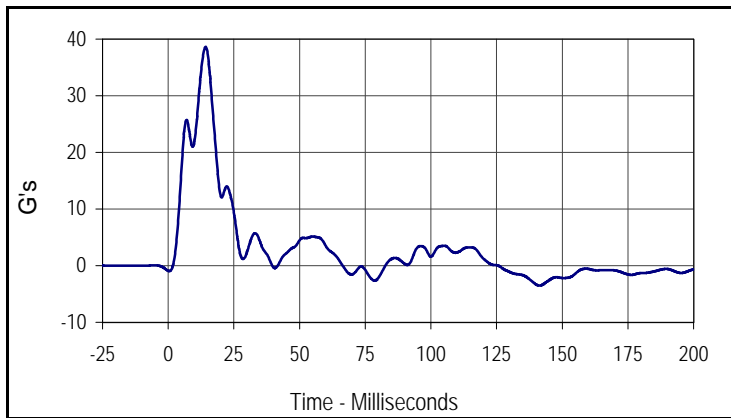
* Not installed

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

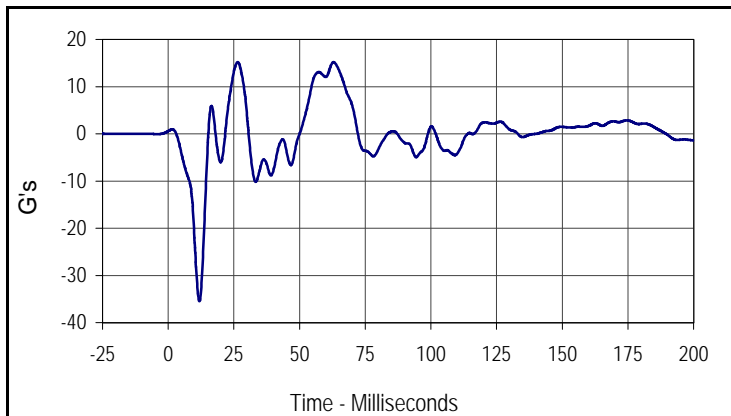
Test Date: 3/17/05
 NHTSA No.: M55209



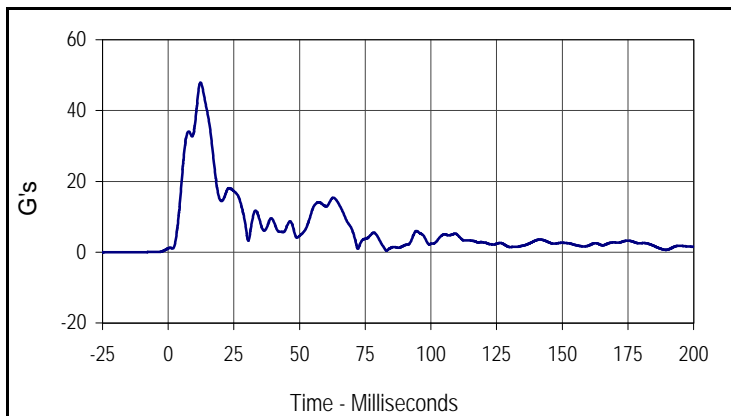
| Curve Description | | | |
|-------------------|------|-----------|-------|
| Vehicle CG X | | | |
| CURNO | Type | SAE Class | Units |
| 068 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 10.6 | 14.7 | -22.4 | 8.3 |



| Curve Description | | | |
|-------------------|------|-----------|-------|
| Vehicle CG Y | | | |
| CURNO | Type | SAE Class | Units |
| 069 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 38.6 | 14.2 | -3.5 | 141.3 |



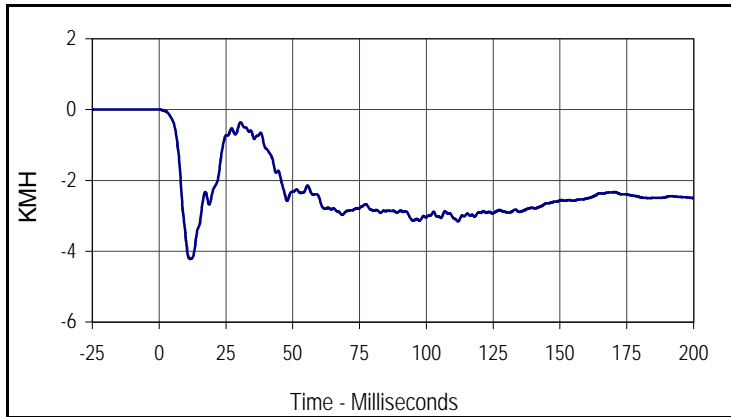
| Curve Description | | | |
|-------------------|------|-----------|-------|
| Vehicle CG Z | | | |
| CURNO | Type | SAE Class | Units |
| 070 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 15.2 | 26.5 | -35.5 | 11.9 |



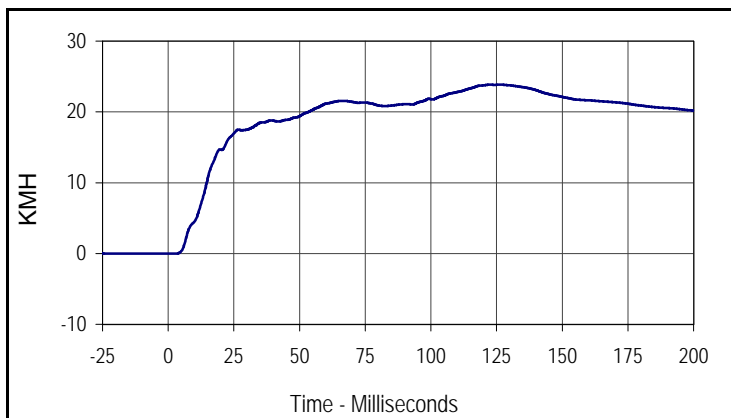
| Curve Description | | | |
|----------------------|------|-----------|-------|
| Vehicle CG Resultant | | | |
| CURNO | Type | SAE Class | Units |
| 068 | RES | 60 | G's |
| Max | Time | Min | Time |
| 47.9 | 12.3 | 0.4 | 83.1 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

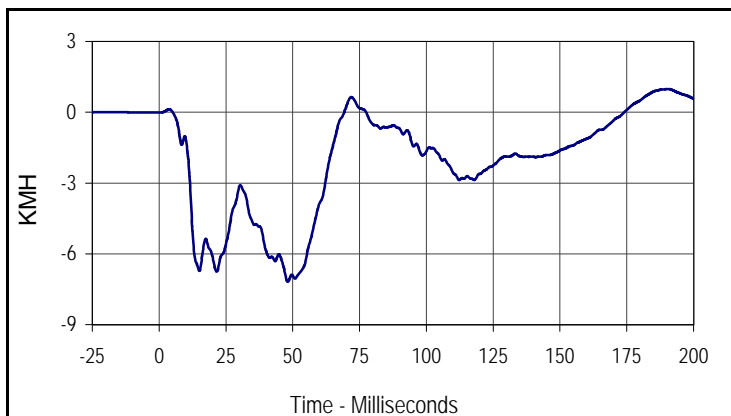
Test Date: 3/17/05
 NHTSA No.: M55209



| Curve Description | | | |
|-----------------------|------|-----------|-------|
| Vehicle CG X Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 068 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 0.0 | 0.0 | -4.2 | 11.6 |



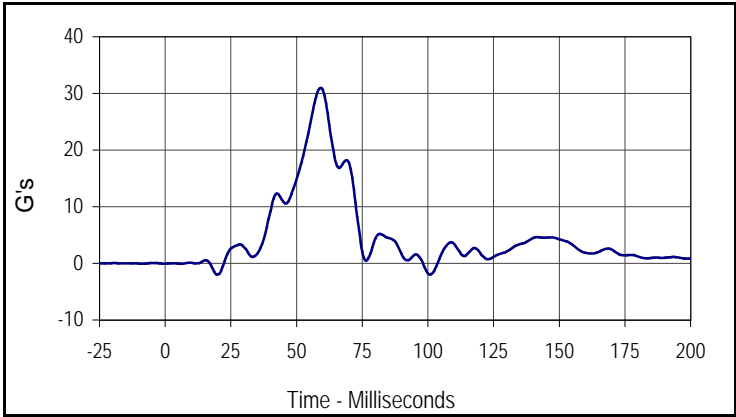
| Curve Description | | | |
|-----------------------|-------|-----------|-------|
| Vehicle CG Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 069 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 23.9 | 126.5 | 0.0 | 2.9 |



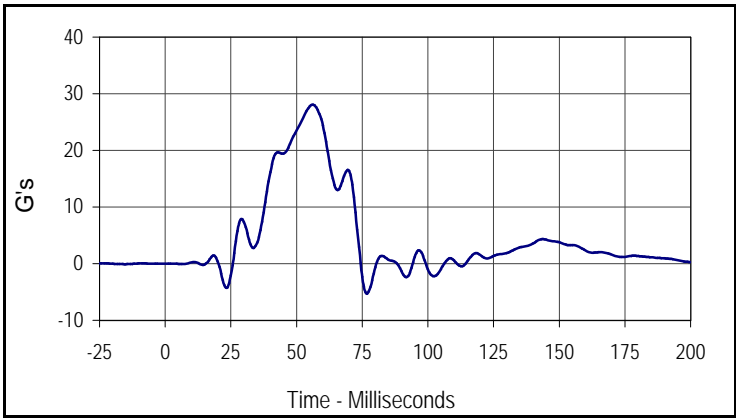
| Curve Description | | | |
|-----------------------|-------|-----------|-------|
| Vehicle CG Z Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 070 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 1.0 | 190.5 | -7.2 | 48.2 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

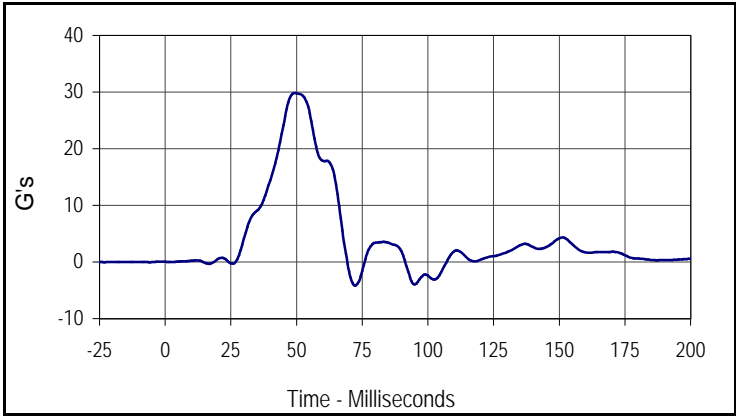
Test Date: 3/17/05
 NHTSA No.: M55209



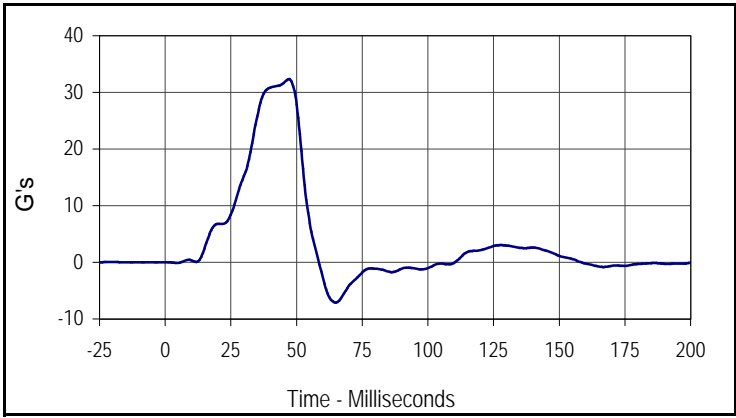
| Curve Description | | | |
|----------------------------|------|-----------|-------|
| Driver Upper Rib Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 013 | FIR | FIR100 | G's |
| Max | Time | Min | Time |
| 31.0 | 59.4 | -2.0 | 20.0 |



| Curve Description | | | |
|----------------------------|------|-----------|-------|
| Driver Lower Rib Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 014 | FIR | FIR100 | G's |
| Max | Time | Min | Time |
| 28.1 | 56.3 | -5.3 | 76.9 |



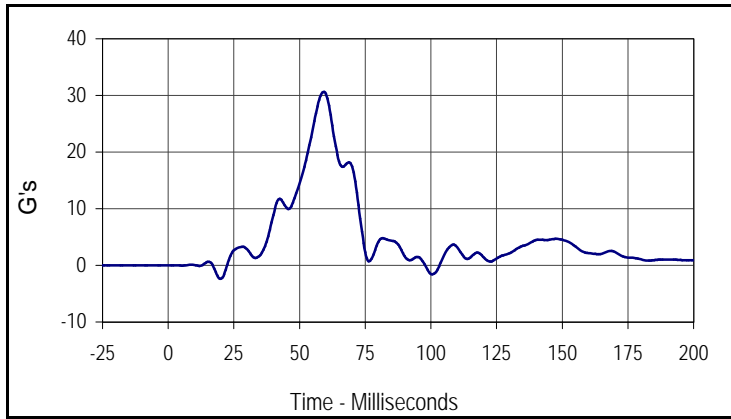
| Curve Description | | | |
|------------------------------|------|-----------|-------|
| Driver Lower Spine Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 015 | FIR | FIR100 | G's |
| Max | Time | Min | Time |
| 29.8 | 49.4 | -4.2 | 72.5 |



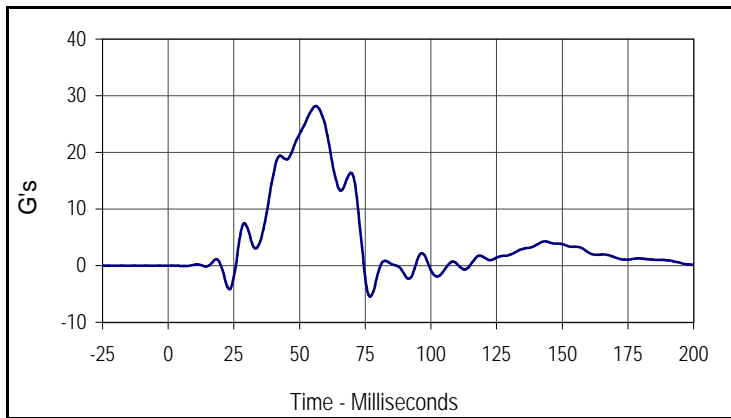
| Curve Description | | | |
|-------------------------|------|-----------|-------|
| Driver Pelvis Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 016 | FIR | FIR100 | G's |
| Max | Time | Min | Time |
| 32.3 | 46.9 | -7.1 | 65.0 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

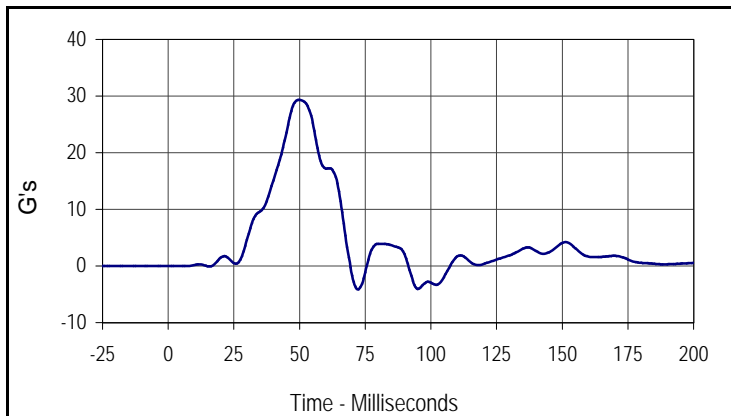
Test Date: 3/17/05
 NHTSA No.: M55209



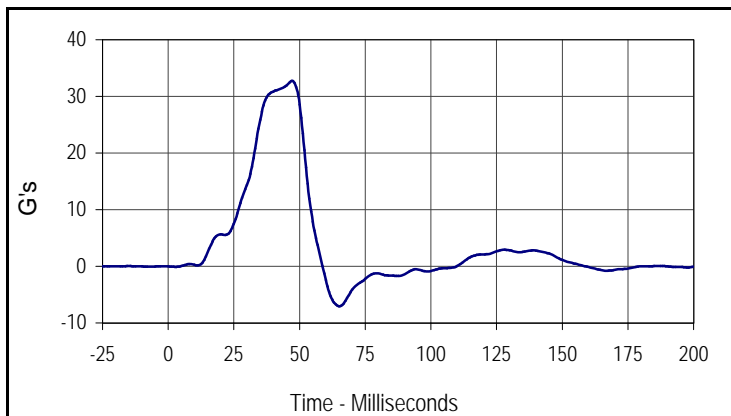
| Curve Description | | | |
|------------------------------|------|-----------|-------|
| Driver Upper Rib Redundant Y | | | |
| CURNO | Type | SAE Class | Units |
| 017 | FIR | FIR100 | G's |
| Max | Time | Min | Time |
| 30.6 | 59.4 | -2.4 | 20.0 |



| Curve Description | | | |
|------------------------------|------|-----------|-------|
| Driver Lower Rib Redundant Y | | | |
| CURNO | Type | SAE Class | Units |
| 018 | FIR | FIR100 | G's |
| Max | Time | Min | Time |
| 28.2 | 56.3 | -5.5 | 76.9 |



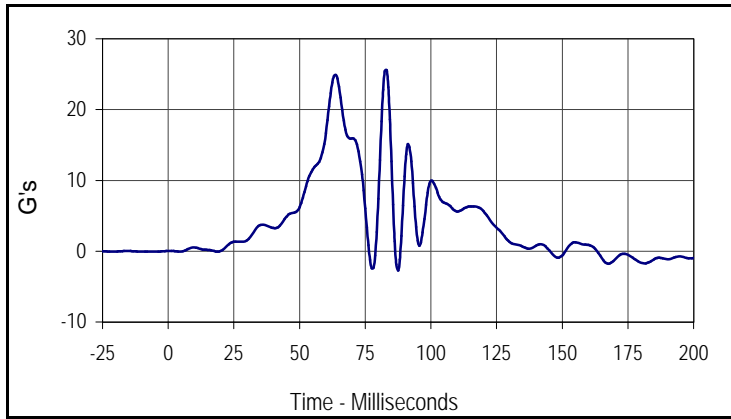
| Curve Description | | | |
|--------------------------------|------|-----------|-------|
| Driver Lower Spine Redundant Y | | | |
| CURNO | Type | SAE Class | Units |
| 019 | FIR | FIR100 | G's |
| Max | Time | Min | Time |
| 29.3 | 50.0 | -4.1 | 72.5 |



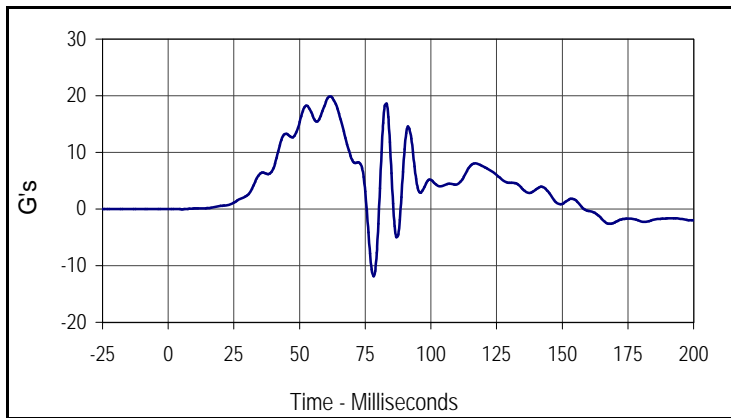
| Curve Description | | | |
|---------------------------|------|-----------|-------|
| Driver Pelvis Redundant Y | | | |
| CURNO | Type | SAE Class | Units |
| 020 | FIR | FIR100 | G's |
| Max | Time | Min | Time |
| 32.7 | 47.5 | -7.0 | 65.0 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

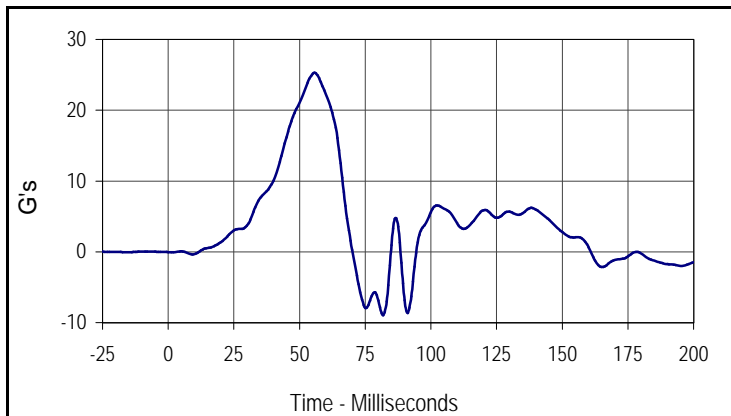
Test Date: 3/17/05
 NHTSA No.: M55209



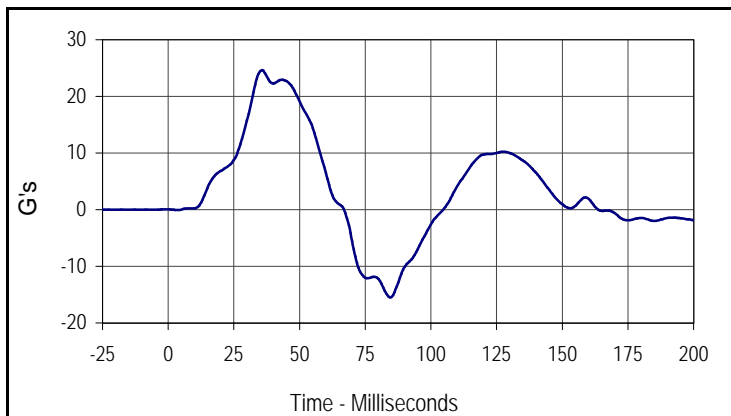
| Curve Description | | | |
|-------------------------------|------|-----------|-------|
| Passenger Upper Rib Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 035 | FIR | FIR100 | G's |
| Max | Time | Min | Time |
| 25.6 | 83.1 | -2.7 | 87.5 |



| Curve Description | | | |
|-------------------------------|------|-----------|-------|
| Passenger Lower Rib Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 036 | FIR | FIR100 | G's |
| Max | Time | Min | Time |
| 19.9 | 61.9 | -11.9 | 78.1 |



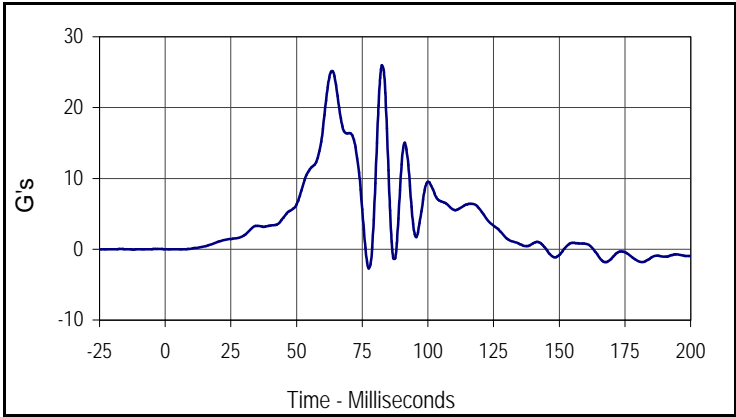
| Curve Description | | | |
|---------------------------------|------|-----------|-------|
| Passenger Lower Spine Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 037 | FIR | FIR100 | G's |
| Max | Time | Min | Time |
| 25.3 | 55.6 | -8.9 | 81.9 |



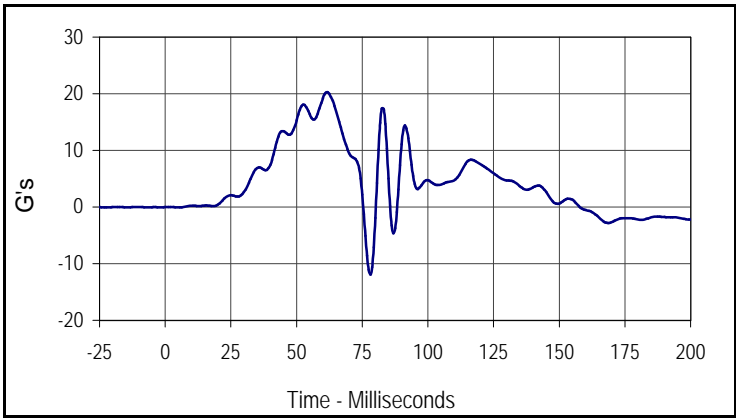
| Curve Description | | | |
|----------------------------|------|-----------|-------|
| Passenger Pelvis Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 038 | FIR | FIR100 | G's |
| Max | Time | Min | Time |
| 24.7 | 35.6 | -15.5 | 84.4 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

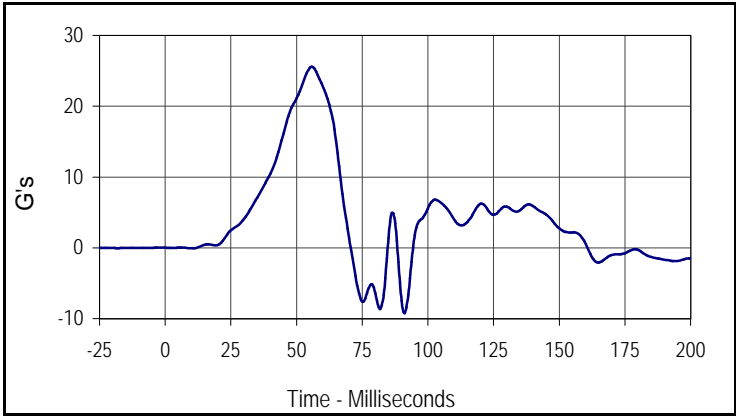
Test Date: 3/17/05
 NHTSA No.: M55209



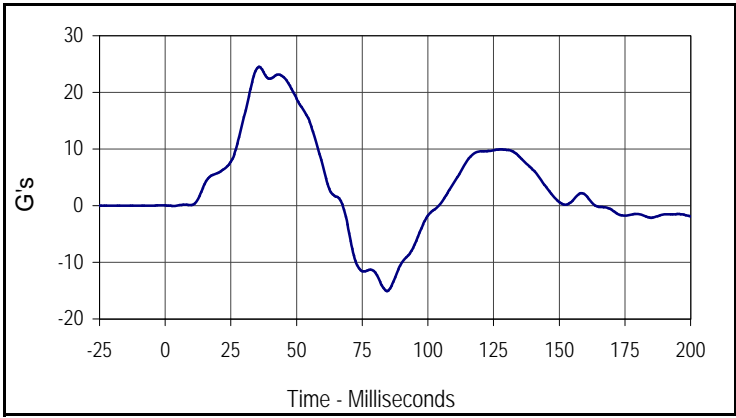
| Curve Description | | | |
|---------------------------------|------|-----------|-------|
| Passenger Upper Rib Redundant Y | | | |
| CURNO | Type | SAE Class | Units |
| 039 | FIR | FIR100 | G's |
| Max | Time | Min | Time |
| 26.0 | 82.5 | -2.7 | 77.5 |



| Curve Description | | | |
|---------------------------------|------|-----------|-------|
| Passenger Lower Rib Redundant Y | | | |
| CURNO | Type | SAE Class | Units |
| 040 | FIR | FIR100 | G's |
| Max | Time | Min | Time |
| 20.3 | 61.9 | -11.9 | 78.1 |



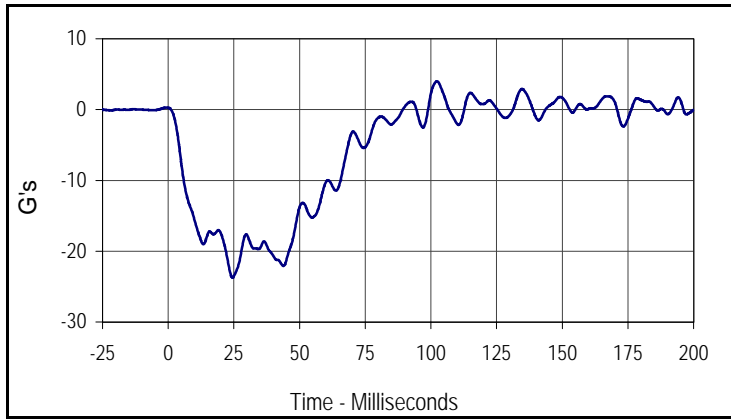
| Curve Description | | | |
|-----------------------------------|------|-----------|-------|
| Passenger Lower Spine Redundant Y | | | |
| CURNO | Type | SAE Class | Units |
| 041 | FIR | FIR100 | G's |
| Max | Time | Min | Time |
| 25.6 | 55.6 | -9.2 | 91.3 |



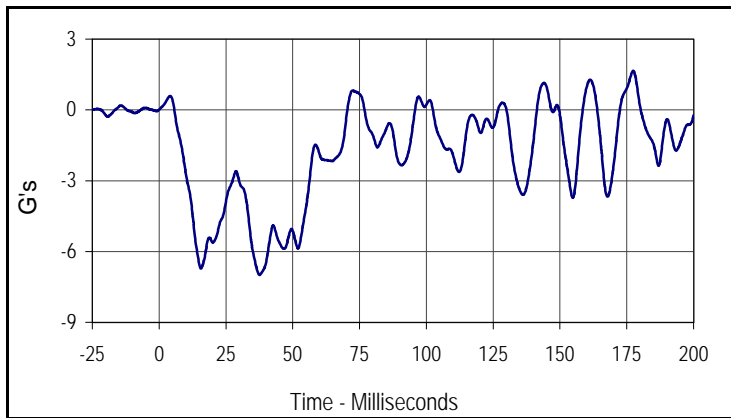
| Curve Description | | | |
|------------------------------|------|-----------|-------|
| Passenger Pelvis Redundant Y | | | |
| CURNO | Type | SAE Class | Units |
| 042 | FIR | FIR100 | G's |
| Max | Time | Min | Time |
| 24.5 | 35.6 | -15.1 | 84.4 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

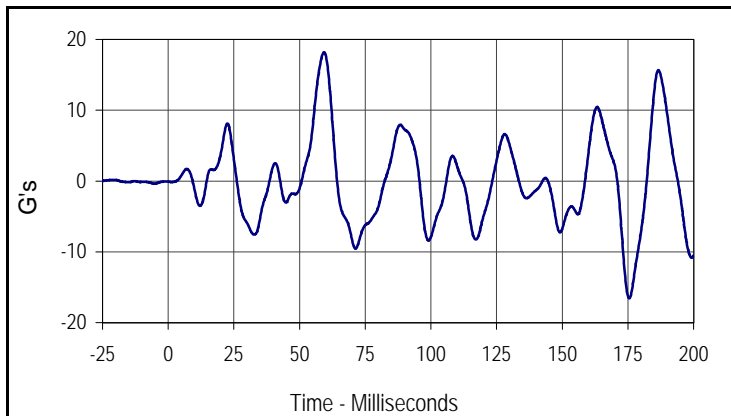
Test Date: 3/17/05
 NHTSA No.: M55209



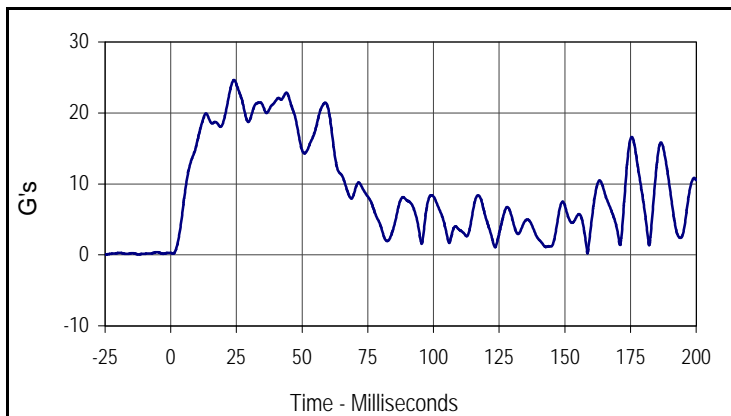
| Curve Description | | | |
|-------------------|-------|-----------|-------|
| MDB CG X | | | |
| CURNO | Type | SAE Class | Units |
| 071 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 4.0 | 102.3 | -23.7 | 24.5 |



| Curve Description | | | |
|-------------------|-------|-----------|-------|
| MDB CG Y | | | |
| CURNO | Type | SAE Class | Units |
| 072 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 1.7 | 177.4 | -7.0 | 37.6 |



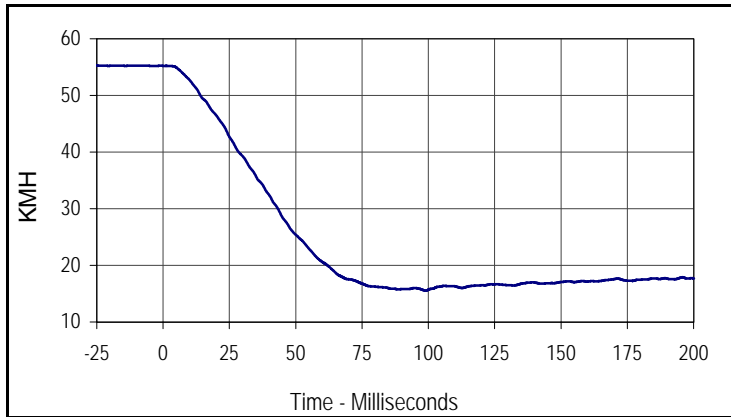
| Curve Description | | | |
|-------------------|------|-----------|-------|
| MDB CG Z | | | |
| CURNO | Type | SAE Class | Units |
| 073 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 18.2 | 59.3 | -16.6 | 175.5 |



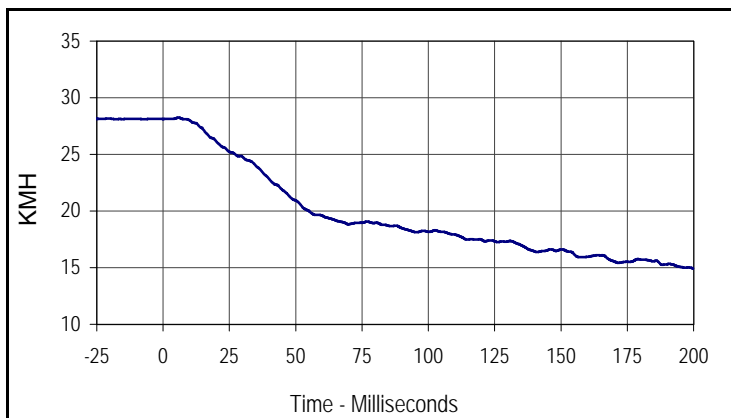
| Curve Description | | | |
|-------------------|------|-----------|-------|
| MDB CG Resultant | | | |
| CURNO | Type | SAE Class | Units |
| 071 | RES | 60 | G's |
| Max | Time | Min | Time |
| 24.6 | 24.1 | 0.2 | 0.9 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

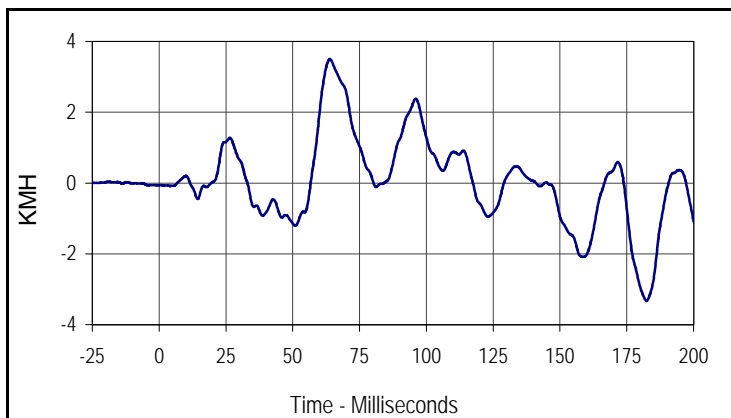
Test Date: 3/17/05
 NHTSA No.: M55209



| Curve Description | | | |
|-------------------|------|-----------|-------|
| MDB CG X Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 071 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 55.2 | 1.2 | 15.5 | 99.0 |



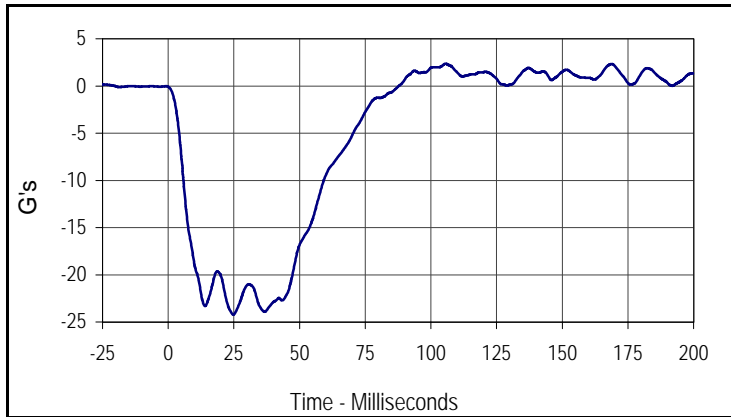
| Curve Description | | | |
|-------------------|------|-----------|-------|
| MDB CG Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 072 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 28.3 | 5.8 | 14.9 | 200.0 |



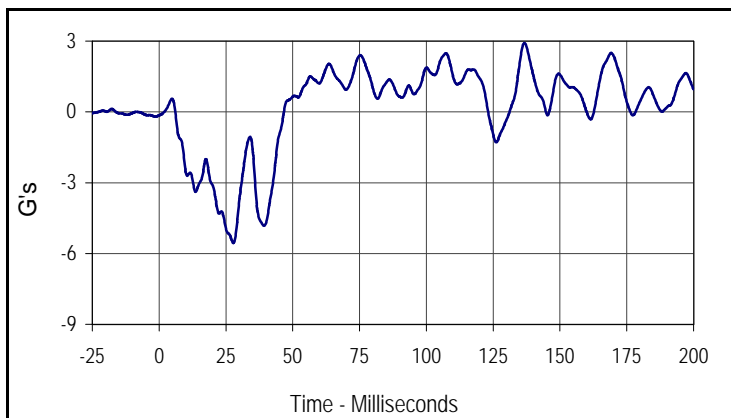
| Curve Description | | | |
|-------------------|------|-----------|-------|
| MDB CG Z Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 073 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 3.5 | 63.9 | -3.3 | 182.4 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

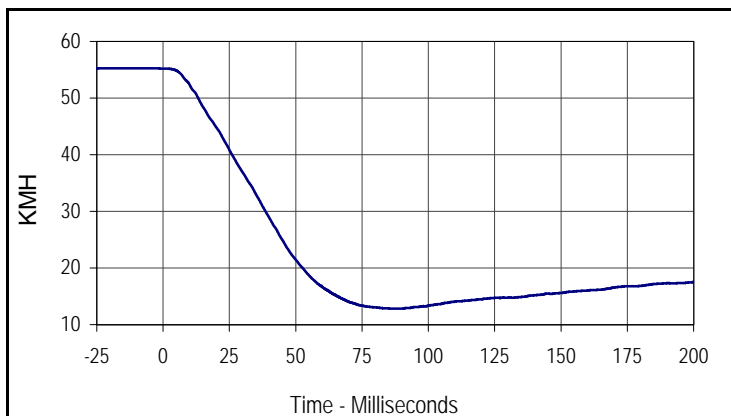
Test Date: 3/17/05
 NHTSA No.: M55209



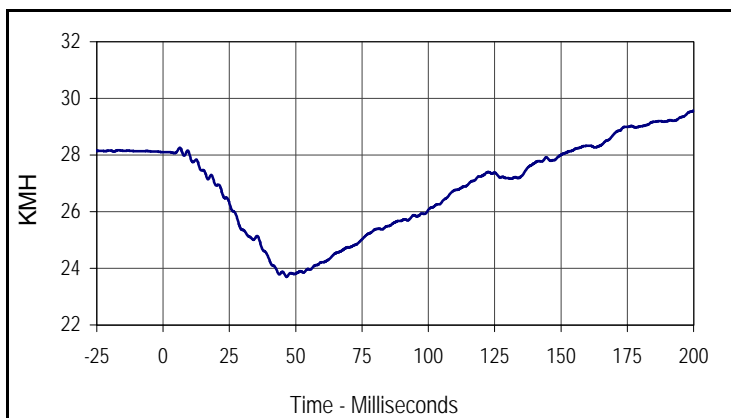
| Curve Description | | | |
|-------------------|-------|-----------|-------|
| MDB Rear X | | | |
| CURNO | Type | SAE Class | Units |
| 074 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 2.4 | 105.5 | -24.2 | 24.8 |



| Curve Description | | | |
|-------------------|-------|-----------|-------|
| MDB Rear Y | | | |
| CURNO | Type | SAE Class | Units |
| 075 | FIL | 60 | G's |
| Max | Time | Min | Time |
| 2.9 | 136.7 | -5.6 | 27.8 |



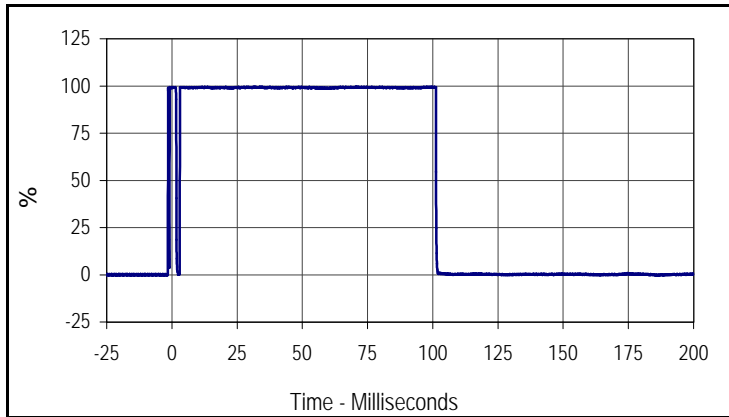
| Curve Description | | | |
|---------------------|------|-----------|-------|
| MDB Rear X Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 074 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 55.2 | 0.0 | 12.8 | 89.9 |



| Curve Description | | | |
|---------------------|-------|-----------|-------|
| MDB Rear Y Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 075 | IN1 | 180 | KMH |
| Max | Time | Min | Time |
| 29.6 | 200.0 | 23.7 | 46.6 |

Test Vehicle: 2005 Nissan Xterra 5-Door MPV
 Test Program: 55/28 km/h Side Impact NCAP

Test Date: 3/17/05
 NHTSA No.: M55209



| Curve Description | | | |
|--------------------------|------|-----------|-------|
| MDB Right Bumper Contact | | | |
| CURNO | Type | SAE Class | Units |
| 076 | FIL | 1000 | % |
| Max | Time | Cross % | Time |
| 99.7 | 70.6 | 50.0 | 3.1 |

APPENDIX C

SID/HIII CONFIGURATION AND PERFORMANCE VERIFICATION DATA

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

Test Program: SID / HIII External Measurements

Test Date: 3/3/05

ATD Serial No.: 274

Test I.D.: N/A



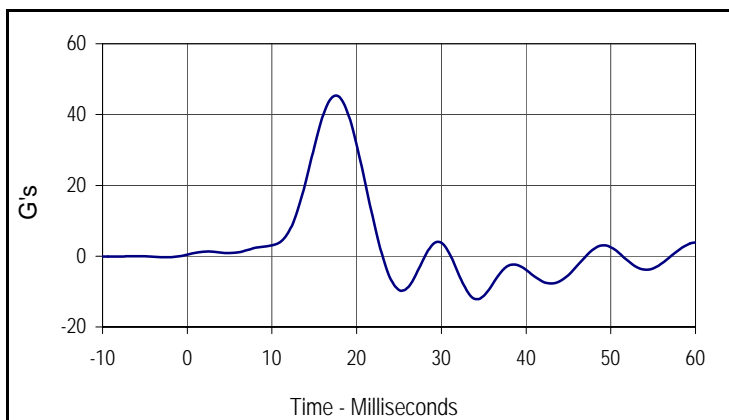
| Tested Parameter | Units | Specification | Result | Pass/Fail |
|-------------------------------|-------|----------------|--------|-----------|
| Laboratory Temperature | °C | 18.9 to 25.6 | 21.1 | Pass |
| Laboratory Relative Humidity | % | 10 to 70 | 30 | Pass |
| SH- Seated Height | mm | 889 to 909 | 900 | Pass |
| HP- Hip Point Height | mm | 99 (reference) | 99 | Pass |
| RH- Rib Height | mm | 502 to 520 | 515 | Pass |
| KH- Knee Pivot From Back Line | mm | 511 to 526 | 516 | Pass |
| KV- Knee Pivot From Floor | mm | 490 to 505 | 502 | Pass |
| HW- Hip Width | mm | 356 to 391 | 377 | Pass |
| Overall Test Results | | | | Pass |

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

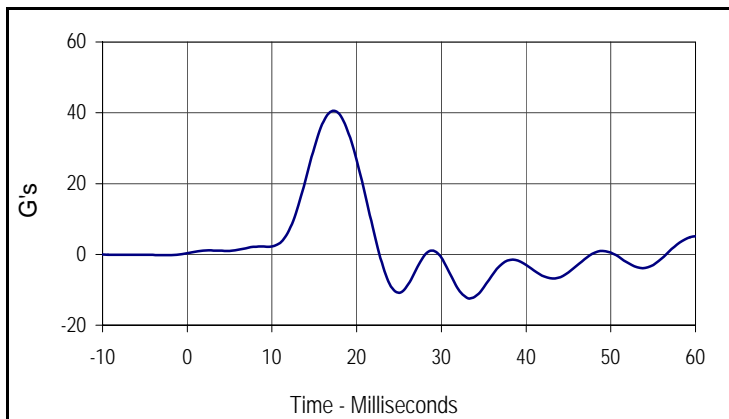
Test Date: 3/1/05
 Test I.D.: TH03A



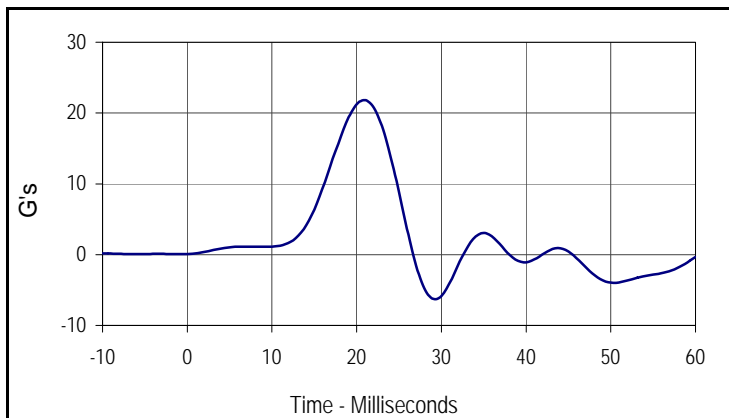
| Tested Parameter | Units | Specification | Result | Pass/Fail |
|------------------------------|-------|---------------|--------|-----------|
| Laboratory Temperature | °C | 18.9 to 25.6 | 21.1 | Pass |
| Laboratory Relative Humidity | % | 10 to 70 | 30 | Pass |
| Probe Velocity | m/s | 4.21 to 4.33 | 4.29 | Pass |
| Upper Rib Acceleration | G's | 37.0 to 46.0 | 45.4 | Pass |
| Lower Rib Acceleration | G's | 37.0 to 46.0 | 40.4 | Pass |
| Thoracic Spine Acceleration | G's | 15.0 to 22.0 | 21.8 | Pass |
| Overall Test Results | | | Pass | |



| Curve Description | | | |
|-------------------|------|-----------|-------|
| Upper Rib Primary | | | |
| CURNO | Type | SAE Class | Units |
| 001 | FIL | FIR100 | G's |
| Max | Time | Min | Time |
| 45.4 | 17.5 | -12.2 | 34.4 |



| Curve Description | | | |
|-------------------|------|-----------|-------|
| Lower Rib Primary | | | |
| CURNO | Type | SAE Class | Units |
| 002 | FIL | FIR100 | G's |
| Max | Time | Min | Time |
| 40.4 | 17.5 | -12.4 | 33.1 |



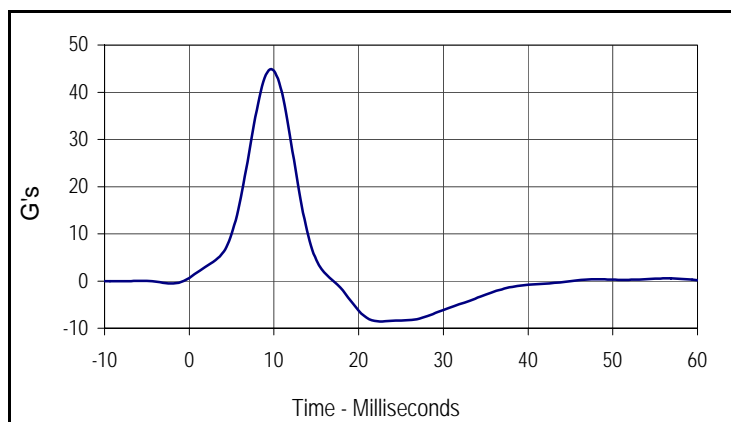
| Curve Description | | | |
|---------------------|------|-----------|-------|
| Lower Spine Primary | | | |
| CURNO | Type | SAE Class | Units |
| 003 | FIL | FIR100 | G's |
| Max | Time | Min | Time |
| 21.8 | 20.6 | -6.3 | 29.4 |

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

Test Date: 3/1/05
 Test I.D.: PI03A



| Tested Parameter | Units | Specification | Result | Pass/Fail |
|--------------------------------|-------|---------------|--------|-----------|
| Laboratory Temperature | °C | 18.9 to 25.6 | 21.1 | Pass |
| Laboratory Relative Humidity | % | 10 to 70 | 30 | Pass |
| Probe Velocity | m/s | 4.21 to 4.33 | 4.24 | Pass |
| Peak Pelvis Acceleration | G's | 40.0 to 60.0 | 44.7 | Pass |
| Acceleration Time Above 20 G's | Msec. | 3.0 to 7.0 | 6.25 | Pass |
| Overall Test Results | | | | Pass |



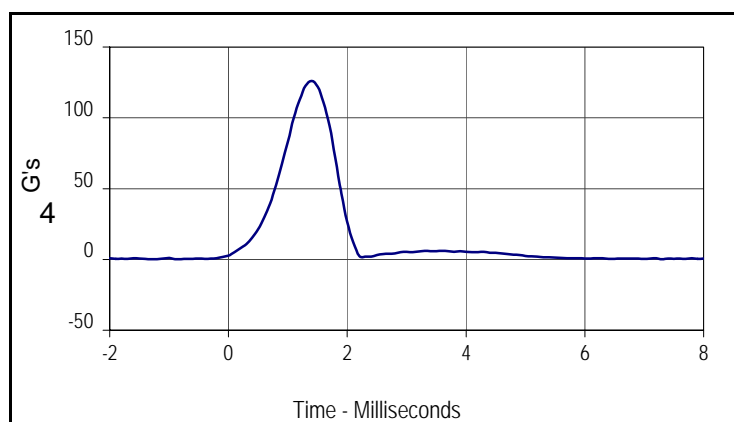
| Curve Description | | | |
|-------------------|------|-----------|-------|
| Pelvis Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 001 | FIL | FIR100 | G's |
| Max | Time | Min | Time |
| 44.7 | 9.4 | -8.6 | 22.5 |

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

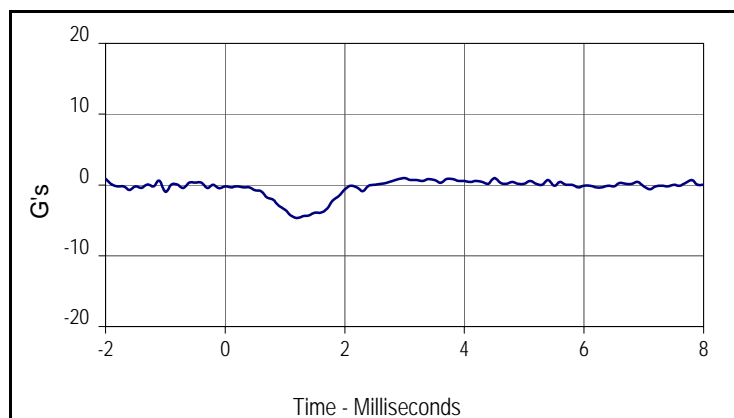
Test Date: 3/2/05
 Test I.D.: HD03A



| Tested Parameter | Units | Specification | Result | Pass/Fail |
|--------------------------------|--------|----------------|--------|-------------|
| Laboratory Temperature | °C | 18.9 to 25.6 | 21.1 | Pass |
| Laboratory Relative Humidity | % | 10 to 70 | 30 | Pass |
| Peak Resultant Acceleration | G's | 120.0 to 150.0 | 126.0 | Pass |
| Peak Longitudinal Acceleration | G's | ≤15.0 | 4.7 | Pass |
| Is Acceleration Unimodal? | Yes/No | Yes | Yes | Pass |
| Oscillations After Main Pulse | % | <15 | 2.0 | Pass |
| Overall Test Results | | | | Pass |



| Curve Description | | | |
|-------------------|------|-----------|-------|
| Head Resultant | | | |
| CURNO | Type | SAE Class | Units |
| 001 | RES | 1000 | G's |
| Max | Time | Min | Time |
| 126.0 | 1.4 | 0.1 | -0.8 |



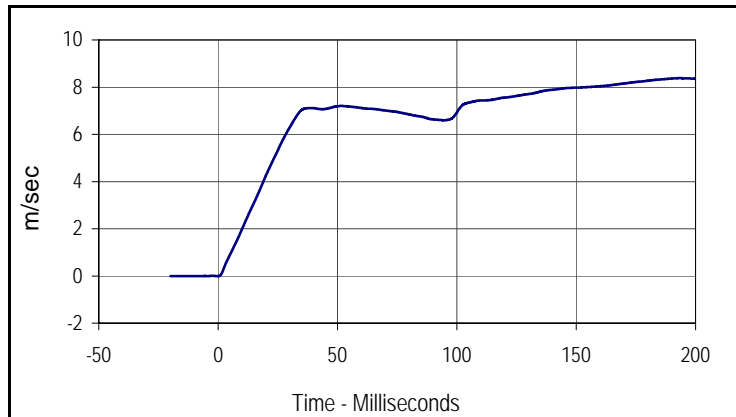
| Curve Description | | | |
|-------------------|------|-----------|-------|
| Head X | | | |
| CURNO | Type | SAE Class | Units |
| 002 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 1.0 | 3.0 | -4.7 | 1.2 |

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

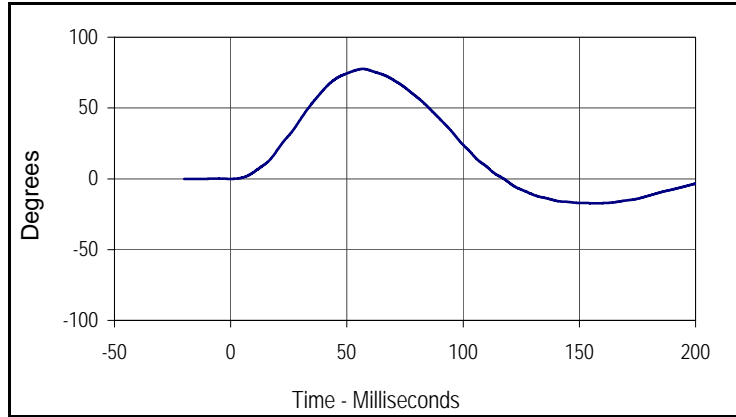
Test Date: 3/2/05
 Test I.D.: NB03A



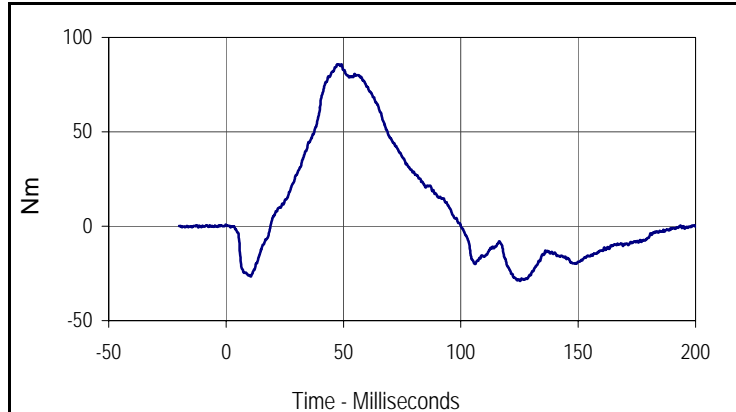
| Tested Parameter | Units | Specification | Result | Pass/Fail | |
|---------------------------------------|----------|---------------|--------------|-----------|------|
| Laboratory Temperature | °C | 20.6 to 22.2 | 21.1 | Pass | |
| Laboratory Relative Humidity | % | 10 to 70 | 30 | Pass | |
| Pendulum Velocity | m/sec | 6.89 to 7.13 | 7.06 | Pass | |
| Pendulum Deceleration | 10 Msec. | m/sec | 1.96 to 2.55 | 1.99 | Pass |
| | 20 Msec. | m/sec | 4.12 to 5.10 | 4.25 | Pass |
| | 30 Msec. | m/sec | 5.73 to 7.01 | 6.30 | Pass |
| | 40 to 70 | m/sec | 6.27 to 7.64 | 7.20 | Pass |
| "D" Plane Rotation | Max | Degrees | 66.0 to 82.0 | 77.6 | Pass |
| Max Rotation Time After Peak Moment | Msec. | 2.0 to 16.0 | 7.6 | Pass | |
| Rotation Time From Peak to Zero Angle | Msec. | 58.0 to 67.0 | 60.7 | Pass | |
| Moment About Occipital Condyle | Nm | 73.0 to 88.0 | 85.8 | Pass | |
| Positive Moment Decay, Time To 0 Nm | Msec. | 49.0 to 64.0 | 50.9 | Pass | |
| Overall Test Results | | | | Pass | |



| Curve Description | | | |
|-------------------|-------|-----------|-------|
| Pendulum Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 001 | FIL | 180 | m/sec |
| Max | Time | Min | Time |
| 8.4 | 193.4 | 0.0 | 0.0 |



| Curve Description | | | |
|--------------------|------|-----------|---------|
| "D" Plane Rotation | | | |
| CURNO | Type | SAE Class | Units |
| 003 | FIL | 60 | Degrees |
| Max | Time | Min | Time |
| 77.6 | 56.8 | -17.3 | 157.2 |



| Curve Description | | | |
|--------------------------------|------|-----------|-------|
| Moment About Occipital Condyle | | | |
| CURNO | Type | SAE Class | Units |
| 004 | FIL | 600 | Nm |
| Max | Time | Min | Time |
| 85.8 | 49.2 | -29.0 | 125.3 |

Test Program: SID / HIII External Measurements

Test Date: 3/3/05

ATD Serial No.: 275

Test I.D.: N/A



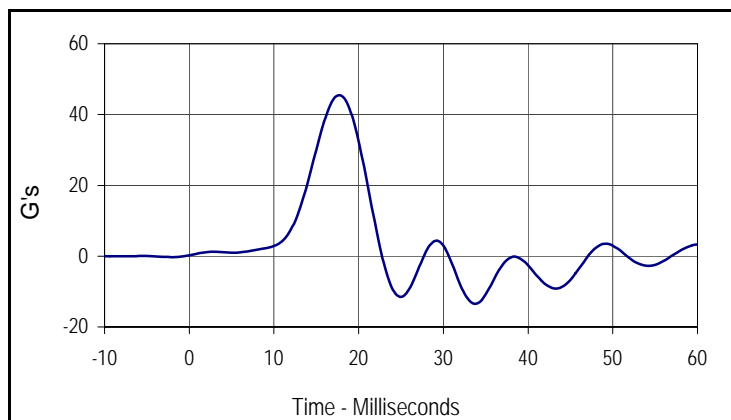
| Tested Parameter | Units | Specification | Result | Pass/Fail |
|-------------------------------|-------|----------------|--------|-----------|
| Laboratory Temperature | °C | 18.9 to 25.6 | 21.1 | Pass |
| Laboratory Relative Humidity | % | 10 to 70 | 30 | Pass |
| SH- Seated Height | mm | 889 to 909 | 895 | Pass |
| HP- Hip Point Height | mm | 99 (reference) | 99 | Pass |
| RH- Rib Height | mm | 502 to 520 | 505 | Pass |
| KH- Knee Pivot From Back Line | mm | 511 to 526 | 521 | Pass |
| KV- Knee Pivot From Floor | mm | 490 to 505 | 498 | Pass |
| HW- Hip Width | mm | 356 to 391 | 384 | Pass |
| Overall Test Results | | | | Pass |

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

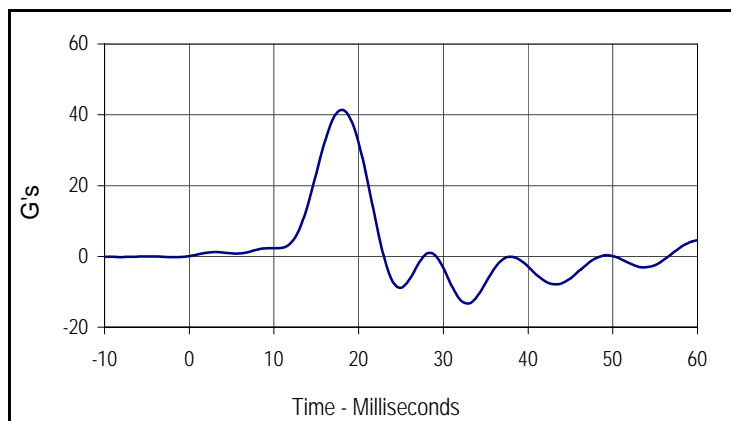
Test Date: 3/1/05
 Test I.D.: TH03B



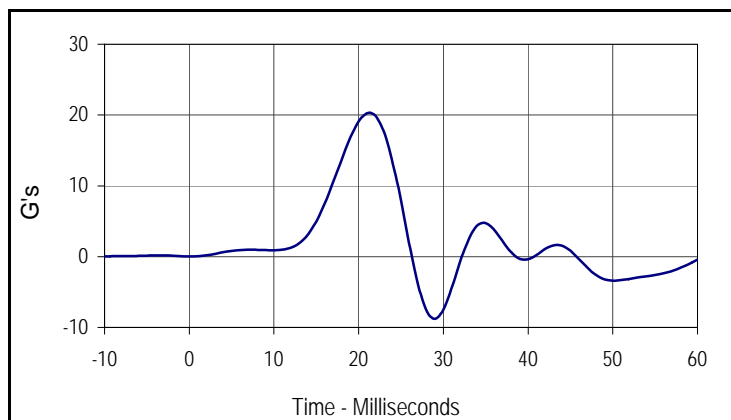
| Tested Parameter | Units | Specification | Result | Pass/Fail |
|------------------------------|-------|---------------|--------|-----------|
| Laboratory Temperature | °C | 18.9 to 25.6 | 21.1 | Pass |
| Laboratory Relative Humidity | % | 10 to 70 | 30 | Pass |
| Probe Velocity | m/s | 4.21 to 4.33 | 4.30 | Pass |
| Upper Rib Acceleration | G's | 37.0 to 46.0 | 45.3 | Pass |
| Lower Rib Acceleration | G's | 37.0 to 46.0 | 41.3 | Pass |
| Thoracic Spine Acceleration | G's | 15.0 to 22.0 | 20.3 | Pass |
| Overall Test Results | | | Pass | |



| Curve Description | | | |
|-------------------|------|-----------|-------|
| Upper Rib Primary | | | |
| CURNO | Type | SAE Class | Units |
| 001 | FIL | FIR100 | G's |
| Max | Time | Min | Time |
| 45.3 | 17.5 | -13.5 | 33.8 |



| Curve Description | | | |
|-------------------|------|-----------|-------|
| Lower Rib Primary | | | |
| CURNO | Type | SAE Class | Units |
| 002 | FIL | FIR100 | G's |
| Max | Time | Min | Time |
| 41.3 | 18.1 | -13.2 | 33.1 |



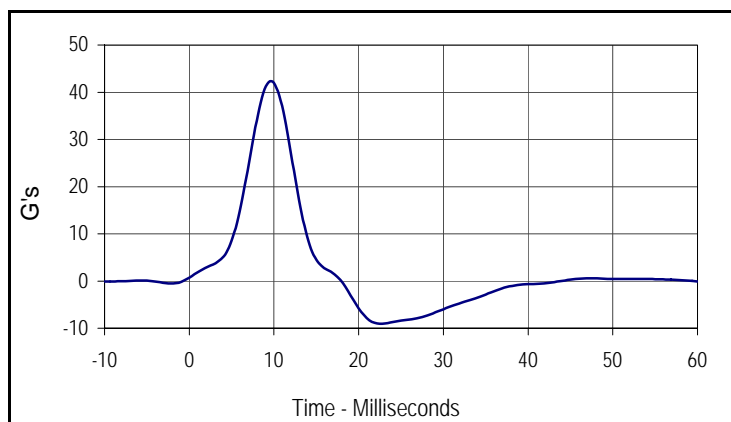
| Curve Description | | | |
|---------------------|------|-----------|-------|
| Lower Spine Primary | | | |
| CURNO | Type | SAE Class | Units |
| 003 | FIL | FIR100 | G's |
| Max | Time | Min | Time |
| 20.3 | 21.3 | -8.7 | 28.8 |

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

Test Date: 3/1/05
 Test I.D.: PI03B



| Tested Parameter | Units | Specification | Result | Pass/Fail |
|--------------------------------|-------|---------------|--------|-----------|
| Laboratory Temperature | °C | 18.9 to 25.6 | 21.1 | Pass |
| Laboratory Relative Humidity | % | 10 to 70 | 30 | Pass |
| Probe Velocity | m/s | 4.21 to 4.33 | 4.27 | Pass |
| Peak Pelvis Acceleration | G's | 40.0 to 60.0 | 42.2 | Pass |
| Acceleration Time Above 20 G's | Msec. | 3.0 to 7.0 | 6.25 | Pass |
| Overall Test Results | | | | Pass |



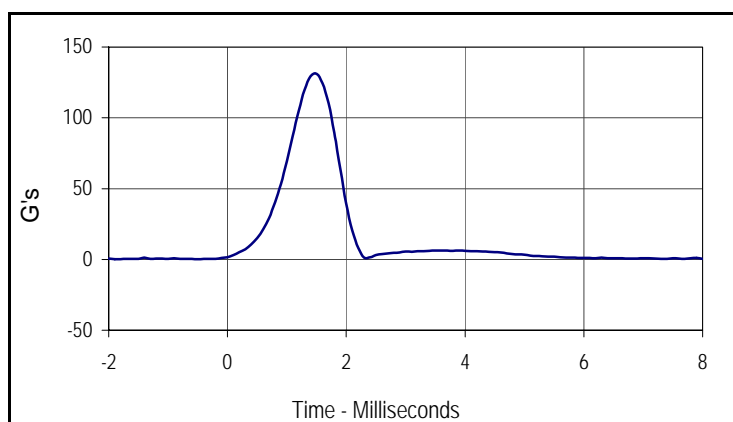
| Curve Description | | | |
|-------------------|------|-----------|-------|
| Pelvis Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 001 | FIL | FIR100 | G's |
| Max | Time | Min | Time |
| 42.2 | 9.4 | -9.0 | 22.5 |

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

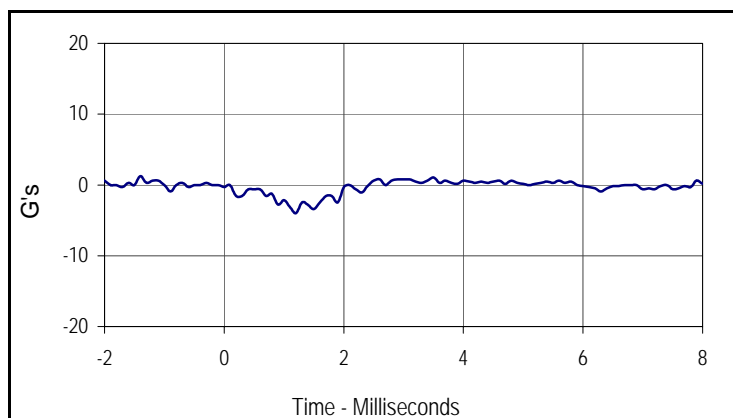
Test Date: 3/2/05
 Test I.D.: HD03B



| Tested Parameter | Units | Specification | Result | Pass/Fail |
|--------------------------------|--------|----------------|--------|-----------|
| Laboratory Temperature | °C | 18.9 to 25.6 | 21.1 | Pass |
| Laboratory Relative Humidity | % | 10 to 70 | 30 | Pass |
| Peak Resultant Acceleration | G's | 120.0 to 150.0 | 131.0 | Pass |
| Peak Longitudinal Acceleration | G's | ≤15.0 | 4.0 | Pass |
| Is Acceleration Unimodal? | Yes/No | Yes | Yes | Pass |
| Oscillations After Main Pulse | % | <15 | 2.5 | Pass |
| Overall Test Results | | | Pass | Pass |



| Curve Description | | | |
|-------------------|------|-----------|-------|
| Head Resultant | | | |
| CURNO | Type | SAE Class | Units |
| 001 | RES | 1000 | G's |
| Max | Time | Min | Time |
| 131.0 | 1.5 | 0.1 | -0.5 |



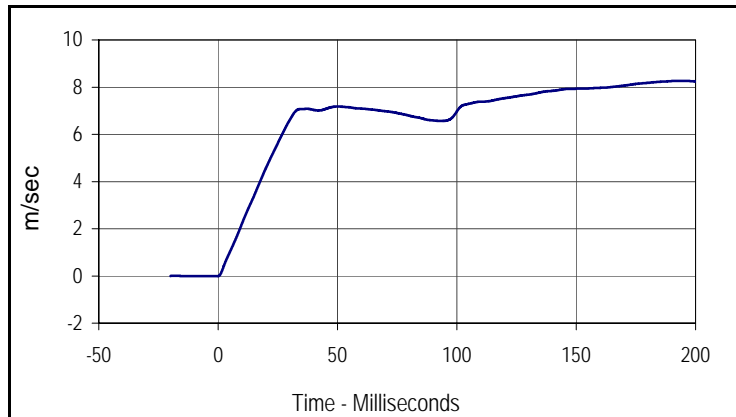
| Curve Description | | | |
|-------------------|------|-----------|-------|
| Head X | | | |
| CURNO | Type | SAE Class | Units |
| 002 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 1.2 | -1.4 | -4.0 | 1.2 |

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

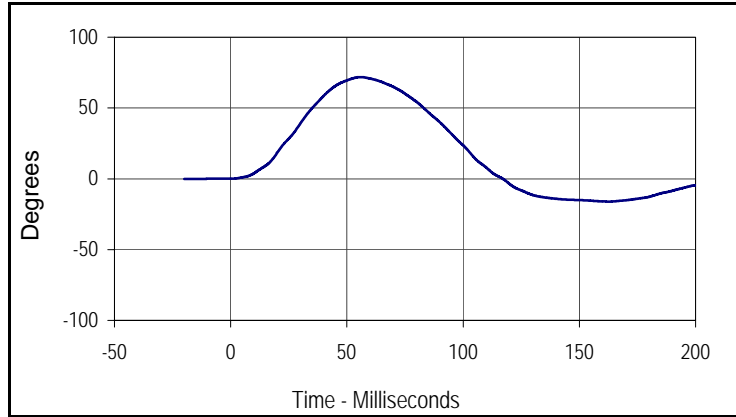
Test Date: 3/2/05
 Test I.D.: NB03B



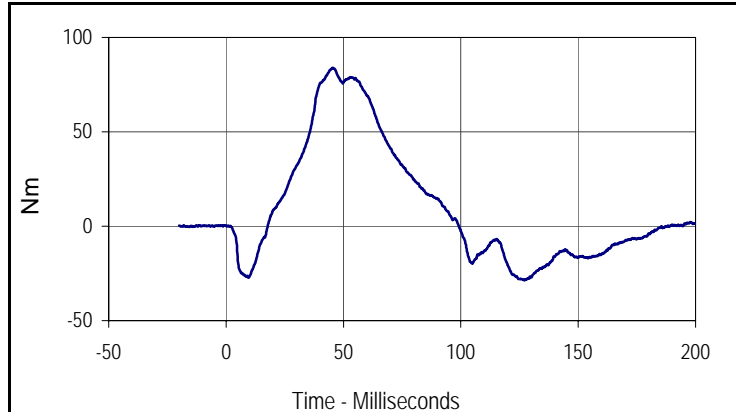
| Tested Parameter | Units | Specification | Result | Pass/Fail | |
|---------------------------------------|----------|---------------|--------------|-----------|------|
| Laboratory Temperature | °C | 20.6 to 22.2 | 21.1 | Pass | |
| Laboratory Relative Humidity | % | 10 to 70 | 30 | Pass | |
| Pendulum Velocity | m/sec | 6.89 to 7.13 | 7.06 | Pass | |
| Pendulum Deceleration | 10 Msec. | m/sec | 1.96 to 2.55 | 2.23 | Pass |
| | 20 Msec. | m/sec | 4.12 to 5.10 | 4.57 | Pass |
| | 30 Msec. | m/sec | 5.73 to 7.01 | 6.61 | Pass |
| | 40 to 70 | m/sec | 6.27 to 7.64 | 7.18 | Pass |
| "D" Plane Rotation | Max | Degrees | 66.0 to 82.0 | 71.9 | Pass |
| Max Rotation Time After Peak Moment | Msec. | 2.0 to 16.0 | 10.5 | Pass | |
| Rotation Time From Peak to Zero Angle | Msec. | 58.0 to 67.0 | 61.2 | Pass | |
| Moment About Occipital Condyle | Nm | 73.0 to 88.0 | 83.8 | Pass | |
| Positive Moment Decay, Time To 0 Nm | Msec. | 49.0 to 64.0 | 53.8 | Pass | |
| Overall Test Results | | | | Pass | |



| Curve Description | | | |
|-------------------|-------|-----------|-------|
| Pendulum Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 001 | FIL | 180 | m/sec |
| Max | Time | Min | Time |
| 8.3 | 192.4 | 0.0 | -0.3 |



| Curve Description | | | |
|--------------------|------|-----------|---------|
| "D" Plane Rotation | | | |
| CURNO | Type | SAE Class | Units |
| 003 | FIL | 60 | Degrees |
| Max | Time | Min | Time |
| 71.9 | 55.9 | -16.1 | 162.7 |



| Curve Description | | | |
|--------------------------------|------|-----------|-------|
| Moment About Occipital Condyle | | | |
| CURNO | Type | SAE Class | Units |
| 004 | FIL | 600 | Nm |
| Max | Time | Min | Time |
| 83.8 | 45.4 | -28.7 | 127.0 |

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

Test Program: SID / HIII External Measurements

Test Date: 3/20/05

ATD Serial No.: 274

Test I.D.: N/A



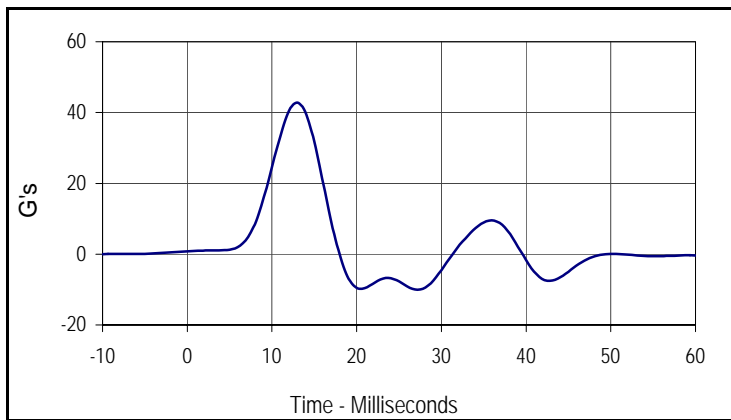
| Tested Parameter | Units | Specification | Result | Pass/Fail |
|-------------------------------|-------|----------------|--------|-----------|
| Laboratory Temperature | °C | 18.9 to 25.6 | 21.1 | Pass |
| Laboratory Relative Humidity | % | 10 to 70 | 30 | Pass |
| SH- Seated Height | mm | 889 to 909 | 900 | Pass |
| HP- Hip Point Height | mm | 99 (reference) | 99 | Pass |
| RH- Rib Height | mm | 502 to 520 | 515 | Pass |
| KH- Knee Pivot From Back Line | mm | 511 to 526 | 518 | Pass |
| KV- Knee Pivot From Floor | mm | 490 to 505 | 496 | Pass |
| HW- Hip Width | mm | 356 to 391 | 380 | Pass |
| Overall Test Results | | | | Pass |

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

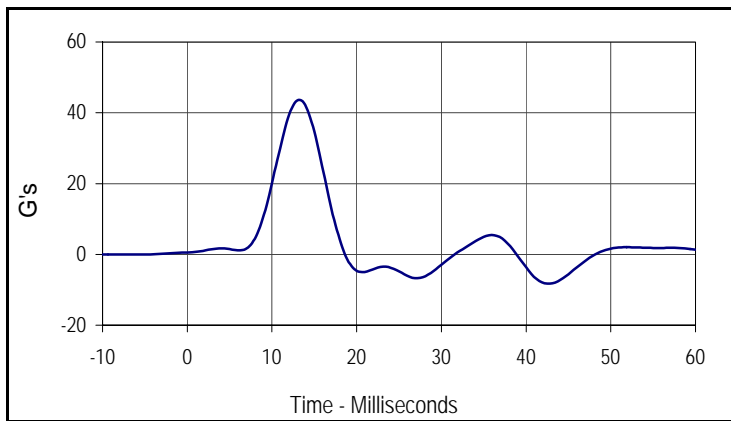
Test Date: 3/18/05
 Test I.D.: TH03D



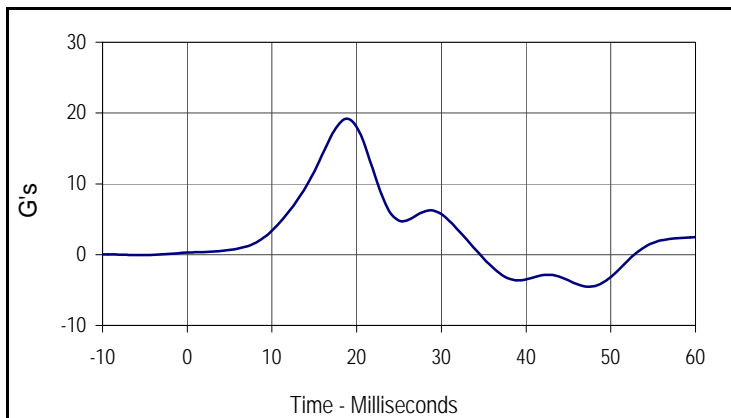
| Tested Parameter | Units | Specification | Result | Pass/Fail |
|------------------------------|-------|---------------|--------|-----------|
| Laboratory Temperature | °C | 18.9 to 25.6 | 21.1 | Pass |
| Laboratory Relative Humidity | % | 10 to 70 | 30 | Pass |
| Probe Velocity | m/s | 4.21 to 4.33 | 4.26 | Pass |
| Upper Rib Acceleration | G's | 37.0 to 46.0 | 42.7 | Pass |
| Lower Rib Acceleration | G's | 37.0 to 46.0 | 43.6 | Pass |
| Thoracic Spine Acceleration | G's | 15.0 to 22.0 | 19.2 | Pass |
| Overall Test Results | | | Pass | |



| Curve Description | | | |
|---------------------|------|-----------|-------|
| Upper Rib Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 001 | FIL | FIR100 | G's |
| Max | Time | Min | Time |
| 42.7 | 13.1 | -10.0 | 27.5 |



| Curve Description | | | |
|---------------------|------|-----------|-------|
| Lower Rib Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 002 | FIL | FIR100 | G's |
| Max | Time | Min | Time |
| 43.6 | 13.1 | -8.3 | 42.5 |



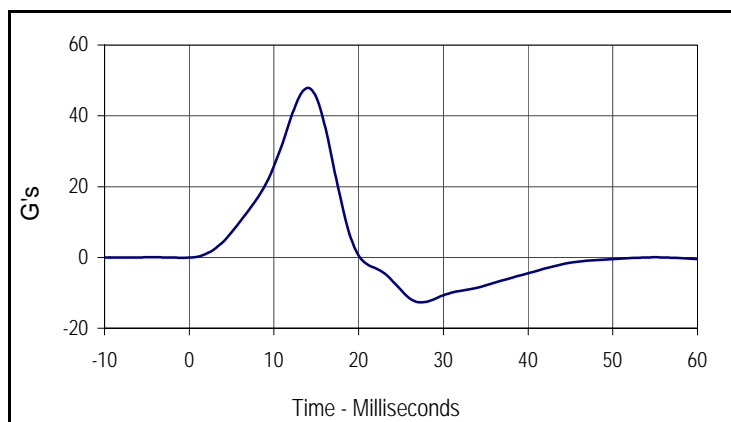
| Curve Description | | | |
|-----------------------|------|-----------|-------|
| Lower Spine Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 003 | FIL | FIR100 | G's |
| Max | Time | Min | Time |
| 19.2 | 18.8 | -4.5 | 47.5 |

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

Test Date: 3/19/05
 Test I.D.: PI03D



| Tested Parameter | Units | Specification | Result | Pass/Fail |
|--------------------------------|-------|---------------|--------|-----------|
| Laboratory Temperature | °C | 18.9 to 25.6 | 21.1 | Pass |
| Laboratory Relative Humidity | % | 10 to 70 | 30 | Pass |
| Probe Velocity | m/s | 4.21 to 4.33 | 4.30 | Pass |
| Peak Pelvis Acceleration | G's | 40.0 to 60.0 | 47.7 | Pass |
| Acceleration Time Above 20 G's | Msec. | 3.0 to 7.0 | 6.90 | Pass |
| Overall Test Results | | | | Pass |



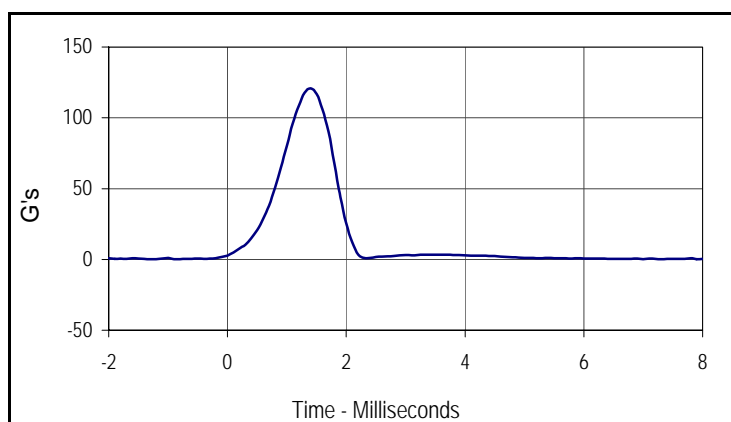
| Curve Description | | | |
|-------------------|------|-----------|-------|
| Pelvis Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 001 | FIL | FIR100 | G's |
| Max | Time | Min | Time |
| 47.7 | 13.8 | -12.7 | 27.5 |

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

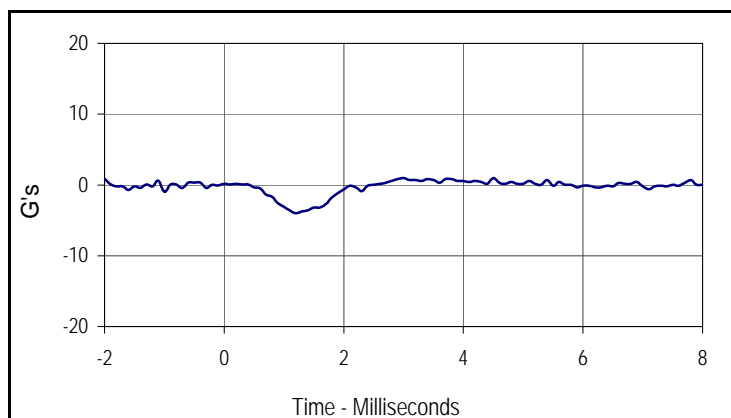
Test Date: 3/20/05
 Test I.D.: HD03D



| Tested Parameter | Units | Specification | Result | Pass/Fail |
|--------------------------------|--------|----------------|--------|-------------|
| Laboratory Temperature | °C | 18.9 to 25.6 | 21.1 | Pass |
| Laboratory Relative Humidity | % | 10 to 70 | 30 | Pass |
| Peak Resultant Acceleration | G's | 120.0 to 150.0 | 120.9 | Pass |
| Peak Longitudinal Acceleration | G's | ≤15.0 | 4.0 | Pass |
| Is Acceleration Unimodal? | Yes/No | Yes | Yes | Pass |
| Oscillations After Main Pulse | % | <15 | 1.0 | Pass |
| Overall Test Results | | | | Pass |



| Curve Description | | | |
|-------------------|------|-----------|-------|
| Head Resultant | | | |
| CURNO | Type | SAE Class | Units |
| 001 | RES | 1000 | G's |
| Max | Time | Min | Time |
| 120.9 | 1.4 | 0.1 | -0.8 |



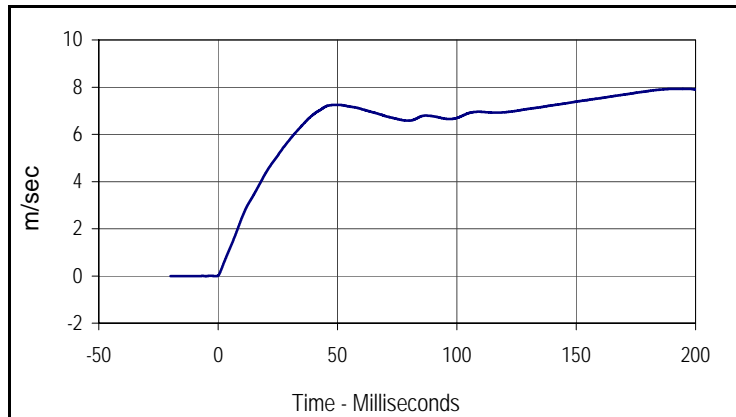
| Curve Description | | | |
|-------------------|------|-----------|-------|
| Head X | | | |
| CURNO | Type | SAE Class | Units |
| 002 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 1.0 | 3.0 | -4.0 | 1.2 |

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

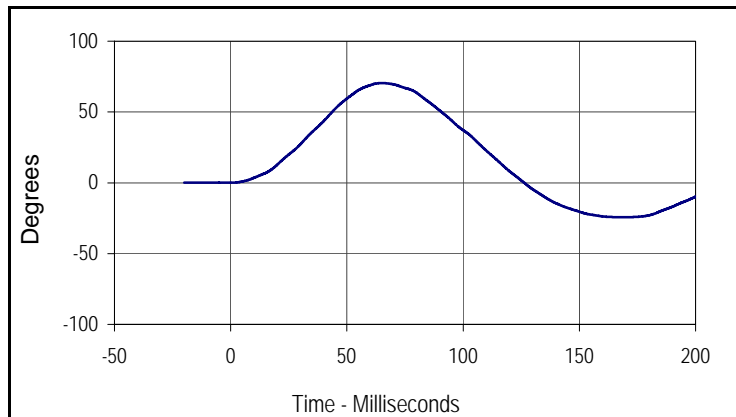
Test Date: 3/19/05
 Test I.D.: NB03D



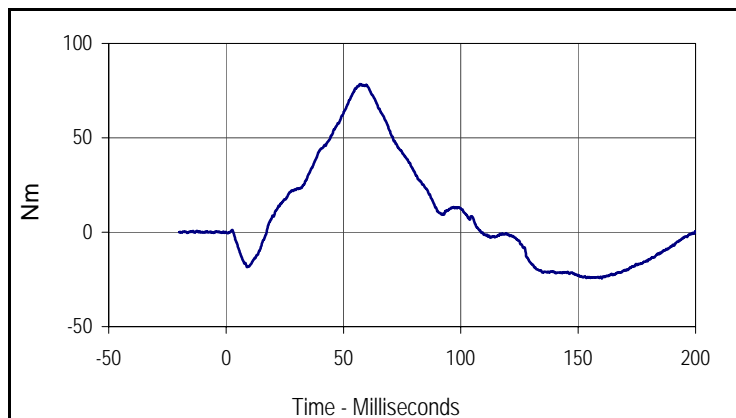
| Tested Parameter | Units | Specification | Result | Pass/Fail | |
|---------------------------------------|----------|---------------|--------------|-----------|------|
| Laboratory Temperature | °C | 20.6 to 22.2 | 21.1 | Pass | |
| Laboratory Relative Humidity | % | 10 to 70 | 30 | Pass | |
| Pendulum Velocity | m/sec | 6.89 to 7.13 | 7.06 | Pass | |
| Pendulum Deceleration | 10 Msec. | m/sec | 1.96 to 2.55 | 2.48 | Pass |
| | 20 Msec. | m/sec | 4.12 to 5.10 | 4.38 | Pass |
| | 30 Msec. | m/sec | 5.73 to 7.01 | 5.78 | Pass |
| | 40 to 70 | m/sec | 6.27 to 7.64 | 7.25 | Pass |
| "D" Plane Rotation | Max | Degrees | 66.0 to 82.0 | 70.4 | Pass |
| Max Rotation Time After Peak Moment | Msec. | 2.0 to 16.0 | 8.1 | Pass | |
| Rotation Time From Peak to Zero Angle | Msec. | 58.0 to 67.0 | 61.2 | Pass | |
| Moment About Occipital Condyle | Nm | 73.0 to 88.0 | 78.5 | Pass | |
| Positive Moment Decay, Time To 0 Nm | Msec. | 49.0 to 64.0 | 51.7 | Pass | |
| Overall Test Results | | | | Pass | |



| Curve Description | | | |
|-------------------|-------|-----------|-------|
| Pendulum Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 001 | FIL | 180 | m/sec |
| Max | Time | Min | Time |
| 7.9 | 192.1 | 0.0 | -0.7 |



| Curve Description | | | |
|--------------------|------|-----------|---------|
| "D" Plane Rotation | | | |
| CURNO | Type | SAE Class | Units |
| 003 | FIL | 60 | Degrees |
| Max | Time | Min | Time |
| 70.4 | 65.1 | -24.3 | 169.4 |



| Curve Description | | | |
|--------------------------------|------|-----------|-------|
| Moment About Occipital Condyle | | | |
| CURNO | Type | SAE Class | Units |
| 004 | FIL | 600 | Nm |
| Max | Time | Min | Time |
| 78.5 | 57.0 | -24.4 | 160.1 |

Test Program: SID / HIII External Measurements

Test Date: 3/20/05

ATD Serial No.: 275

Test I.D.: N/A



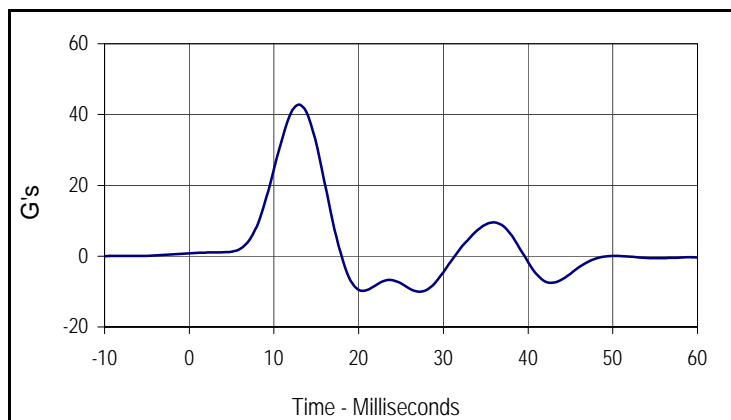
| Tested Parameter | Units | Specification | Result | Pass/Fail |
|-------------------------------|-------|----------------|--------|-----------|
| Laboratory Temperature | °C | 18.9 to 25.6 | 21.1 | Pass |
| Laboratory Relative Humidity | % | 10 to 70 | 30 | Pass |
| SH- Seated Height | mm | 889 to 909 | 893 | Pass |
| HP- Hip Point Height | mm | 99 (reference) | 99 | Pass |
| RH- Rib Height | mm | 502 to 520 | 515 | Pass |
| KH- Knee Pivot From Back Line | mm | 511 to 526 | 521 | Pass |
| KV- Knee Pivot From Floor | mm | 490 to 505 | 496 | Pass |
| HW- Hip Width | mm | 356 to 391 | 385 | Pass |
| Overall Test Results | | | | Pass |

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

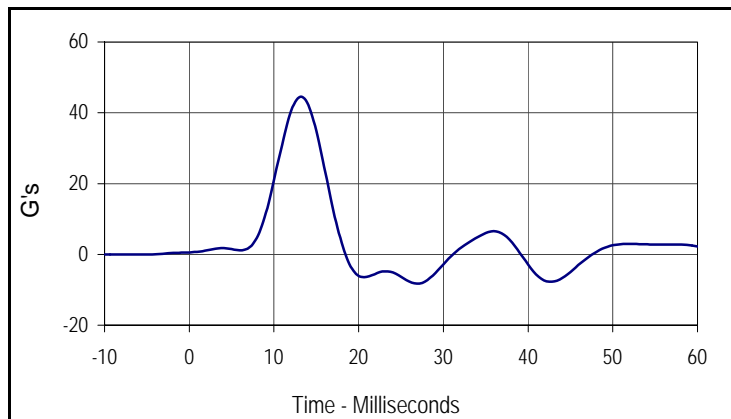
Test Date: 3/18/05
 Test I.D.: TH03E



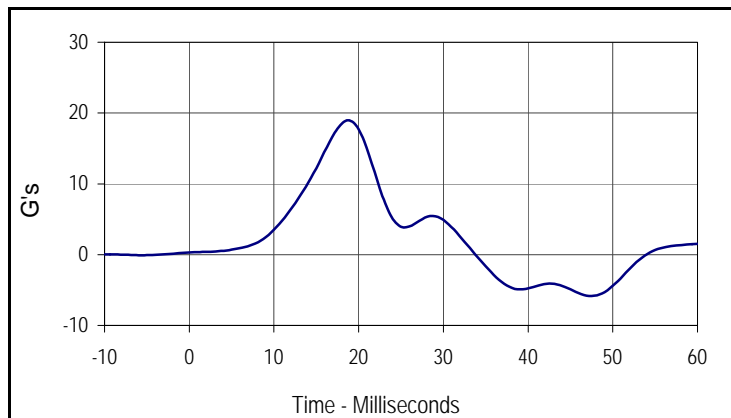
| Tested Parameter | Units | Specification | Result | Pass/Fail |
|------------------------------|-------|---------------|--------|-----------|
| Laboratory Temperature | °C | 18.9 to 25.6 | 21.1 | Pass |
| Laboratory Relative Humidity | % | 10 to 70 | 30 | Pass |
| Probe Velocity | m/s | 4.21 to 4.33 | 4.30 | Pass |
| Upper Rib Acceleration | G's | 37.0 to 46.0 | 42.7 | Pass |
| Lower Rib Acceleration | G's | 37.0 to 46.0 | 44.5 | Pass |
| Thoracic Spine Acceleration | G's | 15.0 to 22.0 | 19.0 | Pass |
| Overall Test Results | | | Pass | |



| Curve Description | | | |
|---------------------|------|-----------|-------|
| Upper Rib Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 001 | FIL | FIR100 | G's |
| Max | Time | Min | Time |
| 42.7 | 13.1 | -10.0 | 27.5 |



| Curve Description | | | |
|---------------------|------|-----------|-------|
| Lower Rib Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 002 | FIL | FIR100 | G's |
| Max | Time | Min | Time |
| 44.5 | 13.1 | -8.3 | 26.9 |



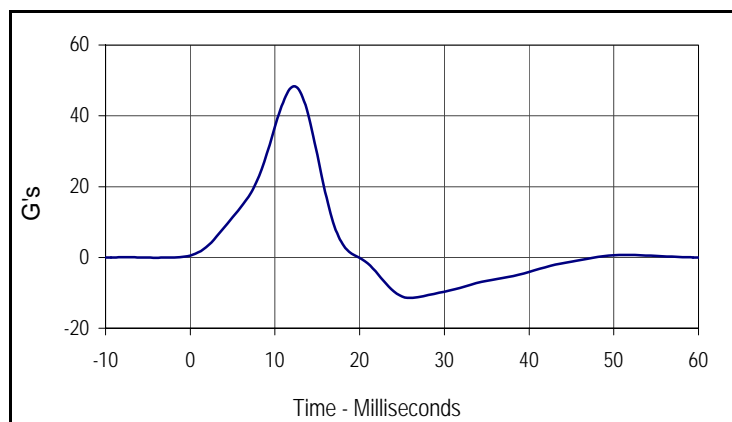
| Curve Description | | | |
|-----------------------|------|-----------|-------|
| Lower Spine Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 003 | FIL | FIR100 | G's |
| Max | Time | Min | Time |
| 19.0 | 18.8 | -5.8 | 47.5 |

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

Test Date: 3/19/05
 Test I.D.: PI03E



| Tested Parameter | Units | Specification | Result | Pass/Fail |
|--------------------------------|-------|---------------|--------|-----------|
| Laboratory Temperature | °C | 18.9 to 25.6 | 21.1 | Pass |
| Laboratory Relative Humidity | % | 10 to 70 | 30 | Pass |
| Probe Velocity | m/s | 4.21 to 4.33 | 4.24 | Pass |
| Peak Pelvis Acceleration | G's | 40.0 to 60.0 | 48.2 | Pass |
| Acceleration Time Above 20 G's | Msec. | 3.0 to 7.0 | 6.90 | Pass |
| Overall Test Results | | | | Pass |



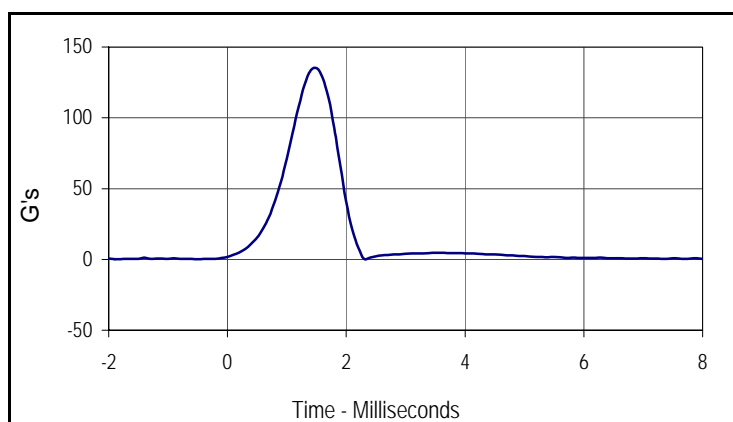
| Curve Description | | | |
|-------------------|------|-----------|-------|
| Pelvis Primary Y | | | |
| CURNO | Type | SAE Class | Units |
| 001 | FIL | FIR100 | G's |
| Max | Time | Min | Time |
| 48.2 | 12.5 | -11.4 | 26.3 |

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

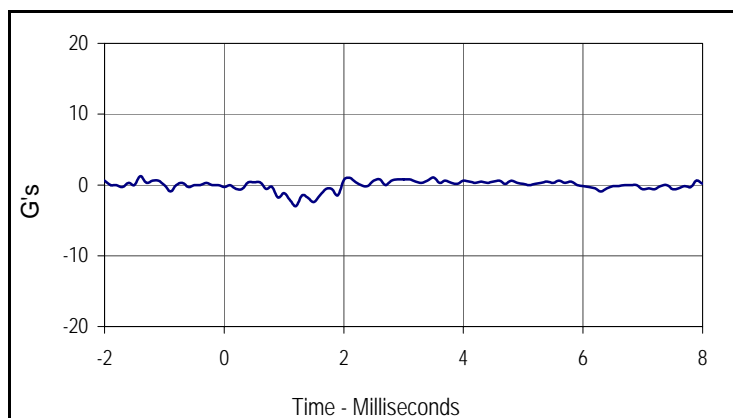
Test Date: 3/20/05
 Test I.D.: HD03E



| Tested Parameter | Units | Specification | Result | Pass/Fail |
|--------------------------------|--------|----------------|--------|-------------|
| Laboratory Temperature | °C | 18.9 to 25.6 | 21.1 | Pass |
| Laboratory Relative Humidity | % | 10 to 70 | 30 | Pass |
| Peak Resultant Acceleration | G's | 120.0 to 150.0 | 135.2 | Pass |
| Peak Longitudinal Acceleration | G's | ≤15.0 | 3.0 | Pass |
| Is Acceleration Unimodal? | Yes/No | Yes | Yes | Pass |
| Oscillations After Main Pulse | % | <15 | 1.8 | Pass |
| Overall Test Results | | | | Pass |



| Curve Description | | | |
|-------------------|------|-----------|-------|
| Head Resultant | | | |
| CURNO | Type | SAE Class | Units |
| 001 | RES | 1000 | G's |
| Max | Time | Min | Time |
| 135.2 | 1.5 | 0.1 | -0.5 |



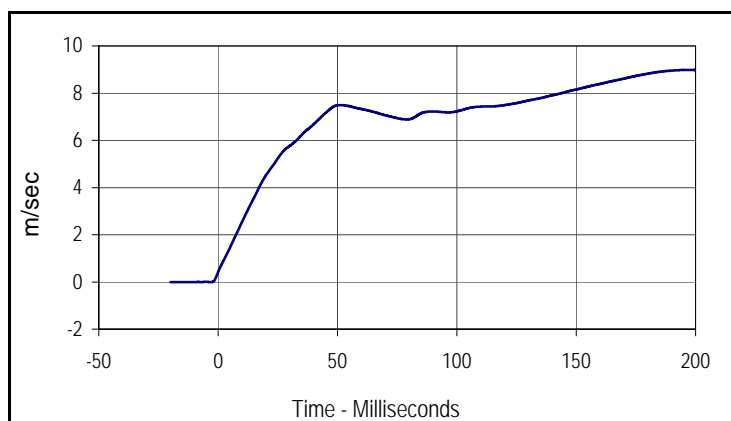
| Curve Description | | | |
|-------------------|------|-----------|-------|
| Head X | | | |
| CURNO | Type | SAE Class | Units |
| 002 | FIL | 1000 | G's |
| Max | Time | Min | Time |
| 1.2 | -1.4 | -3.0 | 1.2 |

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

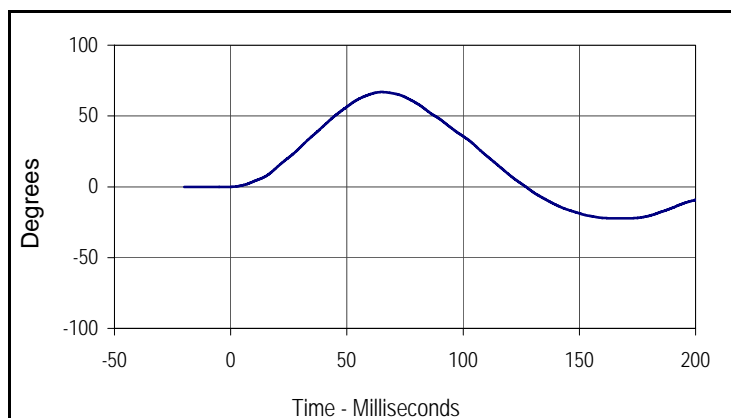
Test Date: 3/19/05
 Test I.D.: NB03E



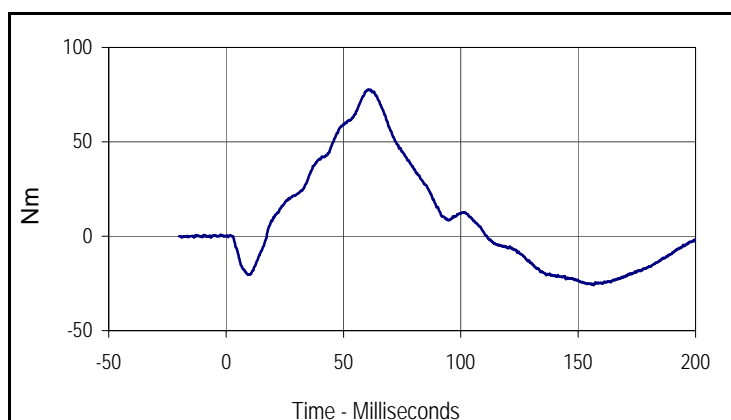
| Tested Parameter | Units | Specification | Result | Pass/Fail | |
|---------------------------------------|----------|---------------|--------------|-----------|------|
| Laboratory Temperature | °C | 20.6 to 22.2 | 21.1 | Pass | |
| Laboratory Relative Humidity | % | 10 to 70 | 30 | Pass | |
| Pendulum Velocity | m/sec | 6.89 to 7.13 | 7.06 | Pass | |
| Pendulum Deceleration | 10 Msec. | m/sec | 1.96 to 2.55 | 2.55 | Pass |
| | 20 Msec. | m/sec | 4.12 to 5.10 | 4.52 | Pass |
| | 30 Msec. | m/sec | 5.73 to 7.01 | 5.76 | Pass |
| | 40 to 70 | m/sec | 6.27 to 7.64 | 7.50 | Pass |
| "D" Plane Rotation | Max | Degrees | 66.0 to 82.0 | 66.9 | Pass |
| Max Rotation Time After Peak Moment | Msec. | 2.0 to 16.0 | 4.4 | Pass | |
| Rotation Time From Peak to Zero Angle | Msec. | 58.0 to 67.0 | 62.0 | Pass | |
| Moment About Occipital Condyle | Nm | 73.0 to 88.0 | 77.8 | Pass | |
| Positive Moment Decay, Time To 0 Nm | Msec. | 49.0 to 64.0 | 50.5 | Pass | |
| Overall Test Results | | | | Pass | |



| Curve Description | | | |
|-------------------|-------|-----------|-------|
| Pendulum Velocity | | | |
| CURNO | Type | SAE Class | Units |
| 001 | FIL | 180 | m/sec |
| Max | Time | Min | Time |
| 9.0 | 196.5 | 0.0 | -2.8 |



| Curve Description | | | |
|--------------------|------|-----------|---------|
| "D" Plane Rotation | | | |
| CURNO | Type | SAE Class | Units |
| 003 | FIL | 60 | Degrees |
| Max | Time | Min | Time |
| 66.9 | 65.0 | -22.3 | 169.8 |



| Curve Description | | | |
|--------------------------------|------|-----------|-------|
| Moment About Occipital Condyle | | | |
| CURNO | Type | SAE Class | Units |
| 004 | FIL | 600 | Nm |
| Max | Time | Min | Time |
| 77.8 | 60.6 | -25.9 | 156.5 |

APPENDIX D
TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

**55/28 km/h Side Impact NCAP
Instrumentation Data Channel Assignments
Driver SID/HIII Serial Number 274
3/17/05
2005 Nissan Xterra 5-Door MPV**

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

**55/28 km/h Side Impact NCAP
Instrumentation Data Channel Assignments
Passenger SID/HIII Serial Number 275
3/17/05
2005 Nissan Xterra 5-Door MPV**

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

**55/28 km/h Side Impact NCAP
Instrumentation Data Channel Assignments
Vehicle Accelerometers
3/17/05
2005 Nissan Xterra 5-Door MPV**

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

**55/28 km/h Side Impact NCAP
Instrumentation Data Channel Assignments
Moving Deformable Barrier
3/17/05
2005 Nissan Xterra 5-Door MPV**

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